

SECTION **DLK**  
DOOR & LOCK

A  
B  
C

CONTENTS

<b>WITH INTELLIGENT KEY SYSTEM</b>	System Diagram .....	21	F
	System Description .....	21	
<b>PRECAUTION</b> .....	<b>SYSTEM (INTELLIGENT KEY SYSTEM)</b> .....	23	G
<b>PRECAUTIONS</b> .....	<b>INTELLIGENT KEY SYSTEM</b> .....	23	H
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" .....	INTELLIGENT KEY SYSTEM : System Description .....	23	
Procedure without Cowl Top Cover .....	<b>DOOR LOCK FUNCTION</b> .....	24	I
Precaution for Servicing Doors and Locks .....	DOOR LOCK FUNCTION : System Description .....	24	
<b>PREPARATION</b> .....	<b>TRUNK OPEN FUNCTION</b> .....	26	J
<b>PREPARATION</b> .....	TRUNK OPEN FUNCTION : System Description .....	26	
Special Service Tools .....	<b>REMOTE KEYLESS ENTRY FUNCTION</b> .....	27	
Commercial Service Tools .....	REMOTE KEYLESS ENTRY FUNCTION : System Description .....	27	
<b>CLIP LIST</b> .....	<b>KEY REMINDER FUNCTION</b> .....	29	L
Descriptions for Clips .....	KEY REMINDER FUNCTION : System Description .....	29	
<b>SYSTEM DESCRIPTION</b> .....	<b>WARNING FUNCTION</b> .....	30	M
<b>COMPONENT PARTS</b> .....	WARNING FUNCTION : System Description .....	30	
<b>POWER DOOR LOCK SYSTEM</b> .....	<b>SYSTEM (TRUNK LID OPENER SYSTEM)</b> .....	33	N
POWER DOOR LOCK SYSTEM :	System Diagram .....	33	
Component Parts Location .....	System Description .....	33	
POWER DOOR LOCK SYSTEM :	<b>SYSTEM (INTEGRATED HOMELINK TRANSMITTER)</b> .....	34	O
Component Description .....	System Description .....	34	
<b>INTELLIGENT KEY SYSTEM</b> .....	<b>DIAGNOSIS SYSTEM (BCM)</b> .....	35	P
INTELLIGENT KEY SYSTEM : Component Parts Location .....	<b>COMMON ITEM</b> .....	35	
INTELLIGENT KEY SYSTEM :	COMMON ITEM : CONSULT Function (BCM - COMMON ITEM) .....	35	
Component Description .....	<b>DOOR LOCK</b> .....	36	
<b>TRUNK LID OPENER SYSTEM</b> .....	DOOR LOCK : CONSULT Function (BCM - DOOR LOCK) .....	36	
TRUNK LID OPENER SYSTEM :			
Component Parts Location .....			
TRUNK LID OPENER SYSTEM :			
Component Description .....			
<b>SYSTEM (POWER DOOR LOCK SYSTEM)</b> .....			

DLK

<b>INTELLIGENT KEY</b> .....	<b>36</b>	DTC Logic .....	89
INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY) .....	36	Diagnosis Procedure .....	89
<b>TRUNK</b> .....	<b>39</b>	<b>POWER SUPPLY AND GROUND CIRCUIT</b> ....	<b>92</b>
TRUNK : CONSULT Function (BCM - TRUNK) ....	39	Diagnosis Procedure .....	92
<b>ECU DIAGNOSIS INFORMATION</b> .....	<b>40</b>	<b>COMBINATION METER BUZZER</b> .....	<b>93</b>
<b>BCM</b> .....	<b>40</b>	Component Function Check .....	93
List of ECU Reference .....	40	Diagnosis Procedure .....	93
<b>WIRING DIAGRAM</b> .....	<b>41</b>	<b>DOOR LOCK ACTUATOR</b> .....	<b>94</b>
<b>POWER DOOR LOCK SYSTEM</b> .....	<b>41</b>	<b>DRIVER SIDE</b> .....	<b>94</b>
Wiring Diagram .....	41	DRIVER SIDE : Component Function Check .....	94
<b>INTELLIGENT KEY SYSTEM</b> .....	<b>49</b>	DRIVER SIDE : Diagnosis Procedure .....	94
Wiring Diagram .....	49	<b>PASSENGER SIDE</b> .....	<b>95</b>
<b>TRUNK LID OPENER</b> .....	<b>63</b>	PASSENGER SIDE :	
Wiring Diagram .....	63	Component Function Check .....	95
<b>HOMELINK UNIVERSAL TRANSCEIVER</b> .....	<b>67</b>	PASSENGER SIDE : Diagnosis Procedure .....	95
Wiring Diagram .....	67	<b>REAR LH</b> .....	<b>96</b>
<b>BASIC INSPECTION</b> .....	<b>69</b>	REAR LH : Component Function Check .....	96
<b>DIAGNOSIS AND REPAIR WORK FLOW</b> .....	<b>69</b>	REAR LH : Diagnosis Procedure .....	96
Work Flow .....	69	<b>REAR RH</b> .....	<b>97</b>
<b>DTC/CIRCUIT DIAGNOSIS</b> .....	<b>72</b>	REAR RH : Component Function Check .....	97
<b>U1000 CAN COMM CIRCUIT</b> .....	<b>72</b>	REAR RH : Diagnosis Procedure .....	97
Description .....	72	<b>DOOR LOCK AND UNLOCK SWITCH</b> .....	<b>99</b>
DTC Logic .....	72	Component Function Check .....	99
Diagnosis Procedure .....	72	Diagnosis Procedure .....	99
<b>U1010 CONTROL UNIT (CAN)</b> .....	<b>73</b>	Component Inspection .....	100
DTC Logic .....	73	<b>UNLOCK SENSOR</b> .....	<b>102</b>
Diagnosis Procedure .....	73	Component Function Check .....	102
<b>B2621 INSIDE ANTENNA</b> .....	<b>74</b>	Diagnosis Procedure .....	102
DTC Logic .....	74	Component Inspection .....	103
Diagnosis Procedure .....	74	<b>KEY CYLINDER SWITCH</b> .....	<b>104</b>
<b>B2622 INSIDE ANTENNA</b> .....	<b>77</b>	Description .....	104
DTC Logic .....	77	Component Function Check .....	104
Diagnosis Procedure .....	77	Diagnosis Procedure .....	104
<b>B2623 INSIDE ANTENNA</b> .....	<b>80</b>	Component Inspection .....	105
DTC Logic .....	80	<b>DOOR REQUEST SWITCH</b> .....	<b>106</b>
Diagnosis Procedure .....	80	Component Function Check .....	106
<b>B2626 OUTSIDE ANTENNA</b> .....	<b>83</b>	Diagnosis Procedure .....	106
DTC Logic .....	83	Component Inspection .....	107
Diagnosis Procedure .....	83	<b>DOOR SWITCH</b> .....	<b>108</b>
<b>B2627 OUTSIDE ANTENNA</b> .....	<b>86</b>	Component Function Check .....	108
DTC Logic .....	86	Diagnosis Procedure .....	108
Diagnosis Procedure .....	86	Component Inspection .....	109
<b>B2628 OUTSIDE ANTENNA</b> .....	<b>89</b>	<b>HAZARD FUNCTION</b> .....	<b>111</b>
		Component Function Check .....	111
		Diagnosis Procedure .....	111
		<b>INTELLIGENT KEY WARNING BUZZER</b> .....	<b>112</b>
		Component Function Check .....	112
		Diagnosis Procedure .....	112
		Component Inspection .....	113

<b>INTELLIGENT KEY</b> .....	114	Description .....	134	
Component Function Check .....	114	Diagnosis Procedure .....	134	A
Diagnosis Procedure .....	114			
<b>KEY WARNING LAMP</b> .....	115	<b>DOOR DOES NOT LOCK/UNLOCK WITH</b>		
Component Function Check .....	115	<b>DOOR REQUEST SWITCH AND INTELLI-</b>		B
Diagnosis Procedure .....	115	<b>GENENT KEY</b> .....	135	
		Description .....	135	
<b>REMOTE KEYLESS ENTRY RECEIVER</b> .....	116	Diagnosis Procedure .....	135	C
Component Function Check .....	116			
Diagnosis Procedure .....	116	<b>INTELLIGENT KEY BUTTON OPERATION</b>		
		<b>HAS POOR RANGE (ALL KEYS)</b> .....	136	
<b>SHIFT P WARNING LAMP</b> .....	118	Description .....	136	D
Component Function Check .....	118	Diagnosis Procedure .....	136	
Diagnosis Procedure .....	118			
<b>TRUNK LID OPENER ACTUATOR</b> .....	119	<b>DOOR DOES NOT LOCK/UNLOCK WITH IN-</b>		
Component Function Check .....	119	<b>TELLIGENT KEY (ONE KEY)</b> .....	138	E
Diagnosis Procedure .....	119	Description .....	138	
		Diagnosis Procedure .....	138	
<b>TRUNK LID OPENER SWITCH</b> .....	121	<b>DOOR DOES NOT LOCK/UNLOCK AND EN-</b>		
Component Function Check .....	121	<b>GINE DOES NOT START (ONE I-KEY/REQ</b>		
Diagnosis Procedure .....	121	<b>SW/PUSH SW)</b> .....	139	G
Component Inspection .....	122	Description .....	139	
		Diagnosis Procedure .....	139	
<b>TRUNK LAMP SWITCH</b> .....	123	<b>INTELLIGENT KEY SYSTEM ALL FUNC-</b>		
Description .....	123	<b>TIONS CANNOT OPERATE (ONE KEY)</b> .....	141	H
Component Function Check .....	123	Description .....	141	
Diagnosis Procedure .....	123	Diagnosis Procedure .....	141	I
Component Inspection .....	124			
<b>SYMPTOM DIAGNOSIS</b> .....	126	<b>INTELLIGENT KEY BUTTON OPERATION</b>		
		<b>HAS POOR RANGE (ONE KEY)</b> .....	143	J
<b>INTELLIGENT KEY SYSTEM SYMPTOMS</b> ....	126	Description .....	143	
Diagnosis Procedure .....	126	Diagnosis Procedure .....	143	
<b>ALL DOORS DO NOT LOCK/UNLOCK OR</b>		<b>REMOVAL AND INSTALLATION</b> .....	144	DLK
<b>TRUNK/BACK DOOR DO NOT OPEN WITH</b>		<b>HOOD</b> .....	144	
<b>REQUEST SWITCH</b> .....	127	<b>HOOD ASSEMBLY</b> .....	144	L
Description .....	127	HOOD ASSEMBLY : Exploded View .....	144	
Diagnosis Procedure .....	127	HOOD ASSEMBLY : Removal and Installation ....	144	
		HOOD ASSEMBLY : Adjustment .....	145	M
<b>DOOR DOES NOT LOCK/UNLOCK AND EN-</b>		<b>HOOD HINGE</b> .....	147	
<b>GINE DOES NOT START (REQ SW/PUSH</b>		HOOD HINGE : Removal and Installation .....	147	
<b>SW) (ALL KEYS)</b> .....	129	<b>HOOD SUPPORT ROD</b> .....	148	N
Description .....	129	HOOD SUPPORT ROD : Removal and Installa-		
Diagnosis Procedure .....	129	tion .....	148	
<b>DOOR DOES NOT LOCK/UNLOCK AND EN-</b>		<b>HOOD LOCK CONTROL</b> .....	148	O
<b>GINE DOES NOT START (ALL I-KEY/REQ</b>		HOOD LOCK CONTROL : Exploded View .....	149	
<b>SW/PUSH SW)</b> .....	131	HOOD LOCK CONTROL : Removal and Installa-		
Description .....	131	tion .....	149	P
Diagnosis Procedure .....	131	<b>RADIATOR CORE SUPPORT</b> .....	152	
<b>INTELLIGENT KEY SYSTEM ALL FUNC-</b>		Exploded View .....	152	
<b>TIONS CANNOT OPERATE (ALL KEYS)</b> .....	132	Removal and Installation .....	152	
Description .....	132	<b>FRONT FENDER</b> .....	154	
Diagnosis Procedure .....	132	Exploded View .....	154	
<b>DOOR DOES NOT LOCK/UNLOCK WITH IN-</b>				
<b>TELLIGENT KEY</b> .....	134			

Removal and Installation .....	154	<b>TORSION BAR</b> .....	182
Adjustment .....	155	TORSION BAR : Removal and Installation .....	182
<b>FRONT DOOR</b> .....	157	<b>TRUNK LID LOCK</b> .....	182
<b>DOOR ASSEMBLY</b> .....	157	TRUNK LID LOCK : Removal and Installation .....	182
DOOR ASSEMBLY : Removal and Installation .....	157	<b>EMERGENCY LEVER</b> .....	183
DOOR ASSEMBLY : Adjustment .....	159	EMERGENCY LEVER : Removal and Installation .....	183
<b>DOOR HINGE</b> .....	160	<b>TRUNK LID STRIKER</b> .....	183
DOOR HINGE : Removal and Installation .....	160	TRUNK LID STRIKER : Removal and Installation .....	183
<b>DOOR CHECK LINK</b> .....	161	<b>FUEL FILLER LID OPENER</b> .....	184
DOOR CHECK LINK : Removal and Installation .....	161	Exploded View .....	184
<b>REAR DOOR</b> .....	163	<b>FUEL FILLER LID</b> .....	184
<b>DOOR ASSEMBLY</b> .....	163	FUEL FILLER LID : Removal and Installation .....	184
DOOR ASSEMBLY : Removal and Installation .....	163	<b>FUEL FILLER OPENER CABLE</b> .....	185
DOOR ASSEMBLY : Adjustment .....	164	FUEL FILLER OPENER CABLE : Removal and Installation .....	185
<b>DOOR HINGE</b> .....	166	<b>FUEL FILLER LID LOCK</b> .....	186
DOOR HINGE : Removal and Installation .....	166	FUEL FILLER LID LOCK : Removal and Installation .....	186
<b>DOOR CHECK LINK</b> .....	166	<b>DOOR SWITCH</b> .....	188
DOOR CHECK LINK : Removal and Installation .....	166	Removal and Installation .....	188
<b>DOOR HANDLE</b> .....	168	<b>INSIDE KEY ANTENNA</b> .....	189
<b>FRONT DOOR HANDLE</b> .....	168	<b>CONSOLE</b> .....	189
FRONT DOOR HANDLE : Exploded View .....	168	CONSOLE : Removal and Installation .....	189
FRONT DOOR HANDLE : Removal and Installation - Inside Handle .....	168	<b>LUGGAGE ROOM</b> .....	189
FRONT DOOR HANDLE : Removal and Installation - Outside Handle .....	168	LUGGAGE ROOM : Removal and Installation .....	189
<b>REAR DOOR HANDLE</b> .....	170	<b>INSTRUMENT CENTER</b> .....	189
REAR DOOR HANDLE : Exploded View .....	171	INSTRUMENT CENTER : Removal and Installation .....	189
REAR DOOR HANDLE : Removal and Installation - Inside Handle .....	171	<b>OUTSIDE KEY ANTENNA</b> .....	190
REAR DOOR HANDLE : Removal and Installation - Outside Handle .....	171	<b>DRIVER SIDE</b> .....	190
<b>DOOR LOCK</b> .....	174	DRIVER SIDE : Removal and Installation .....	190
<b>FRONT DOOR LOCK</b> .....	174	<b>PASSENGER SIDE</b> .....	190
FRONT DOOR LOCK : Exploded View .....	174	PASSENGER SIDE : Removal and Installation .....	190
FRONT DOOR LOCK : Removal and Installation .....	174	<b>REAR BUMPER</b> .....	190
<b>REAR DOOR LOCK</b> .....	175	REAR BUMPER : Removal and Installation .....	190
REAR DOOR LOCK : Exploded View .....	176	<b>DOOR REQUEST SWITCH</b> .....	191
REAR DOOR LOCK : Removal and Installation .....	176	<b>DRIVER SIDE</b> .....	191
<b>TRUNK LID</b> .....	178	DRIVER SIDE : Removal and Installation .....	191
<b>TRUNK LID ASSEMBLY</b> .....	178	<b>PASSENGER SIDE</b> .....	191
TRUNK LID ASSEMBLY : Exploded View .....	178	PASSENGER SIDE : Removal and Installation .....	191
TRUNK LID ASSEMBLY : Removal and Installation .....	178	<b>TRUNK LID FINISHER</b> .....	191
TRUNK LID ASSEMBLY : Adjustment .....	180	TRUNK LID FINISHER : Removal and Installation .....	191
<b>TRUNK LID HINGE</b> .....	181	<b>INTELLIGENT KEY WARNING BUZZER</b> .....	192
TRUNK LID HINGE : Removal and Installation .....	181	Removal and Installation .....	192



<b>REMOTE KEYLESS ENTRY RECEIVER</b> .....	<b>193</b>	<b>AUTOMATIC DOOR LOCK/UNLOCK FUNCTION</b> : System Description .....	<b>208</b>	<b>A</b>
Removal and Installation .....	193			
<b>INTELLIGENT KEY BATTERY</b> .....	<b>194</b>	<b>POWER DOOR LOCK SYSTEM</b> .....	<b>209</b>	<b>B</b>
Removal and Installation .....	194	POWER DOOR LOCK SYSTEM : System Dia- gram .....	210	
<b>TRUNK LID OPENER SWITCH</b> .....	<b>195</b>	POWER DOOR LOCK SYSTEM : System De- scription .....	210	<b>C</b>
Removal and Installation .....	195			
<b>WITHOUT INTELLIGENT KEY SYSTEM</b>		<b>REMOTE KEYLESS ENTRY SYSTEM</b> .....	<b>210</b>	<b>D</b>
<b>PRECAUTION</b> .....	<b>196</b>	REMOTE KEYLESS ENTRY SYSTEM : System Diagram .....	211	
<b>PRECAUTIONS</b> .....	<b>196</b>	REMOTE KEYLESS ENTRY SYSTEM : System Description .....	211	<b>E</b>
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TEN- SIONER" .....	196	<b>SYSTEM (TRUNK LID OPENER SYSTEM)</b> ...	<b>213</b>	
Procedure without Cowl Top Cover .....	196	System Description .....	213	<b>F</b>
Precaution for Servicing Doors and Locks .....	196	<b>DIAGNOSIS SYSTEM (BCM)</b> .....	<b>214</b>	
<b>PREPARATION</b> .....	<b>198</b>	<b>COMMON ITEM</b> .....	<b>214</b>	<b>G</b>
<b>PREPARATION</b> .....	<b>198</b>	COMMON ITEM : CONSULT Function (BCM - COMMON ITEM) .....	214	
Special Service Tools .....	198	<b>DOOR LOCK</b> .....	<b>215</b>	<b>H</b>
Commercial Service Tools .....	199	DOOR LOCK : CONSULT Function (BCM - DOOR LOCK) .....	215	
<b>CLIP LIST</b> .....	<b>200</b>	<b>TRUNK</b> .....	<b>215</b>	<b>I</b>
Descriptions for Clips .....	200	TRUNK : CONSULT Function (BCM - TRUNK) ...	215	
<b>SYSTEM DESCRIPTION</b> .....	<b>204</b>	<b>ECU DIAGNOSIS INFORMATION</b> .....	<b>217</b>	<b>J</b>
<b>COMPONENT PARTS</b> .....	<b>204</b>	<b>BCM</b> .....	<b>217</b>	
<b>AUTOMATIC DOOR LOCK/UNLOCK FUNCTION.</b> <b>204</b>		List of ECU Reference .....	217	
AUTOMATIC DOOR LOCK/UNLOCK FUNCTION : Component Parts Location .....	204	<b>WIRING DIAGRAM</b> .....	<b>218</b>	<b>DLK</b>
AUTOMATIC DOOR LOCK/UNLOCK FUNCTION : Component Description .....	204	<b>REMOTE KEYLESS ENTRY SYSTEM</b> .....	<b>218</b>	
<b>POWER DOOR LOCK SYSTEM</b> .....	<b>204</b>	Wiring Diagram .....	218	<b>L</b>
POWER DOOR LOCK SYSTEM : Component Parts Location .....	205	<b>POWER DOOR LOCK SYSTEM</b> .....	<b>226</b>	
POWER DOOR LOCK SYSTEM : Component Description .....	205	Wiring Diagram .....	226	<b>M</b>
<b>REMOTE KEYLESS ENTRY SYSTEM</b> .....	<b>205</b>	<b>TRUNK LID OPENER</b> .....	<b>234</b>	
REMOTE KEYLESS ENTRY SYSTEM : Component Parts Location .....	206	Wiring Diagram .....	234	<b>N</b>
REMOTE KEYLESS ENTRY SYSTEM : Component Description .....	206	<b>BASIC INSPECTION</b> .....	<b>238</b>	
<b>TRUNK LID OPENER SYSTEM</b> .....	<b>206</b>	<b>DIAGNOSIS AND REPAIR WORK FLOW</b> ....	<b>238</b>	<b>O</b>
TRUNK LID OPENER SYSTEM : Component Parts Location .....	207	Work Flow .....	238	
TRUNK LID OPENER SYSTEM : Component Description .....	207	<b>KEYFOB ID REGISTRATION</b> .....	<b>241</b>	<b>P</b>
<b>SYSTEM (POWER DOOR LOCK SYSTEM)</b> ..	<b>208</b>	Description .....	241	
<b>AUTOMATIC DOOR LOCK/UNLOCK FUNCTION.</b> <b>208</b>		Work Procedure .....	241	
AUTOMATIC DOOR LOCK/UNLOCK FUNCTION : System Diagram .....	208	<b>DTC/CIRCUIT DIAGNOSIS</b> .....	<b>243</b>	
		<b>U1000 CAN COMM</b> .....	<b>243</b>	
		Description .....	243	
		DTC Logic .....	243	
		Diagnosis Procedure .....	243	
		<b>U1010 CONTROL UNIT (CAN)</b> .....	<b>244</b>	

DTC Logic .....	244	Description .....	264
Diagnosis Procedure .....	244	Component Function Check .....	264
<b>POWER SUPPLY AND GROUND CIRCUIT ..</b>	<b>245</b>	Diagnosis Procedure .....	264
Diagnosis Procedure .....	245	<b>HORN FUNCTION .....</b>	<b>266</b>
<b>DOOR SWITCH .....</b>	<b>246</b>	Description .....	266
Description .....	246	Component Function Check .....	266
Component Function Check .....	246	Diagnosis Procedure .....	266
Diagnosis Procedure .....	246	<b>TRUNK LID OPENER ACTUATOR .....</b>	<b>268</b>
Component Inspection .....	248	Component Function Check .....	268
<b>DOOR LOCK AND UNLOCK SWITCH .....</b>	<b>249</b>	Diagnosis Procedure .....	268
<b>DRIVER SIDE .....</b>	<b>249</b>	<b>TRUNK LID OPENER SWITCH .....</b>	<b>270</b>
DRIVER SIDE : Description .....	249	Component Function Check .....	270
DRIVER SIDE : Component Function Check .....	249	Diagnosis Procedure .....	270
DRIVER SIDE : Diagnosis Procedure .....	249	Component Inspection .....	271
<b>PASSENGER SIDE .....</b>	<b>250</b>	<b>TRUNK LAMP SWITCH .....</b>	<b>272</b>
PASSENGER SIDE : Description .....	250	Description .....	272
PASSENGER SIDE :		Component Function Check .....	272
Component Function Check .....	250	Diagnosis Procedure .....	272
PASSENGER SIDE : Diagnosis Procedure .....	251	Component Inspection .....	273
<b>KEY CYLINDER SWITCH .....</b>	<b>253</b>	<b>WARNING CHIME FUNCTION .....</b>	<b>275</b>
Description .....	253	Description .....	275
Component Function Check .....	253	Component Function Check .....	275
Diagnosis Procedure .....	253	Diagnosis Procedure .....	275
Component Inspection .....	254	<b>HAZARD FUNCTION .....</b>	<b>276</b>
<b>KEY SWITCH (BCM INPUT) .....</b>	<b>255</b>	Description .....	276
Diagnosis Procedure .....	255	Component Function Check .....	276
<b>DOOR LOCK ACTUATOR .....</b>	<b>256</b>	Diagnosis Procedure .....	276
<b>DRIVER SIDE .....</b>	<b>256</b>	<b>KEYFOB ID SET UP WITH CONSULT .....</b>	<b>277</b>
DRIVER SIDE : Description .....	256	ID Code Entry Procedure .....	277
DRIVER SIDE : Component Function Check .....	256	<b>KEYFOB ID SET UP WITHOUT CONSULT ...</b>	<b>278</b>
DRIVER SIDE : Diagnosis Procedure .....	256	ID Code Entry Procedure .....	278
<b>PASSENGER SIDE .....</b>	<b>257</b>	<b>SYMPTOM DIAGNOSIS .....</b>	<b>280</b>
PASSENGER SIDE : Description .....	257	<b>POWER DOOR LOCK SYSTEM SYMPTOMS.</b>	<b>280</b>
PASSENGER SIDE :		Symptom Table .....	280
Component Function Check .....	257	<b>REMOTE KEYLESS ENTRY SYSTEM SYMP-</b>	<b>281</b>
PASSENGER SIDE : Diagnosis Procedure .....	257	<b>TOMS .....</b>	<b>281</b>
<b>REAR LH .....</b>	<b>258</b>	Symptom Table .....	281
REAR LH : Description .....	258	<b>SQUEAK AND RATTLE TROUBLE DIAG-</b>	<b>283</b>
REAR LH : Component Function Check .....	258	<b>NOSES .....</b>	<b>283</b>
REAR LH : Diagnosis Procedure .....	258	Work Flow .....	283
<b>REAR RH .....</b>	<b>259</b>	Generic Squeak and Rattle Troubleshooting .....	284
REAR RH : Description .....	259	Diagnostic Worksheet .....	287
REAR RH : Component Function Check .....	259	<b>REMOVAL AND INSTALLATION .....</b>	<b>289</b>
REAR RH : Diagnosis Procedure .....	259	<b>HOOD .....</b>	<b>289</b>
<b>REMOTE KEYLESS ENTRY RECEIVER .....</b>	<b>261</b>	<b>HOOD ASSEMBLY .....</b>	<b>289</b>
Description .....	261	HOOD ASSEMBLY : Exploded View .....	289
Component Function Check .....	261	HOOD ASSEMBLY : Removal and Installation ...	289
Diagnosis Procedure .....	261		
<b>KEYFOB BATTERY AND FUNCTION .....</b>	<b>264</b>		

HOOD ASSEMBLY : Adjustment .....	290	<b>DOOR LOCK .....</b>	<b>319</b>	A
<b>HOOD HINGE .....</b>	<b>292</b>	<b>FRONT DOOR LOCK .....</b>	<b>319</b>	B
HOOD HINGE : Removal and Installation .....	292	FRONT DOOR LOCK : Exploded View .....	319	
<b>HOOD SUPPORT ROD .....</b>	<b>293</b>	FRONT DOOR LOCK : Removal and Installation..	319	
HOOD SUPPORT ROD : Removal and Installation .....	293	<b>REAR DOOR LOCK .....</b>	<b>320</b>	C
<b>HOOD LOCK CONTROL .....</b>	<b>293</b>	REAR DOOR LOCK : Exploded View .....	321	
HOOD LOCK CONTROL : Exploded View .....	294	REAR DOOR LOCK : Removal and Installation ...	321	
HOOD LOCK CONTROL : Removal and Installation .....	294	<b>TRUNK LID .....</b>	<b>323</b>	D
<b>RADIATOR CORE SUPPORT .....</b>	<b>297</b>	<b>TRUNK LID ASSEMBLY .....</b>	<b>323</b>	E
Exploded View .....	297	TRUNK LID ASSEMBLY : Exploded View .....	323	
Removal and Installation .....	297	TRUNK LID ASSEMBLY : Removal and Installation .....	323	
<b>FRONT FENDER .....</b>	<b>299</b>	TRUNK LID ASSEMBLY : Adjustment .....	325	
Exploded View .....	299	<b>TRUNK LID HINGE .....</b>	<b>326</b>	F
Removal and Installation .....	299	TRUNK LID HINGE : Removal and Installation ...	326	
Adjustment .....	300	<b>TORSION BAR .....</b>	<b>327</b>	G
<b>FRONT DOOR .....</b>	<b>302</b>	TORSION BAR : Removal and Installation .....	327	
<b>DOOR ASSEMBLY .....</b>	<b>302</b>	<b>TRUNK LID LOCK .....</b>	<b>327</b>	H
DOOR ASSEMBLY : Removal and Installation ....	302	TRUNK LID LOCK : Removal and Installation ....	327	
DOOR ASSEMBLY : Adjustment .....	304	<b>EMERGENCY LEVER .....</b>	<b>328</b>	I
<b>DOOR HINGE .....</b>	<b>305</b>	EMERGENCY LEVER : Removal and Installation..	328	
DOOR HINGE : Removal and Installation .....	305	<b>TRUNK LID STRIKER .....</b>	<b>328</b>	J
<b>DOOR CHECK LINK .....</b>	<b>306</b>	TRUNK LID STRIKER : Removal and Installation..	328	
DOOR CHECK LINK : Removal and Installation ..	306	<b>FUEL FILLER LID OPENER .....</b>	<b>329</b>	
<b>REAR DOOR .....</b>	<b>308</b>	Exploded View .....	329	
<b>DOOR ASSEMBLY .....</b>	<b>308</b>	<b>FUEL FILLER LID .....</b>	<b>329</b>	DLK
DOOR ASSEMBLY : Removal and Installation ....	308	FUEL FILLER LID : Removal and Installation ....	329	
DOOR ASSEMBLY : Adjustment .....	309	<b>FUEL FILLER OPENER CABLE .....</b>	<b>330</b>	L
<b>DOOR HINGE .....</b>	<b>311</b>	FUEL FILLER OPENER CABLE : Removal and Installation .....	330	
DOOR HINGE : Removal and Installation .....	311	<b>FUEL FILLER LID LOCK .....</b>	<b>331</b>	M
<b>DOOR CHECK LINK .....</b>	<b>311</b>	FUEL FILLER LID LOCK : Removal and Installation .....	331	
DOOR CHECK LINK : Removal and Installation ..	311	<b>DOOR SWITCH .....</b>	<b>333</b>	N
<b>DOOR HANDLE .....</b>	<b>313</b>	Removal and Installation .....	333	
<b>FRONT DOOR HANDLE .....</b>	<b>313</b>	<b>REMOTE KEYLESS ENTRY RECEIVER .....</b>	<b>334</b>	O
FRONT DOOR HANDLE : Exploded View .....	313	Removal and Installation .....	334	
FRONT DOOR HANDLE : Removal and Installation - Inside Handle .....	313	<b>KEYFOB BATTERY .....</b>	<b>335</b>	P
FRONT DOOR HANDLE : Removal and Installation - Outside Handle .....	313	Exploded View .....	335	
<b>REAR DOOR HANDLE .....</b>	<b>315</b>	Removal and Installation .....	335	
REAR DOOR HANDLE : Exploded View .....	316	<b>TRUNK LID OPENER SWITCH .....</b>	<b>336</b>	
REAR DOOR HANDLE : Removal and Installation - Inside Handle .....	316	Removal and Installation .....	336	
REAR DOOR HANDLE : Removal and Installation - Outside Handle .....	316	<b>STEERING LOCK UNIT .....</b>	<b>337</b>	
		Exploded View .....	337	
		Removal and Installation - Steering lock unit .....	337	
		Removal and Installation - Ignition switch .....	338	

## PRECAUTION

### PRECAUTIONS

#### Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000013475470

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

**WARNING:**

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.
- Improper repair, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

#### PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

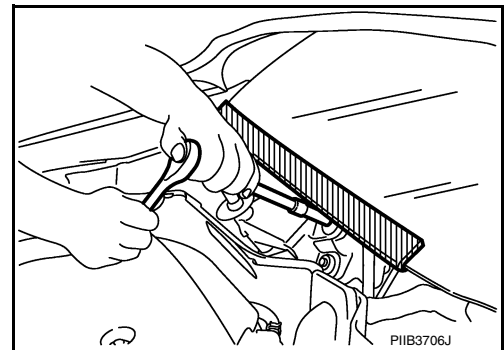
**WARNING:**

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery or batteries, and wait at least three minutes before performing any service.

#### Procedure without Cowl Top Cover

INFOID:000000012783050

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc.



#### Precaution for Servicing Doors and Locks

INFOID:000000012783051

**WARNING:**

**Radio waves could adversely affect electric medical equipment. Those who use a pacemaker should contact the electric medical equipment manufacturer for the possible influences before use,**

- After removing and installing the opening/closing parts, be sure to carry out fitting adjustments to check their operation.
- Check the lubrication level, damage, and wear of each part. If necessary, grease or replace it.
- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.

## PRECAUTIONS

< PRECAUTION >

[WITH INTELLIGENT KEY SYSTEM]

- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:
  - Water soluble dirt:
    - Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
    - Then rub with a soft, dry cloth.
  - Oily dirt:
    - Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
    - Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
    - Then rub with a soft, dry cloth.
  - Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
  - For genuine leather seats, use a genuine leather seat cleaner.

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# PREPARATION

[WITH INTELLIGENT KEY SYSTEM]

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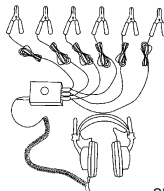

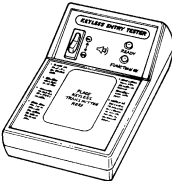

## PREPARATION

### PREPARATION

#### Special Service Tools

INFOID:000000012783052

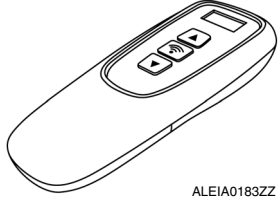
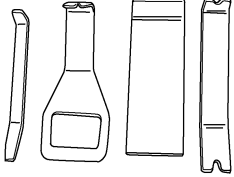
The actual shape of the tools may differ from those illustrated here.

Tool number (TechMate No.) Tool name	Description
<p>— (J-39570) Chassis Ear</p>  <p style="text-align: right; font-size: small;">SIIA0993E</p>	<p>Locating the noise</p>
<p>— (J-50397) NISSAN Squeak and Rattle Kit</p>  <p style="text-align: right; font-size: small;">ALJIA1232ZZ</p>	<p>Repairing the cause of noise</p>
<p>— (J-43241) Remote Keyless Entry Tester</p> 	<p>Used to test keyfobs</p>
<p>— (J-50190) Signal Tech II</p>  <p style="text-align: right; font-size: small;">ALEIA0131ZZ</p>	<ul style="list-style-type: none"> <li>• Activate and display TPMS transmitter IDs</li> <li>• Display tire pressure reported by the TPMS transmitter</li> <li>• Read TPMS DTCs</li> <li>• Register TPMS transmitter IDs</li> <li>• Test remote keyless entry keyfob relative signal strength</li> <li>• Compatible with future sensors</li> <li>• Equipped with a display</li> <li>• Check Intelligent Key relative signal strength</li> <li>• Confirm vehicle Intelligent Key antenna signal strength</li> </ul>

# PREPARATION

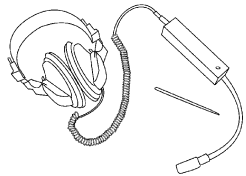
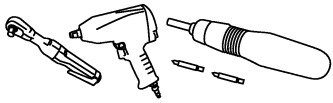

< PREPARATION >

[WITH INTELLIGENT KEY SYSTEM]

Tool number (TechMate No.) Tool name	Description
KV48105501 (J-45295-A) Transmitter activation tool   ALEIA0183ZZ	<ul style="list-style-type: none"> <li>• Activate TPMS transmitter IDs</li> <li>• Compatible with future sensors</li> <li>• Equipped with a display (KV48105501 only)</li> </ul>
— (J-46534) Trim Tool Set   AWJIA0483ZZ	Removing trim components

## Commercial Service Tools

INFOID:000000012783053

(TechMate No.) Tool name	Description
(J-39565) Engine Ear   SIA0995E	Locating the noise
( — ) Power tool   PIIB1407E	Loosening nuts, screws and bolts
( — ) Torsion bar wrench   AWKIA3594ZZ	Removing trunk lid torsion bar

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# CLIP LIST

< PREPARATION >


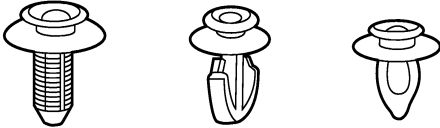


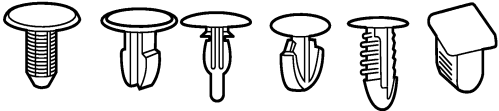
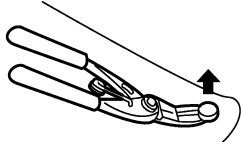

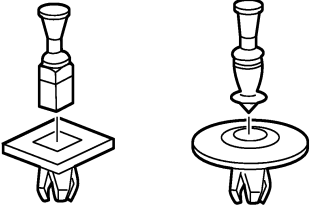
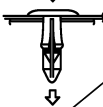
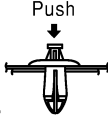

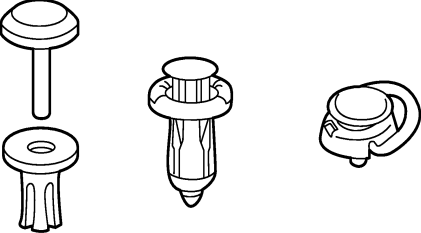


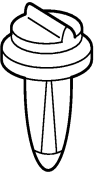
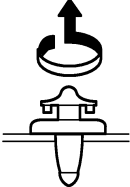
[WITH INTELLIGENT KEY SYSTEM]

## CLIP LIST

### Descriptions for Clips

INFOID:000000012783054

Replace any clips which are damaged during removal or installation.

Symbol No.	Shapes	Removal & Installation
C101 		<p><b>Removal:</b> Remove by bending up with flat-bladed screwdrivers or clip remover.</p> 
C103 		 <p><b>Removal:</b> Remove with a clip remover.</p>
C203 		<p><b>Removal:</b> Push center pin to catching position. (Do not remove center pin by hitting it.)</p> <p>Push</p>  <p><b>Installation:</b></p> <p>Push</p> 
C205 		<p><b>Removal:</b></p> <p>Flat-bladed screwdriver</p>  <p>Clip</p> <p>Finisher</p>
C206 		<p><b>Removal:</b></p> 


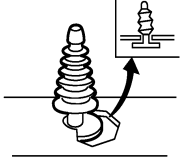
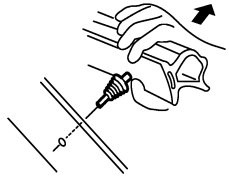

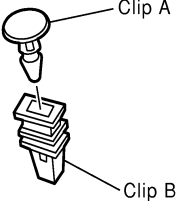
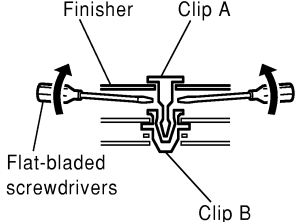

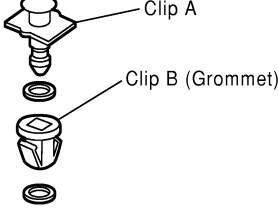
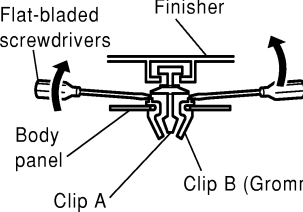


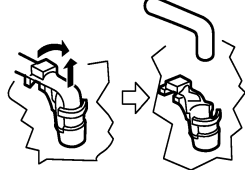

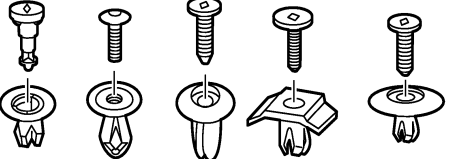

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# CLIP LIST

< PREPARATION >

[WITH INTELLIGENT KEY SYSTEM]

Symbol No.	Shapes	Removal & Installation
<p>CE103</p> 		<p><b>Removal:</b></p> 
<p>CF110</p> 		<p><b>Removal:</b></p> 
<p>CF118</p> 		<p><b>Removal:</b></p> 
<p>CR103</p> 		<p><b>Removal:</b> Holder portion of clip must be spread out to remove rod.</p> 
<p>CS101</p> 		<p><b>Removal:</b></p> <ol style="list-style-type: none"> <li>1. Screw out with a Phillips screwdriver.</li> <li>2. Remove female portion with flat-bladed screwdriver.</li> </ol> 


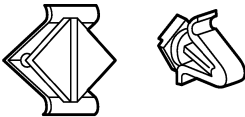

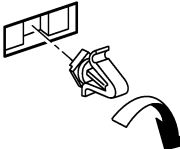

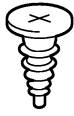



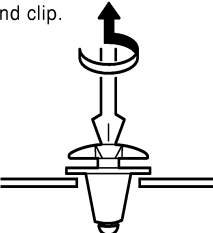


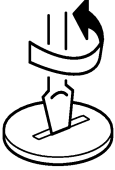
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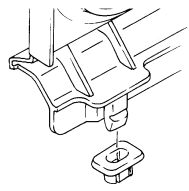
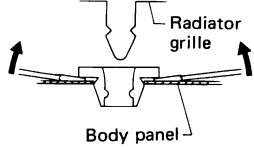
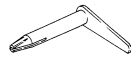
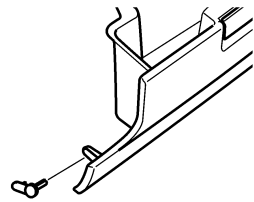
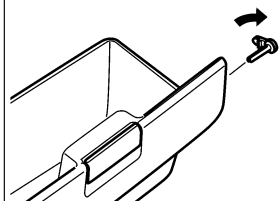

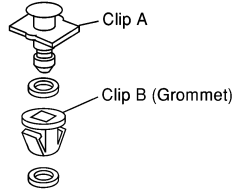
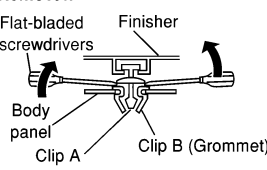
Symbol No.	Shapes	Removal & Installation	
<p>CG101</p> 		<p><b>Removal:</b></p>  <p>Rotate 45° to remove</p>	<p><b>Installation:</b></p> 
<p>CS102</p> 			
<p>CS113</p> 		<p><b>Removal:</b> Disconnect upper connection of clip with a flat-bladed screwdriver, then remove clip while inserting a flat-bladed screwdriver between body panel and clip.</p> 	
<p>C111</p> 			

SIIA0317E

# CLIP LIST

< PREPARATION >

[WITH INTELLIGENT KEY SYSTEM]

Symbol No.	Shapes	Removal & Installation
<p>CG104</p> 		<p><b>Removal:</b> Remove by bending up with flat-bladed screwdrivers.</p> 
<p>CE114</p> 		
<p>CF118</p> 		<p><b>Removal:</b> Flat-bladed screwdrivers</p> 

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# COMPONENT PARTS

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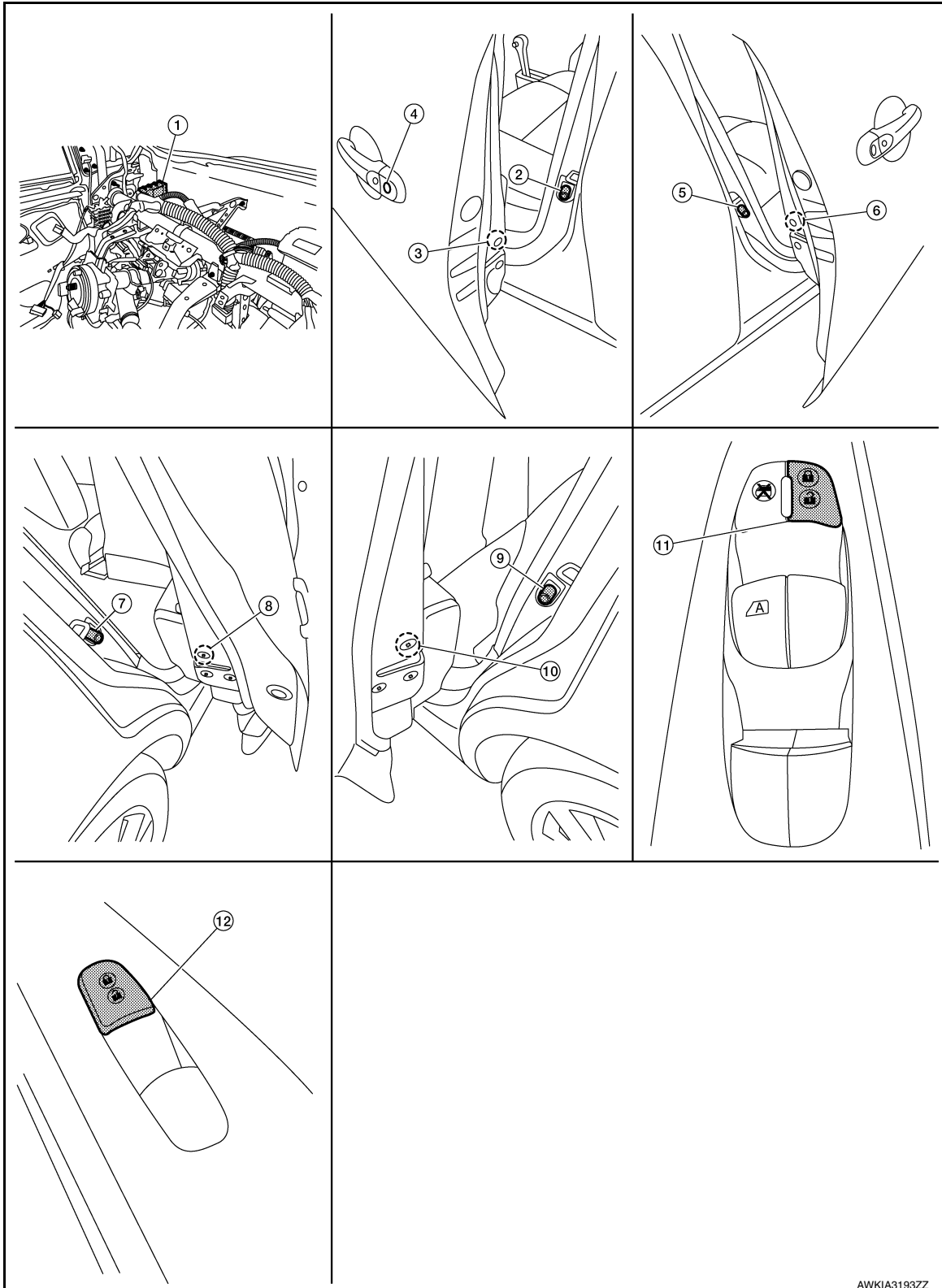
## SYSTEM DESCRIPTION

### COMPONENT PARTS

#### POWER DOOR LOCK SYSTEM

#### POWER DOOR LOCK SYSTEM : Component Parts Location

INFOID:000000012783055



AWKIA3193ZZ

# COMPONENT PARTS

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

- |  |   |   |   |
|--|---|---|---|
| 1. BCM (view with instrument panel re-moved) | 2. Front door switch LH                           | 3. Front door lock actuator LH                  | A |
| 4. Front door lock assembly LH               | 5. Front door switch RH                           | 6. Front door lock actuator RH                  | B |
| 7. Rear door switch RH                       | 8. Rear door lock actuator RH                     | 9. Rear door lock switch LH                     | B |
| 10. Rear door lock actuator LH               | 11. Main power window and door lock/unlock switch | 12. Power window and door lock/unlock switch RH | C |

## POWER DOOR LOCK SYSTEM : Component Description

INFOID:000000012783056

Item	Function	D
BCM	Controls the door lock system	D
Door switch	Inputs door open/close condition to BCM	E
Door lock and unlock switch	<ul style="list-style-type: none"> <li>• Detects if door lock and unlock switch is press/release</li> <li>• Integrated in the main power window and door lock/unlock switch and power window and door lock/unlock switch RH</li> </ul>	E
Door lock actuator	Output lock/unlock signal from BCM and locks/unlocks each door	F

## INTELLIGENT KEY SYSTEM

DLK

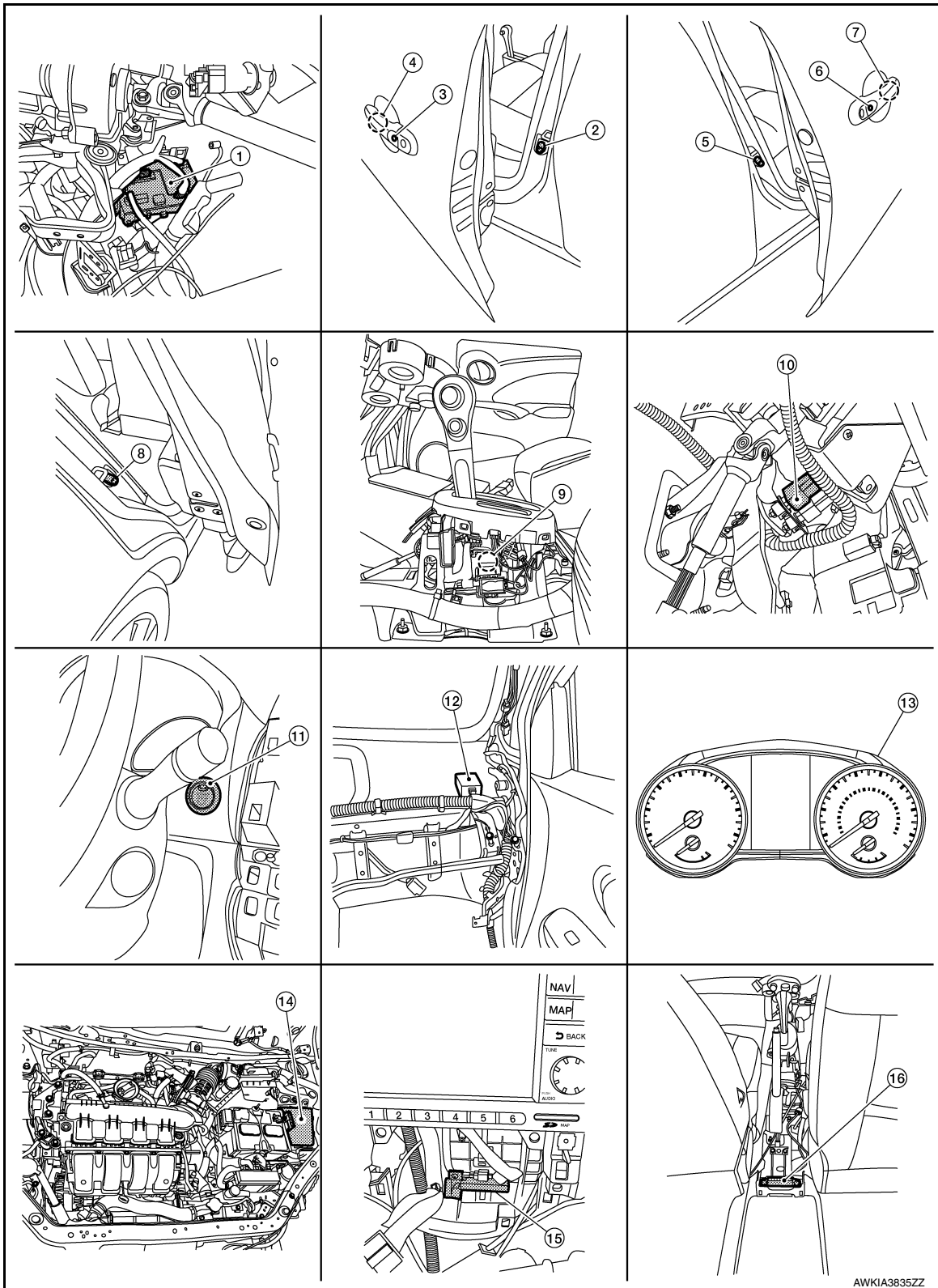
# COMPONENT PARTS

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

## INTELLIGENT KEY SYSTEM : Component Parts Location

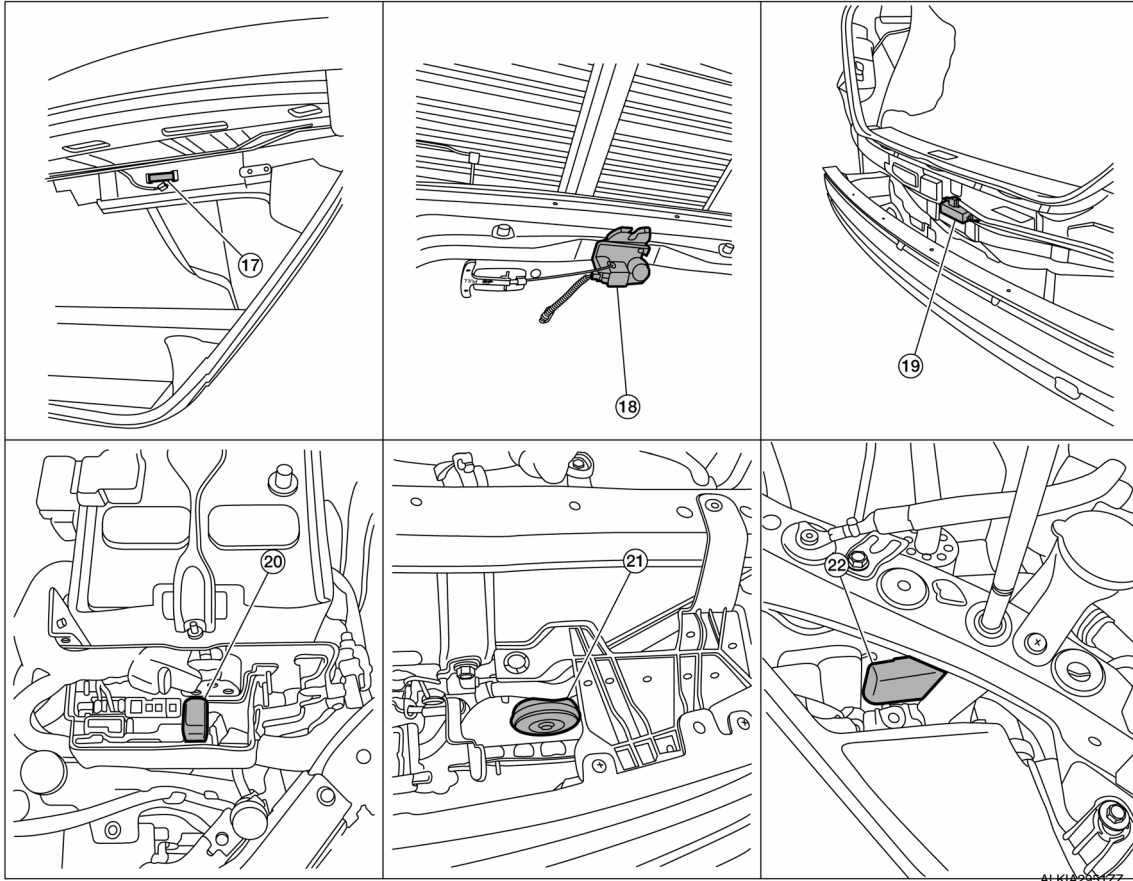
INFOID:000000012783057



# COMPONENT PARTS

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]



- |  |  |   |
|--|--|---|
| 1. BCM (view with instrument panel removed)                                  | 2. Front door switch LH                              | 3. Door request switch LH   |
| 4. Outside key antenna (driver side)   | 5. Front door switch RH                              | 6. Door request switch RH   |
| 7. Outside key antenna (passenger side)                                      | 8. Rear door switch RH (rear door switch LH similar) | 9. CVT shift selector (park position switch) (if equipped) (view with center console removed) |
| 10. Stop lamp switch   | 11. Push-button ignition switch                      | 12. Remote keyless entry receiver (view with instrument panel removed)                        |
| 13. Combination meter  | 14. IPDM E/R   | 15. Inside key antenna (instrument center)  |
| 16. Inside key antenna (console) (view with center console removed)          | 17. Inside key antenna (trunk room)                  | 18. Trunk lid opener assembly   |
| 19. Outside key antenna (rear bumper) (view with rear bumper fascia removed) | 20. Horn relay                                       | 21. Horn  |
| 22. Intelligent Key warning buzzer   |  |   |

## INTELLIGENT KEY SYSTEM : Component Description

INFOID:000000012783058

Item	Function
BCM	Controls the Intelligent Key system.
Trunk lid switch	Inputs trunk lid open/close condition to BCM.
Door lock actuator	Output lock/unlock signal from BCM and locks/unlocks each door.
Stop lamp switch	Inputs the brake pedal position condition to BCM.
Push-button ignition switch	Inputs the push-button ignition switch ON/OFF condition to BCM.
Door switch	Inputs door open/close condition to BCM.

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DLK

# COMPONENT PARTS

< SYSTEM DESCRIPTION >

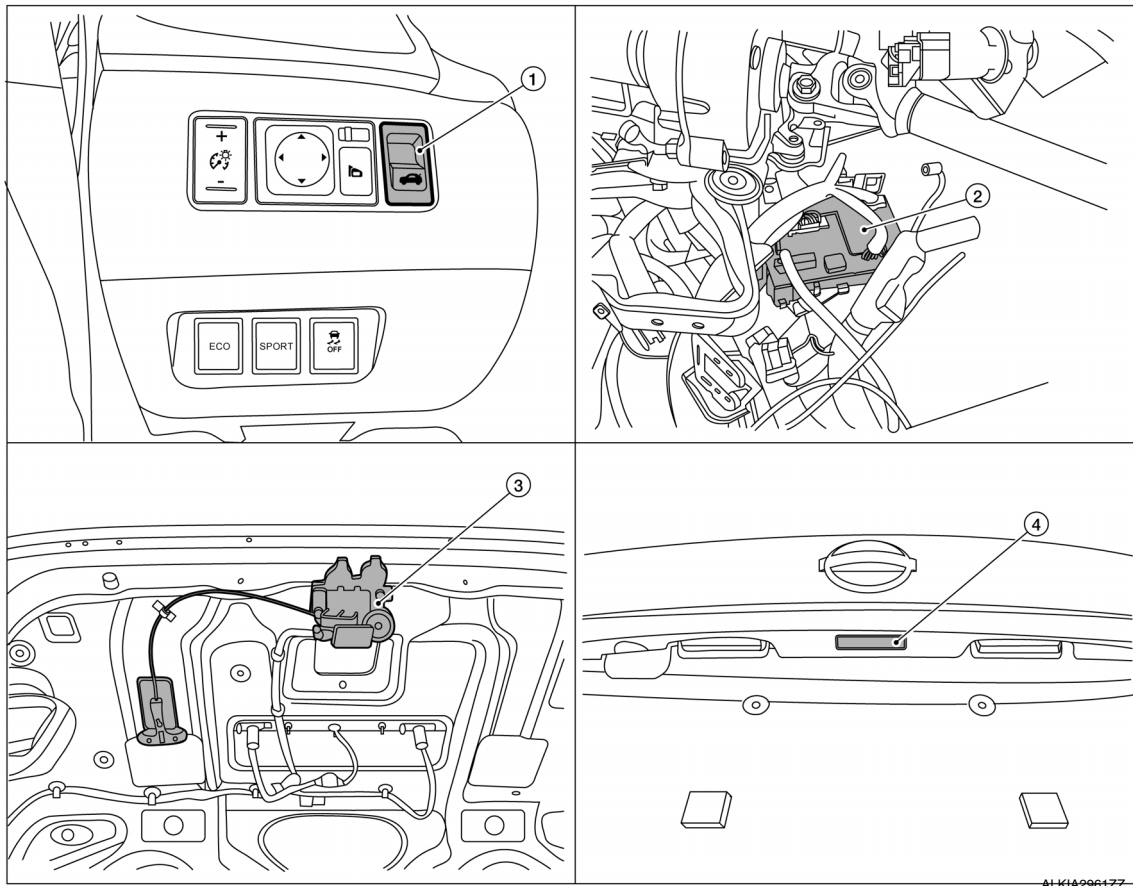
[WITH INTELLIGENT KEY SYSTEM]

Item	Function
Remote keyless entry receiver	Receives lock/unlock signal from the Intelligent Key, and then transmits to BCM.
Request switch	Inputs lock/unlock operation to BCM.
Intelligent Key	Transmits button operation to remote keyless entry receiver.
Outside key antenna	Detects if Intelligent Key is outside the vehicle.
Inside key antenna	Detects if Intelligent Key is inside the vehicle.
Combination meter	Display, buzzer (combination meter) and KEY warning lamp are installed to combination meter.

## TRUNK LID OPENER SYSTEM

### TRUNK LID OPENER SYSTEM : Component Parts Location

INFOID:000000012783059



1. Trunk lid opener switch
2. BCM (view with instrument panel moved)
3. Trunk lid opener assembly (trunk lid opener actuator and trunk lid switch)
4. Trunk opener request switch

### TRUNK LID OPENER SYSTEM : Component Description

INFOID:000000012783060

Item	Function
BCM	Controls the Intelligent Key system.
Trunk opener request switch	Inputs the trunk open request to the BCM.
Trunk lid opener actuator	Releases the mechanical latch to open the trunk lid.
Trunk lid opener switch	Inputs the trunk open request to the BCM.
Trunk lid switch	Inputs the trunk lid open/close condition to the BCM.



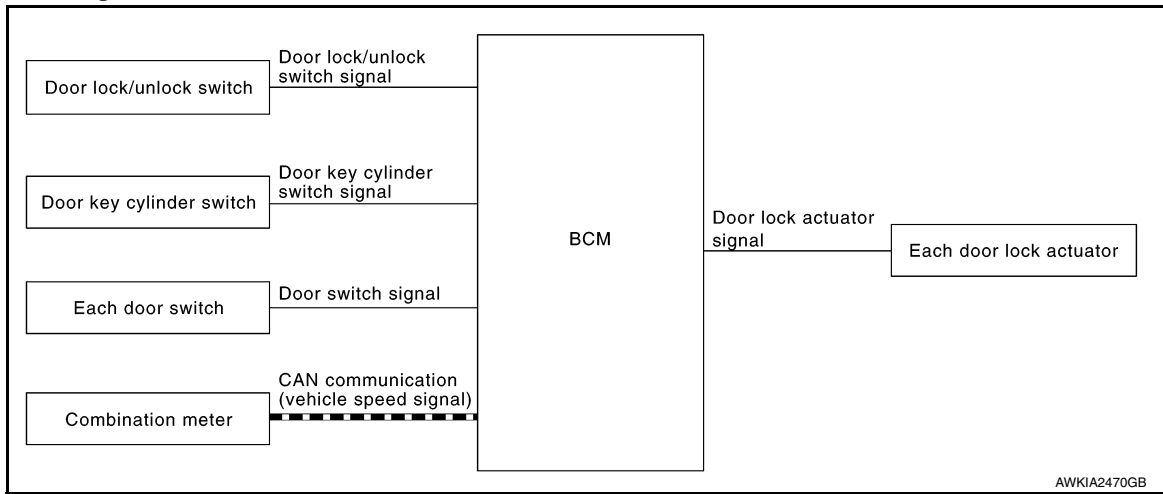
# SYSTEM (POWER DOOR LOCK SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

## SYSTEM (POWER DOOR LOCK SYSTEM)

### System Diagram



### System Description

INFOID:0000000012783062

Input	Single	Function	Actuator
Door lock/unlock switch	Door lock/unlock signal	Door lock function	• Each door lock actuator
Door key cylinder switch			
Each door switch	Door open/close signal	Key reminder function	
Combination meter	Warning buzzer signal		
	Vehicle speed signal	Automatic door lock/unlock function	

#### DOOR LOCK FUNCTION

- The door lock and unlock switch (driver side) is built into main power window and door lock/unlock switch.
- The door lock and unlock switch (passenger side) is built into power window and door lock/unlock switch RH.
- Interlocked with the locking operation of door lock and unlock switch, door lock actuators of all doors are locked.
- Interlocked with the unlocking operation of door lock and unlock switch, door lock actuators of all doors are unlocked.

#### Door Key Cylinder

- With the door key inserted in the door key cylinder on driver side, turning it to “LOCK”, will lock door lock actuator of all doors.
- With the door key inserted in the door key cylinder on driver side, turning it to “UNLOCK” once unlocks the driver side door lock actuator; turning it to “UNLOCK” again within 60 seconds after the first unlock operation unlocks all of the other doors. - (SELECTIVE UNLOCK OPERATION)

Selective unlock operation mode can be changed using “AUTO LOCK SET” mode in “WORK SUPPORT”. Refer to [DLK-36. "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)".](#)

#### AUTOMATIC DOOR LOCKS (LOCK OPERATION)

The automatic door locks function is the function that locks all doors linked with the vehicle speed or shift position.

#### Vehicle Speed Sensing Auto Door Lock\*1

All doors are locked when the vehicle speed reaches 24 km/h (15 MPH) or more. BCM outputs the lock signal to all door lock actuators when it detects that the ignition switch is turned ON, all doors are closed and the vehicle speed received from the combination meter via CAN communication becomes 24 km/h (15 MPH) or more.

## SYSTEM (POWER DOOR LOCK SYSTEM)

[WITH INTELLIGENT KEY SYSTEM]

### < SYSTEM DESCRIPTION >

If a door is opened and closed at any time during one ignition cycle (OFF → ON), even after initial auto door lock operation has taken place, the BCM will relock all doors when the vehicle speed reaches 24 km/h (15 MPH) or more again.

Setting change of Automatic Door Locks (LOCK) Function

The LOCK operation setting of the automatic door locks function can be changed.

#### **With CONSULT**

The ON/OFF switching of the automatic door locks (LOCK) function and the type selection of the automatic door locks (LOCK) function can be performed at the WORK SUPPORT setting of CONSULT. Refer to [DLK-36, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

#### **Without CONSULT**

The automatic door locks (LOCK) function can be switched ON/OFF by performing the following operation.

1. Close all doors (door switch OFF)
2. Push the ignition switch to the ON position
3. Press and hold the door lock and unlock switch for 5 seconds or more in the lock direction within 20 seconds after turning the ignition switch ON.
4. The switching is completed when the hazard lamp blinks.

OFF → ON : 2 blinks

ON → OFF : 1 blink

5. The ignition switch must be turned OFF and ON again between each setting change.

### AUTOMATIC DOOR LOCKS (UNLOCK OPERATION)

The automatic door locks (UNLOCK) function is the function that unlocks all doors linked with the key position or shift position.

#### IGN OFF Interlock Door Unlock<sup>\*1</sup>

All doors are unlocked when the power supply position is changed from ON to OFF.

BCM outputs the unlock signal to all door lock actuators when it detects that the power supply position is changed from ignition switch ON to OFF.

Setting change of Automatic Door Locks (UNLOCK) Function

The UNLOCK operation setting of the automatic door locks function can be changed.

#### **With CONSULT**

The ON/OFF switching of the automatic door locks (UNLOCK) function and the type selection of the automatic door locks (UNLOCK) function can be performed at the WORK SUPPORT setting of CONSULT. Refer to [DLK-36, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

#### **Without CONSULT**

The automatic door locks (UNLOCK) function can be switched ON/OFF by performing the following operation.

1. Close all doors (door switch OFF)
2. Place the ignition switch in the ON position
3. Press and hold the door lock and unlock switch for 5 seconds or more in the unlock direction within 20 seconds after turning the power supply position ON.
4. The switching is completed when the hazard lamp blinks.

OFF → ON : 2 blinks

ON → OFF : 1 blink

5. The ignition switch must be turned OFF and ON again between each setting change.

<sup>\*1</sup>: This function is set to ON before delivery.

# SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

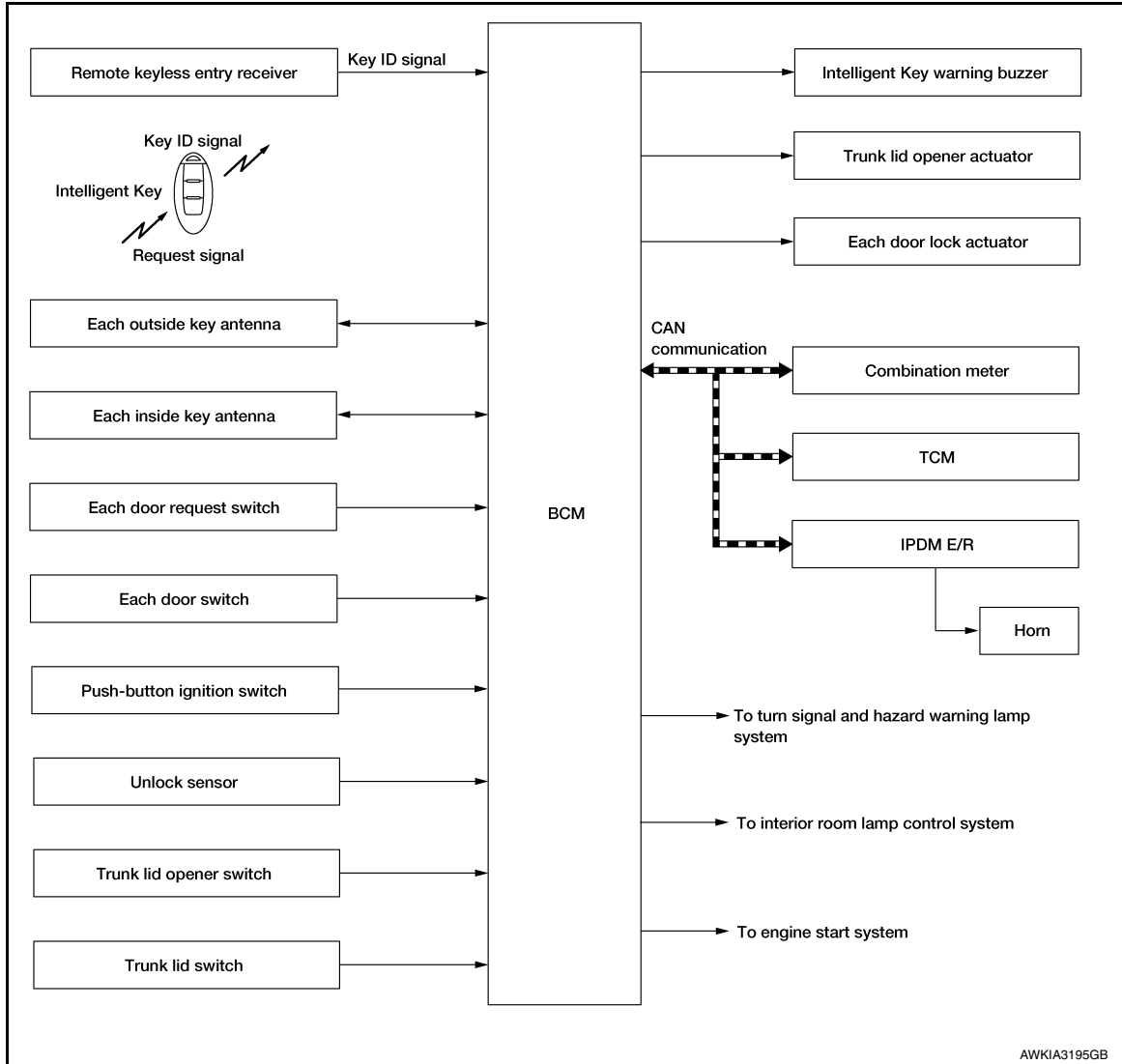
[WITH INTELLIGENT KEY SYSTEM]

## SYSTEM (INTELLIGENT KEY SYSTEM) INTELLIGENT KEY SYSTEM

### INTELLIGENT KEY SYSTEM : System Description

INFOID:000000012783063

#### SYSTEM DIAGRAM



#### SYSTEM DESCRIPTION

- The Intelligent Key system is a system that makes it possible to lock and unlock the door locks (door lock/unlock function) by carrying the Intelligent Key, which operates based on the results of electronic ID verification using two-way communication between the Intelligent Key and the vehicle (BCM).

**NOTE:**

- The driver should always carry the Intelligent Key
- The settings for each function can be changed with CONSULT.
- If an Intelligent Key is lost, a new Intelligent Key can be registered. A maximum of 4 Intelligent Keys can be registered.
- It is possible to perform a diagnosis on the system and register an Intelligent Key with CONSULT.
- For initialization and registration of Intelligent Key, refer to CONSULT Immobilizer mode and follow the on-screen instructions.

Function	Description	Refer
Door lock	Lock/unlock can be performed by pressing the request switch	<a href="#">DLK-24</a>
Trunk open	The trunk lid can be opened by carrying the Intelligent Key and pressing the trunk lid opener switch	<a href="#">DLK-26</a>

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DLK

# SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

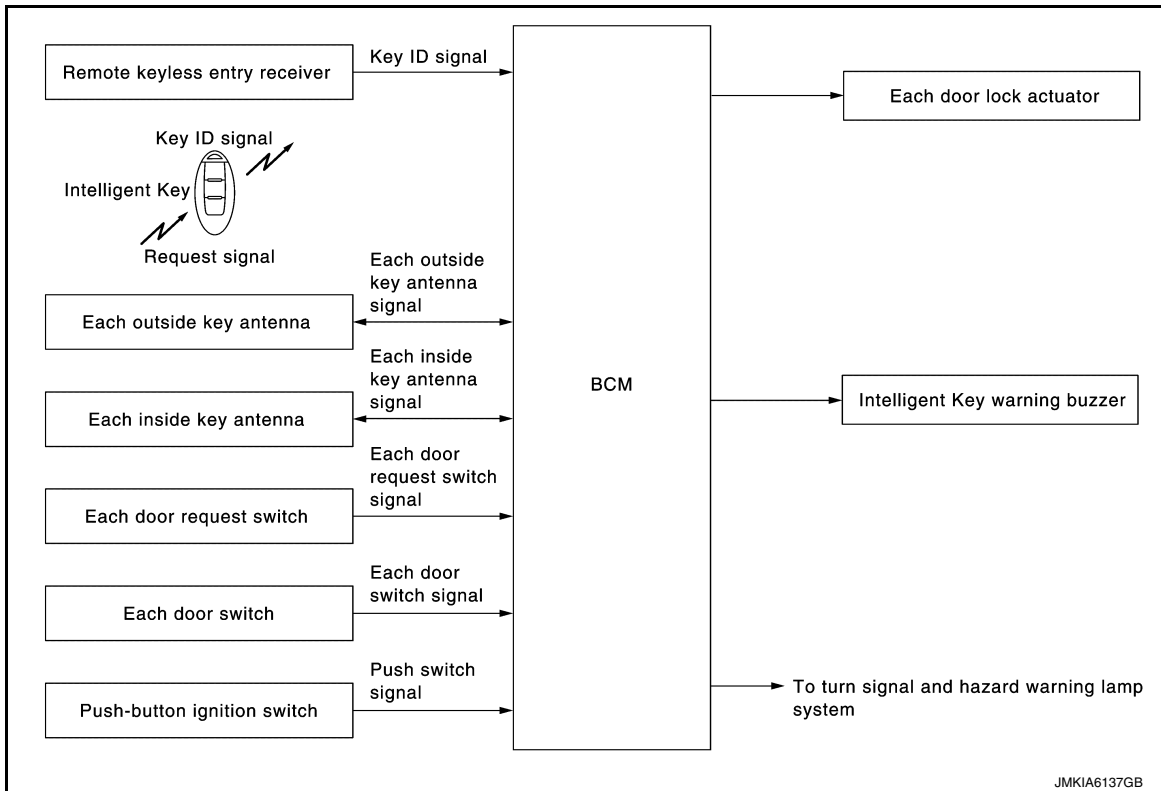
Function	Description	Refer
Remote keyless entry	Lock/unlock can be performed by pressing the remote controller button of the Intelligent Key	<a href="#">DLK-27</a>
Key reminder	The key reminder buzzer sounds a warning if the door is locked with the key left inside the vehicle	<a href="#">DLK-29</a>
Warning	If an action that does not meet the operating condition of the Intelligent Key system is taken, the buzzer sounds to inform the driver	<a href="#">DLK-30</a>
Engine start	The engine can be turned on while carrying the Intelligent Key	<a href="#">DLK-23</a>
Interior room lamp control	Interior room lamp is controlled according to door lock/unlock state	<a href="#">INL-8</a>

## DOOR LOCK FUNCTION

### DOOR LOCK FUNCTION : System Description

INFOID:000000012783064

#### SYSTEM DIAGRAM



#### DOOR REQUEST SWITCH OPERATION

When pressing the request switch, it is possible to lock and unlock the door by carrying the Intelligent Key.

#### OPERATION DESCRIPTION

- When the BCM detects that each door request switch is pressed, it starts the outside key antenna and inside key antenna corresponding to the pressed door request switch and transmits the request signal to the Intelligent Key. And then, check that the Intelligent Key is near the door.
- If the Intelligent Key is within the outside key antenna detection area, it receives the request signal and transmits the key ID signal to the BCM via remote keyless entry receiver.
- BCM receives the key ID signal and compares it with the registered key ID.
- BCM transmits door lock/unlock signal and operates each door lock actuator. At the same time, BCM blinks hazard warning lamp (lock: 2 times, unlock: 1 time) and sounds Intelligent Key buzzer (lock: 2 times, unlock: 1 time) as a reminder.

#### OPERATION CONDITION

If the following conditions are satisfied, door lock/unlock operation is performed if the door request switch is operated.

# SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

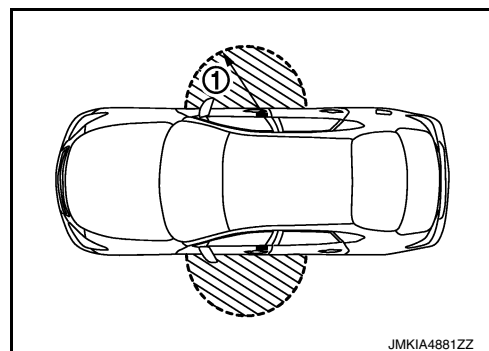
Each request switch operation	Operation condition
Lock	<ul style="list-style-type: none"> <li>• All doors are closed</li> <li>• Ignition switch is in the LOCK or OFF position</li> <li>• Panic alarm is not activated</li> <li>• Intelligent Key is outside the vehicle</li> <li>• Intelligent Key is within outside key antenna detection area</li> <li>• P position warning is not activated</li> </ul>
Unlock	<ul style="list-style-type: none"> <li>• All doors are closed</li> <li>• Ignition switch is in the LOCK or OFF position</li> <li>• Panic alarm is not activated</li> <li>• Intelligent Key is outside the vehicle</li> <li>• Intelligent Key is within outside key antenna detection area *</li> </ul>

\*: Even with a registered Intelligent Key remaining inside the vehicle, door locks can be unlocked from outside of the vehicle with a spare Intelligent Key as long as key IDs are different.

Door lock function can be changed using “LOCK/UNLOCK BY I-KEY” mode in “WORK SUPPORT”. Refer to [DLK-36, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

## OUTSIDE KEY ANTENNA DETECTION AREA

The outside key antenna detection area of door lock/unlock function is in the range of approximately 80 cm (31.50 in) surrounding the driver, passenger door handles (1). However, this operating range depends on the ambient conditions.



## HAZARD AND BUZZER REMINDER FUNCTION

For the operation check, BCM blinks hazard warning lamps (lock: 2 times, unlock: 1 time) and sounds Intelligent Key warning buzzer (lock: 2 times, unlock: 1 time) when door lock or unlock operates by operation of each door request switch.

### How to Change Hazard and Buzzer Reminder Mode

Refer to [DLK-36, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

## AUTO DOOR LOCK FUNCTION

After door is unlocked by door request switch operation and if 30 seconds or more passes without performing the following operation, all doors are automatically locked. However, operation check function does not activate.

Operating condition	<ul style="list-style-type: none"> <li>• Door switch is ON (door is open)</li> <li>• BCM receives lock signal</li> <li>• Push switch is pressed</li> </ul>
---------------------	--

Auto door lock mode can be changed by the “AUTO LOCK SET” mode in “WORK SUPPORT”. Refer to [DLK-36, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

## LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

# SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

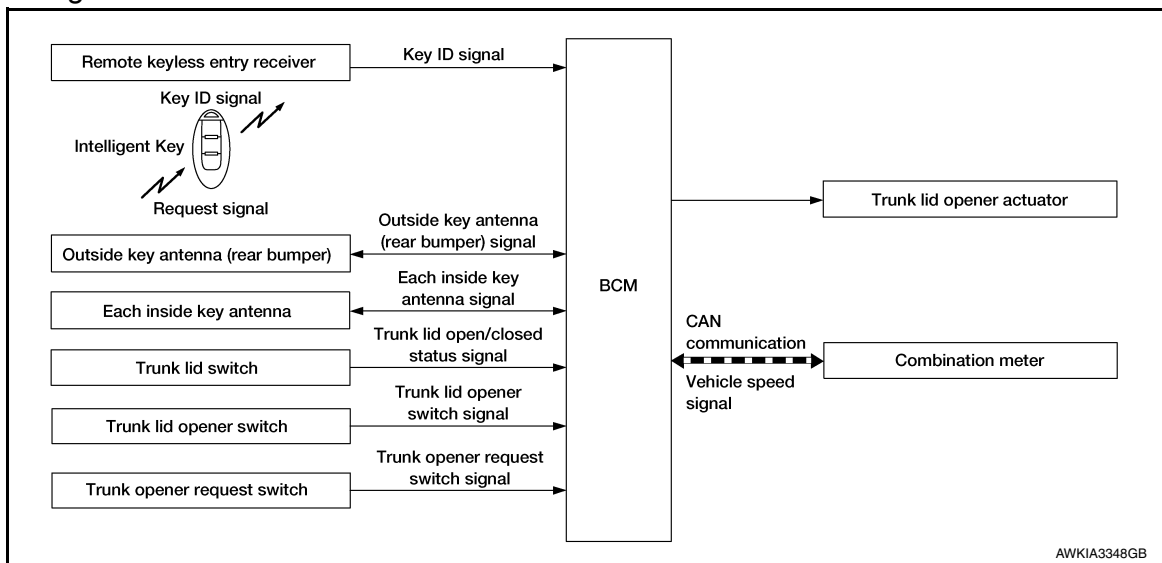
Door lock function	Intelligent Key	Remote keyless entry receiver	Door switch	Door request switch	Door lock actuator	Inside key antenna	Outside key antenna	Intelligent Key warning buzzer	CAN communication system	BCM	Hazard warning lamp	Push-button ignition switch	Combination meter
Door lock/unlock function	x	x	x	x	x	x	x			x			
Hazard and buzzer reminder function								x	x	x	x		x
Auto door lock function	x	x	x	x	x		x			x		x	

## TRUNK OPEN FUNCTION

### TRUNK OPEN FUNCTION : System Description

INFOID:000000012783065

#### System Diagram



### TRUNK LID OPENER OPERATION

- When the BCM detects that trunk opener request switch is pressed, it starts the outside key antenna (rear bumper) and inside key antenna and transmits the request signal to the Intelligent Key. Then, checks that the Intelligent Key is near the trunk lid.
- If the Intelligent Key is within the outside key antenna detection area, it receives the request signal and transmits the key ID signal to the BCM via remote keyless entry receiver.
- BCM receives the key ID signal and compares it with the registered key ID.

### OPERATION CONDITION

If the following conditions are satisfied, the trunk lid can be opened.

Trunk lid open function	Operation condition
Trunk open operation	<ul style="list-style-type: none"> <li>• Vehicle speed is less than 5 km/h (3 MPH)</li> <li>• Intelligent Key is within outside key antenna (rear bumper) detection area</li> <li>• Trunk lid is closed</li> </ul>

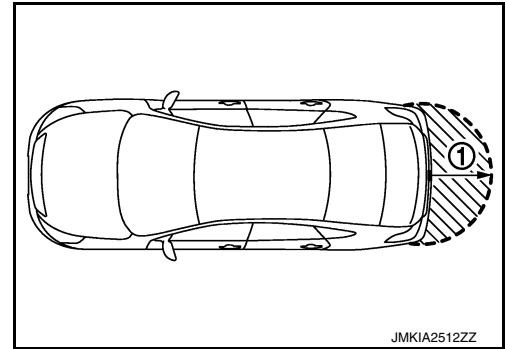
### OUTSIDE KEY ANTENNA DETECTION AREA

# SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

The outside key antenna detection area of trunk lid open function is in the range of approximately 80 cm (31.50 in) surrounding trunk opener request switch (1). However, this operating range depends on the ambient conditions.



## LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

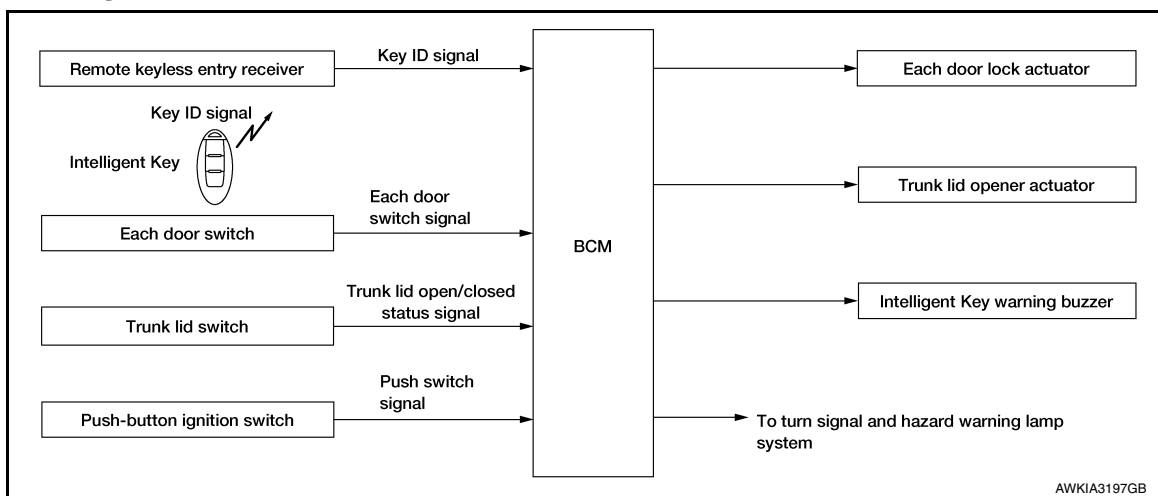
Trunk open function	Intelligent Key	Remote keyless entry receiver	Trunk lid opener actuator	Trunk lid switch	Inside key antenna	Outside key antenna (rear bumper)	CAN communication system	BCM	Trunk lid opener switch	Combination meter	Trunk opener request switch
Trunk lid open function	×	×	×	×	×	×	×	×	×	×	×

## REMOTE KEYLESS ENTRY FUNCTION

### REMOTE KEYLESS ENTRY FUNCTION : System Description

INFOID:0000000012783066

### SYSTEM DIAGRAM



### REMOTE KEYLESS ENTRY OPERATION

The Intelligent Key has the same functions as the remote control entry system. Therefore, it can be used in the same manner as the remote controller by operating the door lock/unlock button.

Remote keyless entry system controls operation of the following items.

- Auto door lock
- Door lock/unlock
- Hazard and buzzer reminder
- Panic alarm
- Trunk lid open

# SYSTEM (INTELLIGENT KEY SYSTEM)

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

## OPERATION AREA

To check that the Intelligent Key works normally, use within 1 m (3 ft) range of each door, however the operable range may differ according to surroundings.

## DOOR LOCK/UNLOCK FUNCTION

- When door lock/unlock button of the Intelligent Key is pressed, lock signal or unlock signal is transmitted from Intelligent Key to BCM via remote keyless entry receiver.
- BCM receives the signal and compares it with the registered key ID to the vehicle.
- BCM transmits door lock/unlock signal to each door lock actuator and operates each door lock actuator, when key ID matches. At the same time, BCM blinks hazard warning lamps (lock: 2 times, unlock: 1 time) and sounds Intelligent Key buzzer (lock: 1 time) as a reminder.

## OPERATION CONDITION

Remote controller operation	Operation condition
Lock	<ul style="list-style-type: none"><li>• All door are closed</li><li>• Ignition switch is in the LOCK or OFF position</li><li>• Panic alarm is not activated</li><li>• P position warning is not activated</li></ul>
Unlock	<ul style="list-style-type: none"><li>• Ignition switch is in the LOCK or OFF position</li><li>• Intelligent Key is outside the vehicle</li><li>• Panic alarm is not activated</li><li>• P position warning is not activated</li></ul>

## TRUNK OPEN FUNCTION

- When trunk button of the Intelligent Key is pressed, the trunk open signal is transmitted from the Intelligent Key to the BCM via remote keyless entry receiver.
- When BCM receives the trunk open request signal, it operates the trunk lid opener actuator and opens the trunk.

## OPERATION CONDITION

Remote controller operation	Operation condition
Trunk open	<ul style="list-style-type: none"><li>• Press and hold the trunk open button for 0.4 second or more*</li><li>• Ignition switch is except the ON position</li><li>• Vehicle speed is less than 5 km/h (3 MPH)</li></ul>

\*: Pattern of trunk open button can be selected using CONSULT. Refer to [DLK-36. "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)".](#)

## PANIC ALARM FUNCTION

When ignition switch is OFF, BCM transmits theft warning horn request signal to IPDM E/R. Then, IPDM E/R turns on and off horn intermittently.

The horn sounds intermittently.

The alarm automatically turns off.

- After 25 seconds
- When BCM receives any signal from Intelligent Key

### How to Change Panic Alarm Operation Mode

Refer to [DLK-36. "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)".](#)

## HAZARD AND BUZZER REMINDER FUNCTION

For the operation check, BCM blinks hazard warning lamps (lock: 2 times, unlock: 1 time) and sounds Intelligent Key warning buzzer (lock: 1 time) when door lock or unlock operates by each remote controller button operation of Intelligent Key.

### How to Change Hazard and Buzzer Reminder Mode

Refer to [DLK-36. "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)".](#)

## AUTO DOOR LOCK FUNCTION

After door is unlocked by Intelligent Key button operation and if 30 seconds or more passes without performing the following operation, all doors are automatically locked. However, operation check function does not activate.



# SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

- |                     |  |
|---------------------|--|
| Operating condition | <ul style="list-style-type: none"> <li>• Door switch is ON (door is open)</li> <li>• BCM receives lock signal</li> <li>• Push switch is pressed</li> </ul> |
|---------------------|--|

Auto door lock mode can be changed by the "AUTO LOCK SET" mode in "WORK SUPPORT". Refer to [DLK-36. "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

## LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

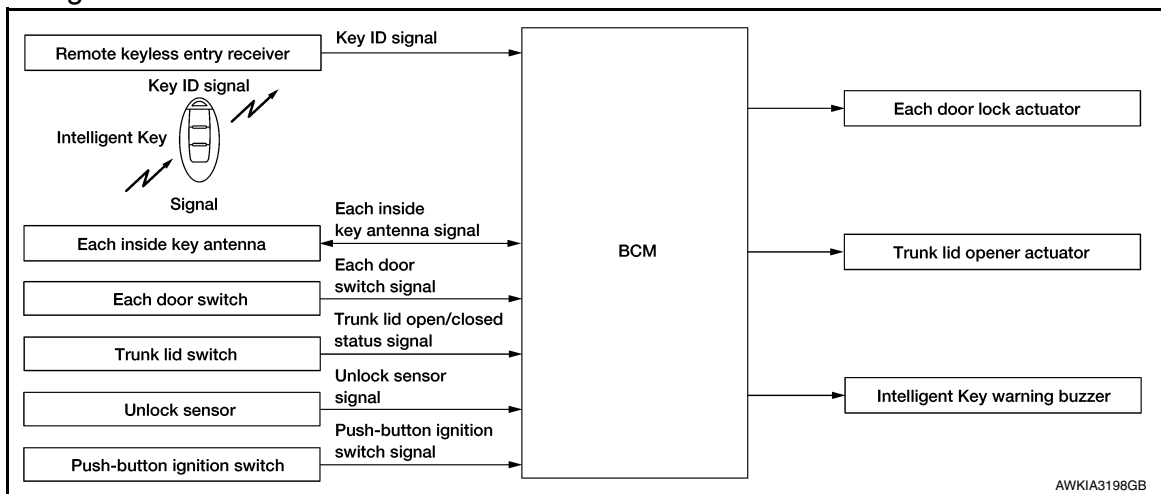
Remote keyless entry functions	Intelligent Key	Remote keyless entry receiver	Door switch	Door lock actuator	Push-button ignition switch	Intelligent Key warning buzzer	CAN communication system	BCM	Combination meter	Hazard warning lamp	Trunk lid opener actuator	Trunk lid switch	IPDM E/R	Horn
Door lock/unlock function by remote control button	×	×	×	×	×			×						
Trunk open function	×	×			×	×	×	×			×	×		
Hazard and buzzer reminder function	×	×				×	×	×	×	×				
Auto door lock function	×	×	×	×	×			×						
Panic alarm function	×						×	×					×	×

## KEY REMINDER FUNCTION

### KEY REMINDER FUNCTION : System Description

INFOID:000000012783067

### System Diagram



### BASIC OPERATION

Key reminder is the function that prevents the key from being left in the vehicle. Key reminder has the following 3 functions.

# SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Key reminder function	Operation condition	Operation
Driver side door closed*	Right after driver side door is closed under the following conditions <ul style="list-style-type: none"> <li>• Intelligent Key is inside the vehicle</li> <li>• Driver side door is opened</li> <li>• Driver side door is in unlock state</li> </ul>	All doors unlock
Door is open or closed	Right after all doors are closed under the following conditions <ul style="list-style-type: none"> <li>• Door lock/unlock switch or driver side door lock knob are operated</li> <li>• Intelligent Key is inside the vehicle</li> <li>• Any door is opened</li> <li>• All doors are locked.</li> </ul>	<ul style="list-style-type: none"> <li>• All doors unlock</li> <li>• Honk Intelligent Key warning buzzer</li> </ul>
Trunk is closed	Right after trunk is closed under the following conditions <ul style="list-style-type: none"> <li>• Intelligent Key is inside trunk room</li> <li>• All doors are closed</li> <li>• All doors are locked</li> </ul>	<ul style="list-style-type: none"> <li>• Trunk open</li> <li>• Honk Intelligent Key warning buzzer</li> </ul>

\*:When closing the door if something comes into contact with the door lock switch it might activate the door locks accidentally, but the unlock operation will override this.

**NOTE:**

The above function operates when the Intelligent Key is inside the vehicle. However, there may be times when the Intelligent Key cannot be detected, and this function does not operate when the Intelligent Key is on the instrument panel, rear parcel shelf, or in the glove box. Also, this system sometimes does not operate if the Intelligent Key is in the door pocket for the open door.

**WARNING FUNCTION**

**WARNING FUNCTION : System Description**

INFOID:000000012783068

**OPERATION DESCRIPTION**

The warning function are as per the following items and are given to the user as warning information and warnings using combinations of Intelligent Key warning buzzer, combination meter buzzer, KEY warning lamp, shift P warning lamp and engine start operation indicator lamp.

- Intelligent Key system malfunction
- OFF position warning
- P position warning
- ACC warning
- Take away warning
- Door lock operation warning
- Engine start information
- Intelligent Key low battery warning
- Key ID warning

**OPERATION CONDITION**

Operation condition of warning and information is as per the following table.

Warning/Information functions	Operation procedure
Intelligent Key system malfunction	A malfunction is detected on BCM and key warning lamp turns ON

# SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Warning/Information functions		Operation procedure
OFF position warning	For internal	When condition A, B or condition C is satisfied <ul style="list-style-type: none"> <li>• Condition A</li> <li>- Ignition switch: ACC position</li> <li>- Door switch (driver side): ON (Door is open)</li> <li>• Condition B</li> <li>- Turn ignition switch from ON to OFF while door is open</li> <li>• Condition C</li> <li>- Intelligent Key backside is contacted to push-button ignition switch while brake pedal is depressed and ignition switch is LOCK or OFF (When the Intelligent Key battery is discharged)</li> <li>- Door switch (driver side): ON (Door is open)</li> </ul>
	For external*	OFF position warning (For internal) is in active mode, driver side door has been closed. <b>NOTE:</b> OFF position (For external) active only when each of the sequence has occurred as below: P position warning → ACC warning → OFF position warning (For internal) → OFF position warning (For internal)
P position warning	For internal	<ul style="list-style-type: none"> <li>• Shift position: Other than P</li> <li>• Engine is stopped (Ignition switch is turned from ON to OFF)</li> </ul>
	For external	<ul style="list-style-type: none"> <li>• P position warning (For internal) operates</li> <li>• Door switch: ON to OFF (Door is open to close)</li> <li>• Intelligent Key cannot be detected inside the vehicle</li> </ul>
ACC warning		<ul style="list-style-type: none"> <li>• After P position warning operates, or when ignition switch is turned ON immediately after P position warning operates</li> <li>• Ignition switch: ACC</li> </ul>
Take away warning	Door status changes from open to close	<ul style="list-style-type: none"> <li>• Ignition switch: Other than LOCK and OFF</li> <li>• Door switch: ON to OFF (Door status changes from open to close)</li> <li>• Registered Intelligent Key is not detected inside the vehicle</li> </ul>
	Door status is open	<ul style="list-style-type: none"> <li>• Ignition switch: Other than LOCK and OFF</li> <li>• Door switch: ON (Door is open)</li> <li>• Registered Intelligent Key is not detected inside the vehicle during Key ID verification for 5 seconds</li> </ul>
	Push-button ignition switch operation	<ul style="list-style-type: none"> <li>• Ignition switch: Other than LOCK position</li> <li>• Push-button ignition switch is pressed</li> <li>• Registered Intelligent Key is not detected inside the vehicle</li> </ul>
Door lock operation warning		Door lock operation is requested while door lock operation condition of door request switch is not satisfied
Engine start information	Ignition switch is ON position	<ul style="list-style-type: none"> <li>• Ignition switch: ON position</li> <li>• Shift position: P</li> <li>• Engine is stopped</li> </ul>
	Ignition switch is other than ON position	<ul style="list-style-type: none"> <li>• Ignition switch: Other than ON</li> <li>• Shift position: P</li> <li>• Intelligent Key is in the passenger room after driver door is opened and closed</li> </ul>
	Ignition switch is ON position to OFF position	<ul style="list-style-type: none"> <li>• Ignition switch: ON position to OFF position</li> <li>• Shift position: P position</li> </ul> <b>NOTE:</b> Engine start information turns ON for several seconds and then turns OFF, when ignition switch is turned to the ON position from the OFF position. Engine start information does not turn ON until opening and closing of driver door is detected again.
Intelligent Key low battery warning		BCM detects that Intelligent Key is low battery, after ignition switch is turned ON
Key ID warning		<ul style="list-style-type: none"> <li>• Push-button ignition switch is pressed</li> <li>• Registered Intelligent Key is not detected inside the vehicle</li> </ul>

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\*: M/T models do not apply.

## WARNING METHOD

The following table shows the alarm or warning methods with chime.

# SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Warning/Information functions		"KEY" warning lamp	Shift P warning lamp	Warning chime		Engine start operation indicator lamp
				Combination meter buzzer	Intelligent Key warning buzzer	
Intelligent Key system malfunction		Indicate	—	—	—	—
OFF position warning	For internal	—	—	Activate	—	—
	For external	—	—	—	Activate	—
P position warning	For internal	Blink (yellow)	Indicate	Activate	—	—
	For external		—	—	Active	—
ACC warning		—	—	Activate	—	—
Take away warning	Door is open to close	Blink (yellow)	—	Activate	Activate	—
	Door is open		—	—	—	—
	Push-ignition switch operation		—	Activate	—	—
Door lock operation warning		—	—	—	Activate	—
Engine start information		—	—	—	—	Indicate
Intelligent Key low battery warning		Blink (green)	—	—	—	—
Key ID warning		Blink (yellow)	—	—	—	—

## LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

Function		Intelligent Key	Push-button ignition switch	Door switch	Door request switch	Inside key antenna	Outside key antenna	Intelligent Key warning buzzer	Combination meter buzzer	CAN communication system	BCM	Shift P warning lamp	Engine start operation indicator lamp	"KEY" warning lamp
Intelligent Key system malfunction										×	×			×
OFF position warning	For internal			×					×	×	×			
	For external			×				×			×			
P position warning			×						×	×	×	×		×
ACC warning			×						×	×	×			
Take away warning	Door is open or close	×		×		×		×	×	×	×			×
	Door is open	×		×		×				×	×			×
	Push-button ignition switch operation	×	×			×		×	×	×				×
Door lock operation warning		×		×	×	×	×	×			×			
Key ID warning			×			×				×	×			×
Engine start information		×	×			×				×	×		×	
Intelligent Key low battery warning		×				×				×	×			×

# SYSTEM (TRUNK LID OPENER SYSTEM)

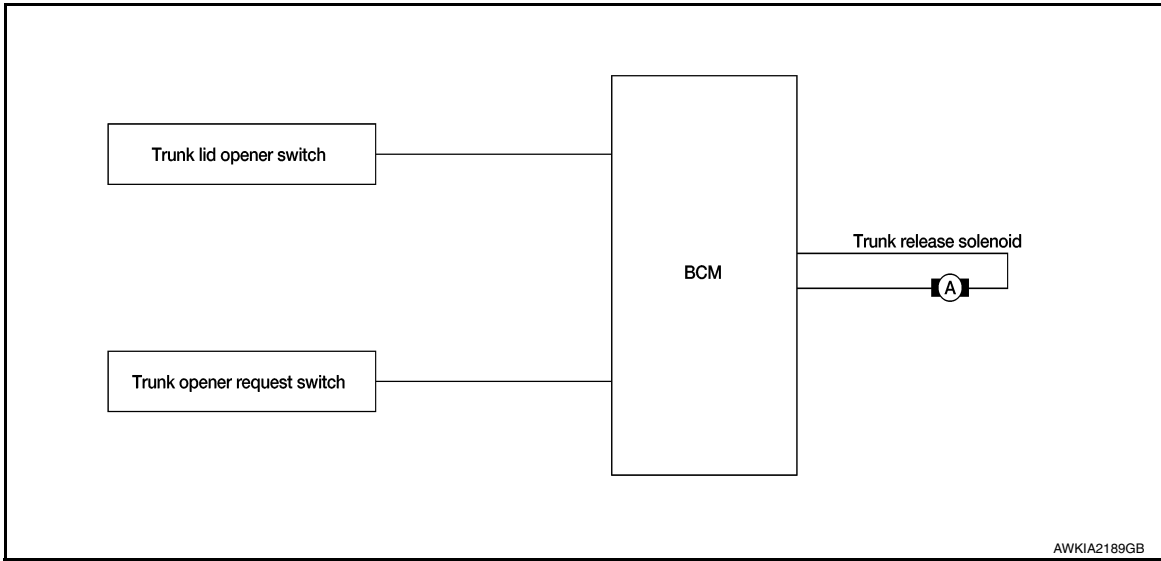
< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

## SYSTEM (TRUNK LID OPENER SYSTEM)

### System Diagram

INFOID:000000012783069



AWKIA2189GB

### System Description

INFOID:000000012783070

#### TRUNK LID OPENER OPERATION

When trunk lid opener switch is ON, BCM operates trunk lid opener actuator.

#### OPERATION CONDITION

If the following conditions are satisfied, trunk open operation is performed.

Trunk lid opener switch operation	Operation condition
Trunk lid open	<ul style="list-style-type: none"> <li>Trunk lid opener switch is ON</li> <li>Vehicle speed is less than 5 km/h (3 MPH)</li> </ul>

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# SYSTEM (INTEGRATED HOMELINK TRANSMITTER)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

## SYSTEM (INTEGRATED HOMELINK TRANSMITTER)

### System Description

INFOID:000000012783071

Item	Function
Integrated Homelink <sup>®</sup> transmitter	A maximum of 3 radio signals can be stored and transmitted to operate the garage door, etc.

# DIAGNOSIS SYSTEM (BCM)

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

## DIAGNOSIS SYSTEM (BCM)

### COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000013370564

### APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Direct Diagnostic Mode	Description
ECU Identification	The BCM part number is displayed.
Self Diagnostic Result	The BCM self diagnostic results are displayed.
Data Monitor	The BCM input/output data is displayed in real time.
Active Test	The BCM activates outputs to test components.
Work support	The settings for BCM functions can be changed.
Configuration	<ul style="list-style-type: none"> <li>The vehicle specification can be read and saved.</li> <li>The vehicle specification can be written when replacing BCM.</li> </ul>
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication is displayed.

### SYSTEM APPLICATION

BCM can perform the following functions.

System	Sub System	Direct Diagnostic Mode						
		ECU Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN DIAG SUPPORT MNTR
Door lock	DOOR LOCK			x	x	x		
Rear window defogger	REAR DEFOGGER			x	x			
Warning chime	BUZZER			x	x			
Interior room lamp timer	INT LAMP			x	x	x		
Exterior lamp	HEAD LAMP			x	x	x		
Wiper and washer	WIPER			x	x	x		
Turn signal and hazard warning lamps	FLASHER			x	x	x		
Air conditioner	AIR CONDITIONER			x				
Intelligent Key system	INTELLIGENT KEY		x	x	x	x		
Combination switch	COMB SW			x				
BCM	BCM	x	x			x	x	x
Immobilizer	IMMU		x	x		x		
Interior room lamp battery saver	BATTERY SAVER			x	x	x		
Trunk open	TRUNK			x				
Vehicle security system	THEFT ALM			x	x	x		
RAP system	RETAINED PWR			x				
Signal buffer system	SIGNAL BUFFER				x			
TPMS	AIR PRESSURE MONITOR		x	x	x	x		

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# DIAGNOSIS SYSTEM (BCM)

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

## DOOR LOCK

### DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)

INFOID:0000000113370565

#### DATA MONITOR

Monitor Item [Unit]	Description
REQ SW -DR [On/Off]	Indicates condition of door request switch LH.
REQ SW -AS [On/Off]	Indicates condition of door request switch RH.
REQ SW -BD/TR [On/Off]	Indicates condition of trunk open switch.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
DOOR SW-BK [On/Off]	Indicates condition of trunk switch.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.

#### ACTIVE TEST

Test Item	Description
DOOR LOCK	This test is able to check door lock operation [OTR ULK/AS UNLK/DR UNLK/ALL UNLK/ALL LOCK].

#### WORK SUPPORT

Support Item	Setting	Description
DOOR LOCK-UNLOCK SET	On*	Automatic door locks function ON.
	Off	Automatic door locks function OFF.
AUTOMATIC LOCK/UNLOCK SELECT	Lock/Unlock*	Automatic door locks function operates in lock and unlock.
	Lock Only	Automatic door locks function operates in lock only.
	Unlock Only	Automatic door locks function operates in unlock only.
	Off	Automatic door locks function OFF.
AUTOMATIC DOOR LOCK SELECT	P RANGE	Doors lock automatically when shifted out of Park (P).
	VH SPD*	Doors lock automatically when vehicle speed reaches 24 km/h (15 mph).
AUTOMATIC DOOR UNLOCK SELECT	MODE6*	Drivers door unlocks automatically when key is removed.
	MODE5	Drivers door unlocks automatically when shifted into Park (P).
	MODE4	Drivers door unlocks automatically when ignition is switched from ON to OFF.
	MODE3	Doors unlock automatically when key is removed.
	MODE2	Doors unlock automatically when shifted into Park (P).
	MODE1	Doors unlock automatically when ignition is switched from ON to OFF.

\*: Initial setting

## INTELLIGENT KEY

### INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)

INFOID:0000000113370566

#### SELF DIAGNOSTIC RESULT

Refer to [BCS-50. "DTC Index"](#).



# DIAGNOSIS SYSTEM (BCM)

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

## DATA MONITOR

Monitor Item [Unit]	Main	Description
REQ SW -DR [On/Off]	×	Indicates condition of door request switch LH.
REQ SW -AS [On/Off]	×	Indicates condition of door request switch RH.
REQ SW -BD/TR [On/Off]	×	Indicates condition of trunk open switch.
PUSH SW [On/Off]		Indicates condition of push-button ignition switch.
CLUCH SW [On/Off]	×	Indicates condition of clutch switch.
BRAKE SW 1 [On/Off]	×	Indicates condition of brake switch.
BRAKE SW 2 [On/Off]		Indicates condition of brake switch.
DETE/CANCL SW [On/Off]	×	Indicates condition of P (park) position.
SFT PN/N SW [On/Off]	×	Indicates condition of P (park) or N (neutral) position.
UNLK SEN -DR [On/Off]	×	Indicates condition of driver door unlock sensor.
PUSH SW -IPDM [On/Off]		Indicates condition of push-button ignition switch received from IPDM E/R on CAN communication line.
IGN RLY1 -F/B [On/Off]		Indicates condition of ignition relay 1 received from IPDM E/R on CAN communication line.
DETE SW -IPDM [On/Off]		Indicates condition of detent switch received from TCM on CAN communication line.
SFT PN -IPDM [On/Off]		Indicates condition of P (park) or N (neutral) position from TCM on CAN communication line.
SFT P -MET [On/Off]		Indicates condition of P (park) position from TCM on CAN communication line.
SFT N -MET [On/Off]		Indicates condition of N (neutral) position from IPDM E/R on CAN communication line.
ENGINE STATE [Stop/Start/Crank/Run]	×	Indicates condition of engine state from ECM on CAN communication line.
VEH SPEED 1 [mph/km/h]	×	Indicates condition of vehicle speed signal received from ABS on CAN communication line.
VEH SPEED 2 [mph/km/h]	×	Indicates condition of vehicle speed signal received from combination meter on CAN communication line.
DOOR STAT-DR [LOCK/READY/UNLK]	×	Indicates condition of driver side door status.
DOOR STAT-AS [LOCK/READY/UNLK]	×	Indicates condition of passenger side door status.
ID OK FLAG [Set/Reset]		Indicates condition of Intelligent Key ID.
PRMT ENG STRT [Set/Reset]		Indicates condition of engine start possibility.
RKE OPE COUN1 [0-19]	×	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.
RKE OPE COUN2 [0-19]	×	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.
TRNK/HAT MNTR [On/Off]		Indicates condition of trunk lid switch.
RKE-LOCK [On/Off]		Indicates condition of lock signal from Intelligent Key.
RKE-UNLOCK [On/Off]		Indicates condition of unlock signal from Intelligent Key.
RKE-TR/BD [On/Off]		Indicates condition of trunk open signal from Intelligent Key.
RKE-PANIC [On/Off]		Indicates condition of panic signal from Intelligent Key.
RKE-MODE CHG [On/Off]		Indicates condition of mode change signal from Intelligent Key.

## ACTIVE TEST

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# DIAGNOSIS SYSTEM (BCM)

[WITH INTELLIGENT KEY SYSTEM]

## < SYSTEM DESCRIPTION >

Test Item	Description
INSIDE BUZZER	This test is able to check combination meter warning chime operation [Take Out/Knob/Key/Off].
LCD	This test is able to check combination meter display information [Off/LK WN/OUTKEY/NO KY/BATT/INSRT/SFT P/ROTAT/ID NG/B&P I/B&P N].
BATTERY SAVER	This test is able to check battery saver operation [On/Off].
ENGINE SW ILLUMI	This test is able to check push-button ignition switch START indicator operation [On/Off].
PUSH SWITCH INDICATOR	This test is able to check push-button ignition switch indicator operation [On/Off].
TRUNK/BACK DOOR	This test is able to check trunk actuator operation [Open].
INT LAMP	This test is able to check interior room lamp operation [On/Off].
INDICATOR	This test is able to check combination meter warning lamp operation [KEY ON/KEY IND/Off].
FLASHER	This test is able to check hazard lamp operation [LH/RH/Off].
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation [On/Off].
HORN	This test is able to check horn operation [On].
P RANGE	This test is able to check CVT shift selector illumination operation [On/Off].

## WORK SUPPORT

Support Item	Setting	Description	
LOCK/UNLOCK BY I-KEY	On*	Door lock/unlock function from Intelligent Key ON.	
	Off	Door lock/unlock function from Intelligent Key OFF.	
TRUNK/GLASS HATCH OPEN	On*	Buzzer reminder function from trunk opener switch.	
	Off	No buzzer reminder function from trunk opener switch.	
ANTI KEY LOCK IN FUNCTI	On*	Anti lock out setting ON.	
	Off	Anti lock out setting OFF.	
ANS BACK I-KEY UNLOCK	Off	No buzzer reminder when doors are unlocked with request switch.	
	On*	Buzzer reminder when doors are unlocked with request switch.	
ANS BACK I-KEY LOCK	Horn Chirp	Horn chirp reminder when doors are locked with request switch.	
	Buzzer*	Buzzer reminder when doors are locked with request switch.	
	Off	No reminder when doors are locked with request switch.	
HORN WITH KEYLESS LOCK	Off	Horn chirp reminder when doors are locked with Intelligent Key.	
	On*	No horn chirp reminder when doors are locked with Intelligent Key.	
HAZARD ANSWER BACK	Lock/Unlock*	Hazard warning lamp activation when doors are locked/unlocked with Intelligent Key or request switch.	
	Unlock Only	Hazard warning lamp activation when doors are unlocked with Intelligent Key or request switch.	
	Lock Only	Hazard warning lamp activation when doors are locked with Intelligent Key or request switch.	
	Off	No hazard warning lamp activation when doors are locked/unlocked with Intelligent Key or request switch.	
INSIDE ANT DIAGNOSIS	—	This function allows inside key antenna self-diagnosis.	
CONFIRM KEY FOB ID	—	Intelligent Key ID code can be checked.	
SHORT CRANKING OUTPUT	Start	70 msec	Starter motor operation duration time setting.
		100 msec	
		200 msec	
	End	—	

# DIAGNOSIS SYSTEM (BCM)

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

Support Item	Setting		Description
PANIC ALARM SET	MODE 3	1.5 sec	Intelligent Key panic alarm button setting.
	MODE 2	OFF	
	MODE 1*	0.5 sec	
LO-BATT OF KEY FOB WARN	On*		Intelligent Key low battery warning ON.
	Off		Intelligent Key low battery warning OFF.
AUTO LOCK SET	MODE7	5 min	Auto door lock time setting.
	MODE6	4 min	
	MODE5	3 min	
	MODE4	2 min	
	MODE3*	1 min	
	MODE2	30 sec	
	MODE1	Off	
TRUNK OPEN DELAY	MODE 3	1.5 sec	Intelligent Key trunk open button setting.
	MODE 2	OFF	
	MODE 1*	0.5 sec	

\*: Initial Setting

## TRUNK

### TRUNK : CONSULT Function (BCM - TRUNK)

INFOID:0000000013370567

### DATA MONITOR

Monitor Item [Unit]	Description
PUSH SW [On/Off]	Indicates condition of push-button ignition switch.
UNLK SEN -DR [On/Off]	Indicates condition of driver door unlock sensor.
VEH SPEED 1 [km/h]	Indicates vehicle speed signal received from ABS on CAN communication line.
TR/BD OPEN SW [On/Off]	Indicates condition of trunk open switch.
TRNK/HAT MNTR [On/Off]	Indicates condition of trunk lid switch.
RKE-TR/BD [On/Off]	Indicates condition of trunk open signal from Intelligent Key.

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# ECU DIAGNOSIS INFORMATION

## BCM

### List of ECU Reference

INFOID:000000012783076

ECU	Reference
BCM	<a href="#">BCS-30. "Reference Value"</a>
	<a href="#">BCS-48. "Fail-safe"</a>
	<a href="#">BCS-49. "DTC Inspection Priority Chart"</a>
	<a href="#">BCS-50. "DTC Index"</a>

# POWER DOOR LOCK SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >

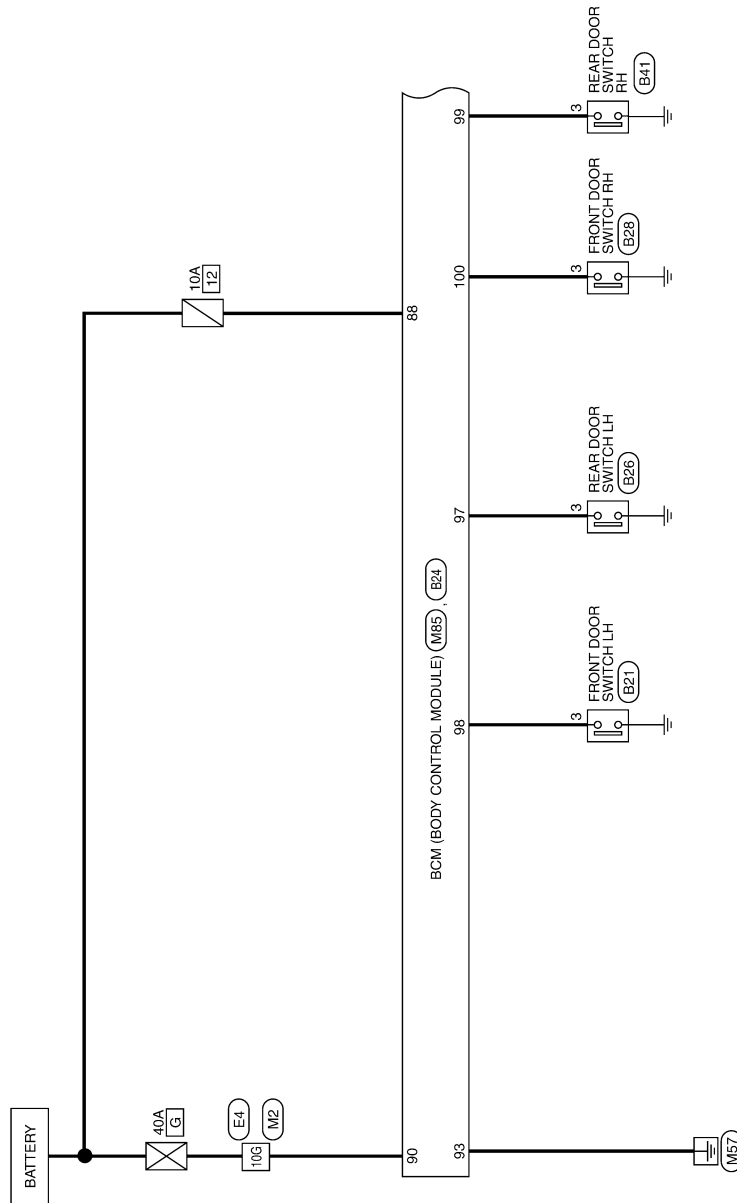
## WIRING DIAGRAM

### POWER DOOR LOCK SYSTEM

Wiring Diagram

INFOID:000000012783077

POWER DOOR LOCK SYSTEM - WITH INTELLIGENT KEY SYSTEM



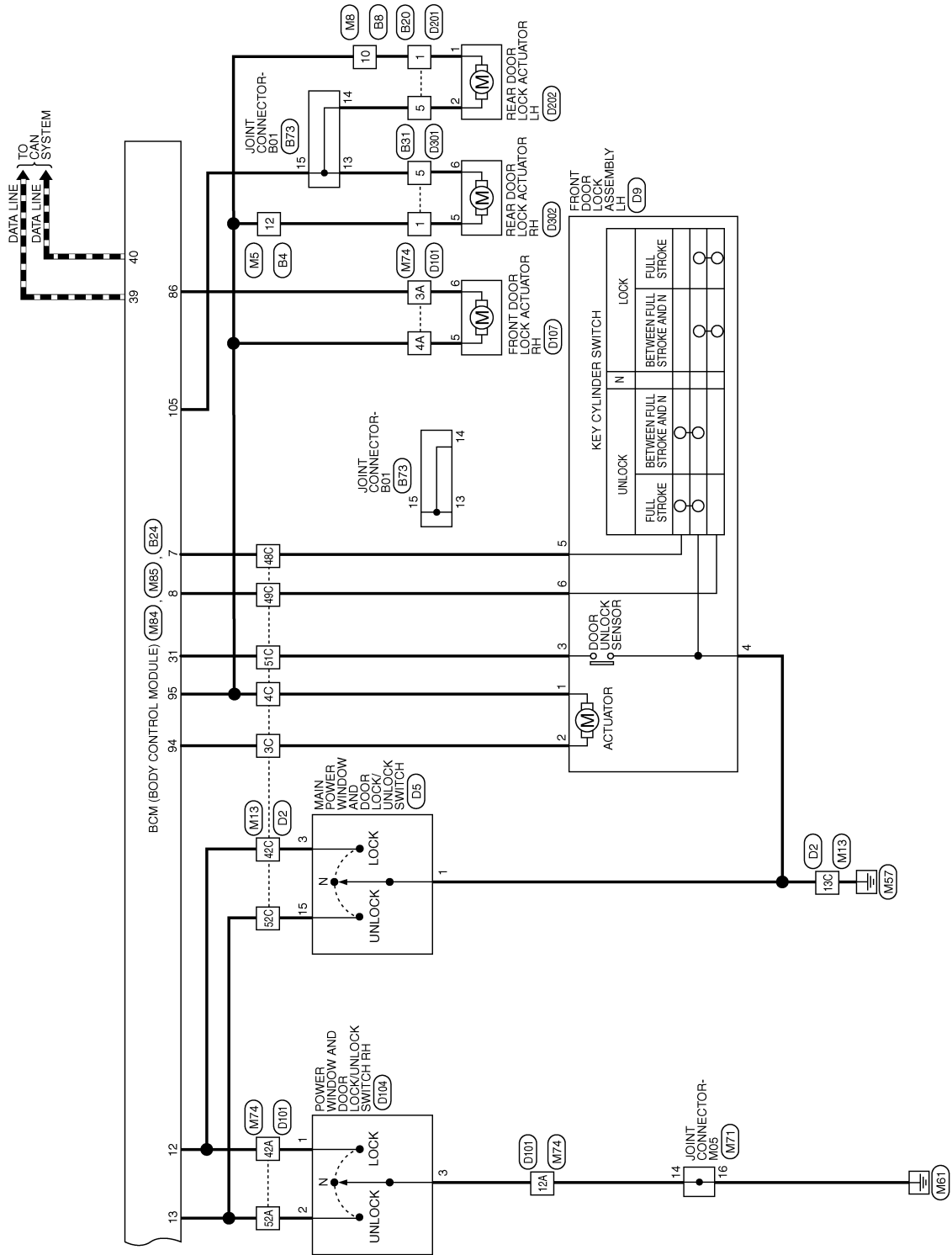
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# POWER DOOR LOCK SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >



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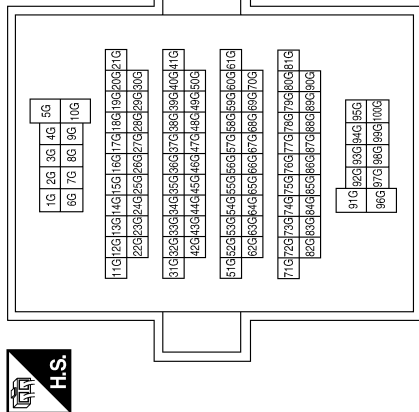
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[WITH INTELLIGENT KEY SYSTEM]

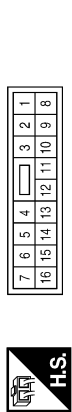
< WIRING DIAGRAM >

## POWER DOOR LOCK SYSTEM CONNECTORS - WITH INTELLIGENT KEY SYSTEM

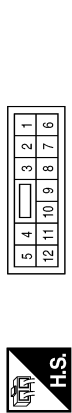
Connector No.	M2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	M8
Connector Name	WIRE TO WIRE
Connector Color	WHITE

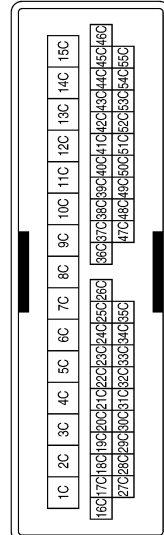


Terminal No.	Color of Wire	Signal Name
12	O	-

Terminal No.	Color of Wire	Signal Name
10	O	-

Terminal No.	Color of Wire	Signal Name
10G	Y	-

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3C	SB	-
4C	O	-
13C	B	-
42C	GR	-
48C	L	-
49C	V	-
51C	R	-
52C	BR	-

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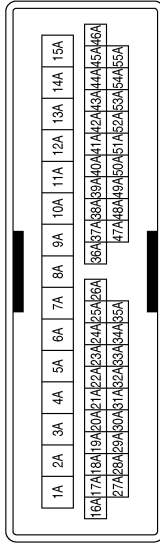
# POWER DOOR LOCK SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

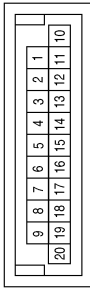
< WIRING DIAGRAM >

Terminal No.	Color of Wire	Signal Name
3A	SB	-
4A	O	-
12A	B	-
42A	GR	-
52A	BR	-

Connector No.	M74
Connector Name	WIRE TO WIRE
Connector Color	WHITE

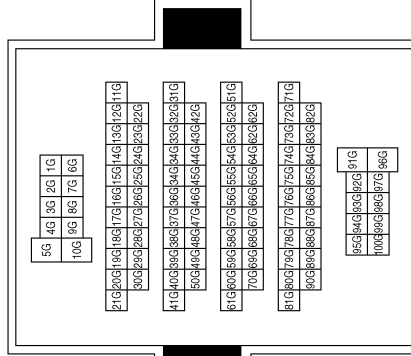


Connector No.	M71
Connector Name	JOINT CONNECTOR-M05
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
14	B	-
16	B	-

Connector No.	E4
Connector Name	WIRE TO WIRE
Connector Color	WHITE



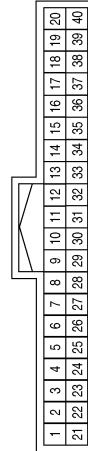
Terminal No.	Color of Wire	Signal Name
10G	G	-

Connector No.	M85
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
86	SB	DOOR UNLOCK OUTPUT (AS)
88	BG	BATTERY (FUSE)
90	Y	BATTERY (F/L)
93	B	GND (POWER)
94	SB	DOOR UNLOCK COMMON (DR)
95	O	DOOR LOCK OUTPUT (ALL)

Connector No.	M84
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
7	L	KEY CYLINDER UNLOCK SW
8	V	KEY CYLINDER LOCK SW
12	GR	CENTRAL DOOR LOCK SW
13	BR	CENTRAL DOOR UNLOCK SW
31	R	DOOR LOCK STATUS SW (DR)
39	L	CAN-H
40	P	CAN-L

ABK1A/265GB

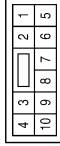


# POWER DOOR LOCK SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

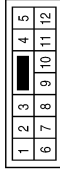
< WIRING DIAGRAM >

Connector No.	B20
Connector Name	WIRE TO WIRE
Connector Color	WHITE



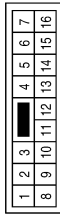
Terminal No.	Color of Wire	Signal Name
1	V	-
5	Y	-

Connector No.	B8
Connector Name	WIRE TO WIRE
Connector Color	WHITE



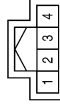
Terminal No.	Color of Wire	Signal Name
10	V	-

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
12	SB	-

Connector No.	B26
Connector Name	REAR DOOR SWITCH LH
Connector Color	WHITE



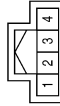
Terminal No.	Color of Wire	Signal Name
3	GR	-

Connector No.	B24
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
97	GR	DOOR SW (RL)
98	Y	DOOR SW (DR)
99	P	DOOR SW (RR)
100	R	DOOR SW (AS)
105	G	DOOR UNLOCK OUTPUT (RR,RL)

Connector No.	B21
Connector Name	FRONT DOOR SWITCH LH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	Y	-

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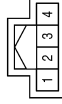
DLK

# POWER DOOR LOCK SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

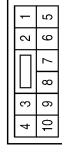
< WIRING DIAGRAM >

Connector No.	B41
Connector Name	REAR DOOR SWITCH RH
Connector Color	WHITE



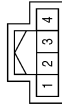
Terminal No.	Color of Wire	Signal Name
3	P	-

Connector No.	B31
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	SB	-
5	P	-

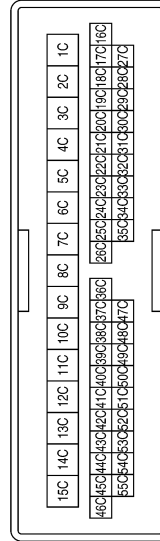
Connector No.	B28
Connector Name	FRONT DOOR SWITCH RH
Connector Color	WHITE



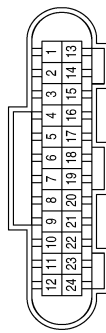
Terminal No.	Color of Wire	Signal Name
3	R	-

Terminal No.	Color of Wire	Signal Name
3C	L	-
4C	BR	-
13C	B	-
42C	L	-
48C	Y	-
49C	R	-
51C	W	-
52C	BR	-

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	B73
Connector Name	JOINT CONNECTOR-B01
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
13	P	-
14	Y	-
15	G	-

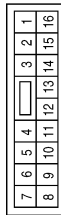
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# POWER DOOR LOCK SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

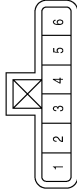
< WIRING DIAGRAM >

Connector No.	D5
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH
Connector Color	WHITE



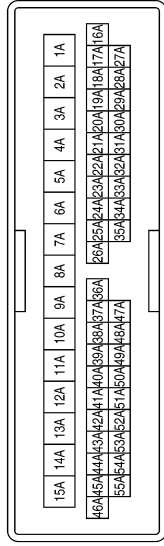
Terminal No.	Color of Wire	Signal Name
1	B	GND
3	L	LOCK SW
15	BR	UNLOCK SW

Connector No.	D9
Connector Name	FRONT DOOR LOCK ASSEMBLY LH
Connector Color	GRAY



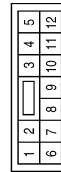
Terminal No.	Color of Wire	Signal Name
1	BR	-
2	L	-
3	W	-
4	B	-
5	Y	-
6	R	-

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Color	WHITE



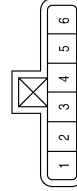
Terminal No.	Color of Wire	Signal Name
3A	Y	-
4A	V	-
12A	B	-
42A	Y	-
52A	BR	-

Connector No.	D104
Connector Name	POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH
Connector Color	WHITE



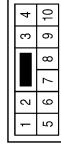
Terminal No.	Color of Wire	Signal Name
1	Y	-
2	BR	-
3	B	-

Connector No.	D107
Connector Name	FRONT DOOR LOCK ACTUATOR RH
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
5	V	-
6	Y	-

Connector No.	D201
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	V	-
5	G	-

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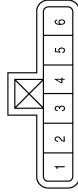
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# POWER DOOR LOCK SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

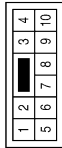
< WIRING DIAGRAM >

Connector No.	D302
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Color	GRAY



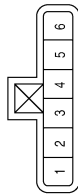
Terminal No.	Color of Wire	Signal Name
5	V	-
6	G	-

Connector No.	D301
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	V	-
5	G	-

Connector No.	D202
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	V	-
2	G	-

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# INTELLIGENT KEY SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >

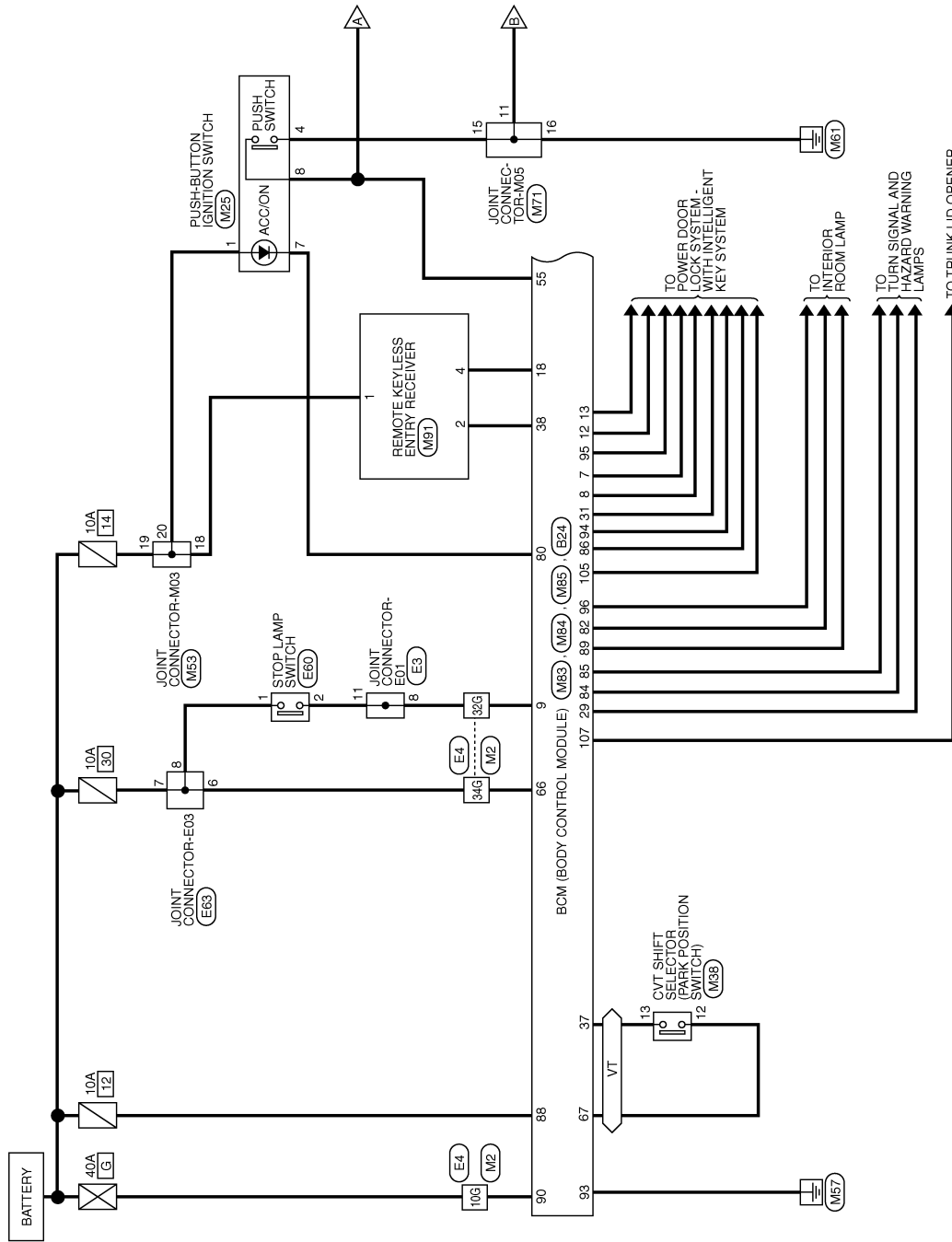
## INTELLIGENT KEY SYSTEM

### Wiring Diagram

INFOID:000000012783078

VT: WITH CVT

### INTELLIGENT KEY SYSTEM



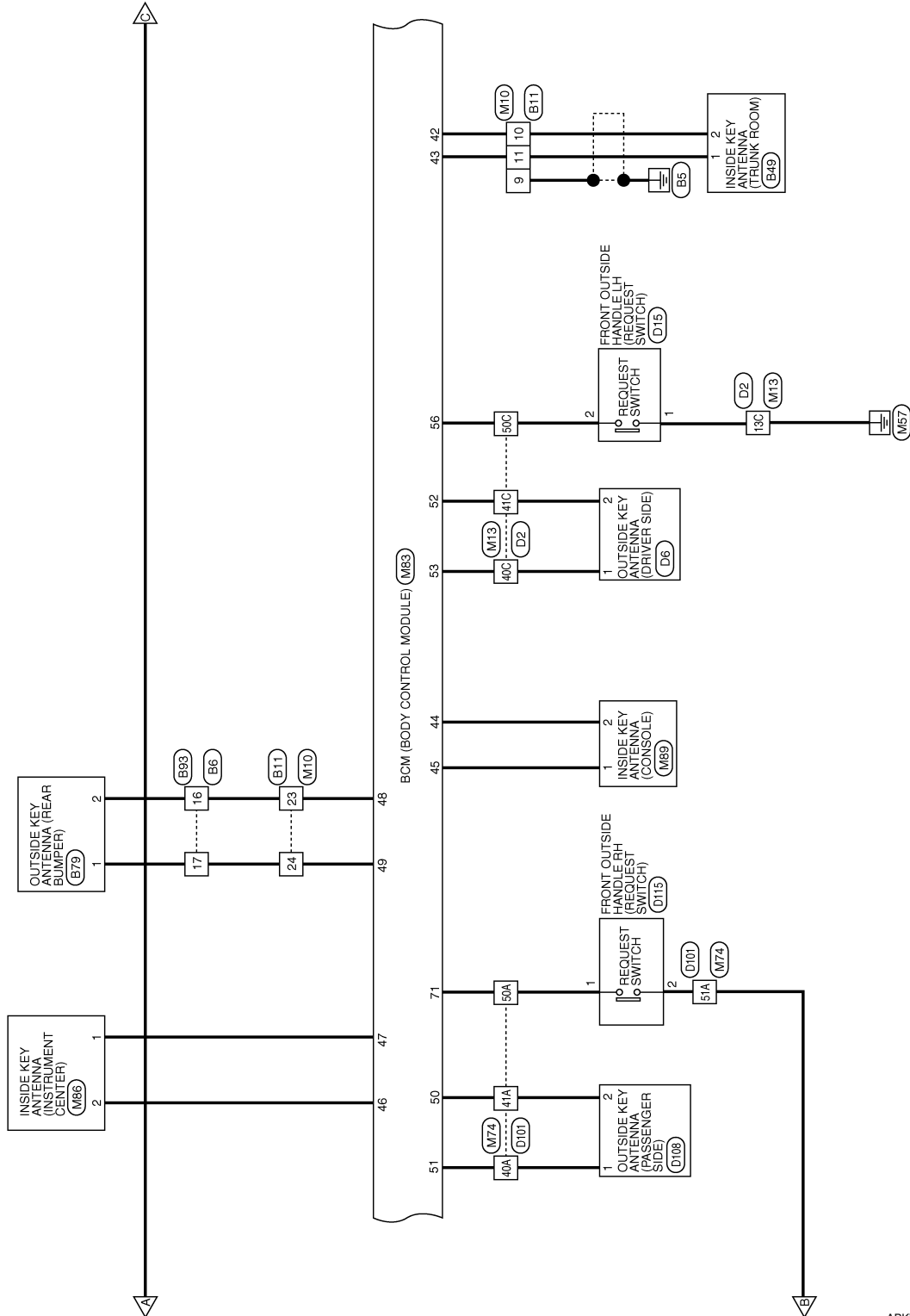
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# INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

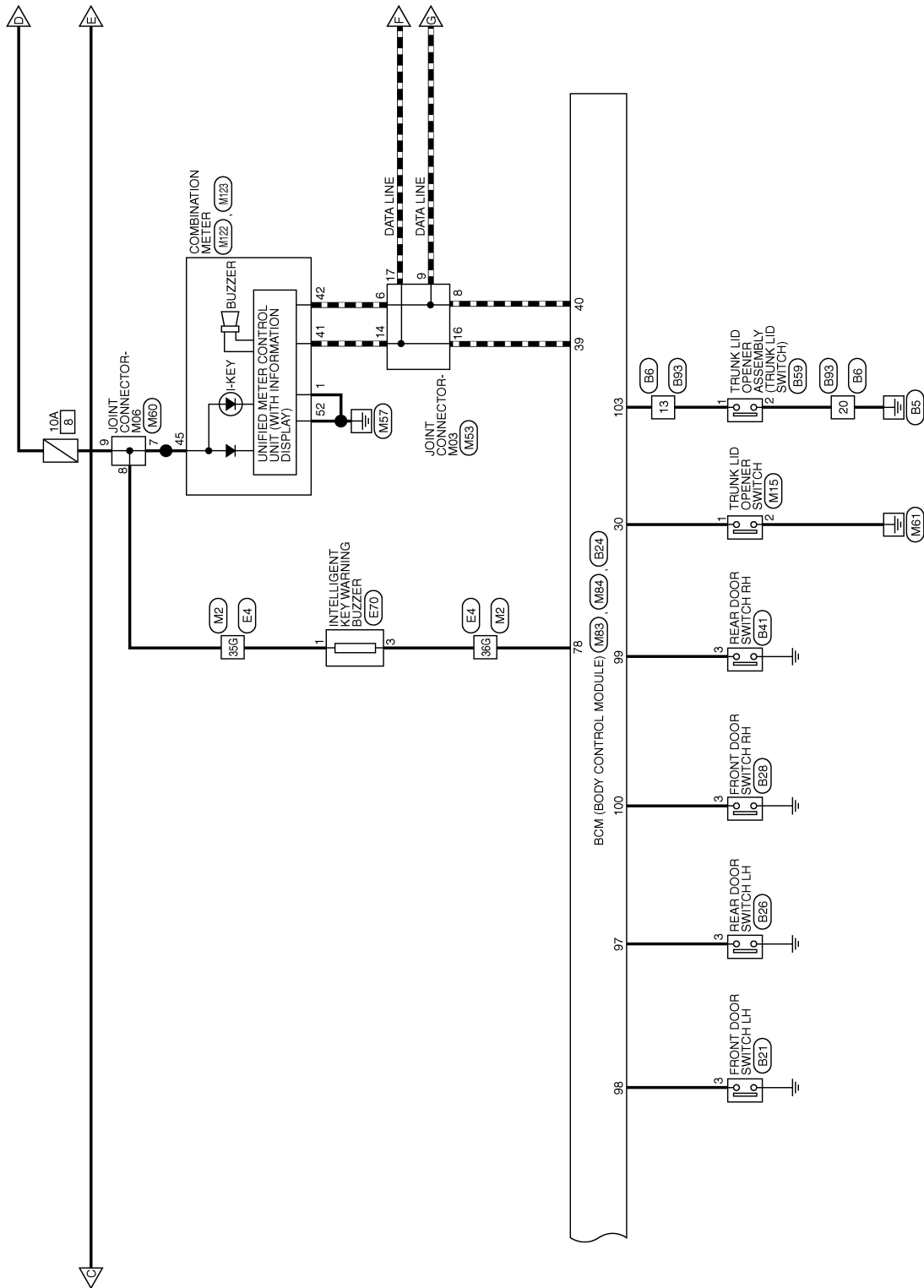


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# INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]



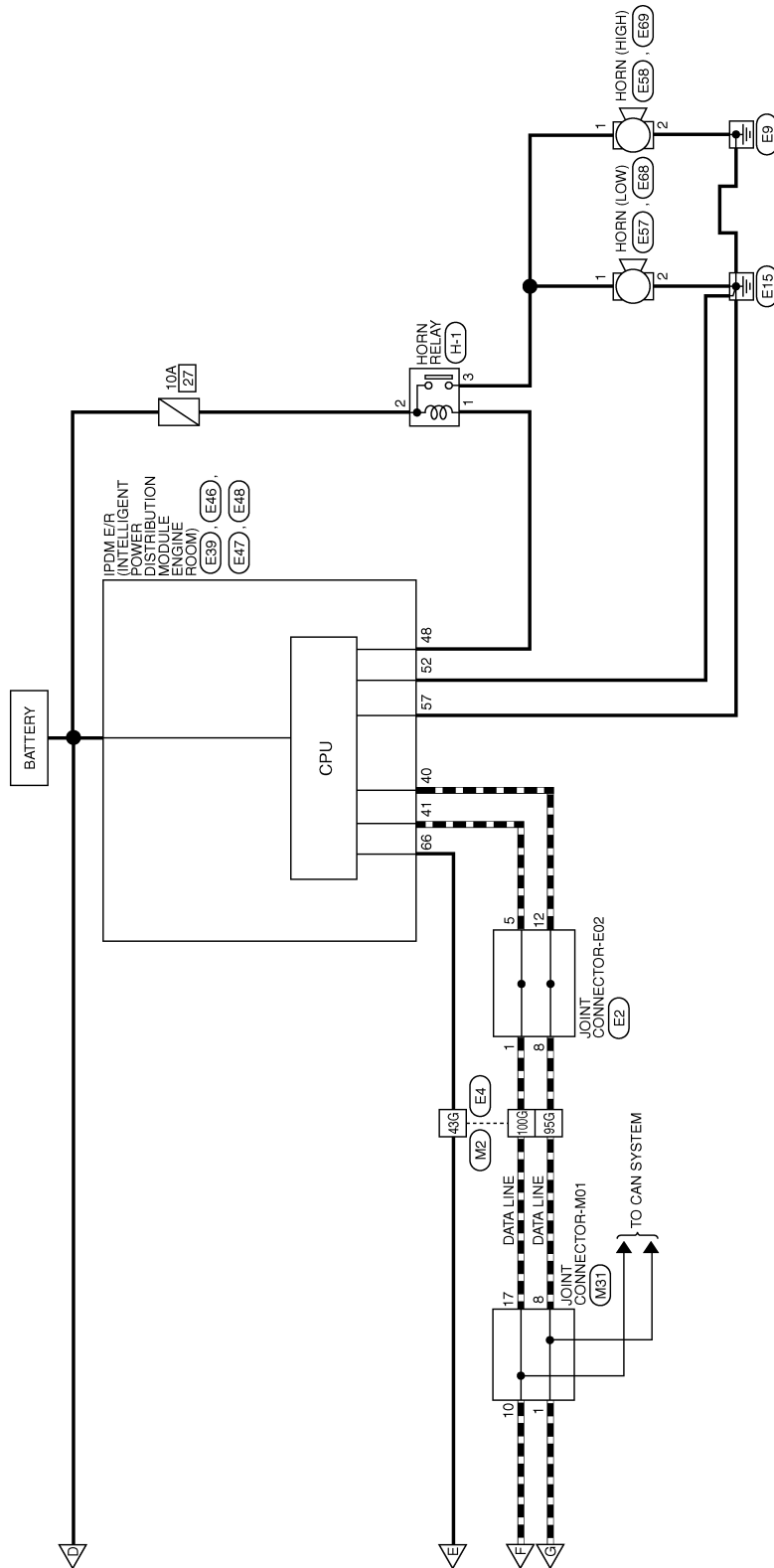
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# INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]



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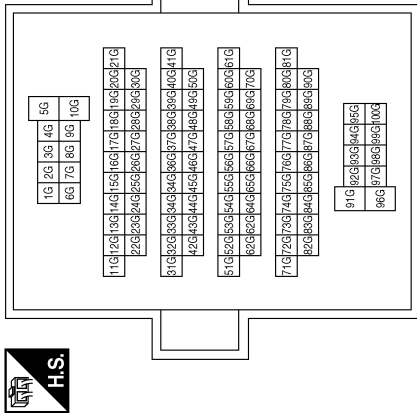
# INTELLIGENT KEY SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >

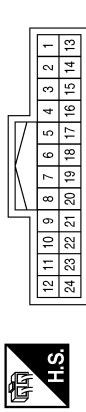
## INTELLIGENT KEY SYSTEM CONNECTORS

Connector No.	M2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



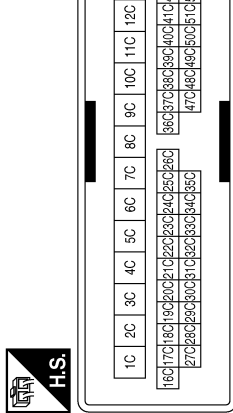
Terminal No.	Color of Wire	Signal Name
10G	Y	-
32G	R	-
34G	V	-
35G	BR	-
36G	W	-
43G	LG	-
95G	P	-
100G	L	-

Connector No.	M10
Connector Name	WIRE TO WIRE
Connector Color	WHITE



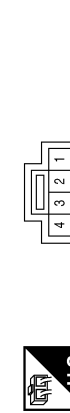
Terminal No.	Color of Wire	Signal Name
10	BR	-
11	Y	-
23	R	-
24	W	-

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
13C	B	-
40C	P	-
41C	LG	-
50C	G	-

Connector No.	M15
Connector Name	TRUNK LID OPENER SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	L	-
2	B	-

Connector No.	M25
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	SB	-
4	B	-
7	V	-
8	LG	-

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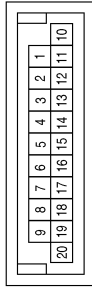
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# INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

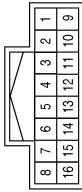
[WITH INTELLIGENT KEY SYSTEM]

Connector No.	M53
Connector Name	JOINT CONNECTOR-M03
Connector Color	BLUE



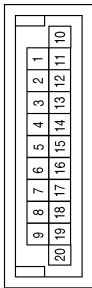
Terminal No.	Color of Wire	Signal Name
6	P	-
8	P	-
9	P	-
14	L	-
16	L	-
17	L	-
18	SB	-
19	SB	-
20	SB	-

Connector No.	M38
Connector Name	CVT SHIFT SELECTOR
Connector Color	WHITE



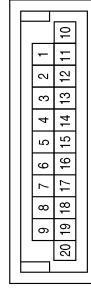
Terminal No.	Color of Wire	Signal Name
12	SB	-
13	P	-

Connector No.	M31
Connector Name	JOINT CONNECTOR-M01
Connector Color	BLUE



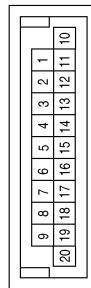
Terminal No.	Color of Wire	Signal Name
1	P	-
8	P	-
10	L	-
17	L	-

Connector No.	M71
Connector Name	JOINT CONNECTOR-M05
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
11	B	-
15	B	-
16	B	-

Connector No.	M60
Connector Name	JOINT CONNECTOR-M06
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
7	W	-
8	BR	-
9	W	-

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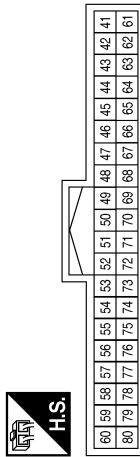
# INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

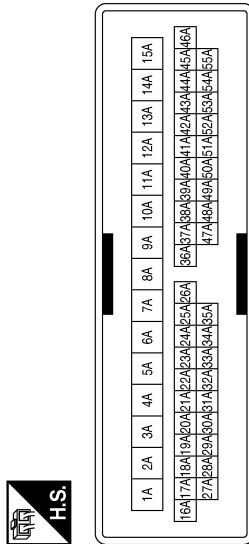
Terminal No.	Color of Wire	Signal Name
48	R	BACK DOOR ANTENNA -
49	W	BACK DOOR ANTENNA +
50	Y	DOOR ANTENNA (AS) -
51	BR	DOOR ANTENNA (AS) +
52	LG	DOOR ANTENNA (DR) -
53	P	DOOR ANTENNA (DR) +
55	LG	ENGINE START SW
56	G	REQUEST SW (DR)
66	V	BRAKE SW2
67	SB	AT DEVICE OUTPUT
71	GR	REQUEST SW (AS)
78	W	SMART KEYLESS BUZZER OUTPUT
80	V	POWER POSITION LED (LOCK POSITION LED)

Connector No.	M83
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
42	BR	ROOM ANTENNA 3 -
43	Y	ROOM ANTENNA 3 +
44	R	ROOM ANTENNA 2 -
45	G	ROOM ANTENNA 2 +
46	GR	ROOM ANTENNA 1 -
47	BR	ROOM ANTENNA 1 +

Connector No.	M74
Connector Name	WIRE TO WIRE
Connector Color	WHITE

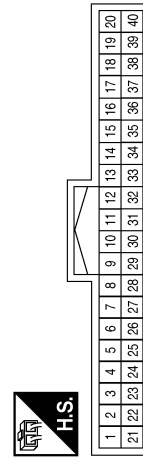


Terminal No.	Color of Wire	Signal Name
40A	BR	-
41A	Y	-
50A	GR	-
51A	B	-

Terminal No.	Color of Wire	Signal Name
29	SB	HAZARD SW
30	L	TRUNK OPENER SW
31	R	DOOR LOCK STATUS SW (DR)
37	P	SHIFT P POSITION, PARKING POSITION SW (WITH CVT)
38	LG	INTELLIGENT TUNER
39	L	CAN-H
40	P	CAN-L

Terminal No.	Color of Wire	Signal Name
7	L	KEY CYLINDER UNLOCK SW
8	V	KEY CYLINDER LOCK SW
9	R	BRAKE SW1
12	GR	CENTRAL DOOR LOCK SW
13	BR	CENTRAL DOOR UNLOCK SW
18	V	KEYLESS TUNER, AUTO LIGHT SENSOR GND

Connector No.	M84
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	BLACK



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# INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

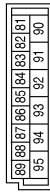
Connector No.	M86
Connector Name	INSIDE KEY ANTENNA (INSTRUMENT CENTER)
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
1	BR	-
2	GR	-

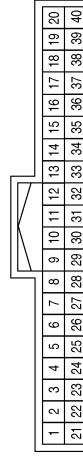
Terminal No.	Color of Wire	Signal Name
86	SB	DOOR UNLOCK OUTPUT (AS)
88	BG	BATTERY (FUSE)
89	P	BATTERY SAVER OUTPUT
90	Y	BATTERY (F/L)
93	B	GND
94	SB	DOOR UNLOCK COMMON (DR)
95	O	DOOR LOCK OUTPUT

Connector No.	M85
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
82	BR	ROOM LAMP OUTPUT
84	W	FLASHER OUTPUT (RIGHT)
85	Y	FLASHER OUTPUT (LEFT)

Connector No.	M122
Connector Name	COMBINATION METER (WITH TYPE B)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	B	GND

Connector No.	M91
Connector Name	REMOTE KEYLESS ENTRY RECEIVER (WITH INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	SB	-
2	LG	-
4	V	-

Connector No.	M89
Connector Name	INSIDE KEY ANTENNA (CONSOLE)
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
1	G	-
2	R	-

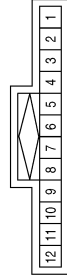
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# INTELLIGENT KEY SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

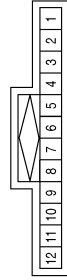
< WIRING DIAGRAM >

Connector No.	E3
Connector Name	JOINT CONNECTOR-E01
Connector Color	BLUE



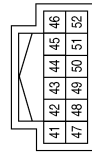
Terminal No.	Color of Wire	Signal Name
8	SB	-
11	SB	-

Connector No.	E2
Connector Name	JOINT CONNECTOR-E02
Connector Color	BLUE



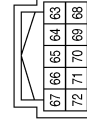
Terminal No.	Color of Wire	Signal Name
1	L	-
5	L	-
8	P	-
12	P	-

Connector No.	M123
Connector Name	COMBINATION METER (WITH TYPE B)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
41	L	CAN-H
42	P	CAN-L
45	LG	BAT
52	B	GND

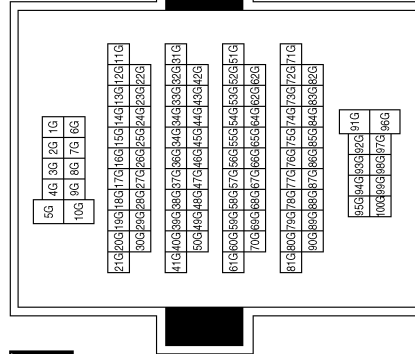
Connector No.	E39
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
66	L	PUSH START SW

Terminal No.	Color of Wire	Signal Name
10G	G	-
32G	SB	-
34G	W	-
35G	R	-
36G	GR	-
43G	L	-
95G	P	-
100G	L	-

Connector No.	E4
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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# INTELLIGENT KEY SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

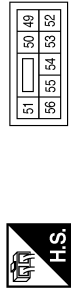
< WIRING DIAGRAM >

Connector No.	E48
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BLACK



Terminal No.	57	Color of Wire	B/Y	Signal Name	POWER GND
--------------	----	---------------	-----	-------------	-----------

Connector No.	E47
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BROWN



Terminal No.	52	Color of Wire	B/Y	Signal Name	SIGNAL GND
--------------	----	---------------	-----	-------------	------------

Connector No.	E46
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
40	P	CAN-L
41	L	CAN-H
48	L	HORN RLY CONT

Connector No.	E60
Connector Name	STOP LAMP SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	W	-
2	SB	-

Connector No.	E58
Connector Name	HORN (HIGH)
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
1	G	-

Connector No.	E57
Connector Name	HORN (LOW)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	G	-

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# INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

Connector No.	E69
Connector Name	HORN (HIGH)
Connector Color	BLACK



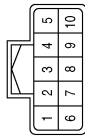
Terminal No.	Color of Wire	Signal Name
2	B/W	-

Connector No.	E68
Connector Name	HORN (LOW)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
2	B/R	-

Connector No.	E63
Connector Name	JOINT CONNECTOR-E03
Connector Color	BLACK



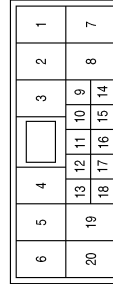
Terminal No.	Color of Wire	Signal Name
6	W	-
7	W	-
8	W	-

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
9	SHIELD	-
10	LG	-
11	V	-
23	Y	-
24	W	-

Connector No.	B6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
13	V	-
16	Y	-
17	W	-
20	B	-

Connector No.	E70
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
1	R	-
3	GR	-

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A  
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# INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

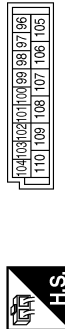
[WITH INTELLIGENT KEY SYSTEM]

Connector No.	B26
Connector Name	REAR DOOR SWITCH LH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	GR	-

Connector No.	B24
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
96	LG	LUGGAGE LAMP OUTPUT
97	GR	DOOR SW (RL)
98	Y	DOOR SW (DR)
99	P	DOOR SW (RR)
100	R	DOOR SW (AS)
103	V	TRUNK SW
105	G	DOOR UNLOCK OUTPUT (FR,RL)
107	GR	TRUNK OPEN OUTPUT

Connector No.	B21
Connector Name	FRONT DOOR SWITCH LH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	Y	-

Connector No.	B49
Connector Name	INSIDE KEY ANTENNA (TRUNK ROOM)
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
1	V	-
2	LG	-

Connector No.	B41
Connector Name	REAR DOOR SWITCH RH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	P	-

Connector No.	B28
Connector Name	FRONT DOOR SWITCH RH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	R	-

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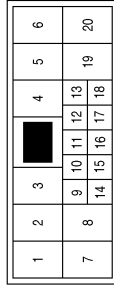


# INTELLIGENT KEY SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >

Connector No.	B93
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
13	R	-
16	B	-
17	W	-
20	B	-

Connector No.	B79
Connector Name	OUTSIDE KEY ANTENNA (REAR BUMPER)
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
1	W	-
2	B	-

Connector No.	B59
Connector Name	TRUNK LID OPENER ASSEMBLY
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	R	-
2	B	-

Connector No.	D15
Connector Name	FRONT OUTSIDE HANDLE LH (REQUEST SWITCH)
Connector Color	BLACK



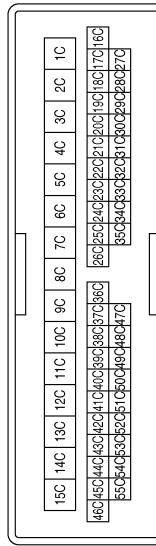
Terminal No.	Color of Wire	Signal Name
1	B	-
2	LG	-

Connector No.	D6
Connector Name	OUTSIDE KEY ANTENNA (DRIVER SIDE)
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	P	-
2	V	-

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
13C	B	-
40C	P	-
41C	V	-
50C	LG	-

ABKIA7276GB

A  
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# INTELLIGENT KEY SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >

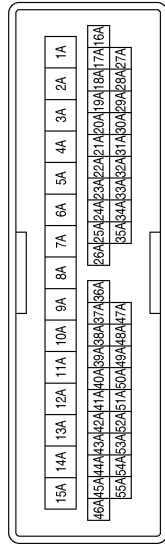
Connector No.	D108
Connector Name	OUTSIDE KEY ANTENNA (PASSENGER SIDE)
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	P	-
2	V	-

Terminal No.	Color of Wire	Signal Name
40A	P	-
41A	V	-
50A	P	-
51A	B	-

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	D115
Connector Name	FRONT OUTSIDE HANDLE RH (REQUEST SWITCH)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	P	-
2	B	-

ABKIA7277GB

# TRUNK LID OPENER

[WITH INTELLIGENT KEY SYSTEM]

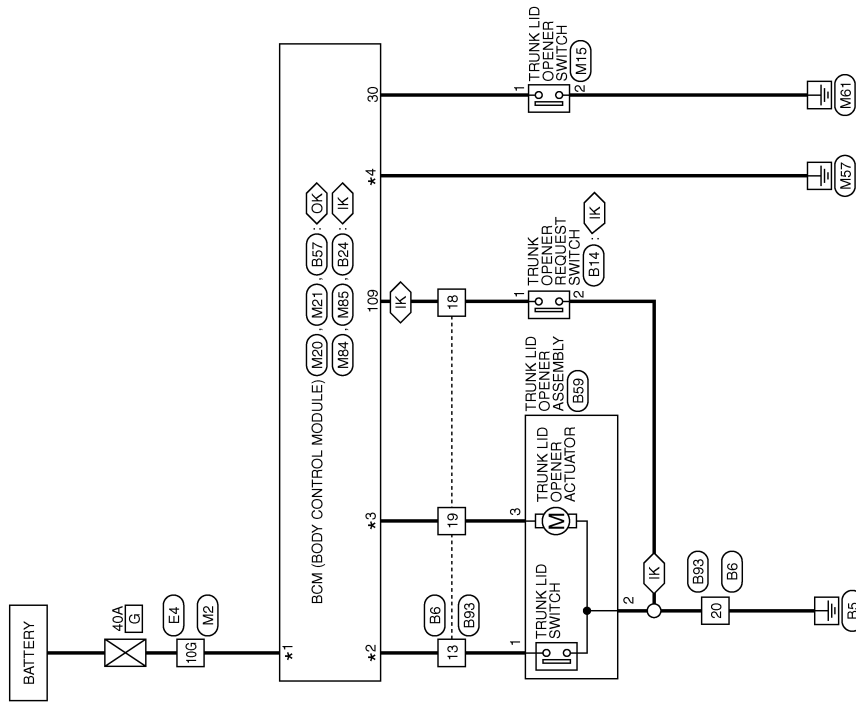
< WIRING DIAGRAM >

## TRUNK LID OPENER

### Wiring Diagram

INFOID:000000012783079

- ◊ IK : WITH INTELLIGENT KEY SYSTEM
- ◊ OK : WITHOUT INTELLIGENT KEY SYSTEM
- \*1 ◊ IK : 107
- \*3 ◊ OK : 90
- \*4 ◊ OK : 70
- \*1 ◊ IK : 103
- \*4 ◊ OK : 51
- \*2 ◊ OK : 93
- \*4 ◊ OK : 65



TRUNK LID OPENER

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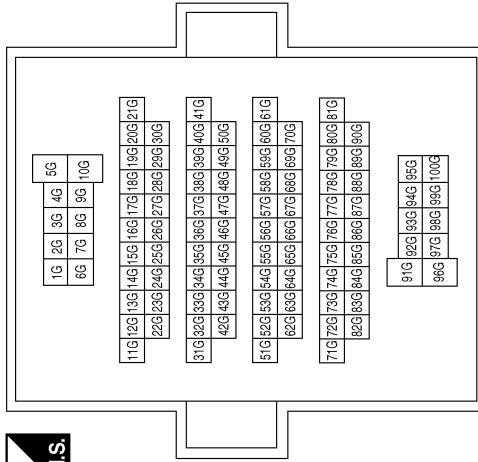
# TRUNK LID OPENER

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

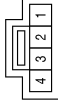
## TRUNK LID OPENER CONNECTORS

Connector No.	M2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



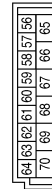
Terminal No.	Color of Wire	Signal Name
10G	Y	-

Connector No.	M15
Connector Name	TRUNK LID OPENER SWITCH
Connector Color	WHITE

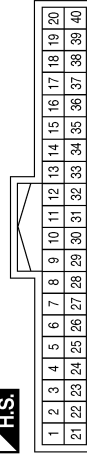


Terminal No.	Color of Wire	Signal Name
1	L	-
2	B	-

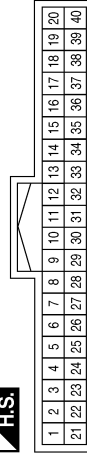
Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



Connector No.	M21
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



Connector No.	M84
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
65	B	GND
70	Y	BATTERY (F/L)

Terminal No.	Color of Wire	Signal Name
30	L	TRUNK OPENER SW

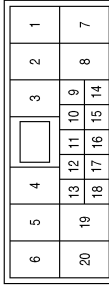
Terminal No.	Color of Wire	Signal Name
30	L	TRUNK OPENER SW

# TRUNK LID OPENER

< WIRING DIAGRAM >

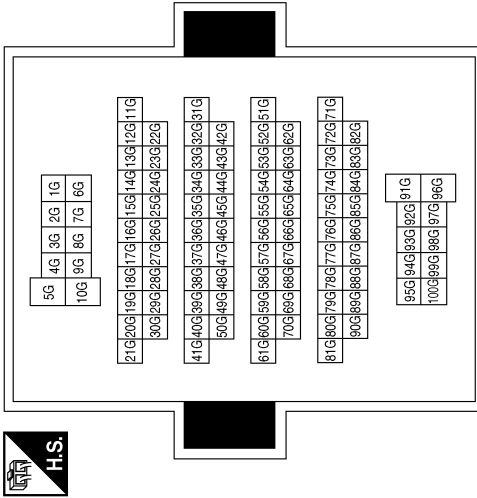
[WITH INTELLIGENT KEY SYSTEM]

Connector No.	B6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



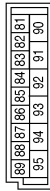
Terminal No.	Color of Wire	Signal Name
13	V	-
18	SB	-
19	GR	-
20	B	-

Connector No.	E4
Connector Name	WIRE TO WIRE
Connector Color	WHITE



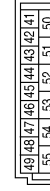
Terminal No.	Color of Wire	Signal Name
10G	G	-

Connector No.	M85
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
90	Y	BATTERY (FL)
93	B	GND

Connector No.	B57
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
51	V	TRUNK SW
55	GR	TRUNK OPEN OUTPUT

Connector No.	B24
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
103	V	TRUNK HATCH SW
107	GR	TRUNK OPEN OUTPUT
109	SB	REQUEST SW (TRUNK)

Connector No.	B14
Connector Name	TRUNK OPENER REQUEST SWITCH
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
1	Y	-
2	B	-

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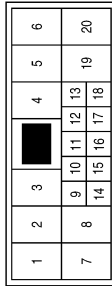
DLK

# TRUNK LID OPENER

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

Connector No.	B93
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
13	R	-
18	Y	-
19	GR	-
20	B	-

Connector No.	B59
Connector Name	TRUNK LID OPENER ASSEMBLY
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	R	-
2	B	-
3	GR	-

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# HOMELINK UNIVERSAL TRANSCEIVER

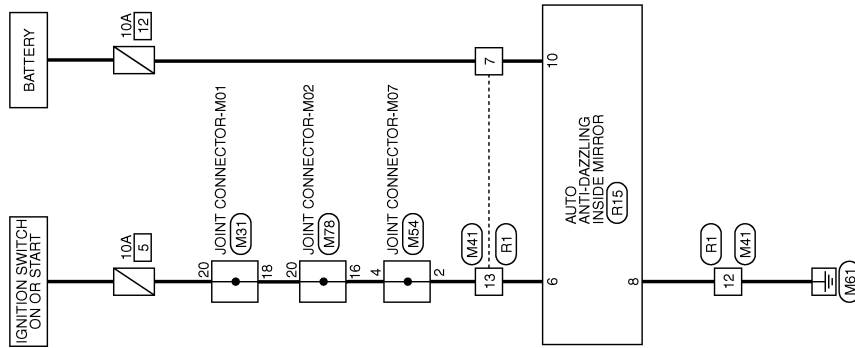
< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

## HOMELINK UNIVERSAL TRANSCEIVER

### Wiring Diagram

INFOID:000000012783080



HOMELINK UNIVERSAL TRANSCEIVER

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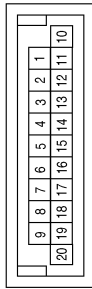
# HOMELINK UNIVERSAL TRANSCEIVER

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

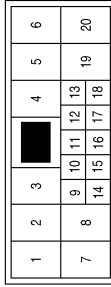
## HOMELINK UNIVERSAL TRANSCEIVER CONNECTORS

Connector No.	M31
Connector Name	JOINT CONNECTOR-M01
Connector Color	BLUE



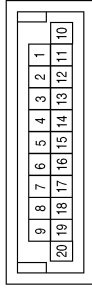
Terminal No.	Color of Wire	Signal Name
18	LG	-
20	LG	-

Connector No.	M41
Connector Name	WIRE TO WIRE
Connector Color	WHITE



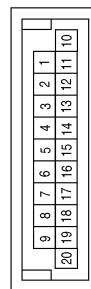
Terminal No.	Color of Wire	Signal Name
7	BG	-
12	B	-
13	BR	-

Connector No.	M54
Connector Name	JOINT CONNECTOR-M07
Connector Color	GREEN



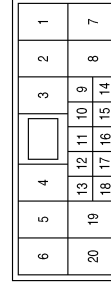
Terminal No.	Color of Wire	Signal Name
2	BR	-
4	LG	-

Connector No.	M78
Connector Name	JOINT CONNECTOR-M02
Connector Color	WHITE



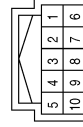
Terminal No.	Color of Wire	Signal Name
16	LG	-
20	LG	-

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
7	O	-
12	B	-
13	BR	-

Connector No.	R15
Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR (WITH HOMELINK UNIVERSAL TRANSCEIVER)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
6	BR	-
8	B	-
10	O	-



# DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

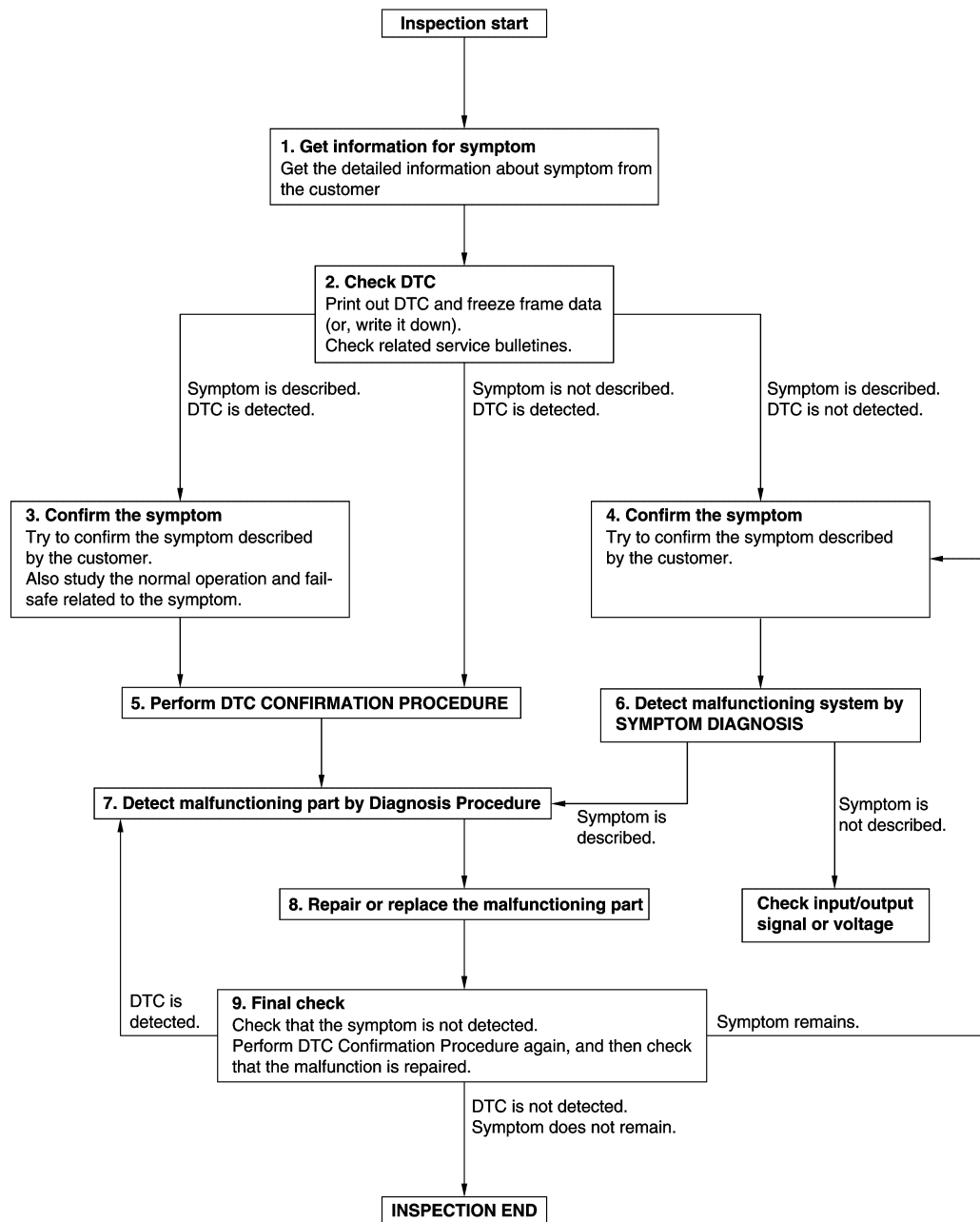
## BASIC INSPECTION

### DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000012783081

OVERALL SEQUENCE



DETAILED FLOW

Revision: December 2015

DLK-69

2016 Sentra NAM

JMKIA8652GB

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# DIAGNOSIS AND REPAIR WORK FLOW

[WITH INTELLIGENT KEY SYSTEM]

< BASIC INSPECTION >

---

## 1. GET INFORMATION FOR SYMPTOM

---

1. Get detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurs).
2. Check operation condition of the function that is malfunctioning.

>> GO TO 2.

---

## 2. CHECK DTC

---

1. Check DTC.
2. Perform the following procedure if DTC is detected.
  - Record DTC and freeze frame data (Print them out using CONSULT.)
  - Erase DTC.
  - Study the relationship between the cause detected by DTC and the symptom described by the customer.
3. Check related service bulletins for information.

Are any symptoms described and any DTC detected?

Symptom is described, DTC is detected>>GO TO 3.

Symptom is described, DTC is not detected>>GO TO 4.

Symptom is not described, DTC is detected>>GO TO 5.

---

## 3. CONFIRM THE SYMPTOM

---

Try to confirm the symptom described by the customer.

Also study the normal operation and fail-safe related to the symptom.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

---

## 4. CONFIRM THE SYMPTOM

---

Try to confirm the symptom described by the customer.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6.

---

## 5. PERFORM DTC CONFIRMATION PROCEDURE

---

Perform DTC CONFIRMATION PROCEDURE for the detected DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check self diagnostic results in real time.

If two or more DTCs are detected, refer to [BCS-49. "DTC Inspection Priority Chart"](#) and determine trouble diagnosis order.

**NOTE:**

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC CONFIRMATION PROCEDURE is not included on Service Manual. This simplified check procedure is an effective alternative though DTC cannot be detected during this check.

If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC CONFIRMATION PROCEDURE.

Is DTC detected?

YES >> GO TO 7.

NO >> Check according to [GI-41. "Intermittent Incident"](#).

---

## 6. DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

---

Detect malfunctioning system according to SYMPTOM DIAGNOSIS based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptom.

Is the symptom described?

YES >> GO TO 7.

NO >> Monitor input data from related sensors or check voltage of related module terminals using CONSULT.

---

## 7. DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

---

# DIAGNOSIS AND REPAIR WORK FLOW

[WITH INTELLIGENT KEY SYSTEM]

< BASIC INSPECTION >

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check according to [GI-41. "Intermittent Incident"](#).

## 8. REPAIR OR REPLACE THE MALFUNCTIONING PART

1. Repair or replace the malfunctioning part.
2. Reconnect parts or connectors disconnected during Diagnosis Procedure again after repair and replacement.
3. Check DTC. If DTC is detected, erase it.

>> GO TO 9.

## 9. FINAL CHECK

When DTC is detected in step 2, perform DTC CONFIRMATION PROCEDURE again, and then check that the malfunction is repaired securely.

When symptom is described by the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Is DTC detected and does symptom remain?

YES-1 >> DTC is detected: GO TO 7.

YES-2 >> Symptom remains: GO TO 4.

NO >> Before returning the vehicle to the customer, always erase DTC.

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DLK

# U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## DTC/CIRCUIT DIAGNOSIS

### U1000 CAN COMM CIRCUIT

#### Description

INFOID:0000000012783082

Refer to [LAN-26, "CAN COMMUNICATION SYSTEM : System Description"](#).

#### DTC Logic

INFOID:0000000012783083

#### DTC DETECTION LOGIC

##### NOTE:

U1000 can be set if a module harness was disconnected and reconnected, perhaps during a repair. Confirm that there are actual CAN diagnostic symptoms and a present DTC by performing the Self Diagnostic Result procedure.

CONSULT Display	DTC Detection Condition	Possible Cause
CAN COMM CIRCUIT [U1000]	When any listed module cannot communicate with CAN communication signal continuously for 2 seconds or more with ignition switch ON	In CAN communication system, any item (or items) of the following listed below is malfunctioning. <ul style="list-style-type: none"><li>• Transmission</li><li>• Receiving (ECM)</li><li>• Receiving (VDC/TCS/ABS)</li><li>• Receiving (METER/M&amp;A)</li><li>• Receiving (TCM)</li><li>• Receiving (IPDM E/R)</li></ul>

#### Diagnosis Procedure

INFOID:0000000012783084

### 1. PERFORM SELF DIAGNOSTIC RESULT

1. Turn ignition switch ON and wait for 2 seconds or more.
2. Check "SELF- DIAG RESULTS".

Is "CAN COMM CIRCUIT" displayed?

- YES >> Perform CAN Diagnosis as described in DIAGNOSIS section of CONSULT operation manual.  
NO >> Refer to [GI-41, "Intermittent Incident"](#).

# U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## U1010 CONTROL UNIT (CAN)

### DTC Logic

INFOID:000000012783085

### DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
CONTROL UNIT (CAN) [U1010]	BCM detected internal CAN communication circuit malfunction.	BCM

### Diagnosis Procedure

INFOID:000000012783086

#### 1. REPLACE BCM

When DTC "U1010" is detected, replace BCM.

>> Replace BCM. Refer to [BCS-78. "Removal and Installation"](#).

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DLK

# B2621 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## B2621 INSIDE ANTENNA

### DTC Logic

INFOID:000000012783087

#### NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2621	INSIDE ANTENNA 1	An excessive high or low voltage from inside antenna (instrument center) is sent to BCM.	<ul style="list-style-type: none"><li>• Inside key antenna (instrument center)</li><li>• Harness between BCM and inside-key antenna (instrument center)</li><li>• BCM</li></ul>

### DTC CONFIRMATION PROCEDURE

#### 1. PERFORM DTC CONFIRMATION PROCEDURE

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select INSIDE ANT DIAGNOSIS in WORK SUPPORT mode.
3. Perform inside key antenna (INSIDE ANT DIAGNOSIS) on WORK SUPPORT of INTELLIGENT KEY.
4. Check BCM for DTC.

#### Is inside key antenna DTC detected?

- YES >> Refer to [DLK-74, "Diagnosis Procedure"](#).
- NO >> Inside key antenna (instrument center) is OK.

### Diagnosis Procedure

INFOID:000000012783088

#### NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

Regarding Wiring Diagram information, refer to [DLK-49, "Wiring Diagram"](#).

#### 1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

1. Turn ignition switch ON.
2. Check signal between BCM harness connector and ground using oscilloscope.

# B2621 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M83	46	Ground	When Intelligent Key is in the antenna detection area	<p style="text-align: right;">JMkia3839GB</p>
	47		When Intelligent Key is not in the antenna detection area	<p style="text-align: right;">JMkia5951GB</p>

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-78, "Removal and Installation"](#).

NO >> GO TO 2.

## 2. CHECK INSIDE KEY ANTENNA CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM connector and inside key antenna (instrument center) connector.
- Check continuity between BCM harness connector and inside key antenna (instrument center) harness connector.

BCM		Inside key antenna (instrument center)		Continuity
Connector	Terminal	Connector	Terminal	
M83	47	M86	1	Yes
	46		2	

- Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M83	47		No
	46		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

## 3. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

- Replace inside key antenna (instrument center). (New antenna or other antenna)
- Connect BCM connector and inside key antenna (instrument center) connector.
- Turn ignition switch ON.
- Check signal between BCM harness connector and ground using oscilloscope.

# B2621 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M83	47	Ground	When Intelligent Key is in the antenna detection area	<p style="text-align: right;">JMKIA3839GB</p>
	46		When Intelligent Key is not in the antenna detection area	<p style="text-align: right;">JMKIA5951GB</p>

Is the inspection result normal?

- YES >> Replace inside key antenna (instrument center).
- NO >> Replace BCM. Refer to [BCS-78. "Removal and Installation"](#).



# B2622 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## B2622 INSIDE ANTENNA

### DTC Logic

INFOID:000000012783089

#### NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2622	INSIDE ANTENNA 2	An excessive high or low voltage from inside antenna (console) is sent to BCM	<ul style="list-style-type: none"><li>• Inside key antenna (console)</li><li>• Harness between BCM and inside key antenna (console)</li><li>• BCM</li></ul>

### DTC CONFIRMATION PROCEDURE

#### 1. PERFORM DTC CONFIRMATION PROCEDURE

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select INSIDE ANT DIAGNOSIS in WORK SUPPORT mode.
3. Perform inside key antenna (INSIDE ANT DIAGNOSIS) on WORK SUPPORT of INTELLIGENT KEY.
4. Check BCM for DTC.

#### Is inside key antenna DTC detected?

- YES >> Refer to [DLK-77, "Diagnosis Procedure"](#).
- NO >> Inside key antenna (console) is OK.

### Diagnosis Procedure

INFOID:000000012783090

#### NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

Regarding Wiring Diagram information, refer to [DLK-49, "Wiring Diagram"](#).

#### 1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

1. Turn ignition switch ON.
2. Check signal between BCM harness connector and ground using oscilloscope.

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# B2622 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M83	45	Ground	When Intelligent Key is in the antenna detection area	<p style="text-align: right;">JMKIA3839GB</p>
	44		When Intelligent Key is not in the antenna detection area	<p style="text-align: right;">JMKIA5951GB</p>

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-78, "Removal and Installation"](#).

NO >> GO TO 2.

## 2. CHECK INSIDE KEY ANTENNA CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM connector and inside key antenna (console) connector.
- Check continuity between BCM harness connector and inside key antenna (console) harness connector.

BCM		Inside key antenna (console)		Continuity
Connector	Terminal	Connector	Terminal	
M83	45	M89	1	Yes
	44		2	

- Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M83	45		No
	44		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

## 3. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

- Replace inside key antenna (console). (New antenna or other antenna)
- Connect BCM connector and inside key antenna (console) connector.
- Turn ignition switch ON.
- Check signal between BCM harness connector and ground using oscilloscope.

# B2622 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M83	45	Ground	When Intelligent Key is in the antenna detection area	<p>JMKIA3839GB</p>
	44		When Intelligent Key is not in the antenna detection area	<p>JMKIA5951GB</p>

Is the inspection result normal?

YES >> Replace inside key antenna (console).

NO >> Replace BCM. Refer to [BCS-78. "Removal and Installation"](#).

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# B2623 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## B2623 INSIDE ANTENNA

### DTC Logic

INFOID:000000012783091

#### NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2623	INSIDE ANTENNA 3	An excessive high or low voltage from inside antenna (trunk room) is sent to BCM	<ul style="list-style-type: none"><li>• Inside key antenna (trunk room)</li><li>• Harness between BCM and inside key antenna (trunk room)</li><li>• BCM</li></ul>

### DTC CONFIRMATION PROCEDURE

#### 1. PERFORM DTC CONFIRMATION PROCEDURE

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select INSIDE ANT DIAGNOSIS in WORK SUPPORT mode.
3. Perform inside key antenna (INSIDE ANT DIAGNOSIS) on WORK SUPPORT of INTELLIGENT KEY.
4. Check BCM for DTC.

#### Is inside key antenna DTC detected?

- YES >> Refer to [DLK-80, "Diagnosis Procedure"](#).
- NO >> Inside key antenna (trunk room) is OK.

### Diagnosis Procedure

INFOID:000000012783092

#### NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

Regarding Wiring Diagram information, refer to [DLK-49, "Wiring Diagram"](#).

#### 1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

1. Turn ignition switch ON.
2. Check signal between BCM harness connector and ground using oscilloscope.

# B2623 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M83	43	Ground	When Intelligent Key is in the antenna detection area	
	42		When Intelligent Key is not in the antenna detection area	

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-78, "Removal and Installation"](#).

NO >> GO TO 2.

## 2. CHECK INSIDE KEY ANTENNA CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM connector and inside key antenna (trunk room) connector.
- Check continuity between BCM harness connector and inside key antenna (trunk room) harness connector.

BCM		Inside key antenna (trunk room)		Continuity
Connector	Terminal	Connector	Terminal	
M83	43	B49	1	Yes
	42		2	

- Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M83	43		No
	42		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

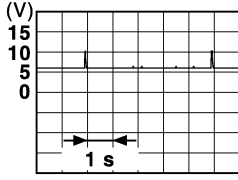
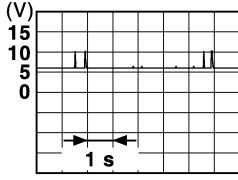
## 3. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

- Replace inside key antenna (trunk room). (New antenna or other antenna)
- Connect BCM connector and inside key antenna (trunk room) connector.
- Turn ignition switch ON.
- Check signal between BCM harness connector and ground using oscilloscope.

# B2623 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M83	43 42	Ground	When Intelligent Key is in the antenna detection area	 <p style="text-align: right; font-size: small;">JMKIA3839GB</p>
			When Intelligent Key is not in the antenna detection area	 <p style="text-align: right; font-size: small;">JMKIA5951GB</p>

Is the inspection result normal?

- YES >> Replace inside key antenna (trunk room).
- NO >> Replace BCM. Refer to [BCS-78. "Removal and Installation"](#).

# B2626 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## B2626 OUTSIDE ANTENNA

### DTC Logic

INFOID:0000000012783093

#### NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2627	OUTSIDE ANTENNA 2	An excessive high or low voltage from outside key antenna (driver side) is sent to BCM	<ul style="list-style-type: none"><li>• Outside key antenna (driver side)</li><li>• Harness between BCM and outside key antenna (driver side)</li><li>• BCM</li></ul>

### DTC CONFIRMATION PROCEDURE

#### 1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check “Self Diagnostic Result” mode of “BCM” using CONSULT.

#### Is DTC detected?

- YES >> Refer to [DLK-83, "Diagnosis Procedure"](#).
- NO >> Outside key antenna (driver side) is OK.

### Diagnosis Procedure

INFOID:0000000012783094

#### NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

Regarding Wiring Diagram information, refer to [DLK-49, "Wiring Diagram"](#).

#### 1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

1. Turn ignition switch ON.
2. Check signal between BCM harness connector and ground using oscilloscope.

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# B2626 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M83	53	Ground	When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)	<p>JMKIA5955GB</p>
	52		When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	<p>JMKIA5954GB</p>

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-78. "Removal and Installation"](#).  
 NO >> GO TO 2.

## 2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM connector and outside key antenna (driver side) connector.
- Check continuity between BCM harness connector and outside key antenna (driver side) harness connector.

BCM		Outside key antenna (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M83	53	D6	1	Yes
	52		2	

- Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M83	53		No
	52		

Is the inspection result normal?

- YES >> GO TO 3.  
 NO >> Repair or replace harness.

## 3. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

- Replace outside key antenna (driver side). (New antenna or other antenna)
- Connect BCM connector and outside key antenna (driver side) connector.
- Turn ignition switch ON.
- Check signal between BCM harness connector and ground using oscilloscope.



# B2626 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M83	52	Ground	When the driver door request switch is operated with ignition switch OFF	<p>JMKIA5955GB</p>
	53		When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	<p>JMKIA5954GB</p>

Is the inspection result normal?

- YES >> Replace outside key antenna (driver side).
- NO >> Replace BCM. Refer to [BCS-78. "Removal and Installation"](#).

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# B2627 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## B2627 OUTSIDE ANTENNA

### DTC Logic

INFOID:0000000012783095

#### NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2626	OUTSIDE ANTENNA 1	An excessive high or low voltage from outside key antenna (passenger side ) is sent to BCM	<ul style="list-style-type: none"><li>• Outside key antenna (passenger side)</li><li>• Harness between BCM and outside key antenna (passenger side)</li><li>• BCM</li></ul>

### DTC CONFIRMATION PROCEDURE

#### 1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check Self Diagnostic Result mode of BCM using CONSULT.

#### Is outside key antenna DTC detected?

- YES >> Refer to [DLK-86, "Diagnosis Procedure"](#).
- NO >> Outside key antenna (passenger side) is OK.

### Diagnosis Procedure

INFOID:0000000012783096

#### NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

Regarding Wiring Diagram information, refer to [DLK-49, "Wiring Diagram"](#).

#### 1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

1. Turn ignition switch ON.
2. Check signal between BCM harness connector and ground using oscilloscope.

# B2627 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M83	51	Ground	When the passenger side door request switch is operated with ignition switch OFF	<p>JMKIA5955GB</p>
	50		When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	<p>JMKIA5954GB</p>

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-78, "Removal and Installation"](#).

NO >> GO TO 2.

## 2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM connector and outside key antenna (passenger side) connector.
- Check continuity between BCM harness connector and outside key antenna (passenger side) harness connector.

BCM		Outside key antenna (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
M83	51	D108	1	Yes
	50		2	

- Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M83	51		No
	50		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

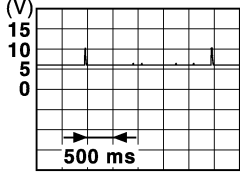
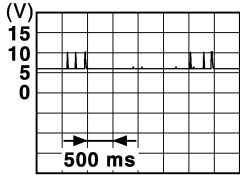
## 3. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

- Replace outside key antenna (passenger side). (New antenna or other antenna)
- Connect BCM connector and outside key antenna (passenger side) connector.
- Turn ignition switch ON.
- Check signal between BCM harness connector and ground using oscilloscope.

# B2627 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M83	51 50	Ground	When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)	 <p style="text-align: right;">JMKIA5955GB</p>
			When the passenger side door request switch is operated with ignition switch OFF	 <p style="text-align: right;">JMKIA5954GB</p>

Is the inspection result normal?

- YES >> Replace outside key antenna (passenger side).
- NO >> Replace BCM. Refer to [BCS-78, "Removal and Installation"](#).

# B2628 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## B2628 OUTSIDE ANTENNA

### DTC Logic

INFOID:000000012783097

#### NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2628	OUTSIDE ANTENNA 3	An excessive high or low voltage from outside key antenna (rear bumper) is sent to BCM	<ul style="list-style-type: none"><li>• Outside key antenna (rear bumper)</li><li>• Harness between BCM and outside key antenna (rear bumper)</li><li>• BCM</li></ul>

### DTC CONFIRMATION PROCEDURE

#### 1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check Self Diagnostic Result mode of BCM using CONSULT.

#### Is outside key antenna DTC detected?

- YES >> Refer to [DLK-89, "Diagnosis Procedure"](#).
- NO >> Outside key antenna (rear bumper) is OK.

### Diagnosis Procedure

INFOID:000000012783098

#### NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

Regarding Wiring Diagram information, refer to [DLK-49, "Wiring Diagram"](#).

#### 1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

1. Turn ignition switch ON.
2. Check signal between BCM harness connector and ground using oscilloscope.

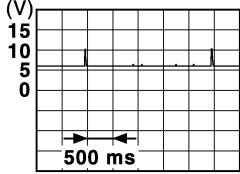
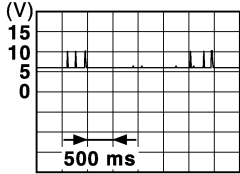
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DLK

# B2628 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M83	48,49	Ground	When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)	 <p>JMKIA5955GB</p>
			When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	 <p>JMKIA5954GB</p>

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-78. "Removal and Installation"](#).  
 NO >> GO TO 2.

## 2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM connector and outside key antenna (rear bumper) connector.
- Check continuity between BCM harness connector and outside key antenna (rear bumper) harness connector.

BCM		Outside key antenna (rear bumper)		Continuity
Connector	Terminal	Connector	Terminal	
M83	49	B79	1	Yes
	48		2	

- Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M83	49		Ground
	48	No	

Is the inspection result normal?

- YES >> GO TO 3.  
 NO >> Repair or replace harness.

## 3. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

- Replace outside key antenna (rear bumper). (New antenna or other antenna)
- Connect BCM and outside key antenna (rear bumper) connector.
- Turn ignition switch ON.
- Check signal between BCM harness connector and ground using oscilloscope.

# B2628 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)		(-)	Condition		Signal (Reference value)
BCM					
Connector	Terminal				
M83	49,48	Ground	When the trunk opener request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)	<p style="text-align: right; font-size: small;">JMKIA5955GB</p>
				When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	<p style="text-align: right; font-size: small;">JMKIA5954GB</p>

Is the inspection result normal?

- YES >> Replace outside key antenna (rear bumper).
- NO >> Replace BCM. Refer to [BCS-78. "Removal and Installation"](#).

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DLK

# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## POWER SUPPLY AND GROUND CIRCUIT

### Diagnosis Procedure

INFOID:000000013372790

Regarding Wiring Diagram information, refer to [BCS-53. "Wiring Diagram"](#).

#### 1. CHECK FUSES AND FUSIBLE LINK

Check that the following fuses and fusible link are not blown.

Terminal No.	Signal name	Fuses and fusible link No.
88	Battery power supply	12 (10A)
90		G (40A)

##### Is the fuse blown?

YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

NO >> GO TO 2.

#### 2. CHECK POWER SUPPLY CIRCUIT

1. Disconnect BCM connector M85.
2. Check voltage between BCM connector M85 and ground.

BCM		Ground	Voltage
Connector	Terminal		
M85	88	—	Battery voltage
	90		

##### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

#### 3. CHECK GROUND CIRCUIT

Check continuity between BCM connector M85 and ground.

BCM		Ground	Continuity
Connector	Terminal		
M85	93	—	Yes

##### Is the inspection result normal?

YES >> Inspection End.

NO >> Repair harness or connector.



# COMBINATION METER BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## COMBINATION METER BUZZER

### Component Function Check

INFOID:000000012783100

#### 1.CHECK FUNCTION

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select INSIDE BUZZER in ACTIVE TEST mode.
3. Touch Key, Knob or Take Out to check that it works normally.

Is the inspection result normal?

- Yes >> Combination meter buzzer is OK.  
No >> Refer to [DLK-93. "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000012783101

#### 1.CHECK METER BUZZER CIRCUIT

Refer to [WCS-35. "Component Function Check"](#).

Is the inspection result normal?

- Yes >> GO TO 2.  
No >> Repair or replace harness.

#### 2.CHECK INTERMITTENT INCIDENT

Refer to [GI-41. "Intermittent Incident"](#).

>> Inspection End.

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DLK

# DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## DOOR LOCK ACTUATOR

### DRIVER SIDE

#### DRIVER SIDE : Component Function Check

INFOID:000000012783102

#### 1.CHECK FUNCTION

1. Select DOOR LOCK of BCM using CONSULT.
2. Select DOOR LOCK in ACTIVE TEST mode.
3. Touch ALL LOCK or ALL UNLK to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-94, "DRIVER SIDE : Diagnosis Procedure"](#).

#### DRIVER SIDE : Diagnosis Procedure

INFOID:000000012783103

Regarding Wiring Diagram information, refer to [DLK-41, "Wiring Diagram"](#).

#### 1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front door lock actuator LH connector.
3. Check voltage between front door lock actuator LH harness connector and ground.

(+)		(-)	Condition	Voltage (Approx.)
Connector	Terminal			
D9	1	Ground	Door lock and unlock switch	Battery voltage
	2		Lock Unlock	

Is the inspection result normal?

YES >> Replace front door lock actuator LH .

NO >> GO TO 2.

#### 2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM connector and all door lock actuator connectors.
2. Check continuity between BCM harness connector and front door lock actuator LH harness connector.

BCM		Front door lock actuator LH		Continuity
Connector	Terminal	Connector	Terminal	
M85	95	D9	1	Yes
	94		2	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M85	95		No
	94		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

#### 3.CHECK BCM OUTPUT SIGNAL

# DOOR LOCK ACTUATOR

[WITH INTELLIGENT KEY SYSTEM]

## < DTC/CIRCUIT DIAGNOSIS >

1. Connect BCM connector.
2. Check voltage between front door lock actuator LH harness connector and ground.

(+)		(-)	Condition	Voltage (Approx.)
BCM				
Connector	Terminal	Ground	Door lock and unlock switch	Lock Unlock
M85	95			
	94			

Is the inspection result normal?

- YES >> Check for internal short of each door lock actuator.  
 NO >> Replace BCM. Refer to [BCS-78, "Removal and Installation"](#).

## PASSENGER SIDE

### PASSENGER SIDE : Component Function Check

INFOID:000000012783104

#### 1.CHECK FUNCTION

1. Select DOOR LOCK of BCM using CONSULT.
2. Select DOOR LOCK in ACTIVE TEST mode.
3. Touch ALL LOCK or ALL UNLK to check that it works normally.

Is the inspection result normal?

- YES >> Door lock actuator is OK.  
 NO >> Refer to [DLK-95, "PASSENGER SIDE : Diagnosis Procedure"](#).

### PASSENGER SIDE : Diagnosis Procedure

INFOID:000000012783105

Regarding Wiring Diagram information, refer to [DLK-41, "Wiring Diagram"](#).

#### 1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front door lock actuator RH connector.
3. Check voltage between front door lock actuator RH harness connector and ground.

(+)		(-)	Condition	Voltage (Approx.)
Front door lock actuator RH				
Connector	Terminal	Ground	Door lock and unlock switch	Lock Unlock
D107	5			
	6			

Is the inspection result normal?

- YES >> Replace front door lock actuator RH.  
 NO >> GO TO 2.

#### 2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM connector and all door lock actuators.
2. Check continuity between BCM harness connector and front door lock actuator RH harness connector.

BCM		Front door lock actuator RH		Continuity
Connector	Terminal	Connector	Terminal	
M85	95	D107	5	Yes
	86		6	

3. Check continuity between BCM harness connector and ground.

# DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BCM		Ground	Continuity
Connector	Terminal		
M85	95		No
	86		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

## 3.CHECK BCM OUTPUT SIGNAL

1. Connect BCM connector.
2. Check voltage between front door lock actuator RH harness connector and ground.

(+)		(-)	Condition	Voltage (Approx.)
BCM				
Connector	Terminal			
M85	95	Ground	Door lock and unlock switch	Lock
	86			Unlock
				Battery voltage

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator.

NO >> Replace BCM. Refer to [BCS-78, "Removal and Installation"](#).

## REAR LH

### REAR LH : Component Function Check

INFOID:0000000012783106

#### 1.CHECK FUNCTION

1. Select DOOR LOCK of BCM using CONSULT.
2. Select DOOR LOCK in ACTIVE TEST mode.
3. Touch ALL LOCK or ALL UNLK to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-96, "REAR LH : Diagnosis Procedure"](#).

### REAR LH : Diagnosis Procedure

INFOID:0000000012783107

Regarding Wiring Diagram information, refer to [DLK-41, "Wiring Diagram"](#).

#### 1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect rear door lock actuator LH connector.
3. Check voltage between rear door lock actuator LH harness connector and ground.

(+)		(-)	Condition	Voltage (Approx.)
Rear door lock actuator LH				
Connector	Terminal			
D202	1	Ground	Door lock and unlock switch	Lock
	2			Unlock
				Battery voltage

Is the inspection result normal?

YES >> Replace rear door lock actuator LH.

NO >> GO TO 2.

# DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## 2. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM connector and all door lock actuator connectors.
2. Check continuity between BCM harness connector and rear door lock actuator LH harness connector.

BCM		Rear door lock actuator LH		Continuity
Connector	Terminal	Connector	Terminal	
M85	95	D202	1	Yes
B24	105		2	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M85	95		No
B24	105		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

## 3. CHECK BCM OUTPUT SIGNAL

1. Connect BCM connector.
2. Check voltage between rear door lock actuator LH harness connector and ground.

(+)		(-)	Condition	Voltage (Approx.)
BCM				
Connector	Terminal	Ground	Door lock and unlock switch	Battery voltage
M85	95			
B24	105	Unlock		

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator.

NO >> Replace BCM. Refer to [BCS-78. "Removal and Installation"](#).

## REAR RH

### REAR RH : Component Function Check

INFOID:000000012783108

#### 1. CHECK FUNCTION

1. Select DOOR LOCK of BCM using CONSULT.
2. Select DOOR LOCK in ACTIVE TEST mode.
3. Touch ALL LOCK or ALL UNLK to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-97. "REAR RH : Diagnosis Procedure"](#).

### REAR RH : Diagnosis Procedure

INFOID:000000012783109

Regarding Wiring Diagram information, refer to [DLK-41. "Wiring Diagram"](#).

#### 1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect rear door lock actuator RH connector.
3. Check voltage between rear door lock actuator RH harness connector and ground.

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DLK

# DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)		(-)	Condition		Voltage (Approx.)
Rear door lock actuator RH					
Connector	Terminal				
D302	5	Ground	Door lock and unlock switch	Lock	Battery voltage
	6			Unlock	

Is the inspection result normal?

YES >> Replace rear door lock actuator RH.

NO >> GO TO 2.

## 2. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM connector and all door lock actuator connectors.
2. Check continuity between BCM harness connector and rear door lock actuator RH harness connector.

BCM		Rear door lock actuator RH		Continuity
Connector	Terminal	Connector	Terminal	
M85	95	D302	5	Yes
B24	105		6	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M85	95		No
B24	105		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

## 3. CHECK BCM OUTPUT SIGNAL

1. Connect BCM connector.
2. Check voltage between rear door lock actuator RH harness connector and ground.

(+)		(-)	Condition		Voltage (Approx.)
BCM					
Connector	Terminal				
M85	95	Ground	Door lock and unlock switch	Lock	Battery voltage
B24	105			Unlock	

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator.

NO >> Replace BCM. Refer to [BCS-78. "Removal and Installation"](#).

# DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## DOOR LOCK AND UNLOCK SWITCH

### Component Function Check

INFOID:0000000012783110

#### 1. CHECK FUNCTION

1. Select DOOR LOCK of BCM using CONSULT.
2. Select CDL LOCK SW, CDL UNLOCK SW in DATA MONITOR mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition	Status
CDL LOCK SW	LOCK	ON
	UNLOCK	OFF
CDL UNLOCK SW	LOCK	OFF
	UNLOCK	ON

Is the inspection result normal?

- YES >> Main power window and door lock/unlock switch is OK.  
 NO >> Refer to [DLK-99, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:0000000012783111

Regarding Wiring Diagram information, refer to [DLK-41, "Wiring Diagram"](#).

#### 1. CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch connector.
3. Check signal between main power window and door lock/unlock switch harness connector and ground using oscilloscope.

(+)		(-)	Signal (Reference value)
Connector	Terminal		
D5	15	Ground	
	3		

Is the inspection result normal?

- YES >> GO TO 3.  
 NO >> GO TO 2.

#### 2. CHECK DOOR LOCK AND UNLOCK SWITCH CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and main power window and door lock/unlock switch harness connector.

# DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BCM		Main power window and door lock/unlock switch		Continuity
Connector	Terminal	Connector	Terminal	
M84	12	D5	3	Yes
	13		15	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M84	12		No
	13		

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-78. "Removal and Installation"](#).

NO >> Repair or replace harness.

## 3. CHECK DOOR LOCK AND UNLOCK SWITCH GROUND

Check continuity between main power window and door lock/unlock switch harness connector and ground.

Main power window and door lock/unlock switch		Ground	Continuity
Connector	Terminal		
D5	1		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

## 4. CHECK DOOR LOCK AND UNLOCK SWITCH

Refer to [DLK-100. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-69. "Removal and Installation"](#).

## 5. CHECK INTERMITTENT INCIDENT

Refer to [GI-41. "Intermittent Incident"](#).

>> Inspection End.

## Component Inspection

INFOID:000000012783112

### 1. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch connector.
3. Check continuity between main power window and door lock/unlock switch terminals.

Main power window and door lock/unlock switch		Condition	Continuity
Terminal			
15	1	LOCK	No
3		UNLOCK	Yes
		LOCK	Yes
		UNLOCK	No

Is the inspection result normal?

YES >> Inspection End



# DOOR LOCK AND UNLOCK SWITCH

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-69. "Removal and Installation"](#).

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# UNLOCK SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## UNLOCK SENSOR

### Component Function Check

INFOID:000000012783113

#### 1. CHECK FUNCTION

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select UNLK SEN-DR in DATA MONITOR mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
UNLK SEN -DR	Driver side door	Lock	OFF
		Unlock	ON

Is the inspection result normal?

- YES >> Unlock sensor is OK.  
 NO >> Refer to [DLK-102, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000012783114

Regarding Wiring Diagram information, refer to [DLK-41, "Wiring Diagram"](#).

#### 1. CHECK UNLOCK SENSOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly LH connector.
3. Check signal between front door lock assembly LH harness connector and ground with oscilloscope.

(+)		(-)	Signal (Reference value)
Connector	Terminal		
D9	3	Ground	

Is the inspection result normal?

- YES >> GO TO 3.  
 NO >> GO TO 2.

#### 2. CHECK UNLOCK SENSOR CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and front door lock assembly LH harness connector.

BCM		Front door lock assembly LH		Continuity
Connector	Terminal	Connector	Terminal	
M84	31	D9	3	Yes

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M84	31		No

# UNLOCK SENSOR

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-78, "Removal and Installation"](#).

NO >> Repair or replace harness.

## 3.CHECK UNLOCK SENSOR GROUND CIRCUIT

Check continuity between front door lock assembly LH harness connector and ground.

Front door lock assembly LH		Ground	Continuity
Connector	Terminal		Yes
D9	4		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

## 4.CHECK UNLOCK SENSOR

Refer to [DLK-103, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly LH. Refer to [DLK-174, "FRONT DOOR LOCK : Removal and Installation"](#).

## 5.CHECK INTERMITTENT INCIDENT

Refer to [GI-41, "Intermittent Incident"](#).

>> Inspection End.

## Component Inspection

INFOID:0000000012783115

## 1.CHECK UNLOCK SENSOR

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly LH connector.
3. Check continuity between front door lock assembly LH terminals.

Front door lock assembly LH		Condition	Continuity
Terminal	Terminal		Yes
3	4	Driver side door	Unlock Lock

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace front door lock assembly LH. Refer to [DLK-174, "FRONT DOOR LOCK : Removal and Installation"](#).

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# KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## KEY CYLINDER SWITCH

### Description

INFOID:000000012783116

When the mechanical key is inserted and turned into the front door lock key cylinder switch LH, the switch transmits the LOCK or UNLOCK signal directly to the BCM.

### Component Function Check

INFOID:000000012783117

#### 1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

Check KEY CYL UN-SW, KEY CYL UN-SW in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT. Refer to [DLK-36, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

Monitor item	Condition
KEY CYL LK-SW	Lock : ON
	Neutral / Unlock : OFF
KEY CYL UN-SW	Unlock : ON
	Neutral / Lock : OFF

Is the inspection result normal?

- YES >> Key cylinder switch is OK.  
NO >> Refer to [DLK-104, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000012783118

Regarding Wiring Diagram information, refer to [DLK-41, "Wiring Diagram"](#).

#### 1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between BCM connector and ground.

Terminals		Key position	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M84	8	Lock	0
		Neutral / Unlock	7.0 - 8.0 V
	7	Unlock	0
		Neutral / Lock	7.0 - 8.0 V

Is the inspection result normal?

- YES >> Front door lock key cylinder switch LH is OK.  
NO >> GO TO 2

#### 2. CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect front door lock key cylinder switch LH connector.
3. Check continuity between front door lock key cylinder switch LH connector and ground.

Front door lock key cylinder switch LH connector	Terminal	Ground	Continuity
D9	4		Yes

Is the inspection result normal?

# KEY CYLINDER SWITCH

[WITH INTELLIGENT KEY SYSTEM]

## < DTC/CIRCUIT DIAGNOSIS >

- YES >> GO TO 3
- NO >> Repair or replace harness.

### 3. CHECK DOOR KEY CYLINDER SIGNAL CIRCUIT

1. Disconnect BCM connector M84.
2. Check continuity between front door lock key cylinder switch LH connector and BCM connector M84.

Front door lock key cylinder switch LH connector	Terminal	BCM connector	Terminal	Continuity
D9	6	M84	8	Yes
	5		7	

3. Check continuity between front door lock key cylinder switch LH connector and ground.

Front door lock key cylinder switch LH connector	Terminal	Ground	Continuity
D9	6	Ground	No
	5		

Is the inspection result normal?

- YES >> GO TO 4
- NO >> Repair or replace harness.

### 4. CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.  
Refer to [DLK-105, "Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).
- NO >> Replace front door lock key cylinder switch LH.

## Component Inspection

INFOID:0000000012783119

### COMPONENT INSPECTION

#### 1. CHECK DOOR KEY CYLINDER SWITCH

Check front door lock key cylinder switch LH.

Terminal		Key position	Continuity
Front door lock key cylinder switch LH connector			
6	4	Lock	Yes
		Neutral / Unlock	No
5		Unlock	Yes
		Neutral / Lock	No

Is the inspection result normal?

- YES >> Key cylinder switch is OK.
- NO >> Replace front door lock key cylinder switch LH.

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DLK

# DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## DOOR REQUEST SWITCH

### Component Function Check

INFOID:0000000012783120

#### 1.CHECK FUNCTION

1. Select INTELLIGENT KEY of CM using CONSULT.
2. Select REQ SW-DR, REQ SW-AS in DATA MONITOR mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
REQ SW -DR	Door request switch LH	Pressed	ON
		Released	OFF
REQ SW -AS	Door request switch RH	Pressed	ON
		Released	OFF

Is the inspection result normal?

- YES >> Front door request switch is OK.  
NO >> Refer to [DLK-106, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:0000000012783121

Regarding Wiring Diagram information, refer to [DLK-49, "Wiring Diagram"](#).

#### 1.CHECK DOOR REQUEST SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect malfunctioning front door request switch connector.
3. Check voltage between malfunctioning front door request switch harness connector and ground.

(+)			(-)	Voltage (Approx.)
Front door request switch				
Connector		Terminal		
Left side	D15	2	Ground	Battery voltage
Right side	D115	1		

Is the inspection result normal?

- YES >> GO TO 3.  
NO >> GO TO 2.

#### 2.CHECK DOOR REQUEST SWITCH CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between malfunctioning front door request switch harness connector and BCM harness connector.

Front door request switch			BCM		Continuity
Connector		Terminal	Connector	Terminal	
Left side	D15	2	M83	56	Yes
Right side	D115	1		71	

3. Check continuity between malfunctioning front door request switch harness connector and ground.

# DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Front door request switch			Ground	Continuity
Connector		Terminal		No
Left side	D15	2		
Right side	D115	1		

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-78, "Removal and Installation"](#).

NO >> Repair or replace harness.

## 3.CHECK DOOR REQUEST SWITCH GROUND CIRCUIT

Check continuity between malfunctioning front door request switch harness connector and ground.

Front door request switch			Ground	Continuity
Connector		Terminal		Yes
Left side	D15	1		
Right side	D115	2		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

## 4.CHECK DOOR REQUEST SWITCH

Refer to [DLK-107, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace malfunctioning front door request switch.

## 5.CHECK INTERMITTENT INCIDENT

Refer to [GI-41, "Intermittent Incident"](#).

>> Inspection End.

## Component Inspection

INFOID:000000012783122

DLK

## 1.CHECK DOOR REQUEST SWITCH

1. Turn ignition switch OFF.
2. Disconnect malfunctioning front door request switch connector.
3. Check continuity between malfunctioning front door request switch terminals.

Front door request switch		Condition	Continuity	
Terminal				
1	2	Door request switch	Pressed	Yes
			Released	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace malfunctioning front door request switch.

# DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## DOOR SWITCH

### Component Function Check

INFOID:000000012783123

#### 1.CHECK FUNCTION

1. Select DOOR LOCK of BCM using CONSULT.
2. Select DOOR SW-DR, DOOR SW-AS, DOOR SW-RL and DOOR SW-RR in DATA MONITOR mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
DOOR SW-DR	Front door LH	Open	ON
		Closed	OFF
DOOR SW-AS	Front door RH	Open	ON
		Closed	OFF
DOOR SW-RL	Rear door LH	Open	ON
		Closed	OFF
DOOR SW-RR	Rear door RH	Open	ON
		Closed	OFF

Is the inspection result normal?

YES >> Door switch is OK.

NO >> Refer to [DLK-108, "Diagnosis Procedure"](#).

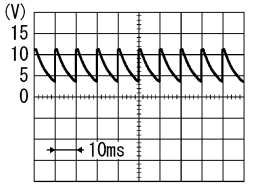
### Diagnosis Procedure

INFOID:000000012783124

Regarding Wiring Diagram information, refer to [DLK-49, "Wiring Diagram"](#).

#### 1.CHECK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect malfunctioning door switch connector.
3. Check signal between malfunctioning door switch harness connector and ground using oscilloscope.

(+)			(-)	Signal (Reference value)
Door switch				
Connector		Terminal	Ground	
Front door switch LH	B21	3		
Front door switch RH	B28	3		
Rear door switch LH	B26	3		
Rear door switch RH	B41	3		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

#### 2.CHECK DOOR SWITCH CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between door switch harness connector and BCM harness connector.



# DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Door switch		BCM		Continuity
Connector	Terminal	Connector	Terminal	
Front door switch LH	B21	3	B24	98
Front door switch RH	B28			100
Rear door switch LH	B26			97
Rear door switch RH	B41			99

3. Check continuity between door switch harness connector and ground.

Door switch		Terminal	Ground	Continuity
Connector	Terminal			
Front door switch LH	B21	3	Ground	No
Front door switch RH	B28			
Rear door switch LH	B26			
Rear door switch RH	B41			

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-78, "Removal and Installation"](#).

NO >> Repair or replace harness.

## 3.CHECK DOOR SWITCH

Refer to [DLK-109, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace malfunctioning door switch.

## 4.CHECK INTERMITTENT INCIDENT

Refer to [GI-41, "Intermittent Incident"](#).

>> Inspection End.

## Component Inspection

INFOID:000000012783125

### 1.CHECK DOOR SWITCH

1. Turn ignition switch OFF.
2. Disconnect malfunctioning door switch connector.
3. Check continuity between door switch terminals.

Door switch		Condition		Continuity	
Terminal	Terminal	Door switch			
Front door switch LH	3	Ground part of door switch	Door switch	Pressed	No
				Released	Yes
Front door switch RH				Pressed	No
				Released	Yes
Rear door switch LH	3	Ground part of door switch	Door switch	Pressed	No
Rear door switch RH				Released	Yes
				Pressed	No
				Released	Yes

Is the inspection result normal?

## DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

---

- YES >> Inspection End.
- NO >> Replace malfunction door switch.

# HAZARD FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## HAZARD FUNCTION

### Component Function Check

INFOID:000000012783126

#### 1.CHECK FUNCTION

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select FLASHER in ACTIVE TEST mode.
3. Touch LH or RH to check that it works normally.

Is the inspection result normal?

- YES >> Hazard warning lamp circuit is OK.  
NO >> Refer to [DLK-111, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000012783127

#### 1.CHECK HAZARD SWITCH CIRCUIT

Refer to [EXL-113, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 2.  
NO >> Repair or replace harness.

#### 2.CHECK INTERMITTENT INCIDENT

Refer to [GI-41, "Intermittent Incident"](#).

>> Inspection End.

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DLK

# INTELLIGENT KEY WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## INTELLIGENT KEY WARNING BUZZER

### Component Function Check

INFOID:000000013399310

#### 1.CHECK FUNCTION

1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
2. Select "OUTSIDE BUZZER" in "ACTIVE TEST" mode.
3. Touch "On" or "Off" to check that it works normally.

Is the inspection result normal?

- YES >> Intelligent Key warning buzzer is OK.  
NO >> Refer to [DLK-112, "Diagnosis Procedure"](#).

#### Diagnosis Procedure

INFOID:000000013399311

Regarding Wiring Diagram information, refer to [DLK-49, "Wiring Diagram"](#).

#### 1.CHECK FUSE

1. Turn ignition switch OFF.
2. Check 10 A fuse [No. 8, located in fuse block (J/B)].

Is the inspection result normal?

- YES >> GO TO 2.  
NO >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

#### 2.CHECK INTELLIGENT KEY WARNING BUZZER POWER SUPPLY CIRCUIT

1. Disconnect Intelligent Key warning buzzer connector.
2. Check voltage between Intelligent Key warning buzzer harness connector and ground.

(+)		(-)	Voltage (Approx.)
Intelligent Key warning buzzer			
Connector	Terminal	Ground	Battery voltage
E70	1		

Is the inspection result normal?

- YES >> GO TO 3.  
NO >> Repair or replace harness.

#### 3.CHECK INTELLIGENT KEY WARNING BUZZER CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and Intelligent Key warning buzzer harness connector.

BCM		Intelligent Key warning buzzer		Continuity
Connector	Terminal	Connector	Terminal	
M83	78	E70	3	Yes

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M83	78		No

Is the inspection result normal?

- YES >> GO TO 4.  
NO >> Repair or replace harness.

#### 4.CHECK INTELLIGENT KEY WARNING BUZZER

# INTELLIGENT KEY WARNING BUZZER

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

Refer to [DLK-113. "Component Inspection"](#).

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-78. "Removal and Installation"](#).

NO >> Replace Intelligent Key warning buzzer. Refer to [DLK-192. "Removal and Installation"](#).

## Component Inspection

INFOID:000000013399312

### 1. CHECK INTELLIGENT KEY WARNING BUZZER

1. Turn ignition switch OFF.
2. Disconnect Intelligent Key warning buzzer connector.
3. Connect battery power supply directly to Intelligent Key warning buzzer terminals and check the operation.

Intelligent Key warning buzzer		Operation
Terminal		
(+)	(-)	
1	3	Buzzer sounds

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace Intelligent Key warning buzzer. Refer to [DLK-192. "Removal and Installation"](#).

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## INTELLIGENT KEY

### Component Function Check

INFOID:000000012783128

**NOTE:**

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength.
- Confirm vehicle Intelligent Key antenna signal strength.

#### 1. CHECK FUNCTION

1. Select “INTELLIGENT KEY” of “BCM” using CONSULT.
2. Select “RKE OPE COUN1” in “DATA MONITOR” mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition
RKE OPE COUN1	Check that the numerical value is changing while operating on the Intelligent Key.

Is the inspection result normal?

- YES >> Intelligent Key is OK.  
 NO >> Refer to [DLK-114, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000012783129

**NOTE:**

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength.
- Confirm vehicle Intelligent Key antenna signal strength.

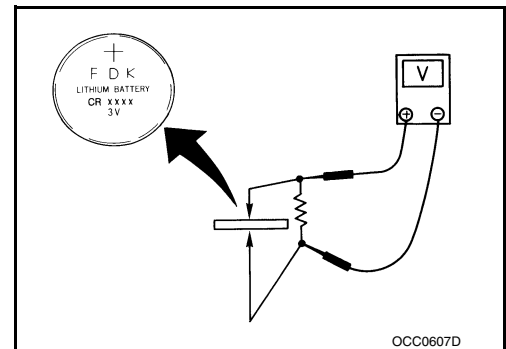
#### 1. CHECK INTELLIGENT KEY BATTERY

Check by connecting a resistance (approximately 300Ω) so that the current value becomes about 10 mA. Refer to [DLK-194, "Removal and Installation"](#).

**Standard : Approx. 2.5 - 3.0V**

Is the measurement value within the specification?

- YES >> Replace Intelligent Key.  
 NO >> Replace Intelligent Key battery.



# KEY WARNING LAMP

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## KEY WARNING LAMP

### Component Function Check

INFOID:000000012783130

#### 1.CHECK FUNCTION

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select INDICATOR in ACTIVE TEST mode.
3. Touch KEY IND or KEY ON to check that it works normally.

Is the inspection result normal?

- YES >> Key warning lamp is OK.  
NO >> Refer to [DLK-115. "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000012783131

#### 1.CHECK KEY WARNING LAMP

Refer to [DLK-30. "WARNING FUNCTION : System Description"](#).

Is the inspection result normal?

- YES >> GO TO 2.  
NO >> Repair or replace harness.

#### 2.CHECK INTERMITTENT INCIDENT

Refer to [GI-41. "Intermittent Incident"](#).

>> Inspection End.

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DLK

# REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## REMOTE KEYLESS ENTRY RECEIVER

### Component Function Check

INFOID:000000012783132

#### 1.CHECK FUNCTION

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select RKE OPE COUN1 in DATA MONITOR mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition
RKE OPE COUN1	Checks whether value changes when operating Intelligent Key

Is the inspection result normal?

- YES >> Remote keyless entry receiver is OK.  
NO >> Refer to [DLK-116, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000012783133

Regarding Wiring Diagram information, refer to [DLK-49, "Wiring Diagram"](#).

#### 1.CHECK REMOTE KEYLESS ENTRY RECEIVER OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between BCM harness connector and ground.

(+)		(-)	Condition	Signal (Reference value)	
BCM					
Connector	Terminal				
M84	38	Ground	Push-button ignition switch	OFF or ACC	0 V
				ON	Battery voltage

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-78, "Removal and Installation"](#).  
NO >> GO TO 2.

#### 2.CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT

1. Disconnect BCM and remote keyless entry receiver connectors.
2. Check continuity between BCM harness connector and remote keyless entry receiver harness connector.

BCM		Remote keyless entry receiver		Continuity
Connector	Terminal	Connector	Terminal	
M84	38	M91	2	Yes

3. Check continuity between BCM harness connector and ground.

(+)		(-)	Continuity
BCM			
Connector	Terminal		
M84	38	Ground	No

Is the inspection result normal?

- YES >> GO TO 3.  
NO >> Repair or replace harness.

#### 3.CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLY



# REMOTE KEYLESS ENTRY RECEIVER

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

Check voltage between remote keyless entry receiver harness connector and ground.

(+)		(-)	Voltage Approx.
Remote keyless entry receiver			
Connector	Terminal	Ground	Battery voltage
M91	1		

Is the inspection result normal?

YES >> GO TO 4.

NO-1 >> Check 10A fuse No. 14 [located in fuse block J/B].

NO-2 >> Repair or replace harness between remote keyless entry receiver and 10A fuse No. 14.

## 4. CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

Check continuity between remote keyless entry receiver harness connector and ground.

Remote keyless entry receiver		Ground	Continuity
Connector	Terminal		
M91	4		Yes

Is the inspection result normal?

YES >> Replace remote keyless entry receiver. Refer to [DLK-193. "Removal and Installation"](#).

NO >> Repair or replace harness.

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# SHIFT P WARNING LAMP

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## SHIFT P WARNING LAMP

### Component Function Check

INFOID:000000012783134

#### 1.CHECK FUNCTION

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select LCD in ACTIVE TEST mode.
3. Touch SET P to check that it works normally.

Is the inspection result normal?

- YES >> Shift P warning lamp is OK.  
NO >> Refer to [DLK-118, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000012783135

#### 1.CHECK SHIFT P WARNING LAMP

Refer to [TM-244, "Component Parts Function Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 2.  
NO >> Repair or replace the malfunctioning parts.

#### 2.CHECK INTERMITTENT INCIDENT

Refer to [GI-41, "Intermittent Incident"](#).

>> Inspection End.

# TRUNK LID OPENER ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## TRUNK LID OPENER ACTUATOR

### Component Function Check

INFOID:000000012783136

#### 1. CHECK FUNCTION

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select TRUNK/GLASS HATCH in ACTIVE TEST mode.
3. Touch OPEN to check that it works normally.

Is the inspection result normal?

- YES >> Trunk lid opener actuator is OK.  
NO >> Refer to [DLK-119, "Diagnosis Procedure"](#).

#### Diagnosis Procedure

INFOID:000000012783137

Regarding Wiring Diagram information, refer to [DLK-63, "Wiring Diagram"](#).

#### 1. CHECK TRUNK LID OPENER INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect trunk lid opener assembly connector.
3. Check voltage between trunk lid opener assembly harness connector and ground.

(+)		(-)	Condition	Voltage (Approx.)
Trunk lid opener assembly Connector	Terminal			
B59	3	Ground	Trunk lid opener switch is ON	Battery voltage

Is the inspection result normal?

- YES >> GO TO 3.  
NO >> GO TO 2.

#### 2. CHECK TRUNK LID OPENER ACTUATOR CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and trunk lid opener assembly harness connector.

BCM		Trunk lid opener assembly		Continuity
Connector	Terminal	Connector	Terminal	
B24	107	B59	3	Yes

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
B24	107		No

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-78, "Removal and Installation"](#).  
NO >> Repair or replace harness.

#### 3. CHECK TRUNK LID OPENER ACTUATOR GROUND CIRCUIT

Check continuity between trunk lid opener assembly harness connector and ground.

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# TRUNK LID OPENER ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Trunk lid opener assembly		Ground	Continuity
Connector	Terminal		
B59	2		Yes

Is the inspection normal?

YES >> Replace trunk lid opener assembly.

NO >> Repair or replace harness.

# TRUNK LID OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## TRUNK LID OPENER SWITCH

### Component Function Check

INFOID:000000012783138

#### 1. CHECK FUNCTION

1. Select TRUNK of BCM using CONSULT.
2. Select TR/BD OPEN SW in DATA MONITOR mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
TR/BD OPEN SW	Trunk lid opener switch	Pressed	On
		Released	Off

Is the inspection result normal?

- YES >> Trunk lid opener switch is OK.  
 NO >> Refer to [DLK-121, "Diagnosis Procedure"](#).

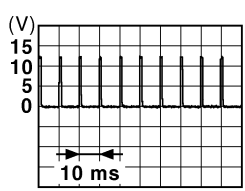
### Diagnosis Procedure

INFOID:000000012783139

Regarding Wiring Diagram information, refer to [DLK-63, "Wiring Diagram"](#).

#### 1. CHECK TRUNK LID OPENER INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect trunk lid opener switch connector.
3. Check signal between trunk lid opener switch harness connector and ground using oscilloscope.

(+)		(-)	Signal (Reference value)
Connector	Terminal		
M15	1	Ground	 <p>15 10 5 0</p> <p>10 ms</p> <p>JPMIA0012GB</p>

Is the inspection result normal?

- YES >> GO TO 3.  
 NO >> GO TO 2.

#### 2. CHECK TRUNK LID OPENER SWITCH CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and trunk lid opener switch harness connector.

BCM		Trunk lid opener switch		Continuity
Connector	Terminal	Connector	Terminal	
M84	30	M15	1	Yes

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M84	30		No

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# TRUNK LID OPENER SWITCH

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-78. "Removal and Installation"](#).

NO >> Repair or replace harness.

## 3. CHECK TRUNK LID OPENER SWITCH GROUND CIRCUIT

Check continuity between trunk lid opener switch harness connector and ground.

Trunk lid opener switch		Ground	Continuity
Connector	Terminal		
M15	2		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

## 4. CHECK TRUNK LID OPENER SWITCH

Refer to [DLK-122. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace trunk lid opener switch.

## 5. CHECK INTERMITTENT INCIDENT

Refer to [GI-41. "Intermittent Incident"](#).

>> Inspection End.

## Component Inspection

INFOID:0000000012783140

## 1. CHECK TRUNK LID OPENER SWITCH

1. Turn ignition switch OFF.
2. Disconnect trunk lid opener switch connector.
3. Check continuity between trunk lid opener switch terminals.

Trunk lid opener switch		Condition		Continuity
Terminal		Trunk lid opener switch		
1	2		Pressed	Yes
		Release	No	

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace trunk lid opener switch.

# TRUNK LAMP SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## TRUNK LAMP SWITCH

### Description

INFOID:000000012783141

Detects trunk open/close condition.

### Component Function Check

INFOID:000000012783142

#### 1.CHECK FUNCTION

##### With CONSULT

Check TRNK/HAT MNTR in Data Monitor mode with CONSULT.

Monitor item	Condition
TRNK/HAT MNTR	OPEN : ON
	CLOSE : OFF

##### Is the inspection result normal?

YES >> Trunk lid switch is OK.

NO >> Refer to [DLK-123, "Diagnosis Procedure"](#).

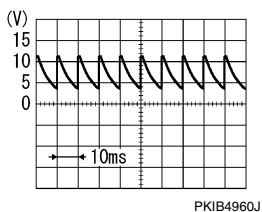
### Diagnosis Procedure

INFOID:000000012783143

Regarding Wiring Diagram information, refer to [DLK-63, "Wiring Diagram"](#).

#### 1.CHECK TRUNK LID SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between BCM connector and ground.

Terminals		Trunk condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	OPEN	0
B24	103	CLOSE	 7.0 - 8.0V

##### Is the inspection result normal?

YES >> GO TO 6

NO >> GO TO 2

#### 2.CHECK TRUNK LID SWITCH CIRCUIT

1. Disconnect BCM and trunk lid opener assembly connector.
2. Check continuity between BCM connector and trunk lid opener assembly connector.

BCM connector	Terminal	Trunk lid opener assembly connector	Terminal	Continuity
B24	103	B59	1	Yes

3. Check continuity between BCM connector and ground.

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# TRUNK LAMP SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BCM connector	Terminal	Ground	Continuity
B24	103		No

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness between BCM and trunk lid opener assembly.

## 3.CHECK TRUNK LID SWITCH GROUND CIRCUIT

Check continuity between trunk lid opener assembly connector and ground.

Trunk lid opener assembly connector	Terminal	Ground	Continuity
B59	2		Yes

Is the inspection result normal?

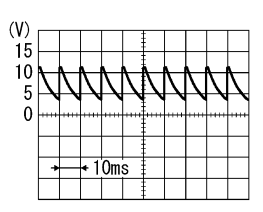
YES >> GO TO 4

NO >> Repair or replace trunk lid opener assembly ground circuit.

## 4.CHECK BCM OUTPUT SIGNAL

1. Ensure trunk lid remains closed during this step.
2. Connect BCM connector.
3. Check voltage between BCM connector and ground.

Terminals		Voltage (V) (Approx.)
(+)	(-)	
BCM connector	Terminal	
B24	103	Ground



7.0 - 8.0V

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace BCM. Refer to [BCS-78, "Removal and Installation"](#).

## 5.CHECK TRUNK LID SWITCH

Refer to [DLK-124, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6

NO >> Replace trunk lid opener assembly.

## 6.CHECK INTERMITTENT INCIDENT

Refer to [GI-41, "Intermittent Incident"](#).

>> Inspection End.

## Component Inspection

INFOID:000000012783144

### 1.CHECK TRUNK LID SWITCH

1. Turn ignition switch OFF.
2. Disconnect trunk lid opener assembly connector.
3. Check trunk lid switch.



# TRUNK LAMP SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Terminal		Trunk condition	Continuity
Trunk lid switch			
1	2	OPEN	Yes
		CLOSE	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace trunk lid opener assembly.

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# INTELLIGENT KEY SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## SYMPTOM DIAGNOSIS

### INTELLIGENT KEY SYSTEM SYMPTOMS

#### Diagnosis Procedure

INFOID:0000000013372757

**NOTE:**

Perform the self-diagnosis with CONSULT before the symptom diagnosis. Perform the trouble diagnosis if any DTC is detected.

**SYMPTOM TABLE 1 (BOTH INTELLIGENT KEYS HAVE THE SAME SYMPTOMS)**

No.	Door lock operation (remote keyless entry)	Door lock operation (request switch) or trunk open operation (opener switch)	Engine started with push-button ignition switch operation (registered Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)	Symptom
1	OK	OK	No start	No start	<a href="#">SEC-134</a>
2	OK	NG	OK	OK	<a href="#">DLK-127</a>
3	OK	NG	No crank, No start	OK	<a href="#">DLK-129</a>
4	NG	NG	No crank, No start	OK	<a href="#">DLK-131</a>
5	NG	NG	No start	No start	<a href="#">DLK-132</a>
6	OK	OK	No crank, No start	OK	<a href="#">SEC-135</a>
7	NG	OK	OK	OK	<a href="#">DLK-134</a>
8	NG	NG	OK	OK	<a href="#">DLK-135</a>
9	Poor range	OK	OK	OK	<a href="#">DLK-136</a>

**SYMPTOM TABLE 2 (ONE INTELLIGENT KEY HAS THE SYMPTOM, OTHER KEYS OPERATE NORMALLY)**

No.	Door lock operation (remote keyless entry)	Door lock operation (request switch) or trunk open operation (opener switch)	Engine started with push-button ignition switch operation (Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)	Symptom
1	NG	OK	OK	OK	<a href="#">DLK-138</a>
2	NG	NG	No crank, No start	OK	<a href="#">DLK-139</a>
3	NG	NG	No crank, No start	No crank, No start	<a href="#">DLK-141</a>
4	OK	OK	No crank, No start	No crank, No start	<a href="#">SEC-137</a>
5	OK	NG	No crank, No start	OK	<a href="#">SEC-138</a>
6	Poor range	OK	OK	OK	<a href="#">DLK-143</a>

# ALL DOORS DO NOT LOCK/UNLOCK OR TRUNK/BACK DOOR DO NOT OPEN WITH REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## ALL DOORS DO NOT LOCK/UNLOCK OR TRUNK/BACK DOOR DO NOT OPEN WITH REQUEST SWITCH

### Description

INFOID:000000013372758

All doors do not lock/unlock using front door request switch or trunk lid does not open using trunk lid opener request switch.

#### NOTE:

Before starting diagnosis check that vehicle condition is as shown in "Conditions of vehicle", and check each symptom.

### SYMPTOM TABLE (BOTH INTELLIGENT KEYS HAVE THE SAME SYMPTOMS)

Door lock operation (remote keyless entry)	Door lock operation (request switch) or trunk open operation (opener switch)	Engine started with push-button ignition switch operation (registered Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
OK	NG	OK	OK

### CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

- "LOCK/UNLOCK BY I-KEY" setting in "Work support" mode of "INTELLIGENT KEY" of "BCM" is ON.
- Registered Intelligent Key is within the detection area of outside key antenna.

### DIAGNOSIS PROCEDURE

Refer to [DLK-127, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000013372759

#### 1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.  
Refer to [DLK-126, "Diagnosis Procedure"](#).

>> GO TO 2.

#### 2. PERFORM SELF-DIAGNOSIS RESULT

Select "Self Diagnostic Result" mode of "BCM", and check if DTC is detected.

Is DTC detected?

- YES >> Perform the trouble diagnosis for detected DTC.
- NO >> GO TO 3.

#### 3. CHECK OUTSIDE KEY ANTENNA

Use SIGNAL TECH II to check each outside key antenna. For the inspection method and how to use SIGNAL TECH II, refer to "NISSAN/INFINITI SIGNAL TECH II USER GUIDE".

Is the inspection result normal?

- YES >> GO TO 4.
- NO >> GO TO 5.

#### 4. CHECK INTELLIGENT KEY OUTPUT SIGNAL

Use SIGNAL TECH II to check Intelligent Key outside signal. For the inspection method and how to use SIGNAL TECH II, refer to "NISSAN/INFINITI SIGNAL TECH II USER GUIDE".

Is the inspection result normal?

- YES >> GO TO 6.
- NO >> Replace the malfunctioning outside key antenna. Refer to [DLK-190, "DRIVER SIDE : Removal and Installation"](#) (Driver side), [DLK-190, "PASSENGER SIDE : Removal and Installation"](#) (Passenger side) and [DLK-190, "REAR BUMPER : Removal and Installation"](#) (Rear bumper).

#### 5. CHECK DOOR REQUEST SWITCH

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# ALL DOORS DO NOT LOCK/UNLOCK OR TRUNK/BACK DOOR DO NOT OPEN WITH REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Check each door request switch.

- Front door: Refer to [DLK-106, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts. Refer to [DLK-168, "FRONT DOOR HANDLE : Removal and Installation - Outside Handle"](#).

## 6. REPLACE BCM

1. Replace BCM. Refer to [BCS-78, "Removal and Installation"](#).

2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

# DOOR DOES NOT LOCK/UNLOCK AND ENGINE DOES NOT START (REQ SW/PUSH SW) (ALL KEYS)

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## DOOR DOES NOT LOCK/UNLOCK AND ENGINE DOES NOT START (REQ SW/PUSH SW) (ALL KEYS)

### Description

INFOID:000000013372760

All doors do not lock/unlock using door request switch or trunk lid does not open using trunk lid opener request switch, and engine does not start when push-button ignition switch is pressed while carrying Intelligent Key.

#### NOTE:

Before starting diagnosis check that vehicle condition is as shown in "Conditions of vehicle", and check each symptom.

### SYMPTOM TABLE (BOTH INTELLIGENT KEYS HAVE THE SAME SYMPTOMS)

Door lock operation (remote keyless entry)	Door lock operation (request switch) or trunk open operation (opener switch)	Engine started with push-button ignition switch operation (registered Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
OK	NG	No crank, No start	OK

### CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

- "LOCK/UNLOCK BY I-KEY" setting in "Work support" mode of "INTELLIGENT KEY" of "BCM" is ON.
- "ENGINE START BY I-KEY" setting in "Work support" mode of "INTELLIGENT KEY" of "BCM" is ON.

### DIAGNOSIS PROCEDURE

Refer to [DLK-129, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000013372761

#### 1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.  
Refer to [DLK-126, "Diagnosis Procedure"](#).

>> GO TO 2.

#### 2. CHECK OUTSIDE KEY ANTENNA AND INSIDE KEY ANTENNA

Use SIGNAL TECH II to check each outside key antenna and inside key antenna. For the inspection method and how to use SIGNAL TECH II, refer to "NISSAN/INFINITI SIGNAL TECH II USER GUIDE".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

#### 3. REGISTER INTELLIGENT KEY

1. Register the Intelligent Key again.
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 4.

#### 4. REPLACE INTELLIGENT KEY

1. Replace the Intelligent Key and perform registration again.
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 5.

#### 5. REPLACE BCM

1. Replace BCM. Refer to [BCS-78, "Removal and Installation"](#).

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# DOOR DOES NOT LOCK/UNLOCK AND ENGINE DOES NOT START (REQ SW/ PUSH SW) (ALL KEYS)

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

# DOOR DOES NOT LOCK/UNLOCK AND ENGINE DOES NOT START (ALL I-KEY/REQ SW/PUSH SW)

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## DOOR DOES NOT LOCK/UNLOCK AND ENGINE DOES NOT START (ALL I-KEY/REQ SW/PUSH SW)

### Description

INFOID:000000013372762

All doors do not lock/unlock using door request switch or trunk lid does not open using trunk lid opener request switch, Intelligent Key, and engine does not start when push-button ignition switch is pressed while carrying Intelligent Key.

### SYMPTOM TABLE (BOTH INTELLIGENT KEYS HAVE THE SAME SYMPTOMS)

Door lock operation (remote keyless entry)	Door lock operation (request switch) or trunk open operation (opener switch)	Engine started with push-button ignition switch operation (registered Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
NG	NG	No crank, No start	OK

### CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

"ENGINE START BY I-KEY" setting in "Work support" mode of "INTELLIGENT KEY" of "BCM" is ON.

### DIAGNOSIS PROCEDURE

Refer to [DLK-131, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000013372763

#### 1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to [DLK-126, "Diagnosis Procedure"](#).

>> GO TO 2.

#### 2. PERFORM SELF-DIAGNOSIS RESULT

Select "Self Diagnostic Result" mode of "BCM", and check if DTC "B26FF" is detected.

Is DTC "B26FF" detected?

YES >> Perform the trouble diagnosis for detected DTC.

NO >> GO TO 3.

#### 3. CHECK INTELLIGENT KEY BATTERY

Check Intelligent Key battery.

Refer to [DLK-114, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts. Refer to [DLK-194, "Removal and Installation"](#).

#### 4. CHECK REMOTE KEYLESS ENTRY RECEIVER

Check remote keyless entry receiver.

Refer to [DLK-116, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts. Refer to [DLK-193, "Removal and Installation"](#).

#### 5. REPLACE BCM

1. Replace BCM. Refer to [BCS-78, "Removal and Installation"](#).

2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

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# INTELLIGENT KEY SYSTEM ALL FUNCTIONS CANNOT OPERATE (ALL KEYS) < SYMPTOM DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]

## INTELLIGENT KEY SYSTEM ALL FUNCTIONS CANNOT OPERATE (ALL KEYS)

### Description

INFOID:000000013372764

Intelligent Key system all functions cannot operate (door lock and engine start).

SYMPTOM TABLE (BOTH INTELLIGENT KEYS HAVE THE SAME SYMPTOMS)

Door lock operation (remote keyless entry)	Door lock operation (request switch) or trunk open operation (opener switch)	Engine started with push-button ignition switch operation (registered Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
NG	NG	No start	No start

### CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

“ENGINE START BY I-KEY” setting in “Work support” mode of “INTELLIGENT KEY” of “BCM” is ON.

### DIAGNOSIS PROCEDURE

Refer to [DLK-132, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000013372765

#### 1.CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to [DLK-126, "Diagnosis Procedure"](#).

>> GO TO 2.

#### 2.CHECK INTELLIGENT KEY-1

For both Intelligent Key that cannot be used for door lock and unlock, check that the Intelligent Key belongs to the vehicle to be checked.

- Check if the Intelligent Key that is checked is the Intelligent Key for a different NISSAN/INFINITI vehicle that the user owns.
- Check that the Intelligent Key buttons match the vehicle specifications.

Does the Intelligent Key belong to the vehicle to be checked?

YES >> GO TO 3.

NO >> Check Intelligent Key button operation using a registered Intelligent Key that belongs to the vehicle.

#### 3.CHECK INTELLIGENT KEY-2

Check the inside of the both Intelligent Keys for rust or corrosion by water. Simultaneously check the internal circuits for damage.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace Intelligent Key.

#### 4.REGISTER INTELLIGENT KEY

1. Register the Intelligent Key again.
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 5.

#### 5.REPLACE INTELLIGENT KEY

1. Replace the Intelligent Key and perform registration again.
2. Check operation after replacement.



# INTELLIGENT KEY SYSTEM ALL FUNCTIONS CANNOT OPERATE (ALL KEYS)

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 6.

## 6.REPLACE BCM

1. Replace BCM. Refer to [BCS-78, "Removal and Installation"](#).

2. Check the operation after replacement.

Is the inspection result normal?

YES >> Inspection End

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

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# DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

### Description

INFOID:000000013372766

All doors do not lock/unlock using Intelligent Key button.

#### NOTE:

Before starting diagnosis check that vehicle condition is as shown in "Conditions of vehicle", and check each symptom.

### SYMPTOM TABLE (BOTH INTELLIGENT KEYS HAVE THE SAME SYMPTOMS)

Door lock operation (remote keyless entry)	Door lock operation (request switch) or trunk open operation (opener switch)	Engine started with push-button ignition switch operation (registered Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
NG	OK	OK	OK

### CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

Registered Intelligent Key is within the detection area of remote keyless entry receiver.

### DIAGNOSIS PROCEDURE

Refer to [DLK-134. "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000013372767

#### 1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to [DLK-126. "Diagnosis Procedure"](#).

>> GO TO 2.

#### 2. CHECK INTELLIGENT KEY OUTPUT SIGNAL

Use SIGNAL TECH II to check Intelligent Key output signal. For the inspection method and how to use SIGNAL TECH II, refer to "NISSAN/INFINITI SIGNAL TECH II USER GUIDE".

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-78. "Removal and Installation"](#).
- NO >> Replace Intelligent Key.

# DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH AND INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH AND INTELLIGENT KEY

### Description

INFOID:0000000013372768

All doors do not lock/unlock using door request switch or trunk lid does not open using trunk lid opener request switch or Intelligent Key button.

SYMPTOM TABLE (BOTH INTELLIGENT KEYS HAVE THE SAME SYMPTOMS)

Door lock operation (remote keyless entry)	Door lock operation (request switch) or trunk open operation (opener switch)	Engine started with push-button ignition switch operation (registered Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
NG	NG	OK	OK

### DIAGNOSIS PROCEDURE

Refer to [DLK-135. "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:0000000013372769

#### 1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to [DLK-126. "Diagnosis Procedure"](#).

>> GO TO 2.

#### 2. CHECK POWER DOOR LOCK OPERATION

Check door lock/unlock using door lock and unlock switch.

Does door lock/unlock using door lock and unlock switch?

YES >> GO TO 3.

NO >> Refer to [DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH].

#### 3. REPLACE BCM

1. Replace BCM. Refer to [BCS-78. "Removal and Installation"](#).

2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41. "Intermittent Incident"](#).

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# INTELLIGENT KEY BUTTON OPERATION HAS POOR RANGE (ALL KEYS)

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## INTELLIGENT KEY BUTTON OPERATION HAS POOR RANGE (ALL KEYS)

### Description

INFOID:000000013372770

Intelligent Key button operation has poor range.

SYMPTOM TABLE (BOTH INTELLIGENT KEYS HAVE THE SAME SYMPTOMS)

Door lock operation (remote keyless entry)	Door lock operation (request switch) or trunk open operation (opener switch)	Engine started with push-button ignition switch operation (registered Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
Poor range	OK	OK	OK

### DIAGNOSIS PROCEDURE

Refer to [DLK-136, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000013372771

#### 1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to [DLK-126, "Diagnosis Procedure"](#).

>> GO TO 2.

#### 2. CHECK INTELLIGENT KEY LOW BATTERY WARNING

Check that the Intelligent Key low battery warning operates.

Is the Intelligent Key low battery warning operated?

YES >> GO TO 3.

NO >> Replace Intelligent Key battery. Refer to [DLK-194, "Removal and Installation"](#).

#### 3. CHECK INTELLIGENT KEY BATTERY

Check the Intelligent Key battery.

Refer to [DLK-114, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace Intelligent Key battery. Refer to [DLK-194, "Removal and Installation"](#).

#### 4. PERFORM SELF-DIAGNOSIS RESULT-1

Select "Self Diagnostic Result" mode of "BCM", and check if DTC "B26FF" is detected.

Is DTC "B26FF" detected?

YES >> Perform the trouble diagnosis for detected DTC.

NO >> GO TO 5.

#### 5. REMOTE AFTERMARKET DEVICE

1. If the vehicle is equipped with any interference-generating aftermarket device such as a vehicle security system, charger and remote engine starter etc., remove them.

2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 6.

#### 6. CHECK REMOTE KEYLESS ENTRY RECEIVER

Check remote keyless entry receiver.

Refer to [DLK-116, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 7.

# INTELLIGENT KEY BUTTON OPERATION HAS POOR RANGE (ALL KEYS)

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

NO >> Repair or replace the malfunctioning parts.

## 7. REPLACE BCM

1. Replace BCM. Refer to [BCS-78, "Removal and Installation"](#).
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

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# DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY (ONE KEY)

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY (ONE KEY)

### Description

INFOID:000000013372772

All doors do not lock/unlock using Intelligent Key button. (One Intelligent Key has the symptom, other keys operate normally.)

#### NOTE:

Before starting diagnosis check that vehicle condition is as shown in "Conditions of vehicle", and check each symptom.

SYMPTOM TABLE (ONE INTELLIGENT KEY HAS THE SYMPTOM, OTHER KEYS OPERATE NORMALLY)

Door lock operation (remote keyless entry)	Door lock operation (request switch) or trunk open operation (opener switch)	Engine started with push-button ignition switch operation (Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
NG	OK	OK	OK

### DIAGNOSIS PROCEDURE

Refer to [DLK-138. "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000013372773

#### 1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to [DLK-126. "Diagnosis Procedure"](#).

>> GO TO 2.

#### 2. CHECK INTELLIGENT KEY OUTPUT SIGNAL

Use SIGNAL TECH II to check Intelligent Key output signal. For the inspection method and how to use SIGNAL TECH II, refer to "NISSAN/INFINITI SIGNAL TECH II USER GUIDE".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace Intelligent Key.

#### 3. REGISTER INTELLIGENT KEY

1. Register the Intelligent Key again.

2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 4.

#### 4. REPLACE INTELLIGENT KEY

1. Replace the Intelligent Key and perform registration again.

2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 5.

#### 5. REPLACE BCM

1. Replace BCM. Refer to [BCS-78. "Removal and Installation"](#).

2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41. "Intermittent Incident"](#).

# DOOR DOES NOT LOCK/UNLOCK AND ENGINE DOES NOT START (ONE I-KEY/REQ SW/PUSH SW)

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## DOOR DOES NOT LOCK/UNLOCK AND ENGINE DOES NOT START (ONE I-KEY/REQ SW/PUSH SW)

### Description

INFOID:000000013372774

All doors do not lock/unlock using door request switch or trunk lid does not open using trunk lid opener request switch, Intelligent Key, and engine does not start when push-button ignition switch is pressed while carrying Intelligent Key. (One Intelligent Key has the symptom, other keys operate normally.)

SYMPTOM TABLE (ONE INTELLIGENT KEY HAS THE SYMPTOM, OTHER KEYS OPERATE NORMALLY)

Door lock operation (remote keyless entry)	Door lock operation (request switch) or trunk open operation (opener switch)	Engine started with push-button ignition switch operation (Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
NG	NG	No crank, No start	OK

### DIAGNOSIS PROCEDURE

Refer to [DLK-139, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000013372775

#### 1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to [DLK-126, "Diagnosis Procedure"](#).

>> GO TO 2.

#### 2. CHECK INTELLIGENT KEY

Check the inside of the Intelligent Key for rust or corrosion by water. Simultaneously check the internal circuits for damage. Squeeze, twist or bend the Intelligent Key and check the functionality again. Is the Intelligent Key operating normally?

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace Intelligent Key.

#### 3. CHECK INTELLIGENT KEY BATTERY

Check the Intelligent Key battery.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace Intelligent Key battery. Refer to [DLK-194, "Removal and Installation"](#).

#### 4. REGISTER INTELLIGENT KEY

1. Register the Intelligent Key again.
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 5.

#### 5. REPLACE INTELLIGENT KEY

1. Replace the Intelligent Key and perform registration again.
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 6.

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# DOOR DOES NOT LOCK/UNLOCK AND ENGINE DOES NOT START (ONE I-KEY/REQ SW/PUSH SW)

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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## 6. REPLACE BCM

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1. Replace BCM. Refer to [BCS-78, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).



# INTELLIGENT KEY SYSTEM ALL FUNCTIONS CANNOT OPERATE (ONE KEY) [WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

## INTELLIGENT KEY SYSTEM ALL FUNCTIONS CANNOT OPERATE (ONE KEY)

### Description

INFOID:000000013372776

Intelligent Key system all functions cannot operate (door lock and engine start). (One Intelligent Key has the symptom, other keys operate normally.)

SYMPTOM TABLE (ONE INTELLIGENT KEY HAS THE SYMPTOM, OTHER KEYS OPERATE NORMALLY)

Door lock operation (remote keyless entry)	Door lock operation (request switch) or trunk open operation (opener switch)	Engine started with push-button ignition switch operation (Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
NG	NG	No crank, No start	No crank, No start

### DIAGNOSIS PROCEDURE

Refer to [DLK-141, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000013372777

#### 1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.  
Refer to [DLK-126, "Diagnosis Procedure"](#).

>> GO TO 2.

#### 2. CHECK INTELLIGENT KEY-1

For Intelligent Key that cannot be used for door lock and unlock, check that the Intelligent Key belongs to the vehicle to be checked.

Does the Intelligent Key belong to the vehicle to be checked?

YES >> GO TO 3.

NO >> Check Intelligent Key button operation using a registered Intelligent Key that belongs to the vehicle.

#### 3. CHECK INTELLIGENT KEY-2

Check the inside of the Intelligent Key for rust or corrosion by water. Simultaneously check the internal circuits for damage.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace Intelligent Key.

#### 4. REGISTER INTELLIGENT KEY

1. Register the Intelligent Key again.
2. Check the operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 5.

#### 5. REPLACE INTELLIGENT KEY

1. Replace the Intelligent Key and perform registration again.
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 6.

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**INTELLIGENT KEY SYSTEM ALL FUNCTIONS CANNOT OPERATE (ONE KEY)**  
**< SYMPTOM DIAGNOSIS >** **[WITH INTELLIGENT KEY SYSTEM]**

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**6**.REPLACE BCM

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1. Replace BCM. Refer to [BCS-78, "Removal and Installation"](#).
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).

# INTELLIGENT KEY BUTTON OPERATION HAS POOR RANGE (ONE KEY)

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## INTELLIGENT KEY BUTTON OPERATION HAS POOR RANGE (ONE KEY)

### Description

INFOID:000000013372778

Intelligent Key button operation has poor range. (One Intelligent Key has the symptom, other keys operate normally.)

SYMPTOM TABLE (ONE INTELLIGENT KEY HAS THE SYMPTOM, OTHER KEYS OPERATE NORMALLY)

Door lock operation (remote keyless entry)	Door lock operation (request switch) or trunk open operation (opener switch)	Engine started with push-button ignition switch operation (Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
Poor range	OK	OK	OK

### DIAGNOSIS PROCEDURE

Refer to [DLK-143, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000013372779

#### 1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to [DLK-126, "Diagnosis Procedure"](#).

>> GO TO 2.

#### 2. CHECK INTELLIGENT KEY LOW BATTERY WARNING

Check that the Intelligent Key low battery warning operates.

Is the Intelligent Key low battery warning operated?

YES >> Replace Intelligent Key battery. Refer to [DLK-194, "Removal and Installation"](#).

NO >> GO TO 3.

#### 3. CHECK INTELLIGENT KEY BATTERY

Check the Intelligent Key battery.

Is the inspection result normal?

YES >> Replace Intelligent Key and register new Intelligent Key.

NO >> Replace Intelligent Key battery. Refer to [DLK-194, "Removal and Installation"](#).

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< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

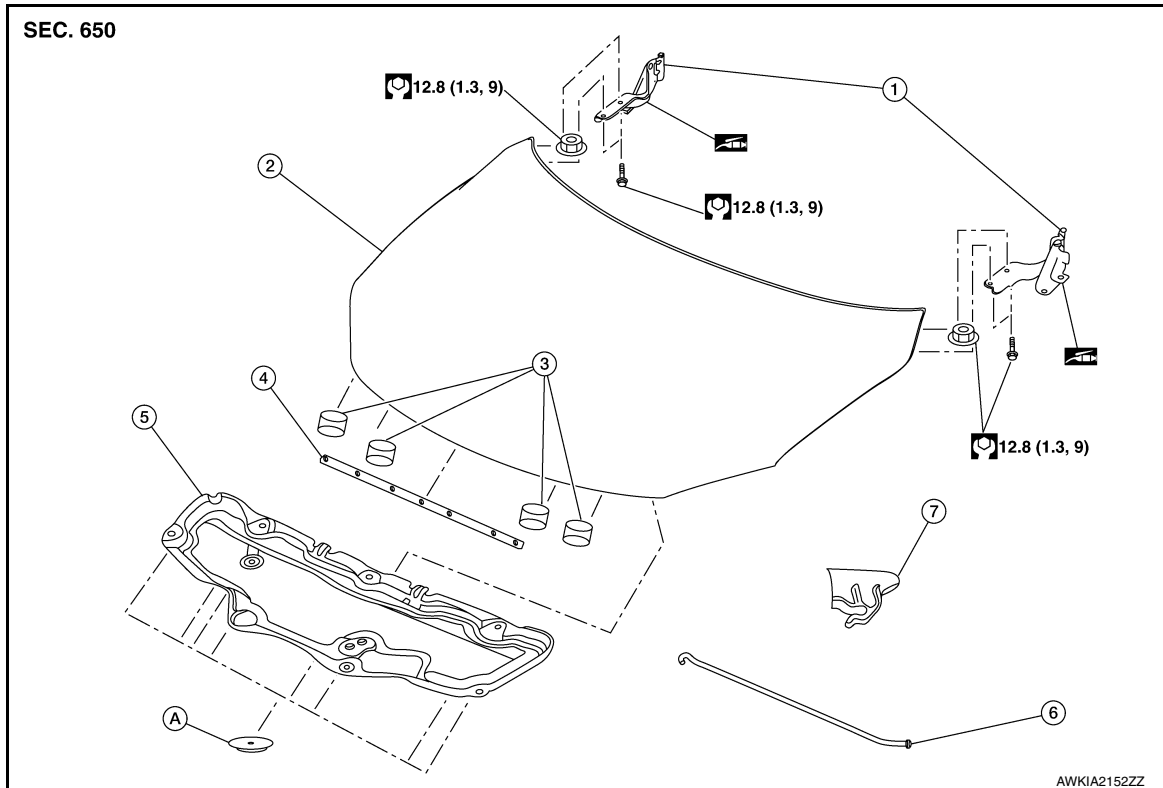
## REMOVAL AND INSTALLATION

HOOD

HOOD ASSEMBLY

HOOD ASSEMBLY : Exploded View

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- |                           |                   |                       |
|---------------------------|-------------------|-----------------------|
| 1. Hood hinge (LH/RH)     | 2. Hood assembly  | 3. Hood bumper rubber |
| 4. Hood seal              | 5. Hood insulator | 6. Hood support rod   |
| 7. Hood support rod clamp | A. Clip           |                       |

## HOOD ASSEMBLY : Removal and Installation

INFOID:0000000012783185

### CAUTION:

- Use two people when removing or installing hood assembly due to its heavy weight.
- Use protective tape or shop cloths to protect surrounding components from damage during removal and installation of hood assembly.

### REMOVAL

1. Support the hood assembly using a suitable tool.

### WARNING:

**Bodily injury may occur if hood assembly is not supported properly when removing hood assembly.**

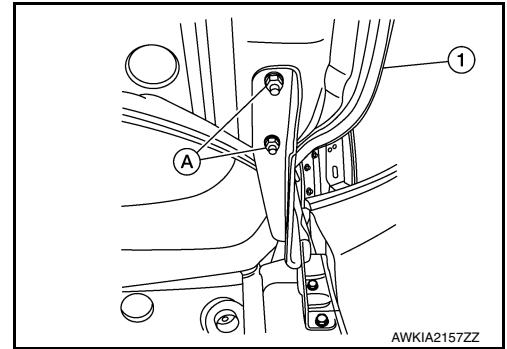
2. Disconnect front washer nozzle and tube.

# HOOD

## < REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

- Remove hood hinge to hood nuts (A) and then remove the hood assembly (1).



## INSTALLATION

Installation is in the reverse order of removal.

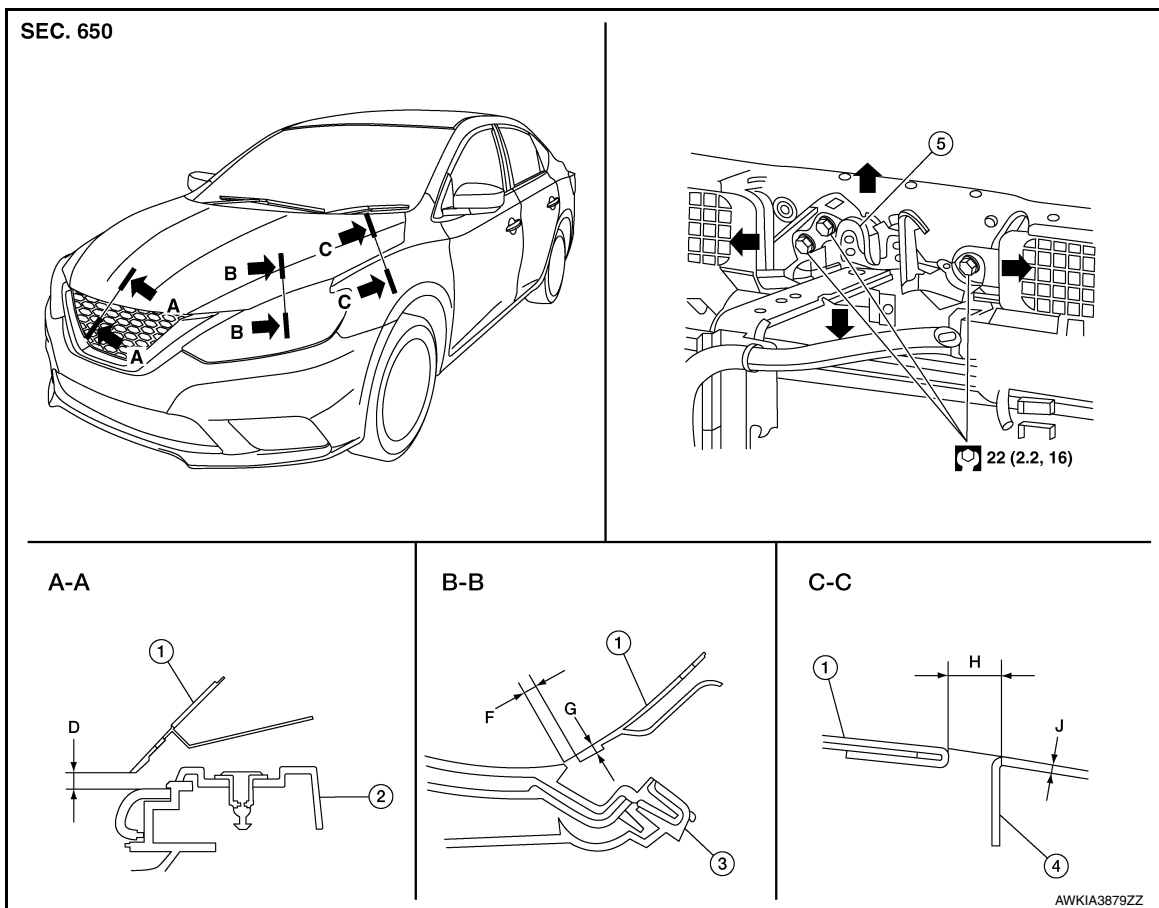
Tighten hood hinge to hood nuts to specified torque. Refer to [DLK-144, "HOOD ASSEMBLY : Exploded View"](#).

### CAUTION:

- Before installing the hood hinge, apply anticorrosive agent onto the surface of the vehicle.
- After installation, perform the hood assembly adjustment procedure. Refer to [DLK-145, "HOOD ASSEMBLY : Adjustment"](#).

## HOOD ASSEMBLY : Adjustment

INFOID:000000012783186



- Hood assembly
- Front grille

- Front combination lamp
- Hood lock assembly

- Front fender

Check the clearance and the surface height between hood and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedures.

# HOOD

## < REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

Unit: mm (in)

Section	Item	Measurement	Standard	Parallelism	Equality
A – A	D	Clearance	6.2 ±2.3 (0.24 ±0.09)	<2.0	—
B – B	F	Clearance	3.5 ±2.4 (0.14 ±0.09)	<2.0	<3.0
	G	Surface height	0.7 ±2.0 (0.03 ±0.08)	<2.0	<2.0
C – C	H	Clearance	3.7 ±1.0 (0.15 ±0.04)	<2.0	<2.0
	J	Surface height	0.0 ±1.0 (0.00 ±0.04)	—	—

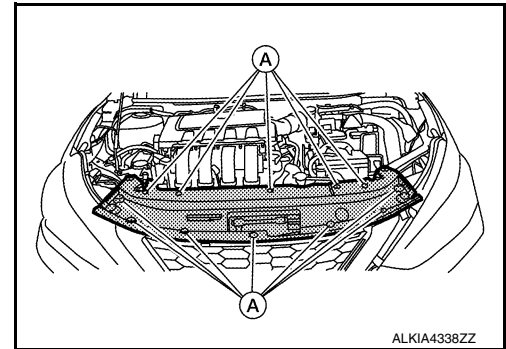
### CLEARANCE ADJUSTMENT

- Loosen hood hinge (LH/RH) nuts and bolts.

**NOTE:**

The anticorrosive agent applied between the hoodledge and the hood hinges also acts as an adhesive. This seal must be broken before the hinges will move.

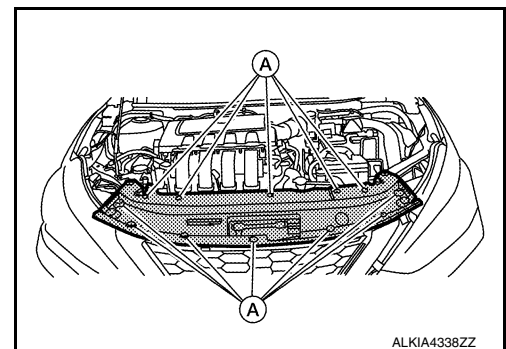
- Remove the radiator core support upper cover clips (A) and remove.



- Loosen the hood lock assembly bolts.
- Adjust the hood assembly so the clearance measurements are within specifications provided. Then tighten the hood hinge nuts and bolts to specified torque. Refer to [DLK-144. "HOOD ASSEMBLY : Exploded View"](#).
- Tighten the hood lock assembly bolts to specified torque. Refer to [DLK-149. "HOOD LOCK CONTROL : Exploded View"](#).
- Install the radiator core support upper cover.

### HEIGHT ADJUSTMENT

- Remove the radiator core support upper cover clips (A) and remove.



- Loosen the hood lock assembly bolts.

# HOOD

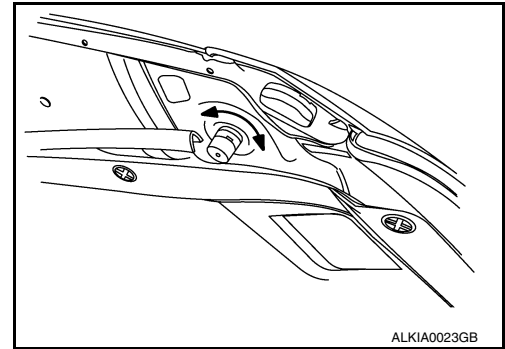
## < REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

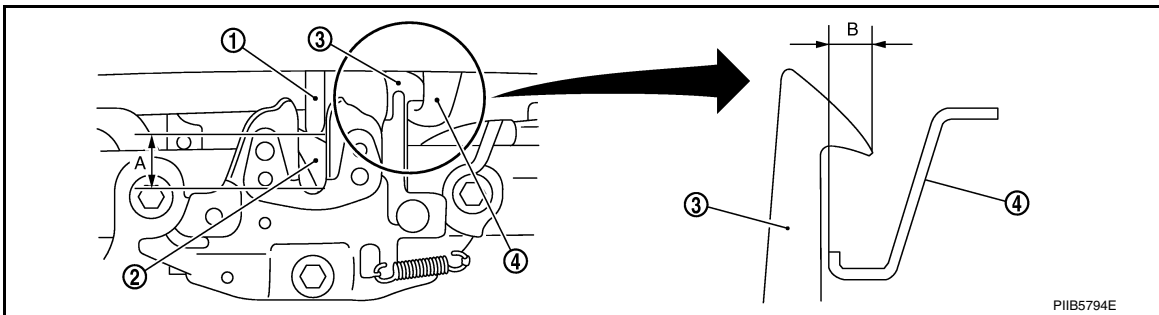
- Adjust the surface height of the hood assembly to front bumper fascia and front fender according to the specified values by rotating the hood bumper rubbers.

**NOTE:**

Only one hood bumper rubber shown for clarity.



- Temporarily tighten the hood lock assembly bolts.
- Adjust (A) and (B) as shown to the following value with hood's own weight by dropping it from approximately 200 mm (7.9 in) height or by pressing hood lightly [approximately 29 Nm (3.0 kg-m, 21 ft-lb)].



- |                    |                   |                      |
|--------------------|-------------------|----------------------|
| 1. Hood striker    | 2. Primary latch  | 3. Secondary striker |
| 4. Secondary latch | A. 20 mm (0.8 in) | B. 6.8 mm (0.27 in)  |

- After adjustment, tighten hood hinge nuts and bolts to the specified torque. Refer to [DLK-144, "HOOD ASSEMBLY : Exploded View"](#).

**CAUTION:**

- Check hood hinge rotating part for poor lubrication. If necessary, apply a suitable multi-purpose grease.
- After adjusting, apply touch-up paint (body color) to the head of hood hinge bolts and nuts.

- Tighten the hood lock assembly bolts to specified torque.
- Install the radiator core support upper cover.
- If the clearance measurements between the hood and fender cannot be corrected by adjusting the hood, the fender must be adjusted. Refer to [DLK-155, "Adjustment"](#).

## HOOD HINGE

### HOOD HINGE : Removal and Installation

INFOID:000000012783187

#### REMOVAL

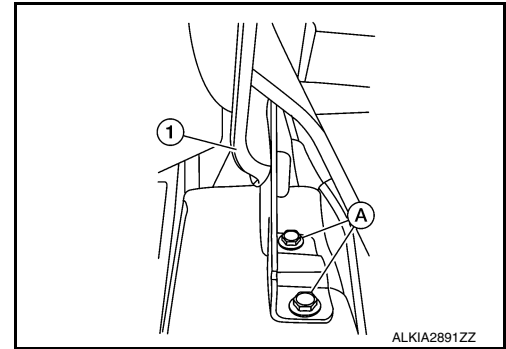
- Remove the fender protector. Refer to [EXT-28, "FENDER PROTECTOR : Removal and Installation - Front Fender Protector"](#).
- Remove the core support upper cover. Refer to [HA-39, "Exploded View"](#).
- Remove the front fascia. Refer to [EXT-17, "Removal and Installation"](#).
- Remove the front combination lamp. Refer to [EXL-127, "Removal and Installation"](#) (HALOGEN), [EXL-257, "Removal and Installation"](#) (LED).
- Remove the front fender. Refer to [DLK-154, "Removal and Installation"](#).

# HOOD

## < REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

6. Remove hood hinge bolts (A) and hood hinge (1).



## INSTALLATION

Installation is in the reverse order of removal.

Tighten bolts to specified torque. Refer to [DLK-144, "HOOD ASSEMBLY : Exploded View"](#).

### **CAUTION:**

- Before installing the hood hinge, apply anticorrosive agent onto the surface of the vehicle.
- After installation, perform hood assembly adjustment procedure. Refer to [DLK-145, "HOOD ASSEMBLY : Adjustment"](#).

## HOOD SUPPORT ROD

### HOOD SUPPORT ROD : Removal and Installation

INFOID:000000012783188

## REMOVAL

1. Support hood assembly using a suitable tool.

### **WARNING:**

**Bodily injury may occur if hood assembly is not supported properly when removing hood support rod.**

2. Rotate and remove hood support rod from grommet.
3. Remove grommet from hood hinge using a suitable tool (if necessary).

## INSTALLATION

Installation is in the reverse order of removal.

## HOOD LOCK CONTROL



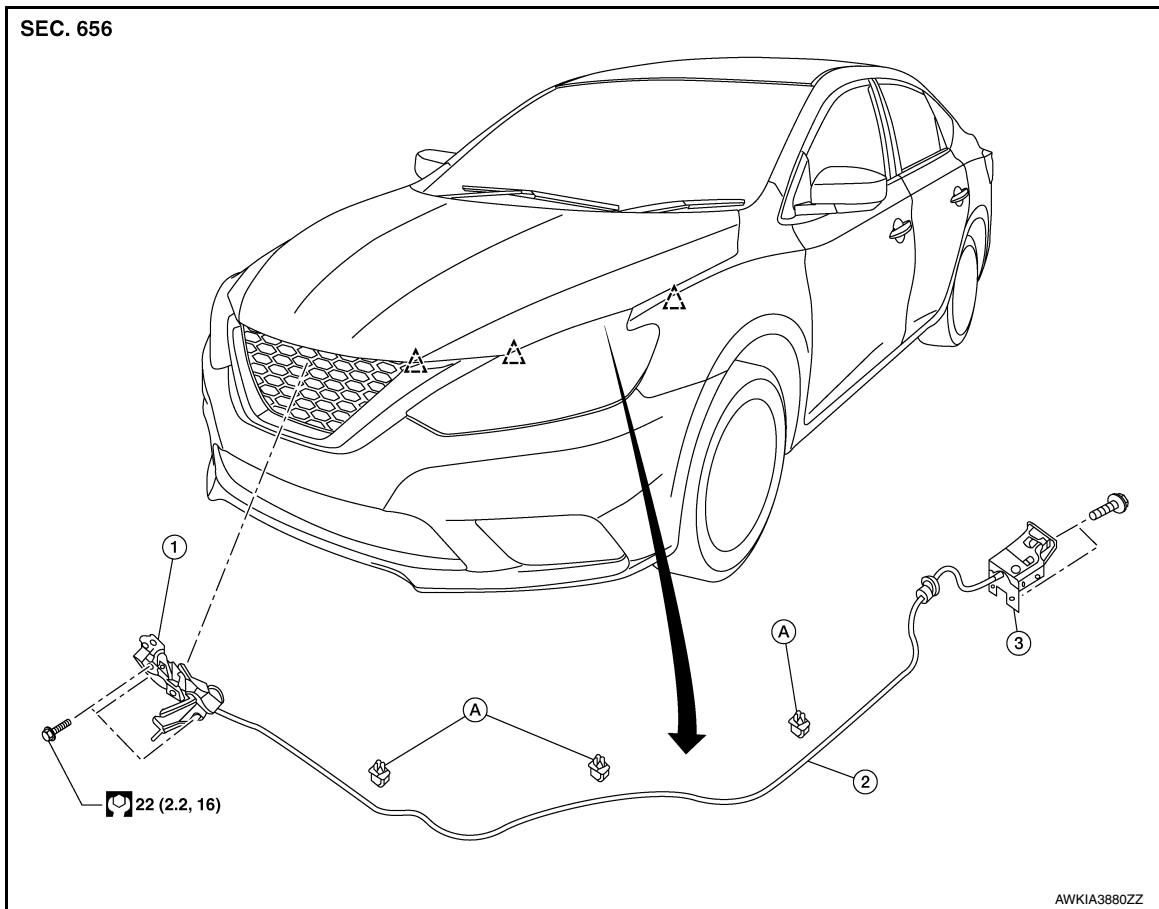
# HOOD

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

## HOOD LOCK CONTROL : Exploded View

INFOID:000000012783189



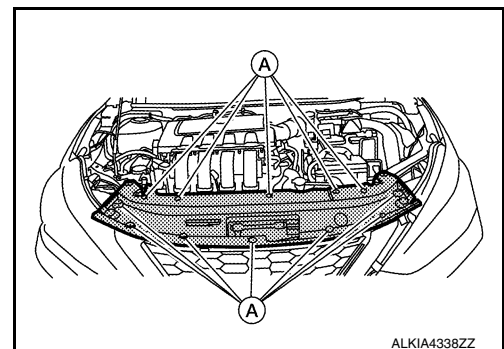
- 1. Hood lock assembly
- 2. Hood lock release cable
- 3. Hood lock/fuel filler door release handle assembly
- A. Hood lock release cable clip
- △ Clip

## HOOD LOCK CONTROL : Removal and Installation

INFOID:000000012783190

### REMOVAL

1. Remove the fender protector (LH). Refer to [EXT-28. "FENDER PROTECTOR : Removal and Installation - Front Fender Protector"](#).
2. Remove the radiator core support upper cover clips (A) and remove.



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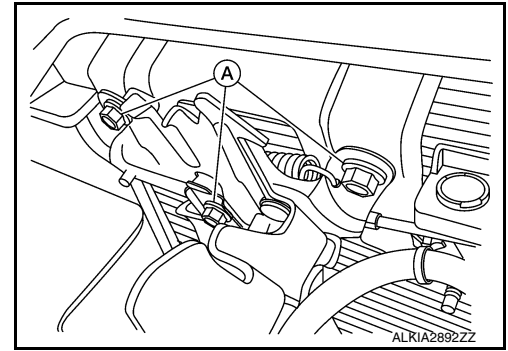
DLK

# HOOD

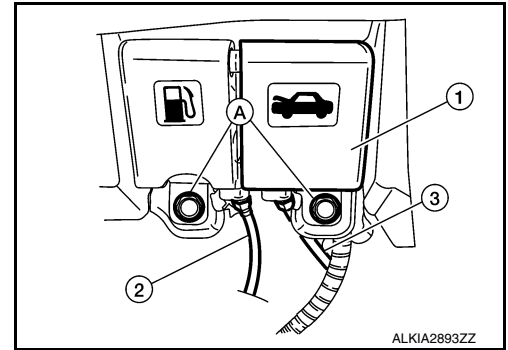
## < REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

3. Remove the hood lock assembly bolts (A).



4. Disconnect the hood lock release cable from the hood lock assembly.
5. Remove the bolts (A), then separate the hood lock/fuel filler door release handle assembly (1) from the hood lock release cable (3) and fuel filler door release cable (2).



6. Remove the grommet from the dash assembly and pull the hood lock release cable into the passenger compartment.

**CAUTION:**

**While pulling, be careful not to damage (peel) the outside of the hood lock release cable.**

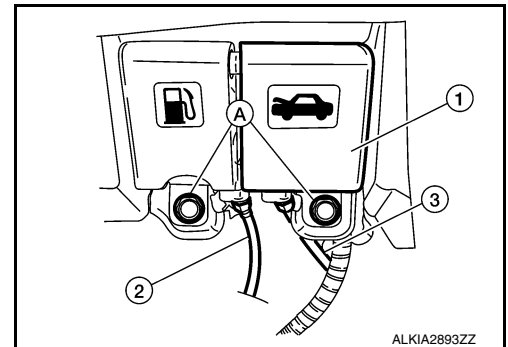
## INSTALLATION

1. Pull the hood lock release cable through the dash assembly into the engine compartment.

**CAUTION:**

**Be careful not to bend the cable too much, keep the radius 100 mm (3.94 in) or more.**

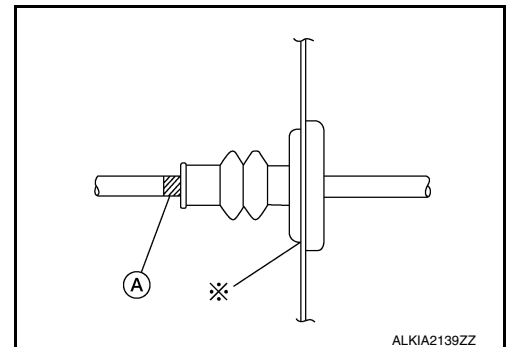
2. Attach the hood lock release cable (3) and the fuel filler door release cable (2) to the hood lock/fuel filler door release handle assembly (1).
3. Place hood lock/fuel filler door release handle assembly in position and retain with bolts (A).



4. Check that the cable is not offset from the center of the grommet and seat the grommet into the dash hole.

**NOTE:**

Make sure that the marked area (A) of the cable is located as shown after mounting grommet to dash upper assembly. Apply sealant around the grommet at \* mark.



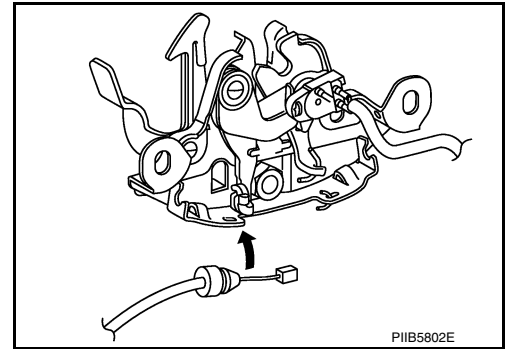
5. Position the hood lock release cable and clip it into place.

# HOOD

## < REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

6. Connect the hood lock release cable to the hood lock assembly.



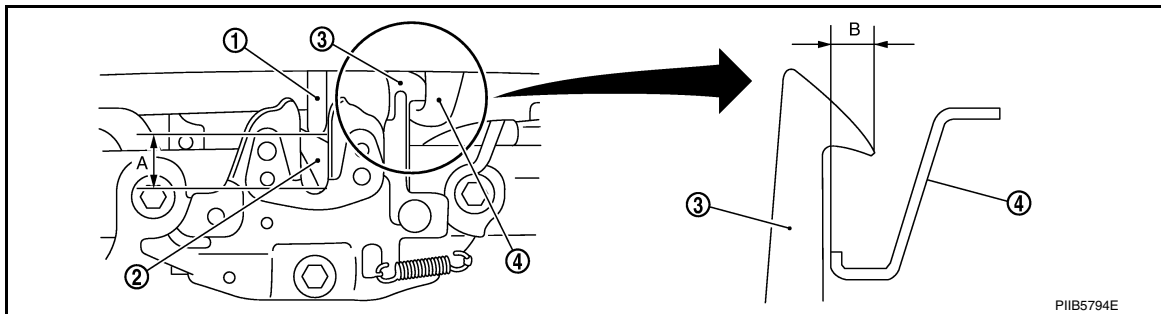
7. Perform hood fitting adjustment. Refer to [DLK-145. "HOOD ASSEMBLY : Adjustment"](#).
8. Perform the hood lock control inspection.

### INSPECTION

#### NOTE:

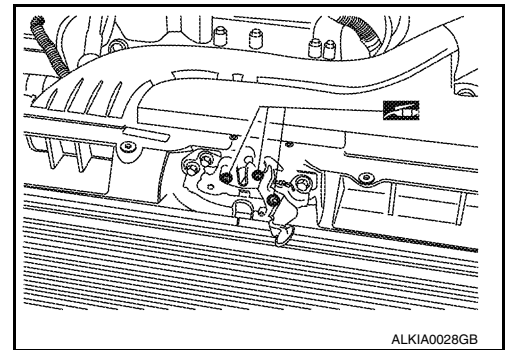
If the hood lock release cable is bent or deformed, replace it.

1. Check that the secondary latch is properly engaged with the secondary striker and meets specification provided (B) with hood's own weight.



- |                    |                   |                      |
|--------------------|-------------------|----------------------|
| 1. Hood striker    | 2. Primary latch  | 3. Secondary striker |
| 4. Secondary latch | A. 20 mm (0.8 in) | B. 6.8 mm (0.27 in)  |

2. While operating the hood lock release handle, carefully check that the front end of the hood assembly is raised and meets the specification provided (A). Also check that the hood lock release handle returns to the original position.
3. Check that the hood lock release handle operating force is 49 N (5.0 kg, 11 lb) or less.
4. Install so the static closing force of the hood assembly is 49 – 490 N (5.0 – 50 kg-f, 36 - 110.2 lb-f).
5. Check the hood lock assembly lubrication condition. If necessary, apply a suitable multi-purpose grease as shown.



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DLK

# RADIATOR CORE SUPPORT

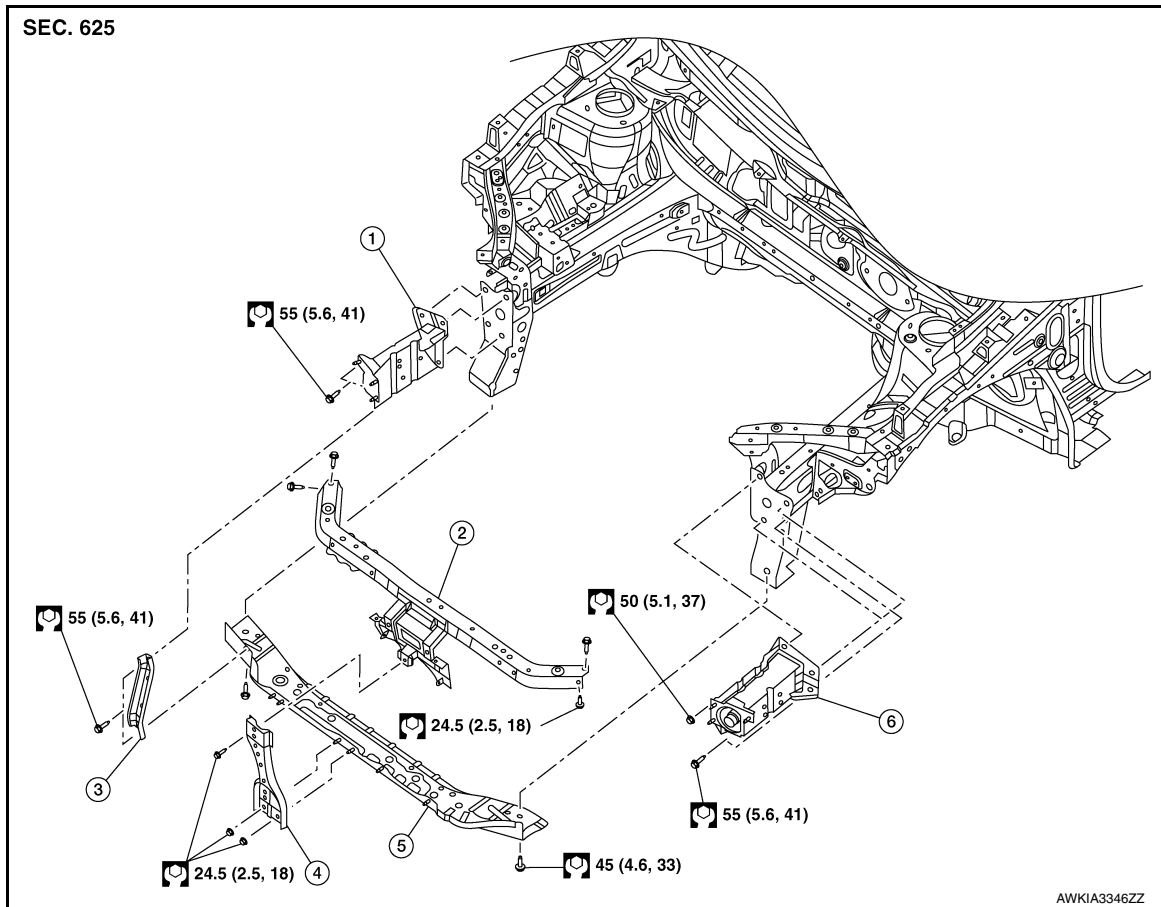
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

## RADIATOR CORE SUPPORT

Exploded View

INFOID:000000012783191



- |                                  |                       |                                  |
|----------------------------------|-----------------------|----------------------------------|
| 1. Core support side member (RH) | 2. Core support upper | 3. Core support lower stay       |
| 4. Hood lock support             | 5. Core support lower | 6. Core support side member (LH) |

## Removal and Installation

INFOID:000000012783192

### REMOVAL

#### CAUTION:

Before servicing, turn ignition switch OFF, disconnect both battery terminals and wait at least three minutes.

1. Disconnect the battery negative and positive terminals then wait at least three minutes. Refer to [PG-74, "Removal and Installation \(Battery\)"](#).
2. Remove crash zone sensor. Refer to [SR-27, "Removal and Installation"](#).
3. Remove radiator. Refer to [CO-15, "Removal and Installation"](#).
4. Remove the condenser (if equipped). Refer to [HA-39, "CONDENSER : Removal and Installation"](#).
5. Remove the horns. Refer to [HRN-6, "Removal and Installation"](#).
6. Remove air guides (LH/RH).
7. Remove the hood lock support bolts and hood lock support.
8. Remove the core support lower stay bolts and core support lower stay.
9. Remove the core support lower bolts and core support lower.
10. Remove the core support side member nuts and bolts and remove the core support side member (if necessary).

### INSTALLATION

# RADIATOR CORE SUPPORT

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

Installation is in the reverse order of removal.

Tighten bolts to specification. Refer to [DLK-152, "Exploded View"](#).

**CAUTION:**

After installation, perform hood fitting adjustment. Refer to [DLK-145, "HOOD ASSEMBLY : Adjustment"](#).

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# FRONT FENDER

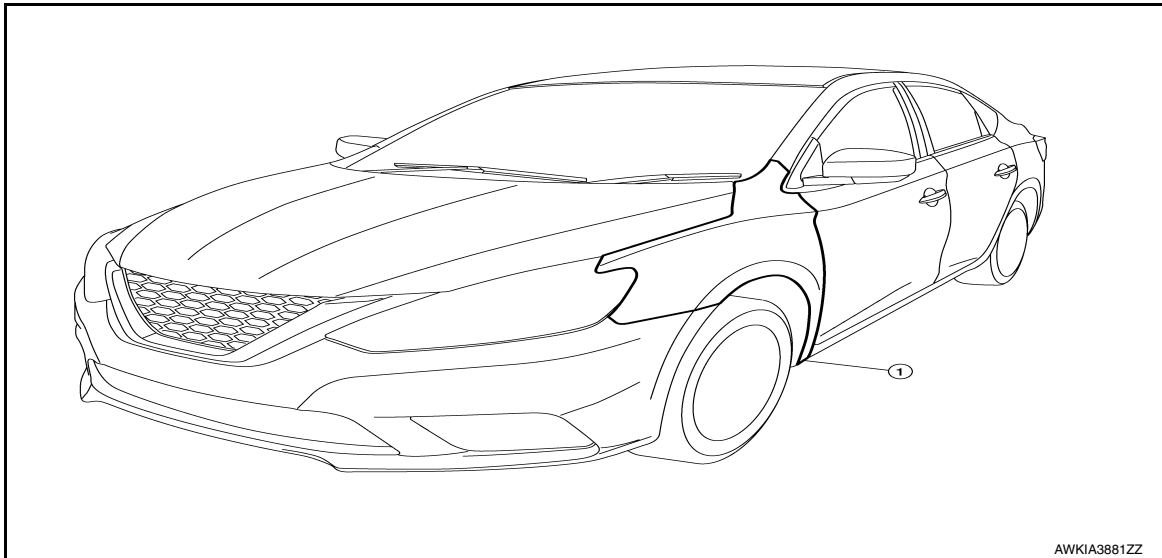
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

## FRONT FENDER

Exploded View

INFOID:000000012783193



1. Front fender

## Removal and Installation

INFOID:000000012783194

### REMOVAL

1. Remove the front combination lamp. Ref to [EXL-127, "Removal and Installation"](#) (HALOGEN), [EXL-257, "Removal and Installation"](#) (LED).
2. Remove the front bumper fascia. Refer to [EXT-17, "Removal and Installation"](#).
3. Remove the front fender protector. Refer to [EXT-28, "FENDER PROTECTOR : Removal and Installation - Front Fender Protector"](#).
4. Remove the front fender bolts and the front fender.

**CAUTION:**

**Use shop cloths to protect the body from being damaged during removal and installation.**

### INSTALLATION

Installation is in the reverse order of removal.

**CAUTION:**

**After installation, perform fender adjustment procedure. Refer to [DLK-155, "Adjustment"](#).**

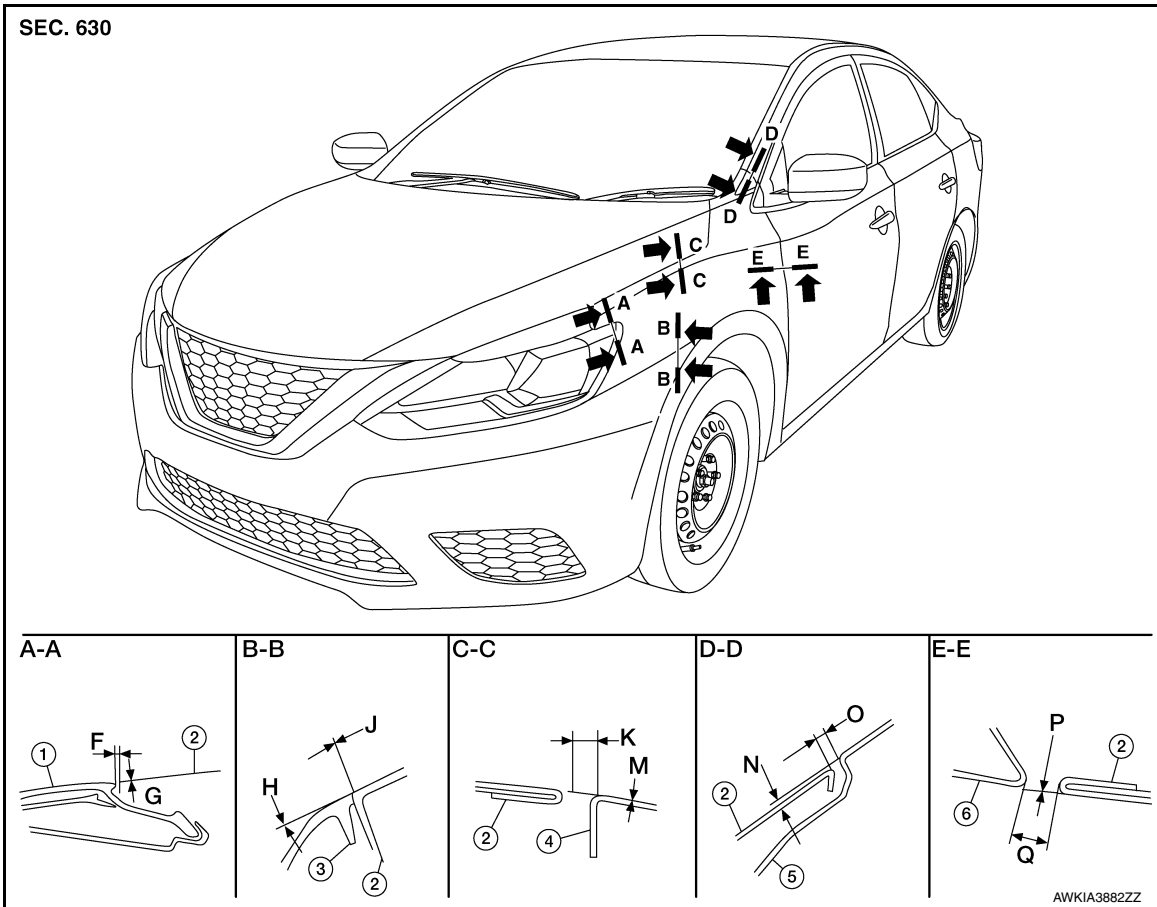
# FRONT FENDER

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

## Adjustment

INFOID:000000012783195



- 1. Front combination lamp assembly
- 2. Fender
- 3. Front bumper fascia
- 4. Hood assembly
- 5. Body side outer
- 6. Front door

Check the clearance and the surface height between hood and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedures.

Unit: mm (in)

Section	Item	Measurement	Standard
A – A	F	Clearance	1.5 ± 1.3 (0.06 ± 0.05)
	G	Surface height	0.7 ± 1.3 (0.03 ± 0.05)
B – B	H	Surface height	0.7 ± 1.0 (0.03 ± 0.04)
	J	Clearance	0.0 ± 1.0 (0.00 ± 0.04)
C – C	K	Clearance	3.7 ± 1.0 (0.15 ± 0.04)
	M	Surface height	0.0 ± 1.0 (0.00 ± 0.04)
D – D	N	Surface height	0.0 ± 1.0 (0.00 ± 0.04)
	O	Clearance	3.0 ± 1.0 (0.12 ± 0.04)
E – E	P	Surface height	—
	Q	Clearance	3.8 ± 1.0 (0.15 ± 0.04)

### Adjustment

1. Remove front bumper fascia. Refer to [EXT-17, "Removal and Installation"](#).
2. Remove the front fender protector. Refer to [EXT-28, "FENDER PROTECTOR : Removal and Installation - Front Fender Protector"](#).

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DLK

## FRONT FENDER

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

3. Loosen the front fender bolts.
4. Adjust the clearance (Q) and surface height (P) between the front fender and the front door.
5. Tighten the rear upper and lower front fender bolts.
6. Adjust the clearance (K) and surface height (M) between the front fender and the hood.
7. Adjust the clearance (O) and surface height (N) between the front fender and the body side outer.
8. Tighten the inner front fender bolts.
9. Adjust the clearance (J) and the surface height (H) between the front fender and the front fascia.
10. Tighten the front fender to front fascia and bracket screws.
11. Install front bumper fascia. Refer to [EXT-17, "Removal and Installation"](#).
12. Install front combination lamp. Refer to [EXL-127, "Removal and Installation"](#) (HALOGEN), [EXL-257, "Removal and Installation"](#) (LED).
13. Install the front fender protector. Refer to [EXT-28, "FENDER PROTECTOR : Removal and Installation - Front Fender Protector"](#).

### CAUTION:

- If the clearance measurements cannot be corrected by adjusting the fender, adjust the following as necessary.
- Hood assembly: Refer to [DLK-145, "HOOD ASSEMBLY : Adjustment"](#).
- Front door: Refer to [DLK-159, "DOOR ASSEMBLY : Adjustment"](#).
- After adjusting, apply touch-up paint (body color) to the head of the front fender bolts.



# FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

## FRONT DOOR DOOR ASSEMBLY

### DOOR ASSEMBLY : Removal and Installation

INFOID:0000000012783196

#### CAUTION:

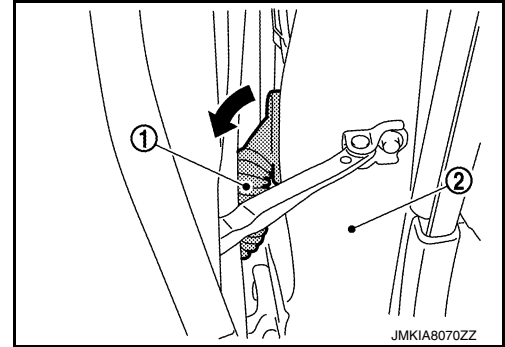
- Use two people when removing or installing the front door assembly due to its heavy weight.
- When removing and installing front door assembly, support front door using a suitable tool.
- Do not use air tools or electric tools for servicing.
- Before servicing, turn ignition switch OFF, disconnect both battery terminals and wait at least three minutes.

#### NOTE:

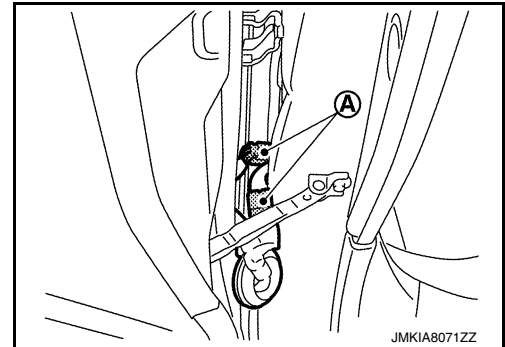
LH side shown; RH side similar.

#### REMOVAL

1. Disconnect the battery negative and positive terminals and wait at least three minutes, if equipped with the side air bag (satellite) sensor. Refer to [PG-74. "Removal and Installation \(Battery\)"](#).
2. Remove front door assembly harness grommet LH (1) then pull out door harness from body (2).



3. Disconnect the harness connectors (A) from the front door assembly harness.



4. Remove check link bolt (body side).

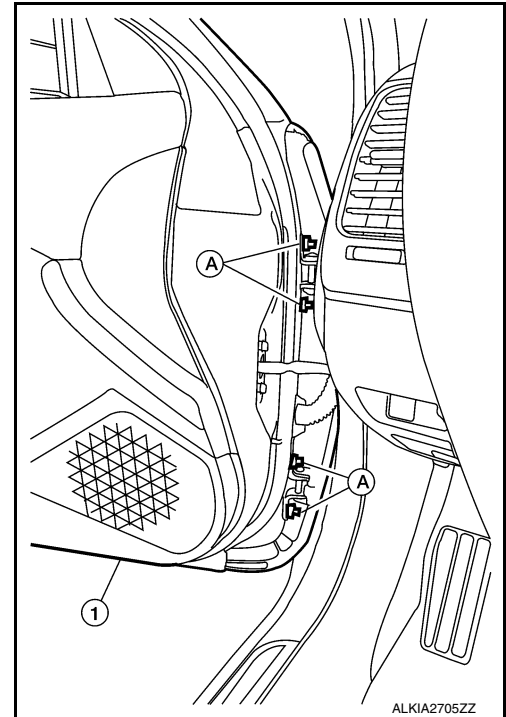
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## FRONT DOOR

### < REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

5. Remove front door assembly hinge nuts (A) (door side) and the door assembly (1).



### INSTALLATION

Installation is in the reverse order of removal.  
Tighten door hinge nuts to specified torque.

#### **CAUTION:**

- After installation, check front door open/close, lock/unlock operation.
- After installation, perform the front door adjustment procedure. Refer to [DLK-159, "DOOR ASSEMBLY : Adjustment"](#).

#### **NOTE:**

When main power window and door lock/unlock switch is removed or replaced, it is necessary to perform the initialization procedure. Refer to [PWC-28, "Description"](#).

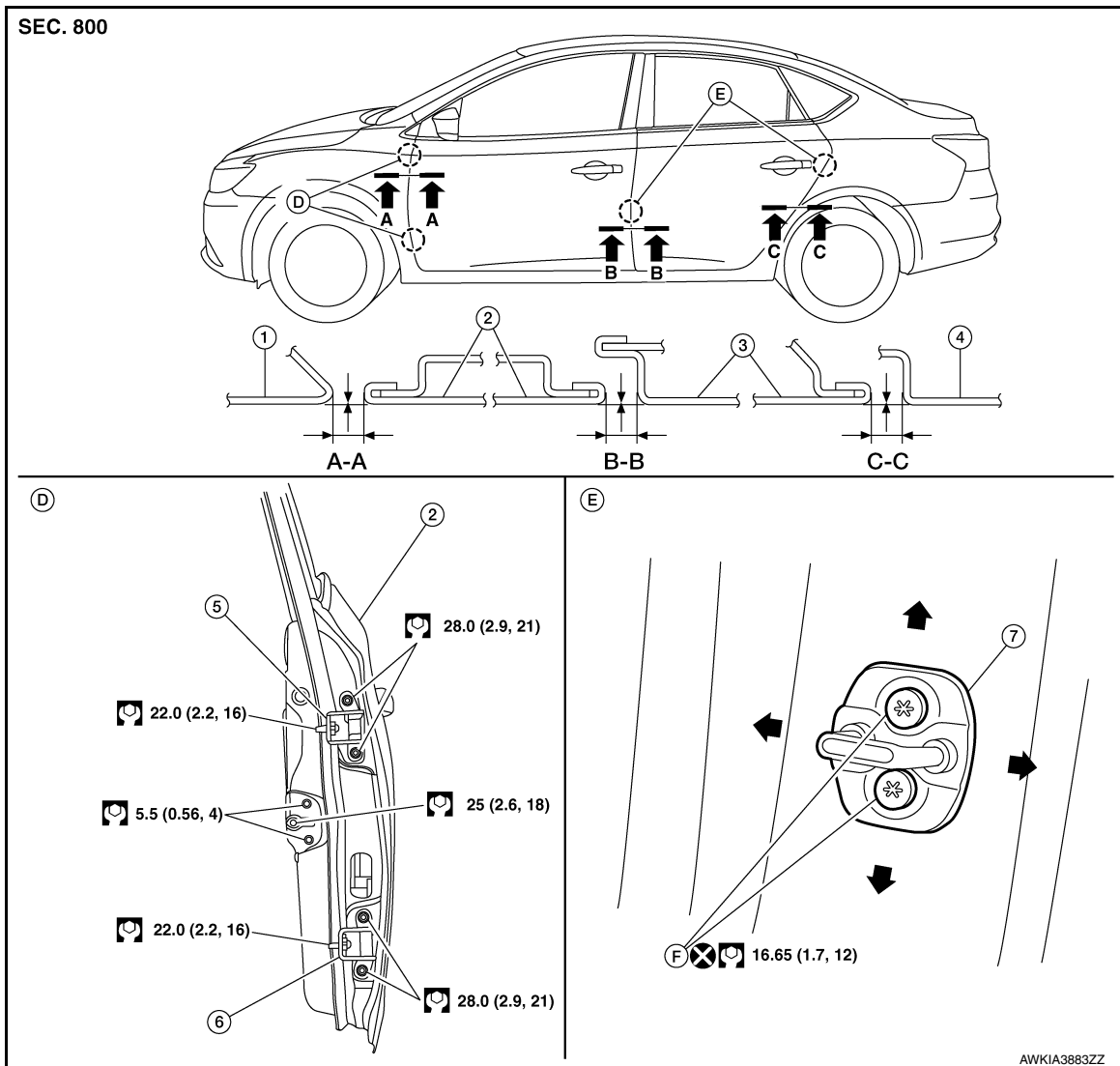
# FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

## DOOR ASSEMBLY : Adjustment

INFOID:000000012783197



- 1. Front fender
- 2. Front door assembly
- 3. Rear door assembly
- 4. Body side outer
- 5. Front door upper hinge
- 6. Front door lower hinge
- 7. Front door striker
- F. Front door striker bolts

Check the clearance and surface height between front door and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedure.

Unit: mm (in)

Section	Item	Measurement	Standard
A - A	G	Clearance	4.0 ± 1.0 (0.16 ± 0.04)
	H	Surface height	0.0 ± 1.0 (0.0 ± 0.04)
B - B	H	Clearance	4.2 ± 1.0 (0.17 ± 0.04)
	J	Surface height	0.0 ± 1.0 (0.0 ± 0.04)
C - C	J	Clearance	4.0 ± 1.0 (0.16 ± 0.04)
	K	Surface height	0.0 ± 1.0 (0.0 ± 0.04)

### LONGITUDINAL CLEARANCE

1. Remove the front fender. Refer to [DLK-154. "Removal and Installation"](#).

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## FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

2. Loosen the front door hinge to body bolts. Move the door forward or backward as necessary until within specifications provided.
3. Tighten the hinge to body bolts to specified torque.

**Front door hinge bolts**

**22.0 N·m (2.2 kg-m, 16 ft-lb)**

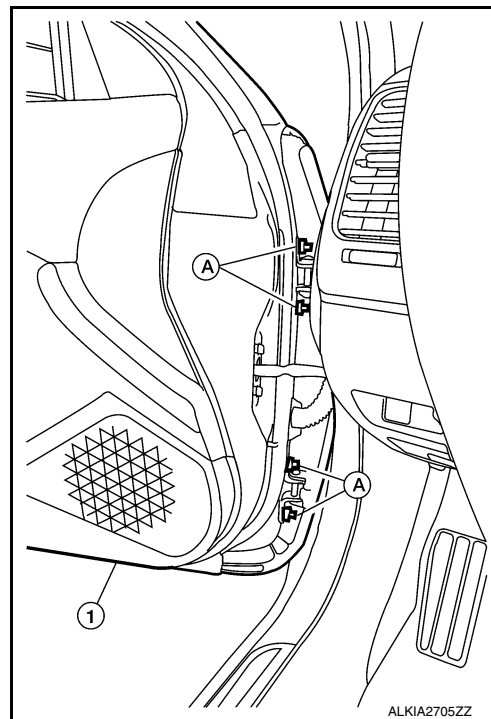
4. Install the front fender. Refer to [DLK-154, "Removal and Installation"](#).

### SURFACE HEIGHT ADJUSTMENT

1. Loosen the front door hinge nuts (A).
2. Move the top and/or bottom of the door (1) in or out as necessary until it is within specifications provided.
3. Tighten the front door hinge nuts to specified torque.

**Front door hinge nuts**

**28.0 N·m (2.9 kg-m, 21 ft-lb)**



### CAUTION:

- Check front door hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.
- After adjusting, apply touch-up paint (body color) to the head of front door hinge bolts and nuts.
- If the clearance measurements cannot be corrected by adjusting the front door assembly, adjust the following as necessary.
  - Front fender: Refer to [DLK-155, "Adjustment"](#).
  - Rear door: Refer to [DLK-164, "DOOR ASSEMBLY : Adjustment"](#).

### DOOR STRIKER ADJUSTMENT

Adjust front door assembly striker so that it becomes parallel with door lock insertion direction.

## DOOR HINGE

### DOOR HINGE : Removal and Installation

INFOID:000000012783198

#### REMOVAL

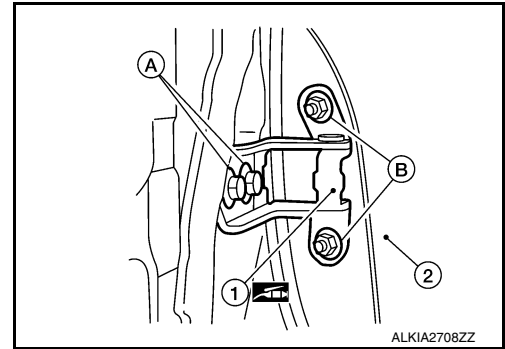
1. Remove front door fender. Refer to [DLK-154, "Removal and Installation"](#).
2. Remove front door assembly (2). Refer to [DLK-157, "DOOR ASSEMBLY : Removal and Installation"](#).
3. Remove bolt (A) and door hinge (1).

# FRONT DOOR

## < REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

4. Remove door hinge bolts (B) and remove hinge (1).



### INSTALLATION

Installation is in the reverse order of removal.

Tighten front door hinge bolts to specified torque. [DLK-159, "DOOR ASSEMBLY : Adjustment"](#)

#### CAUTION:

- Apply anticorrosive agent onto the front door hinge mating surface.
- After installation, check front door open/close, lock/unlock operation.
- After installation, perform the front door adjustment procedure. Refer to [DLK-159, "DOOR ASSEMBLY : Adjustment"](#).

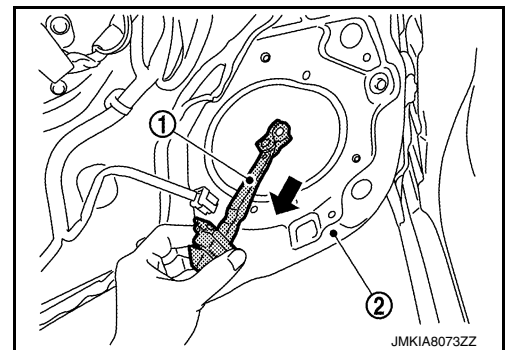
## DOOR CHECK LINK

### DOOR CHECK LINK : Removal and Installation

INFOID:0000000012783199

#### REMOVAL

1. Fully close the front door glass.
2. Remove front door speaker. Refer to [AV-58, "Removal and Installation"](#) (BASE AUDIO), [AV-119, "Removal and Installation"](#) (DISPLAY AUDIO SYSTEM), [AV-323, "Removal and Installation"](#) (NAVIGATION WITH BOSE) and [AV-212, "Removal and Installation"](#) (NAVIGATION WITHOUT BOSE).
3. Remove door check link bolt from body.
4. Remove door check link bolts on door panel.
5. Remove door check link (1) through the hole in door panel (2).



#### INSTALLATION

Installation is in the reverse order of removal.

#### CAUTION:

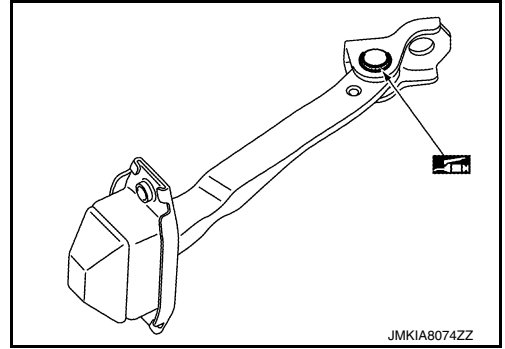
- After installation, check front door open/close, lock/unlock operation.
- Check front door check link rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.

# FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

: Grease



# REAR DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

## REAR DOOR DOOR ASSEMBLY

### DOOR ASSEMBLY : Removal and Installation

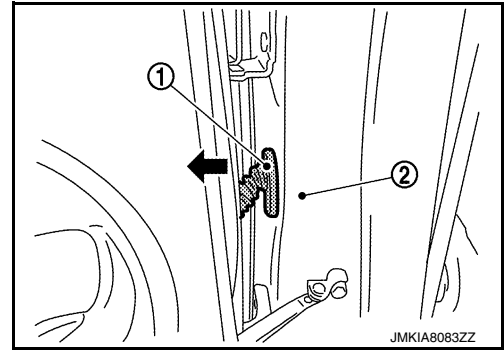
INFOID:000000012783200

#### CAUTION:

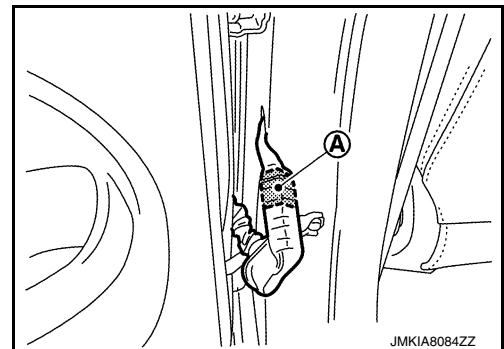
- Use two people when removing or installing the rear door assembly due to its heavy weight.
- When removing and installing rear door assembly, support rear door with a suitable tool.

#### REMOVAL

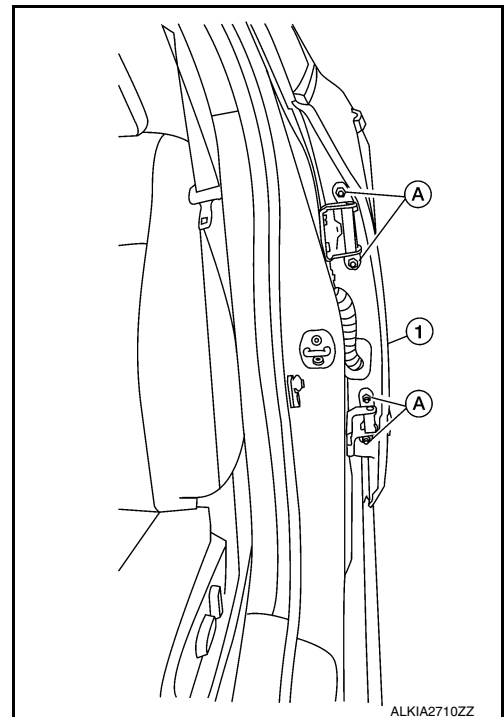
1. Remove rear door assembly harness grommet (LH) (1) then pull out door harness from body (2).



2. Disconnect the harness connector (A) from the door harness.



3. Remove the check link bolt from the body.
4. Remove rear door assembly hinge nuts (A) (door side) and the door assembly (1).



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# REAR DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

## INSTALLATION

Installation is in the reverse order of removal.  
Tighten rear door hinge nuts (door side) to specified torque.

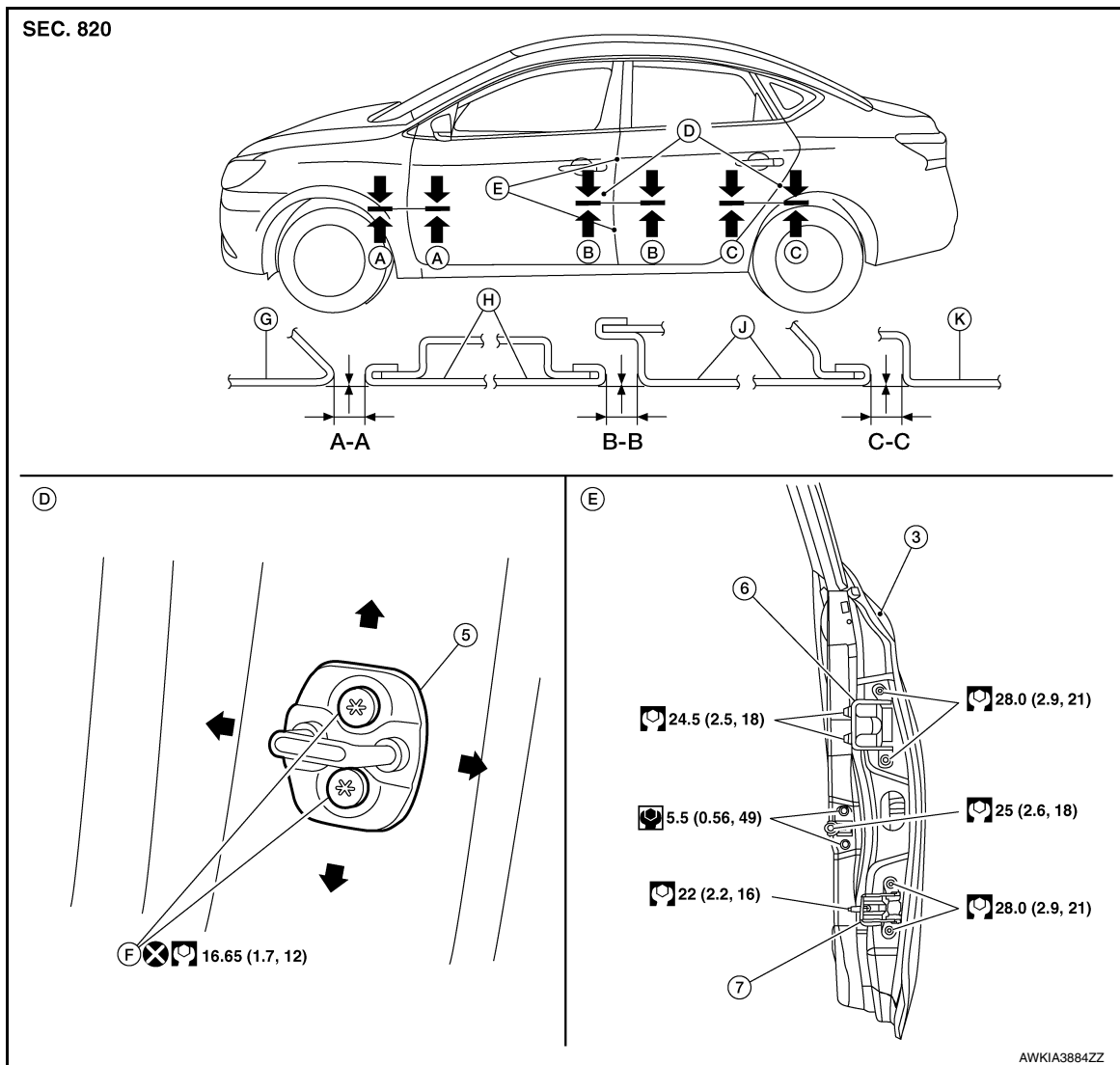
### CAUTION:

- After installation, check rear door open/close, lock/unlock operation.
- After installation, perform the rear door adjustment procedure. Refer to [DLK-164, "DOOR ASSEMBLY : Adjustment"](#).

## DOOR ASSEMBLY : Adjustment

INFOID:0000000012783201

## ADJUSTMENT



- |                          |                             |                          |
|--------------------------|-----------------------------|--------------------------|
| 1. Front fender          | 2. Door assembly            | 3. Rear door assembly    |
| 4. Body side outer       | 5. Rear door striker        | 6. Rear door upper hinge |
| 7. Rear door lower hinge | F. Rear door striker screws |                          |

Check the clearance and surface height between rear door and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedure.



# REAR DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

Unit: mm (in)

Section	Item	Measurement	Standard
A – A	G	Clearance	4.0 ± 1.0 (0.16 ± 0.04)
	H	Surface height	0.0 ± 1.0 (0.0 ± 0.04)
B – B	H	Clearance	4.2 ± 1.0 (0.17 ± 0.04)
	J	Surface height	0.0 ± 1.0 (0.0 ± 0.04)
C – C	J	Clearance	4.0 ± 1.0 (0.16 ± 0.04)
	K	Surface height	0.0 ± 1.0 (0.0 ± 0.04)

## LONGITUDINAL CLEARANCE

1. Remove the center pillar upper finisher. Refer to [INT-28, "CENTER PILLAR UPPER FINISHER : Removal and Installation"](#).
2. Loosen the rear door upper hinge nuts.
3. Loosen the rear door lower hinge bolts.
4. Move the rear door forward or backward as necessary until within specifications provided.
5. Tighten the lower hinge bolts to specification.

**Rear door lower hinge bolts**

**22 N·m (2.2 kg-m, 16 ft-lb)**

6. Tighten the upper hinge nuts to specification.

**Rear door upper hinge nuts**

**24.5 N·m (2.5 kg-m, 18 ft-lb)**

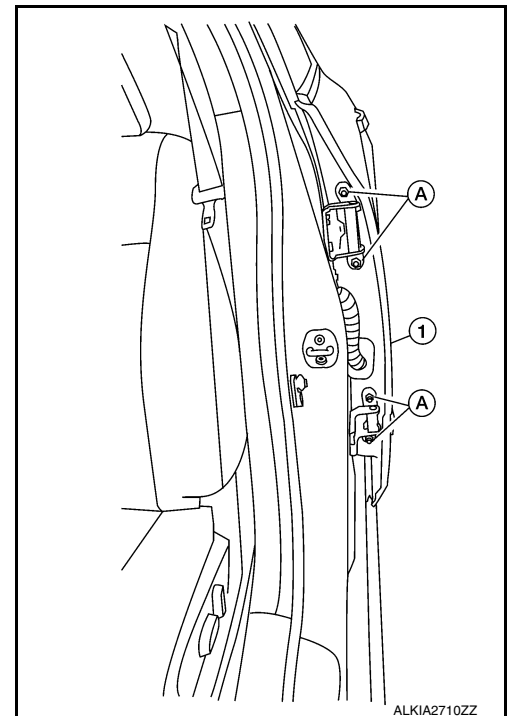
7. Install the center pillar upper finisher. Refer to [INT-28, "CENTER PILLAR UPPER FINISHER : Removal and Installation"](#).

## SURFACE HEIGHT ADJUSTMENT

1. Loosen the rear door hinge nuts (door side) (A).
2. Move the top and/or the bottom of the rear door (1) in or out as necessary until it is within specifications provided.
3. Tighten the rear door hinge nuts (door side) (A) to specification.

**Rear door nuts**

**28.0 N·m (2.9 kg-m, 21 ft-lb)**



### CAUTION:

- Check rear door hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.
- After adjusting, apply touch-up paint (body color) to the head of rear door assembly hinge bolts and nuts.

# REAR DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

- If the clearance measurements cannot be corrected by adjusting the rear door, adjust the front door. Refer to [DLK-159, "DOOR ASSEMBLY : Adjustment"](#).

## DOOR STRIKER ADJUSTMENT

Adjust rear door assembly striker so that it becomes parallel with door lock insertion direction.

## DOOR HINGE

### DOOR HINGE : Removal and Installation

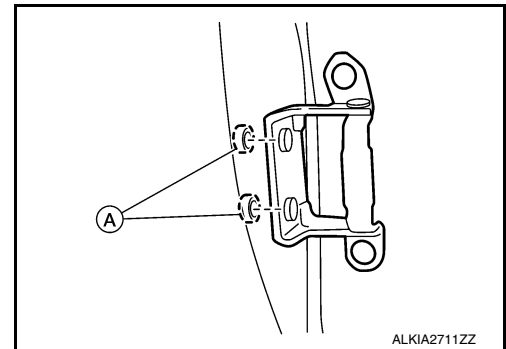
INFOID:000000012783202

#### CAUTION:

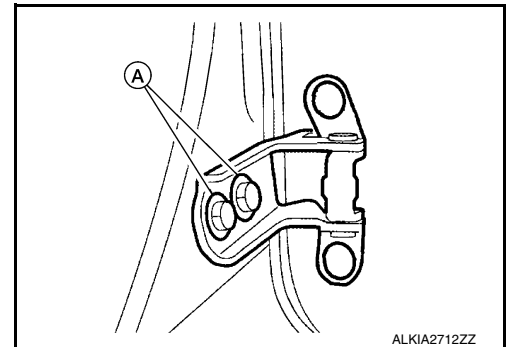
- Use two people when removing or installing rear door assembly due to its heavy weight.
- When removing and installing rear door assembly, support door using a suitable tool.

#### REMOVAL

1. Remove rear door assembly. Refer to [DLK-163, "DOOR ASSEMBLY : Removal and Installation"](#).
2. Remove center pillar upper finisher (upper hinge only). Refer to [INT-28, "CENTER PILLAR UPPER FINISHER : Removal and Installation"](#).
3. Remove rear door assembly upper hinge nuts (A) and remove.



4. Remove rear door assembly lower hinge bolts (A) and remove.



#### INSTALLATION

Installation is in the reverse order of removal.

Tighten rear door assembly hinge nuts and bolts to specified torque. Refer to [DLK-164, "DOOR ASSEMBLY : Adjustment"](#)

#### CAUTION:

- Apply anticorrosive agent onto the hinge mating surface.
- After installation, check rear door open/close, lock/unlock operation.
- After installation, perform the rear door adjustment procedure. Refer to [DLK-164, "DOOR ASSEMBLY : Adjustment"](#).

## DOOR CHECK LINK

### DOOR CHECK LINK : Removal and Installation

INFOID:000000012783203

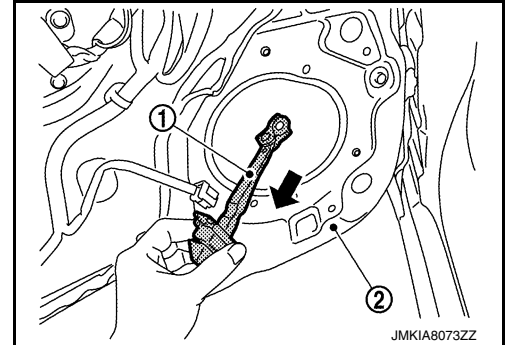
#### REMOVAL

## REAR DOOR

### < REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

1. Fully close the rear door glass.
2. Remove rear door speaker. Refer to [AV-59. "Removal and Installation"](#) (BASE AUDIO), [AV-119. "Removal and Installation"](#) (DISPLAY AUDIO SYSTEM), [AV-324. "Removal and Installation"](#) (NAVIGATION WITH BOSE) and [AV-213. "Removal and Installation"](#) (NAVIGATION WITHOUT BOSE).
3. Remove door check link bolt from body.
4. Remove door check link bolts on door panel.
5. Remove door check link (1) through the hole in door panel (2).

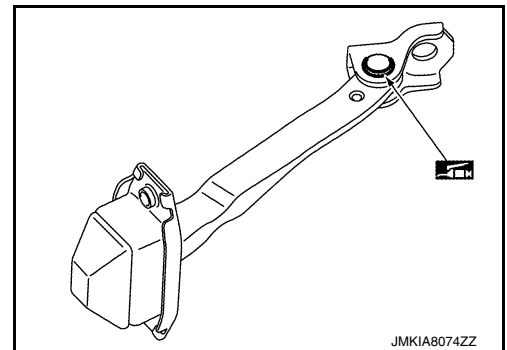


### INSTALLATION

Installation is in the reverse order of removal.

#### **CAUTION:**

- After installation, check rear door open/close, lock/unlock operation.
- Check rear door check link rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.



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DLK

# DOOR HANDLE

< REMOVAL AND INSTALLATION >

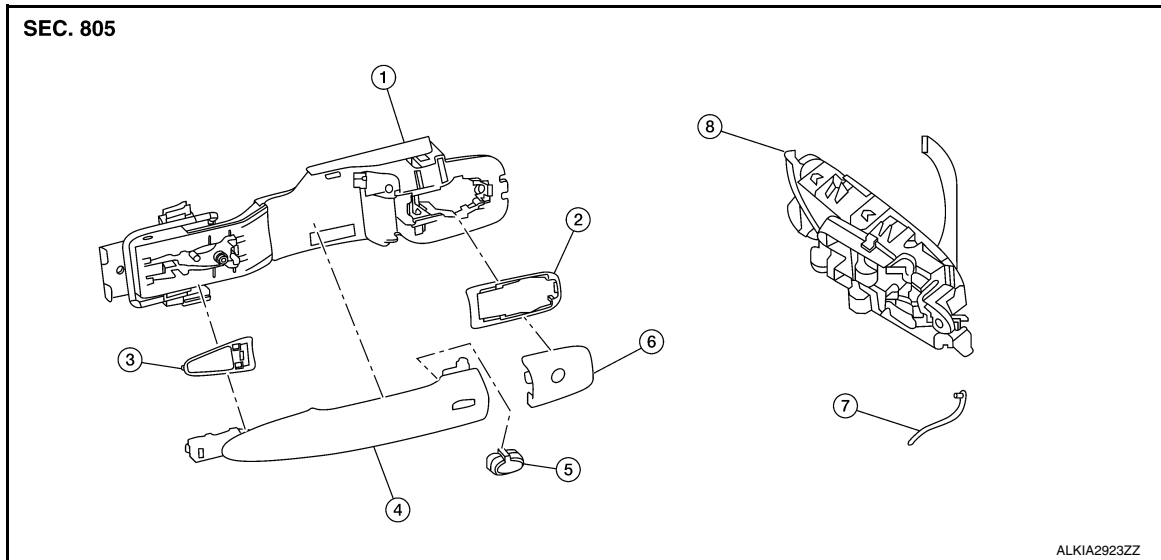
[WITH INTELLIGENT KEY SYSTEM]

## DOOR HANDLE

### FRONT DOOR HANDLE

#### FRONT DOOR HANDLE : Exploded View

INFOID:000000012783204



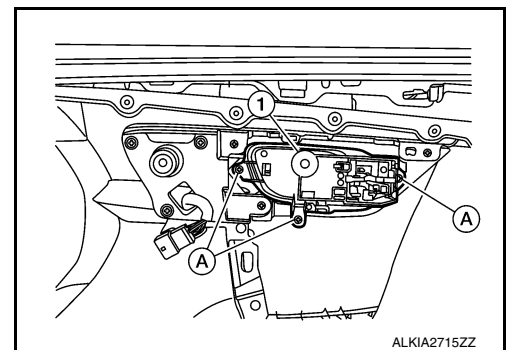
- |                           |                           |                              |
|---------------------------|---------------------------|------------------------------|
| 1. Outside handle bracket | 2. Rear gasket            | 3. Front gasket              |
| 4. Outside handle         | 5. Door request switch    | 6. Outside handle escutcheon |
| 7. Door key cylinder rod  | 8. Inside handle assembly |                              |

#### FRONT DOOR HANDLE : Removal and Installation - Inside Handle

INFOID:000000012783205

##### REMOVAL

1. Remove front door finisher. Refer to [INT-15. "Removal and Installation"](#).
2. Remove screws (A) and inside handle assembly (1).



##### INSTALLATION

Installation is in the reverse order of removal.

##### CAUTION:

- Check front door lock cables are properly engaged to inside handle.
- After installation, check front door open/close, lock/unlock operation.

#### FRONT DOOR HANDLE : Removal and Installation - Outside Handle

INFOID:000000012783206

##### REMOVAL

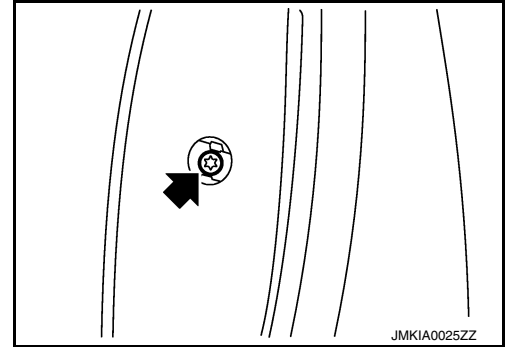
1. Fully close front door glass.
2. Remove front door finisher. Refer to [INT-15. "Removal and Installation"](#).
3. Remove front door vapor barrier.

# DOOR HANDLE

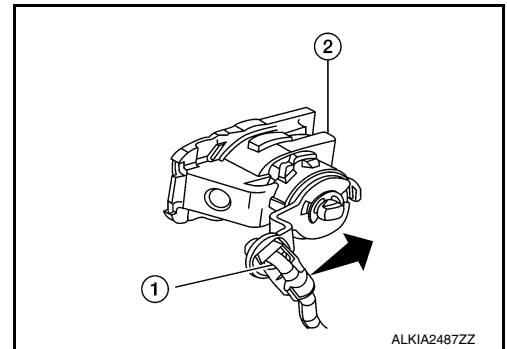
[WITH INTELLIGENT KEY SYSTEM]

## < REMOVAL AND INSTALLATION >

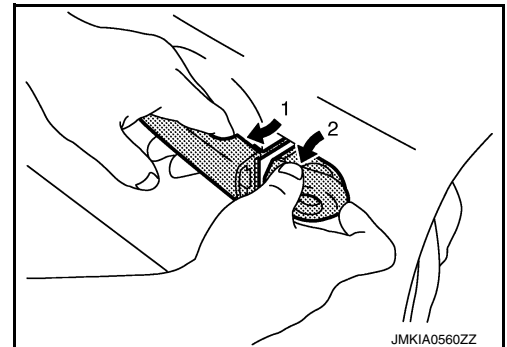
4. Remove front door glass channel rear.
5. Disconnect the harness connectors from the door antenna and door request switch and then remove harness clamp on outside handle bracket.
6. Remove door side grommet, and loosen screw (←) that retains the front door outside handle bracket.



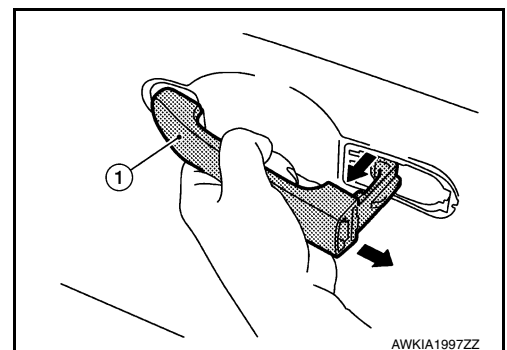
7. Reach in to separate door key cylinder rod (LH side) (1) from door key cylinder assembly (LH side) (2).



8. While pulling (1) outside handle, remove (2) door key cylinder assembly (LH side) or outside handle escutcheon (RH side).



9. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



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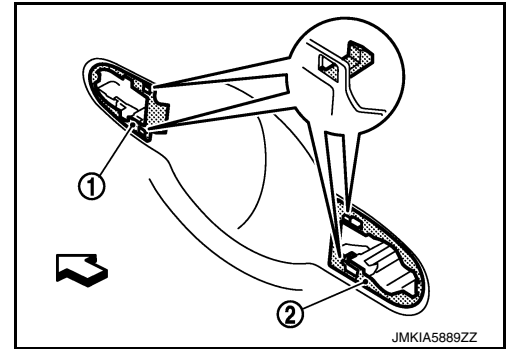
## DOOR HANDLE

### < REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

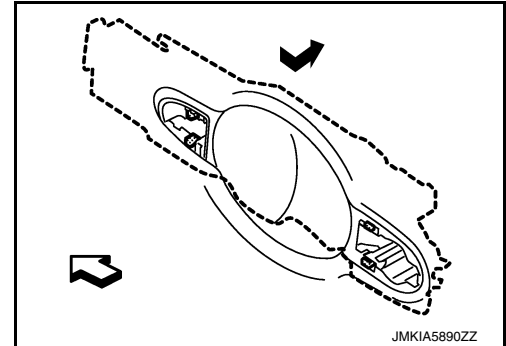
10. Remove front gasket (1) and rear gasket (2).

⇐: Front

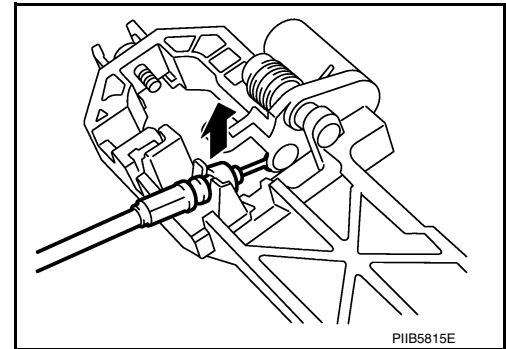


11. Slide outside handle bracket toward rear of vehicle to remove.

⇐: Front



12. Disconnect the outside handle cable from the outside handle bracket connection.



### INSTALLATION

Installation is in the reverse order of removal.

#### **CAUTION:**

- When installing door key cylinder rod on the (LH) front door, be sure to rotate door key cylinder rod holder until a click is felt.
- Check front door lock cable is properly engaged to outside handle bracket.
- After installation, check front door open/close, lock/unlock operation.

### REAR DOOR HANDLE

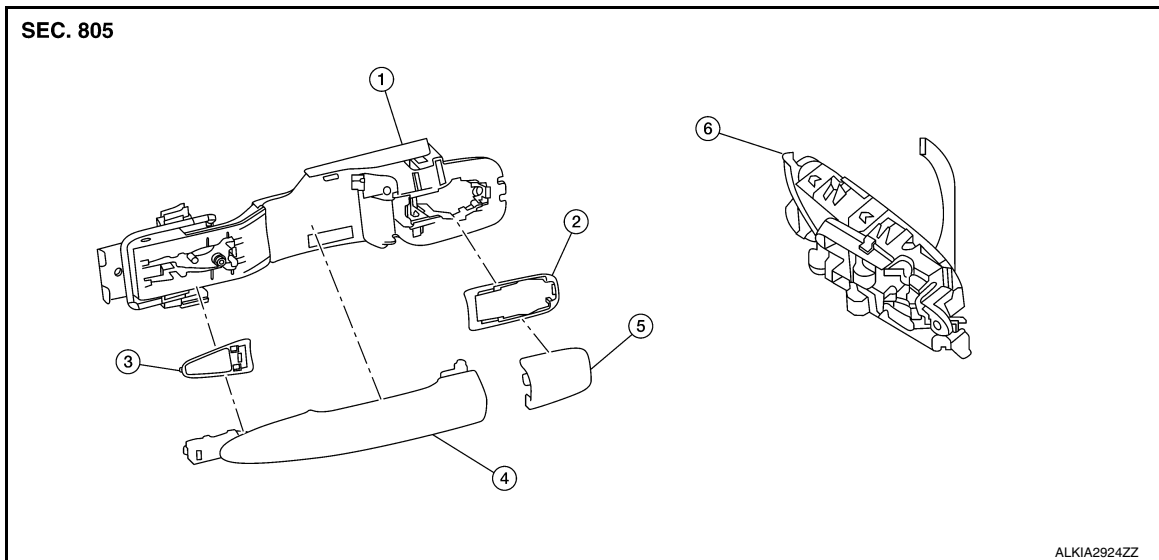
# DOOR HANDLE

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

## REAR DOOR HANDLE : Exploded View

INFOID:000000012783207



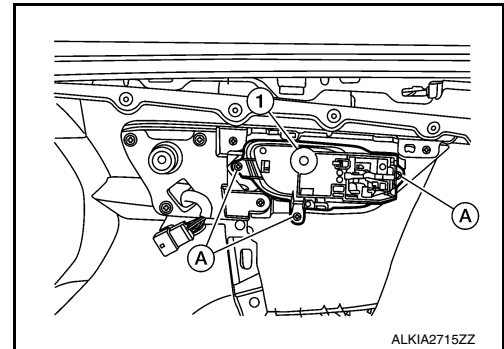
- |                           |                              |                           |
|---------------------------|------------------------------|---------------------------|
| 1. Outside handle bracket | 2. Rear gasket               | 3. Front gasket           |
| 4. Outside handle         | 5. Outside handle escutcheon | 6. Inside handle assembly |

## REAR DOOR HANDLE : Removal and Installation - Inside Handle

INFOID:000000012783208

### REMOVAL

1. Remove rear door finisher. Refer to [INT-19, "Removal and Installation"](#).
2. Remove screws (A) and inside handle (1).



### INSTALLATION

Installation is in the reverse order of removal.

#### **CAUTION:**

- Check rear door lock cables are properly engaged to inside handle.
- After installation, check rear door open/close, lock/unlock operation.

## REAR DOOR HANDLE : Removal and Installation - Outside Handle

INFOID:000000012783209

### REMOVAL

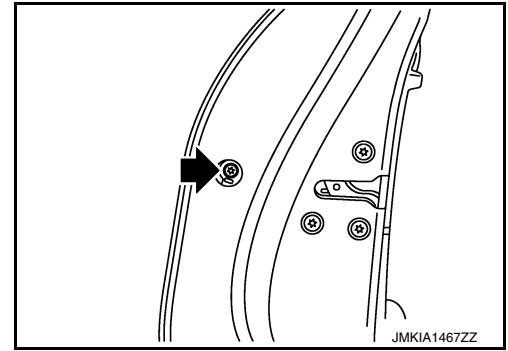
1. Fully close rear door glass.
2. Remove rear door finisher. Refer to [INT-19, "Removal and Installation"](#).
3. Remove rear door vapor barrier.

# DOOR HANDLE

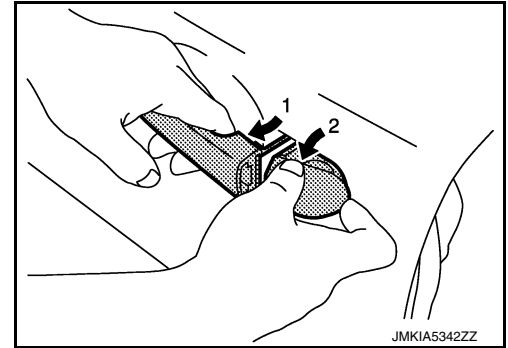
## < REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

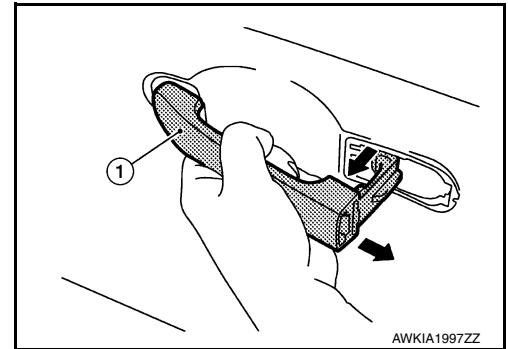
4. Remove door side grommet, and loosen screw (←) that retains the rear door outside handle bracket.



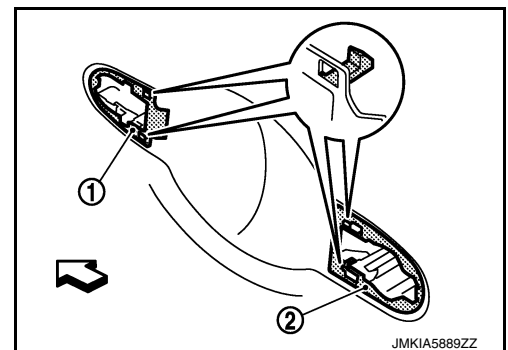
5. While pulling (1) outside handle, remove (2) outside handle escutcheon.



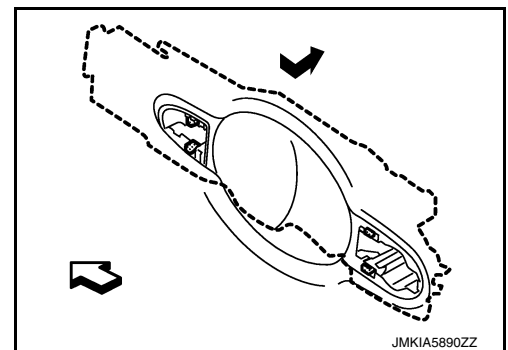
6. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



7. Remove front gasket (1) and rear gasket (2).  
←: Front



8. Slide outside handle bracket toward rear of vehicle to remove.  
←: Front



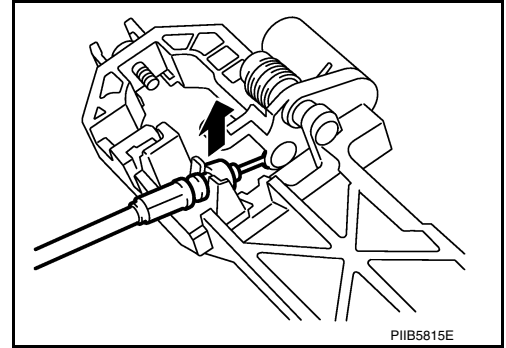


# DOOR HANDLE

## < REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

9. Remove clip and disconnect the outside handle cable from the outside handle bracket.



### INSTALLATION

Installation is in the reverse order of removal.

**CAUTION:**

- Check rear door lock cable is properly engaged to outside handle bracket.
- After installation, check rear door open/close, lock/unlock operation.

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DLK

# DOOR LOCK

< REMOVAL AND INSTALLATION >

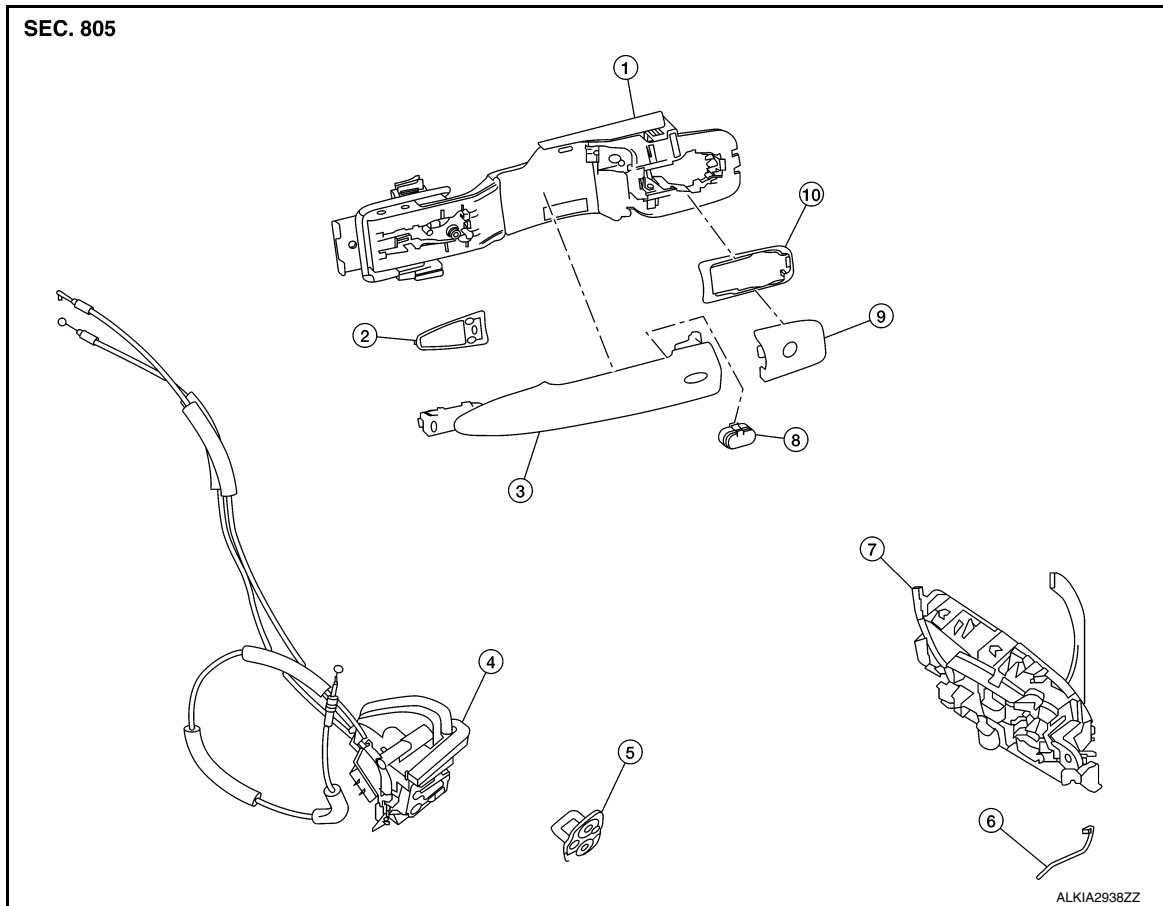
[WITH INTELLIGENT KEY SYSTEM]

## DOOR LOCK

### FRONT DOOR LOCK

#### FRONT DOOR LOCK : Exploded View

INFOID:000000012783210



- |                             |                        |  |
|-----------------------------|------------------------|--|
| 1. Outside handle bracket   | 2. Front gasket        | 3. Front door handle                   |
| 4. Front door lock assembly | 5. Door striker        | 6. Door key cylinder rod (driver side) |
| 7. Inside handle            | 8. Door request switch | 9. Outside handle escutcheon           |
| 10. Rear gasket             |                        |  |

#### FRONT DOOR LOCK : Removal and Installation

INFOID:000000012783211

##### **CAUTION:**

**Before servicing, turn ignition switch OFF, disconnect both battery terminals and wait at least three minutes.**

##### REMOVAL

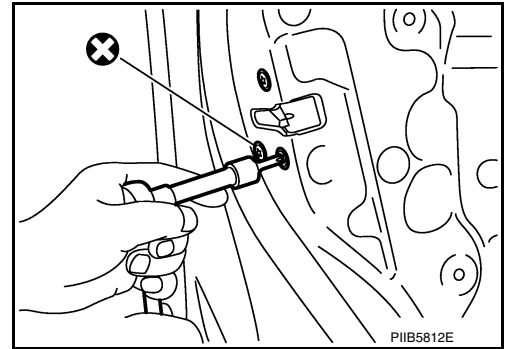
1. Remove the front door outside handle. Refer to [DLK-168, "FRONT DOOR HANDLE : Removal and Installation - Outside Handle"](#).
2. Remove the rear glass run.
3. Disconnect the harness connector from the front door lock actuator.

# DOOR LOCK

## < REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

4. Remove screws and the front door lock assembly.



5. Disconnect door key cylinder rod (LH only) from door key cylinder (LH only).
6. Disconnect door lock cables from inside handle.

## INSTALLATION

Installation is in the reverse order of removal.  
Tighten front door lock screws to specified torque.

**Front door lock screws: 5.8 Nm (0.59 kg-m, 51 in-lb)**

### CAUTION:

- Do not reuse front door lock assembly screws. Always replace screws with new ones when removed.
- Check front door lock cables are properly engaged to inside handle and outside handle bracket.
- When installing door key cylinder rod on the (LH) front door, be sure to rotate door key cylinder rod holder until a click is felt.
- After installation, check front door open/close, lock/unlock operation.
- Check front door lock assembly for poor lubrication. If necessary apply a suitable multi-purpose grease.

## REAR DOOR LOCK

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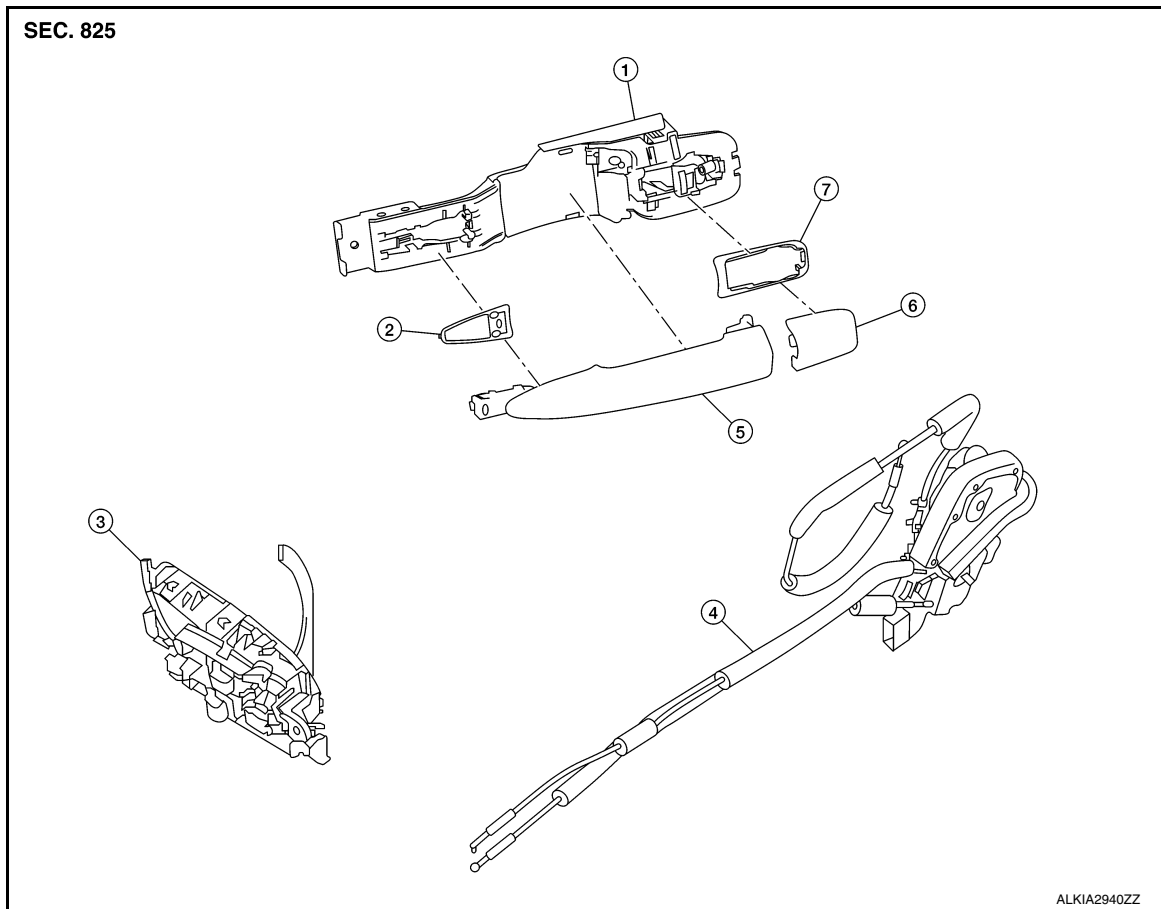
# DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

## REAR DOOR LOCK : Exploded View

INFOID:000000012783212



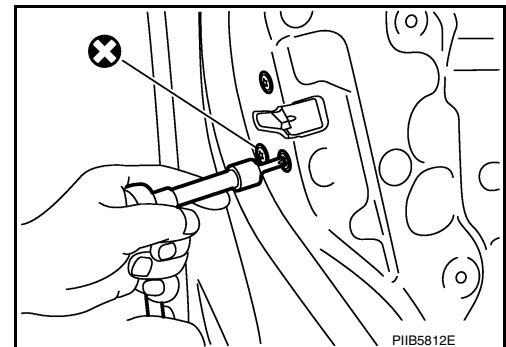
- |                           |                   |                              |
|---------------------------|-------------------|------------------------------|
| 1. Outside handle bracket | 2. Front gasket   | 3. Inside handle assembly    |
| 4. Door lock assembly     | 5. Outside handle | 6. Outside handle escutcheon |
| 7. Rear gasket            |                   |                              |

## REAR DOOR LOCK : Removal and Installation

INFOID:000000012783213

### REMOVAL

1. Remove the rear door outside handle. Refer to [DLK-171. "REAR DOOR HANDLE : Removal and Installation - Outside Handle"](#).
2. Disconnect the harness connector from the rear door lock actuator.
3. Remove the screws and the rear door lock assembly.



### INSTALLATION

Installation is in the reverse order of removal.  
Tighten rear door lock screws to specified torque.

# DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

Rear door lock screws: 5.8 Nm (0.59 kg-m, 51 in-lb)

**CAUTION:**

- Do not reuse rear door lock assembly screws. Always replace screws with new ones when removed.
- Check rear door lock cables are properly engaged to inside handle and outside handle bracket.
- After installation, check rear door open/close, lock/unlock operation.
- Check rear door lock assembly for poor lubrication. If necessary apply a suitable multi-purpose grease.

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# TRUNK LID

< REMOVAL AND INSTALLATION >

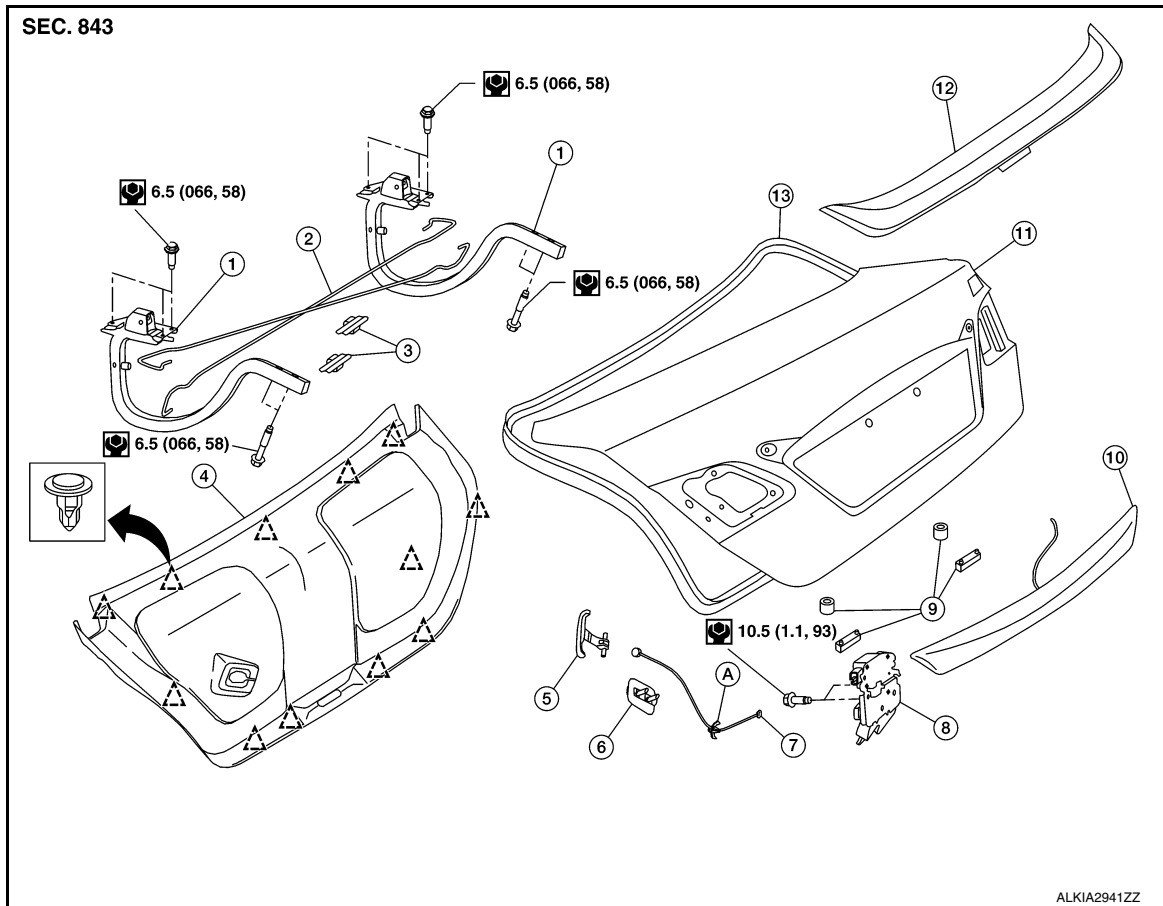
[WITH INTELLIGENT KEY SYSTEM]

## TRUNK LID

## TRUNK LID ASSEMBLY

## TRUNK LID ASSEMBLY : Exploded View

INFOID:000000012783214



- |                                     |                             |                                  |
|-------------------------------------|-----------------------------|----------------------------------|
| 1. Trunk lid hinge LH/RH            | 2. Torsion bar LH/RH        | 3. Torsion bar clips             |
| 4. Trunk lid finisher (if equipped) | 5. Emergency release handle | 6. Emergency release handle clip |
| 7. Emergency release handle cable   | 8. Trunk lid lock           | 9. Trunk lid bumpers             |
| 10. License lamp finisher           | 11. Trunk lid               | 12. Rear spoiler (if equipped)   |
| 13. Weatherstrip                    | A. Clip                     | △ Clip                           |

## TRUNK LID ASSEMBLY : Removal and Installation

INFOID:000000012783215

### CAUTION:

- Use two people when removing or installing trunk lid assembly due to its heavy weight.
- Use protective tape or shop cloths to protect surrounding components from damage during removal and installation of trunk lid assembly.

### REMOVAL

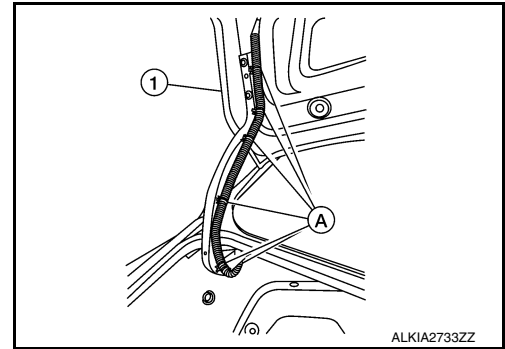
1. Remove trunk lid finisher (if equipped). Refer to [INT-45, "Removal and Installation"](#).

# TRUNK LID

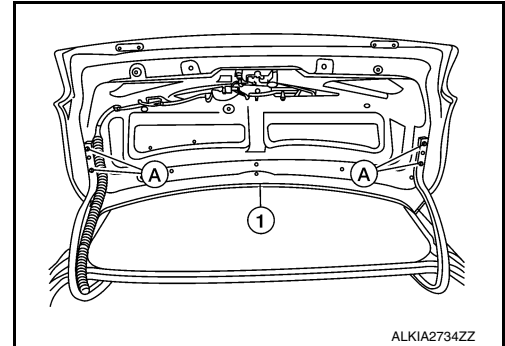
## < REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

2. Disconnect the harness connectors in the trunk lid assembly (1) and remove the harness clips (A) then pull out harness from the trunk lid assembly (1).



3. Remove the bolts (A) and remove the trunk lid assembly (1).



## INSTALLATION

Installation is in the reverse order of removal.

### **CAUTION:**

**After installation, perform the trunk lid assembly adjustment procedure. Refer to [DLK-180, "TRUNK LID ASSEMBLY : Adjustment"](#).**

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DLK

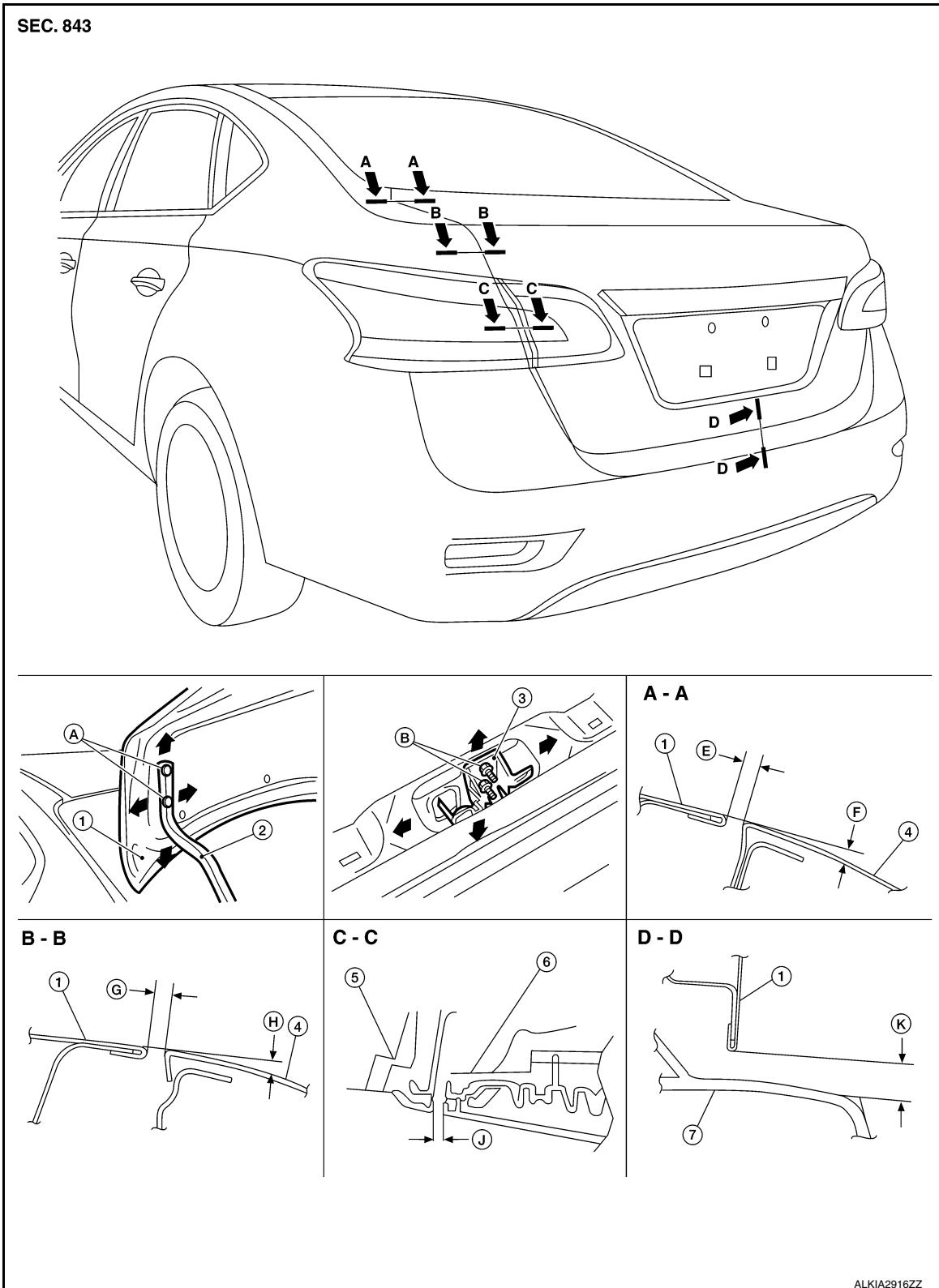
# TRUNK LID

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

## TRUNK LID ASSEMBLY : Adjustment

INFOID:000000012783216



- 1. Trunk lid assembly
- 4. Body side outer
- 7. Rear bumper fascia

- 2. Trunk lid hinge
- 5. Rear combination lamp
- A. Trunk lid bolts

- 3. Trunk lid striker
- 6. Reflector
- B. Striker bolts



# TRUNK LID

## < REMOVAL AND INSTALLATION >

## [WITH INTELLIGENT KEY SYSTEM]

Check the clearance and the surface height between trunk lid and each part by visual inspection and tactile feel.

If the clearance and the surface height are out of specification, adjust them according to the adjustment procedures.

Unit: mm (in)

Section	Item	Measurement	Standard	Parallelism (MAX)	Right/Left Difference (MAX)
A – A	E	Clearance	3.5 ±1.0 (0.14 ±0.04)	2.5 (0.10)	2.0 (0.08)
	F	Surface height	0.0 ±1.0 (0.00 ±0.04)	1.5 (0.06)	1.5 (0.06)
B – B	G	Clearance	3.5 ±1.0 (0.14 ±0.04)	2.5 (0.10)	2.0 (0.08)
	H	Surface height	0.0 ±1.0 (0.00 ±0.04)	1.5 (0.06)	1.5 (0.06)
C – C	J	Clearance	4.5 ±1.9 (0.18 ±0.07)	2.0 (0.08)	3.0 (0.12)
D – D	K	Clearance	7.0 ±2.0 (0.28 ±0.08)	2.0 (0.08)	—

### LONGITUDINAL CLEARANCE

#### Trunk Lid Removed From Hinge

1. Loosen the trunk lid to hinge bolts.
2. Move the trunk lid so that the clearance measurements are within specifications provided.
3. Tighten the trunk lid to hinge bolts.

#### Trunk Lid Hinge Removed From Vehicle

1. Remove the rear parcel shelf finisher. Refer to [INT-33. "Removal and Installation"](#).
2. Loosen the hinge to parcel shelf bolts.
3. Move the trunk lid so that the clearance measurements are within specifications provided.
4. Tighten the hinge to parcel shelf bolts.
5. Install the rear parcel shelf finisher. Refer to [INT-33. "Removal and Installation"](#).

### SURFACE HEIGHT ADJUSTMENT

1. Loosen the bumper rubber.
2. Loosen the striker bolts.
3. Lift up the trunk lid approx. 100 - 150 mm (3.94 - 5.91 in) height then close it lightly. Make sure it engages firmly with the trunk lid closed.
4. Tighten the trunk lid striker.

## TRUNK LID HINGE

### TRUNK LID HINGE : Removal and Installation

INFOID:000000012783217

#### REMOVAL

1. Remove trunk lid assembly. Refer to [DLK-178. "TRUNK LID ASSEMBLY : Removal and Installation"](#).
2. Remove torsion bar. Refer to [DLK-182. "TORSION BAR : Removal and Installation"](#).
3. Remove rear parcel shelf finisher. Refer to [INT-33. "Removal and Installation"](#).
4. Remove trunk lid hinge bolts (body side) and remove.

#### INSTALLATION

Installation is in the reverse order of removal.

#### **CAUTION:**

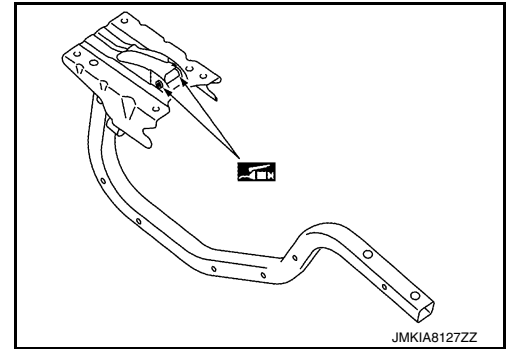
- Check trunk lid open/close, lock/unlock operation after installation.
- After installation, perform the trunk lid assembly adjustment procedure. Refer to [DLK-180. "TRUNK LID ASSEMBLY : Adjustment"](#).

# TRUNK LID

## < REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

- Check trunk lid hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.



## TORSION BAR

### TORSION BAR : Removal and Installation

INFOID:0000000012783218

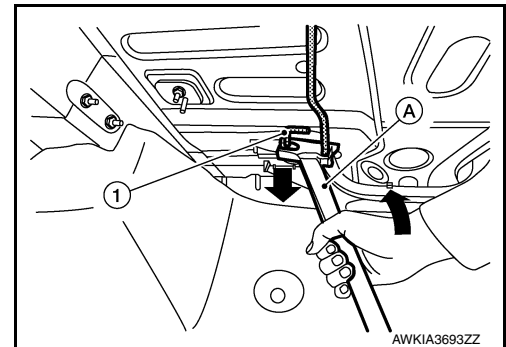
#### REMOVAL

1. Remove torsion bar clip.
2. Support the trunk lid assembly using a suitable tool.

**WARNING:**

**Bodily injury may occur if hood assembly is not supported properly when removing the torsion bars.**

3. Apply suitable tool (A) to torsion bar (1) and lift torsion bar to remove it.



#### INSTALLATION

Installation is in the reverse order of removal.

**CAUTION:**

**After installation check the trunk lid open/close, lock/unlock operation.**

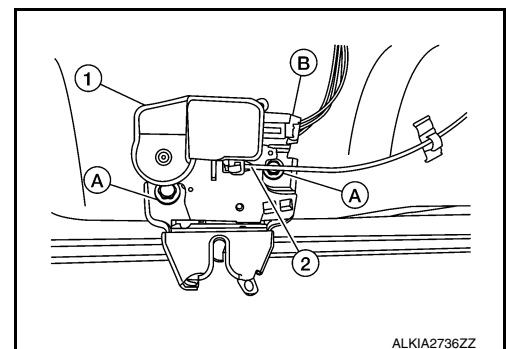
## TRUNK LID LOCK

### TRUNK LID LOCK : Removal and Installation

INFOID:0000000012783219

#### REMOVAL

1. Remove the trunk lid finisher (if equipped). Refer to [INT-45. "Removal and Installation"](#).
2. Disconnect the harness connector (B) and emergency release handle (2) from the trunk lid lock (1).
3. Remove the trunk lid lock bolts (A) and remove.



#### INSTALLATION

# TRUNK LID

## < REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

Installation is in the reverse order of removal.

### CAUTION:

After installation, perform the trunk lid assembly adjustment procedure. Refer to [DLK-180, "TRUNK LID ASSEMBLY : Adjustment"](#).

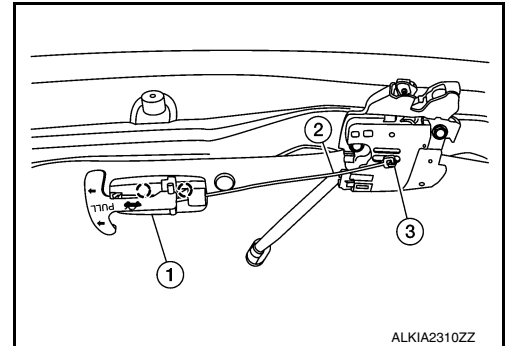
## EMERGENCY LEVER

### EMERGENCY LEVER : Removal and Installation

INFOID:000000012783220

#### REMOVAL

1. Remove the trunk lid finisher (if equipped). Refer to [INT-45, "Removal and Installation"](#).
2. Using a suitable tool release the pawls and remove emergency release handle (1) from trunk lid assembly.  
○: Pawl
3. Disconnect emergency release handle cable (2) from trunk lid lock assembly (3).



#### INSTALLATION

Installation is in the reverse order of removal.

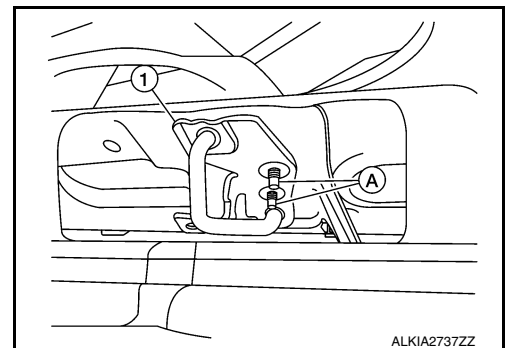
## TRUNK LID STRIKER

### TRUNK LID STRIKER : Removal and Installation

INFOID:000000012783221

#### REMOVAL

1. Remove the trunk kicking plate. Refer to [INT-42, "TRUNK REAR PLATE : Removal and Installation"](#).
2. Remove bolts (A) and striker (1).



#### INSTALLATION

Installation is in the reverse order of removal.

### CAUTION:

After installation, perform the trunk lid assembly adjustment procedure. Refer to [DLK-180, "TRUNK LID ASSEMBLY : Adjustment"](#).

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# FUEL FILLER LID OPENER

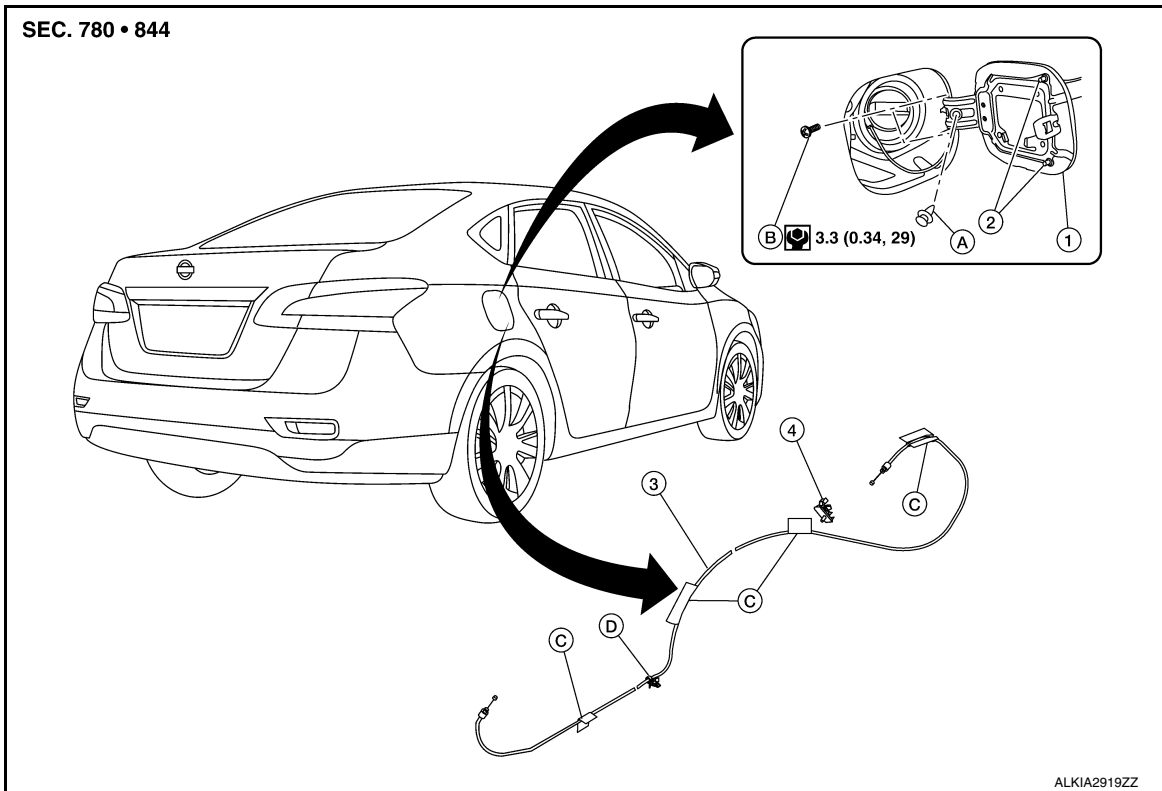
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

## FUEL FILLER LID OPENER

Exploded View

INFOID:000000012783222



- |                         |                  |                                 |
|-------------------------|------------------|---------------------------------|
| 1. Fuel filler lid      | 2. Bumper rubber | 3. Fuel filler lid opener cable |
| 4. Fuel filler lid lock | A. Clip          | B. Bolt                         |
| C. Cable protector      |                  |                                 |

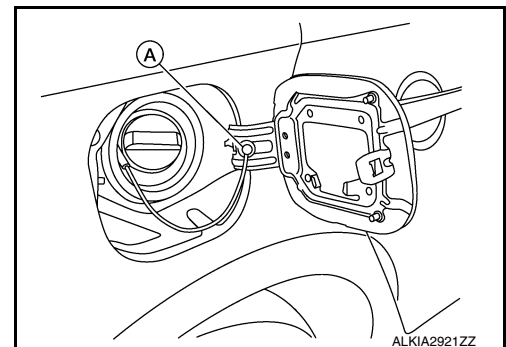
## FUEL FILLER LID

### FUEL FILLER LID : Removal and Installation

INFOID:000000012783223

#### REMOVAL

1. Fully open fuel filler lid.
2. Remove fuel cap clip (A).

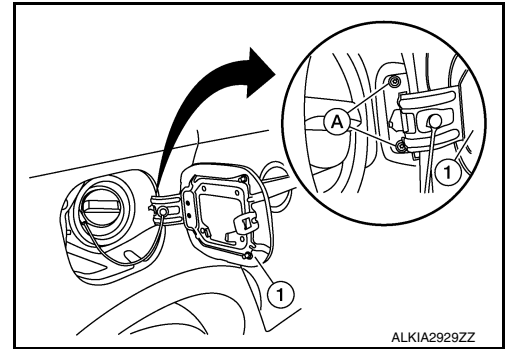


## FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

- Remove fuel filler lid screws (A) and fuel filler lid (1).



### INSTALLATION

Installation is in the reverse order of removal.

#### CAUTION:

After installation, check fuel filler lid assembly open/close, lock/unlock operation.

#### NOTE:

- The following table shows the specifications for a correctly installed fuel filler lid.
- Fitting adjustment cannot be performed.

Unit: mm (in)

Portion	Measurement	Standard
Fuel filler lid – Body side outer	Clearance	5.1 ±1.0 (0.20 ±0.04)
Fuel filler lid – Body side outer	Surface height	0.0 ±1.0 (0.0 ±0.04)

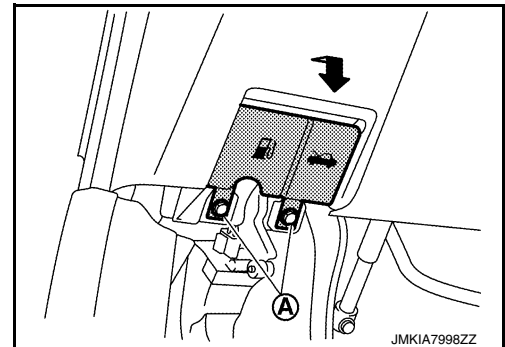
## FUEL FILLER OPENER CABLE

### FUEL FILLER OPENER CABLE : Removal and Installation

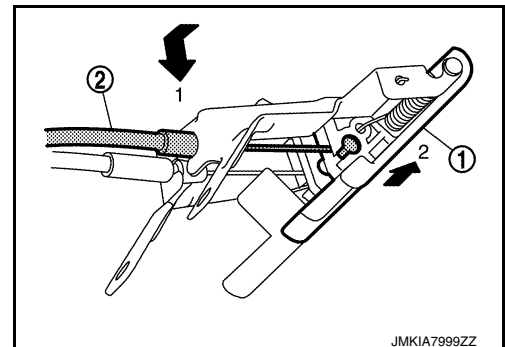
INFOID:000000012783224

#### REMOVAL

- Remove hood and fuel filler handle assembly bolts (A).



- Release fuel filler lid opener cable (2) by pulling downward and then sliding cable end to the side to remove from hood and fuel filler handle assembly (1).



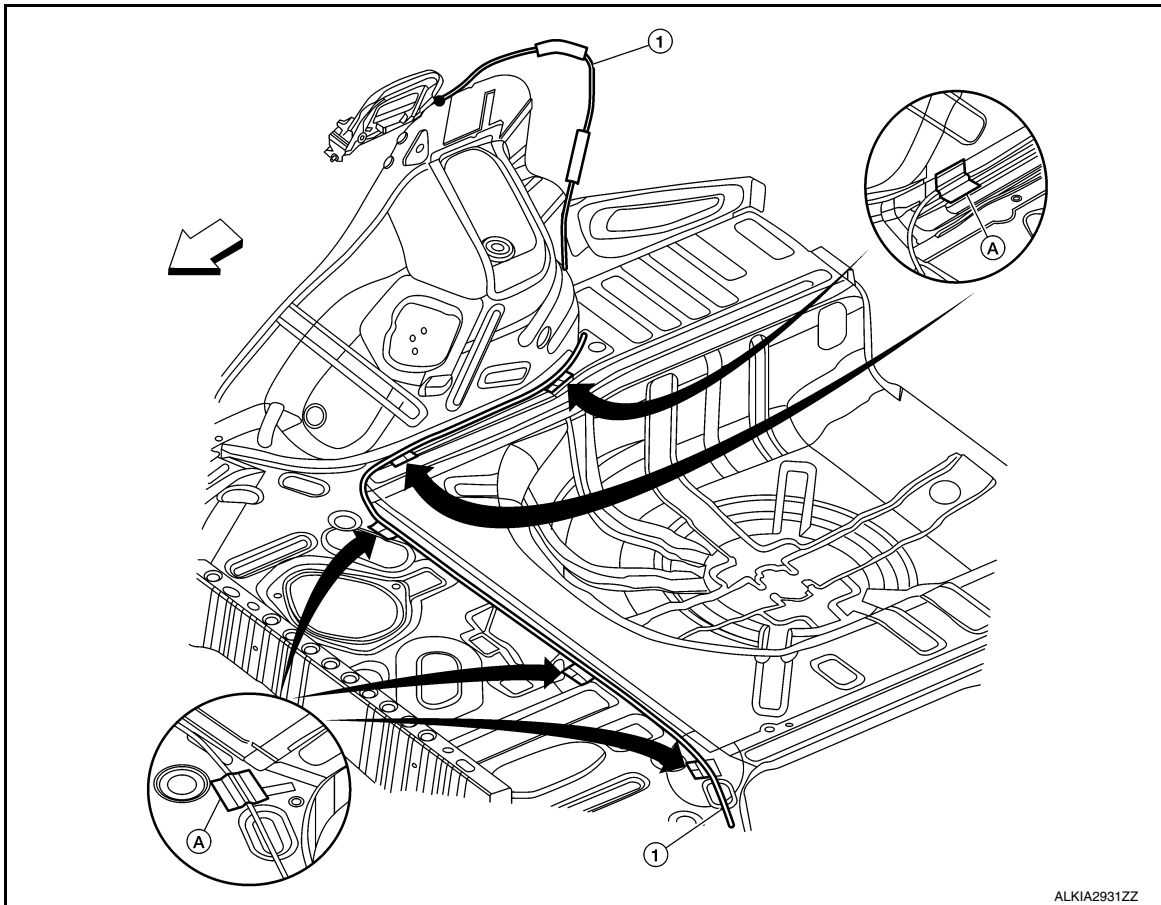
- Remove dash side finisher (LH). Refer to [IP-14, "Removal and Installation"](#).
- Remove center pillar lower finisher (LH). Refer to [INT-27, "CENTER PILLAR LOWER FINISHER : Removal and Installation"](#).

## FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

5. Remove rear seat bolster (LH). Refer to [SE-37. "Removal and Installation - Rear Seat Bolster"](#).
6. Remove trunk side finisher (LH). Refer to [INT-43. "TRUNK SIDE FINISHER : Removal and Installation"](#).
7. Remove fuel filler lid opener cable (1) from fuel filler lid lock assembly. Refer to [DLK-186. "FUEL FILLER LID LOCK : Removal and Installation"](#).



⇐ Front

8. Remove each cable protector (A), then remove fuel filler lid opener cable (1).

### INSTALLATION

Installation is in the reverse order of removal.

#### **CAUTION:**

**After installation, check fuel filler lid assembly open/close, lock/unlock operation.**

## FUEL FILLER LID LOCK

### FUEL FILLER LID LOCK : Removal and Installation

INFOID:000000012783225

#### REMOVAL

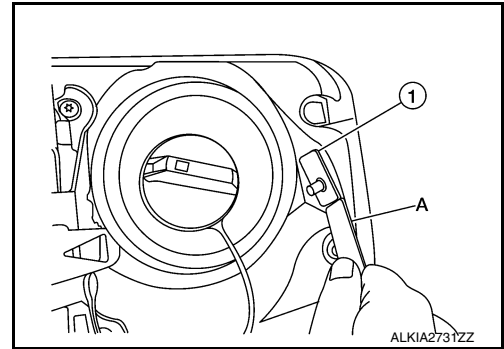
1. Fully open fuel filler lid.

# FUEL FILLER LID OPENER

## < REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

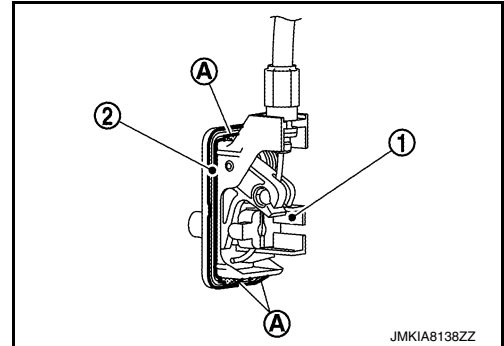
2. Insert a suitable tool (A) as shown into bottom of fuel filler lock assembly (1).



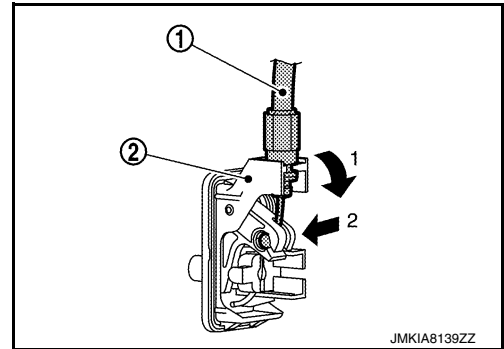
3. Release upper and lower pawls (A) using a suitable tool and remove fuel filler lid lock assembly (1).

**CAUTION:**

**Be careful not to damage gasket (2) when removing.**



4. Disconnect fuel filler lid opener cable (1) by pulling downward and then sliding cable end to the side to remove from fuel filler lid lock assembly (2).



## INSTALLATION

Installation is in the reverse order of removal.

**CAUTION:**

**After installation, check fuel filler lid assembly open/close, lock/unlock operation.**

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# DOOR SWITCH

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

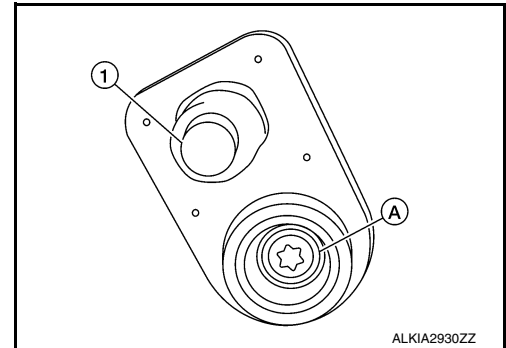
## DOOR SWITCH

### Removal and Installation

INFOID:000000012783226

#### REMOVAL

1. Remove the door switch screw (A).
2. Disconnect the harness connector from the door switch (1) and remove.



#### INSTALLATION

Installation is in the reverse order of removal.



# INSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

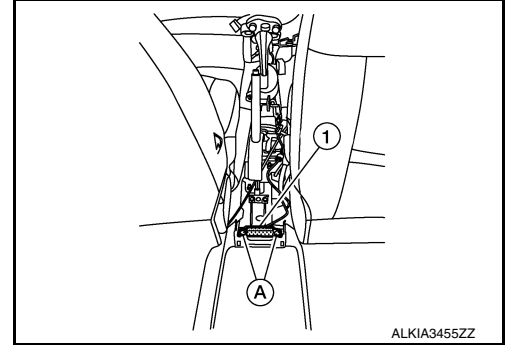
## INSIDE KEY ANTENNA CONSOLE

### CONSOLE : Removal and Installation

INFOID:0000000012783227

#### REMOVAL

1. Remove the shift selector finisher. Refer to [IP-17. "Removal and Installation"](#).
2. Remove the inside key antenna (console) screws (A) and inside key antenna (console) (1).



#### INSTALLATION

Installation is in the reverse order of removal.

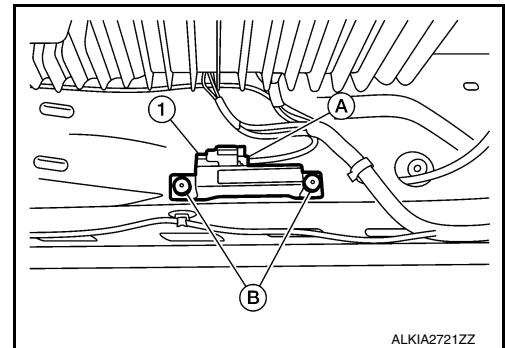
## LUGGAGE ROOM

### LUGGAGE ROOM : Removal and Installation

INFOID:0000000012783228

#### REMOVAL

1. Disconnect the harness connector (A) from the inside key antenna (luggage room) (1).
2. Remove the inside key antenna (luggage room) clips (B), and remove.



#### INSTALLATION

Installation is in the reverse order of removal.

## INSTRUMENT CENTER

### INSTRUMENT CENTER : Removal and Installation

INFOID:0000000012783229

#### REMOVAL

1. Remove the A/C switch assembly (automatic air conditioner). Refer to [HAC-104. "Removal and Installation"](#).
2. Remove the A/C switch assembly (manual air conditioner). Refer to [HAC-189. "Removal and Installation"](#)
3. Disconnect the harness connector from the inside key antenna (instrument center).
4. Remove the inside key antenna (instrument center) screws and inside key antenna (instrument center).

#### INSTALLATION

Installation is in the reverse order of removal.

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# OUTSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

## OUTSIDE KEY ANTENNA

### DRIVER SIDE

#### DRIVER SIDE : Removal and Installation

INFOID:000000012783230

The driver side outside key antenna and driver side outside handle are serviced as an assembly. Refer to [DLK-168, "FRONT DOOR HANDLE : Removal and Installation - Outside Handle"](#).

### PASSENGER SIDE

#### PASSENGER SIDE : Removal and Installation

INFOID:000000012783231

The passenger side outside key antenna and passenger side outside handle are serviced as an assembly. Refer to [DLK-168, "FRONT DOOR HANDLE : Removal and Installation - Outside Handle"](#).

Installation is in the reverse order of removal.

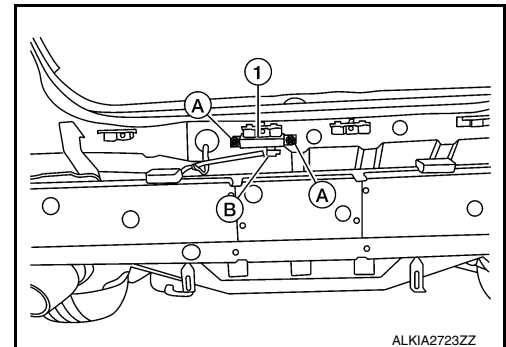
## REAR BUMPER

### REAR BUMPER : Removal and Installation

INFOID:000000012783232

#### REMOVAL

1. Remove rear bumper fascia. Refer to [EXT-20, "Removal and Installation"](#).
2. Disconnect the harness connector (B) from the rear bumper key antenna (1).
3. Remove the nuts (A) that retain the rear bumper key antenna (1) to the body.



ALKIA2723ZZ

#### INSTALLATION

Installation is in the reverse order of removal.

# DOOR REQUEST SWITCH

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

## DOOR REQUEST SWITCH

### DRIVER SIDE

#### DRIVER SIDE : Removal and Installation

INFOID:0000000012783233

The driver side door request switch and driver side outside handle are serviced as an assembly. Refer to [DLK-168, "FRONT DOOR HANDLE : Removal and Installation - Outside Handle"](#).

### PASSENGER SIDE

#### PASSENGER SIDE : Removal and Installation

INFOID:0000000012783234

The passenger side door request switch and passenger side outside handle are serviced as an assembly. Refer to [DLK-168, "FRONT DOOR HANDLE : Removal and Installation - Outside Handle"](#).

### TRUNK LID FINISHER

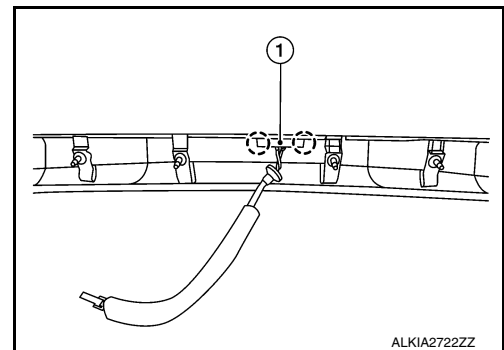
#### TRUNK LID FINISHER : Removal and Installation

INFOID:0000000012783235

#### REMOVAL

1. Remove the license lamp finisher. Refer to [EXT-44, "Removal and Installation"](#).
2. Release the pawls and remove the trunk lid request switch (1).

○: Pawl



#### INSTALLATION

Installation is in the reverse order of removal.

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# INTELLIGENT KEY WARNING BUZZER

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

## INTELLIGENT KEY WARNING BUZZER

### Removal and Installation

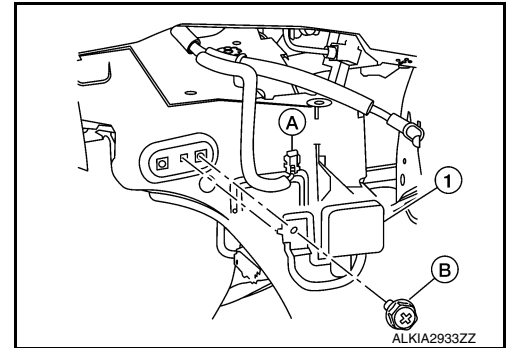
INFOID:000000012783236

#### REMOVAL

##### NOTE:

The Intelligent Key warning buzzer is located in the front passenger side area of the engine compartment, near the washer tank.

1. Remove the washer tank inlet. Refer to [WW-53, "Exploded View"](#).
2. Remove the nut (B) and the Intelligent Key warning buzzer (1).
3. Disconnect the harness connector (A) from the Intelligent Key warning buzzer (1) and remove.



#### INSTALLATION

Installation is in the reverse order of removal.

# REMOTE KEYLESS ENTRY RECEIVER

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

## REMOTE KEYLESS ENTRY RECEIVER

### Removal and Installation

INFOID:000000012783237

#### REMOVAL

1. Remove glove box assembly. Refer to [IP-22, "Removal and Installation"](#).
2. Disconnect the harness connector from the remote keyless entry receiver.
3. Remove the screw and remote keyless entry receiver.

#### INSTALLATION

Installation is in the reverse order of removal.

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# INTELLIGENT KEY BATTERY

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

## INTELLIGENT KEY BATTERY

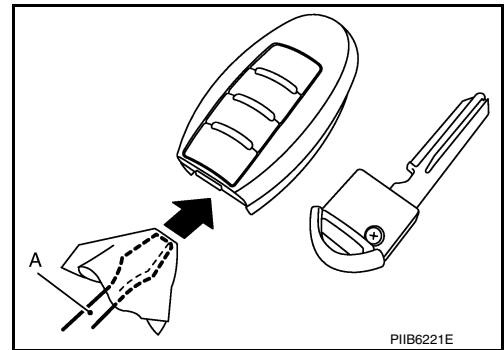
### Removal and Installation

INFOID:000000012783238

1. Release the lock knob on the back of the Intelligent Key and remove the key.
2. Insert a suitable tool (A) wrapped with a cloth into the slit of the corner and rotate it to separate the upper part from the lower part.

**CAUTION:**

- Do not insert a tool into the notches of the Intelligent Key to pry it open, as this may damage the circuit board.
- Do not use excessive force when opening the Intelligent Key, as this may result in damage to the internal components.
- Do not touch the circuit board or battery terminal.
- The key fob is water-resistant. However, if it does get wet, immediately wipe it dry.



3. Replace the battery with a new one.

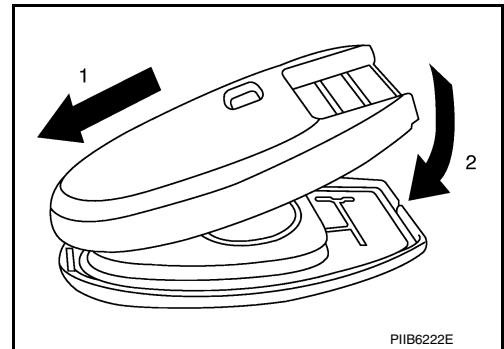
**Battery replacement**

**:Coin-type lithium battery  
(CR2032)**

4. Align the tips of the upper and lower parts, and then push them together until unit is securely closed.

**CAUTION:**

- When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.
- After replacing the battery, check that all Intelligent Key functions work normally.



# TRUNK LID OPENER SWITCH

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

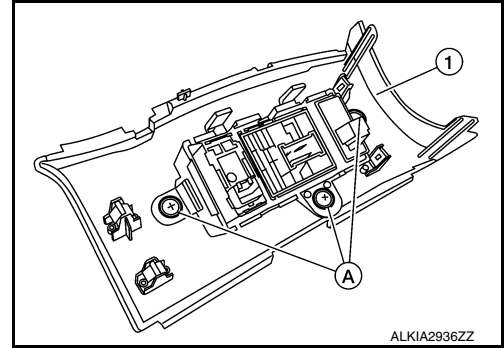
## TRUNK LID OPENER SWITCH

### Removal and Installation

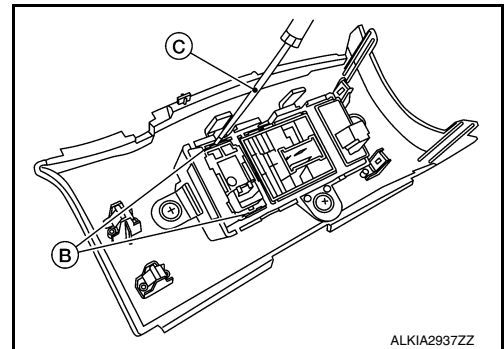
INFOID:000000012783239

#### REMOVAL

1. Remove the instrument lower panel LH. Refer to [IP-21. "Removal and Installation"](#).
2. Remove to the instrument finisher D (1).
3. Remove the screws (A) that retain the switch carrier to the instrument finisher D (1).



4. Release upper tab and lower tab (B) using a suitable tool (C), then remove the trunk lid opener switch from the upper switch carrier.



#### INSTALLATION

Installation is in the reverse order of removal.

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# PRECAUTIONS

[WITHOUT INTELLIGENT KEY SYSTEM]

< PRECAUTION >

## PRECAUTION

### PRECAUTIONS

#### Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000013475471

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

#### **WARNING:**

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.
- Improper repair, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

#### PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

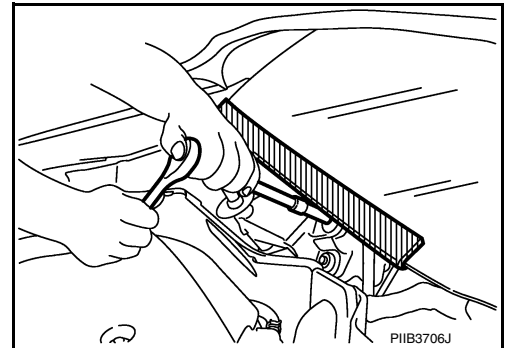
#### **WARNING:**

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery or batteries, and wait at least three minutes before performing any service.

#### Procedure without Cowl Top Cover

INFOID:000000012783241

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc.



#### Precaution for Servicing Doors and Locks

INFOID:000000012783242

#### **WARNING:**

Radio waves could adversely affect electric medical equipment. Those who use a pacemaker should contact the electric medical equipment manufacturer for the possible influences before use,

- After removing and installing the opening/closing parts, be sure to carry out fitting adjustments to check their operation.
- Check the lubrication level, damage, and wear of each part. If necessary, grease or replace it.
- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.



## PRECAUTIONS

< PRECAUTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:
  - Water soluble dirt:
    - Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
    - Then rub with a soft, dry cloth.
  - Oily dirt:
    - Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
    - Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
    - Then rub with a soft, dry cloth.
  - Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
  - For genuine leather seats, use a genuine leather seat cleaner.

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# PREPARATION

[WITHOUT INTELLIGENT KEY SYSTEM]

< PREPARATION >

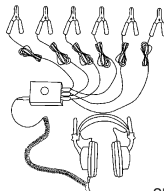

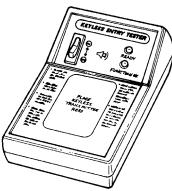
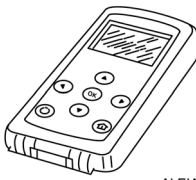
## PREPARATION

### PREPARATION

#### Special Service Tools

INFOID:000000012783243

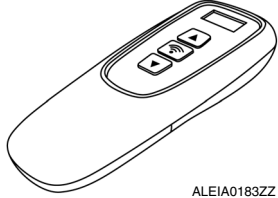
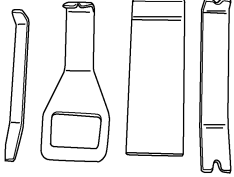
The actual shape of the tools may differ from those illustrated here.

Tool number (TechMate No.) Tool name	Description
<p>— (J-39570) Chassis Ear</p>  <p style="text-align: right; font-size: small;">SIIA0993E</p>	<p>Locating the noise</p>
<p>— (J-50397) NISSAN Squeak and Rattle Kit</p>  <p style="text-align: right; font-size: small;">ALJIA1232ZZ</p>	<p>Repairing the cause of noise</p>
<p>— (J-43241) Remote Keyless Entry Tester</p>  <p style="text-align: right; font-size: small;">LEL946A</p>	<p>Used to test key fobs</p>
<p>— (J-50190) Signal Tech II</p>  <p style="text-align: right; font-size: small;">ALEIA0131ZZ</p>	<ul style="list-style-type: none"> <li>• Activate and display TPMS transmitter IDs</li> <li>• Display tire pressure reported by the TPMS transmitter</li> <li>• Read TPMS DTCs</li> <li>• Register TPMS transmitter IDs</li> <li>• Test remote keyless entry keyfob relative signal strength</li> <li>• Compatible with future sensors</li> <li>• Equipped with a display</li> <li>• Check Intelligent Key relative signal strength</li> <li>• Confirm vehicle Intelligent Key antenna signal strength</li> </ul>

# PREPARATION

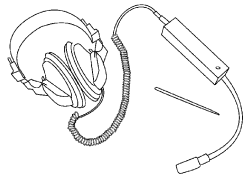
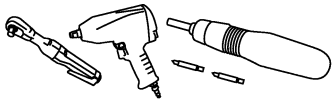

[WITHOUT INTELLIGENT KEY SYSTEM]

< PREPARATION >

Tool number (TechMate No.) Tool name	Description
KV48105501 (J-45295-A) Transmitter activation tool   ALEIA0183ZZ	<ul style="list-style-type: none"> <li>• Activate TPMS transmitter IDs</li> <li>• Compatible with future sensors</li> <li>• Equipped with a display (KV48105501 only)</li> </ul>
— (J-46534) Trim Tool Set   AWJIA0483ZZ	Removing trim components

## Commercial Service Tools

INFOID:000000012783244

(TechMate No.) Tool name	Description
(J-39565) Engine Ear   SIAA0995E	Locating the noise
( — ) Power tool   PIIB1407E	Loosening nuts, screws and bolts
( — ) Torsion bar wrench   AWKIA3594ZZ	Removing trunk lid torsion bar

# CLIP LIST

< PREPARATION >


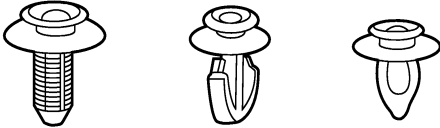


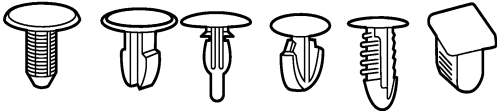
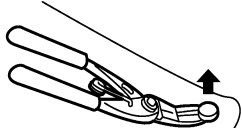

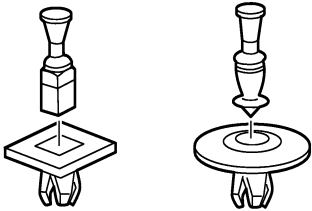
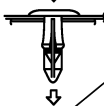
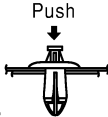

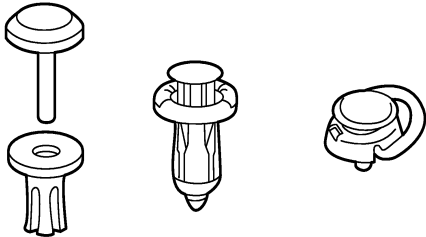


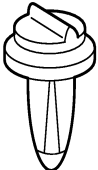
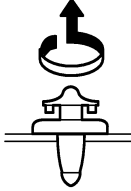
[WITHOUT INTELLIGENT KEY SYSTEM]

## CLIP LIST

### Descriptions for Clips

INFOID:000000012783245

Replace any clips which are damaged during removal or installation.


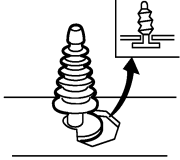
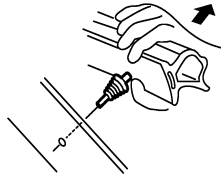

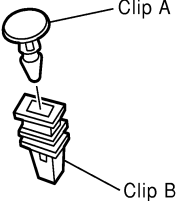
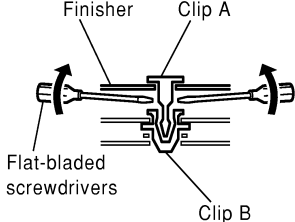

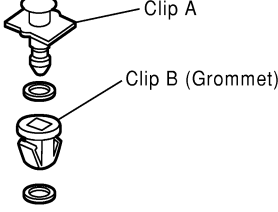
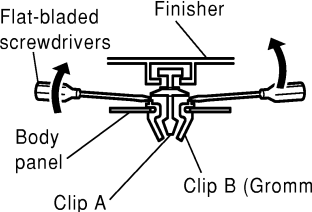


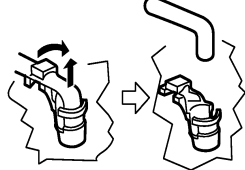

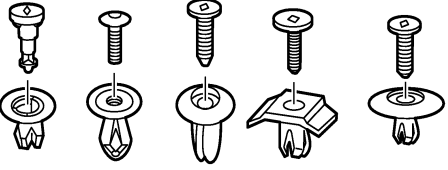

Symbol No.	Shapes	Removal & Installation
<p>C101</p> 		<p><b>Removal:</b> Remove by bending up with flat-bladed screwdrivers or clip remover.</p> 
<p>C103</p> 		 <p><b>Removal:</b> Remove with a clip remover.</p>
<p>C203</p> 		<p><b>Removal:</b> Push center pin to catching position. (Do not remove center pin by hitting it.)</p> <p>Push</p>  <p><b>Installation:</b></p> 
<p>C205</p> 		<p><b>Removal:</b></p>  <p>Flat-bladed screwdriver</p> <p>Clip</p> <p>Finisher</p>
<p>C206</p> 		<p><b>Removal:</b></p> 

SIIA0315E

# CLIP LIST

< PREPARATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Symbol No.	Shapes	Removal & Installation
<p>CE103</p> 		<p><b>Removal:</b></p> 
<p>CF110</p> 		<p><b>Removal:</b></p> 
<p>CF118</p> 		<p><b>Removal:</b></p> 
<p>CR103</p> 		<p><b>Removal:</b> Holder portion of clip must be spread out to remove rod.</p> 
<p>CS101</p> 		<p><b>Removal:</b></p> <ol style="list-style-type: none"> <li>1. Screw out with a Phillips screwdriver.</li> <li>2. Remove female portion with flat-bladed screwdriver.</li> </ol> 


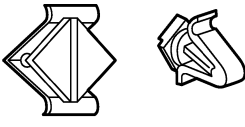
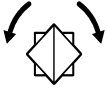
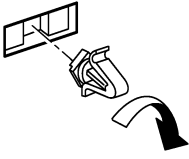

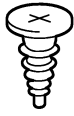



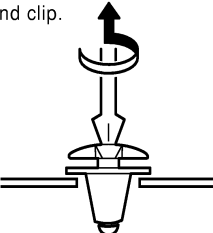


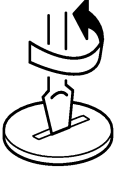
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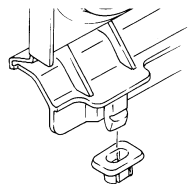
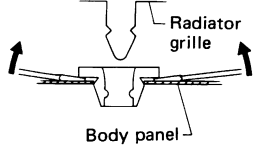
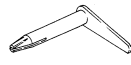
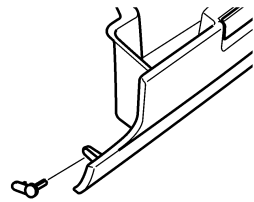
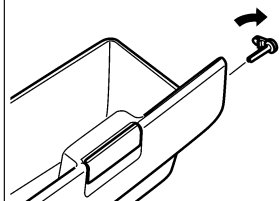

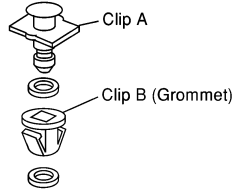
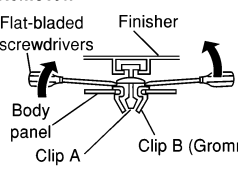
Symbol No.	Shapes	Removal & Installation	
CG101 		<b>Removal:</b>  Rotate 45° to remove	<b>Installation:</b> 
CS102 			
CS113 		<b>Removal:</b> Disconnect upper connection of clip with a flat-bladed screwdriver, then remove clip while inserting a flat-bladed screwdriver between body panel and clip. 	
C111 			

SIIA0317E

# CLIP LIST

< PREPARATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Symbol No.	Shapes	Removal & Installation
<p>CG104</p> 		<p><b>Removal:</b> Remove by bending up with flat-bladed screwdrivers.</p>  <p>Radiator grille Body panel</p>
<p>CE114</p> 		
<p>CF118</p> 	 <p>Clip A Clip B (Grommet)</p>	<p><b>Removal:</b> Flat-bladed screwdrivers Finisher</p>  <p>Body panel Clip A Clip B (Grommet)</p>

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## COMPONENT PARTS

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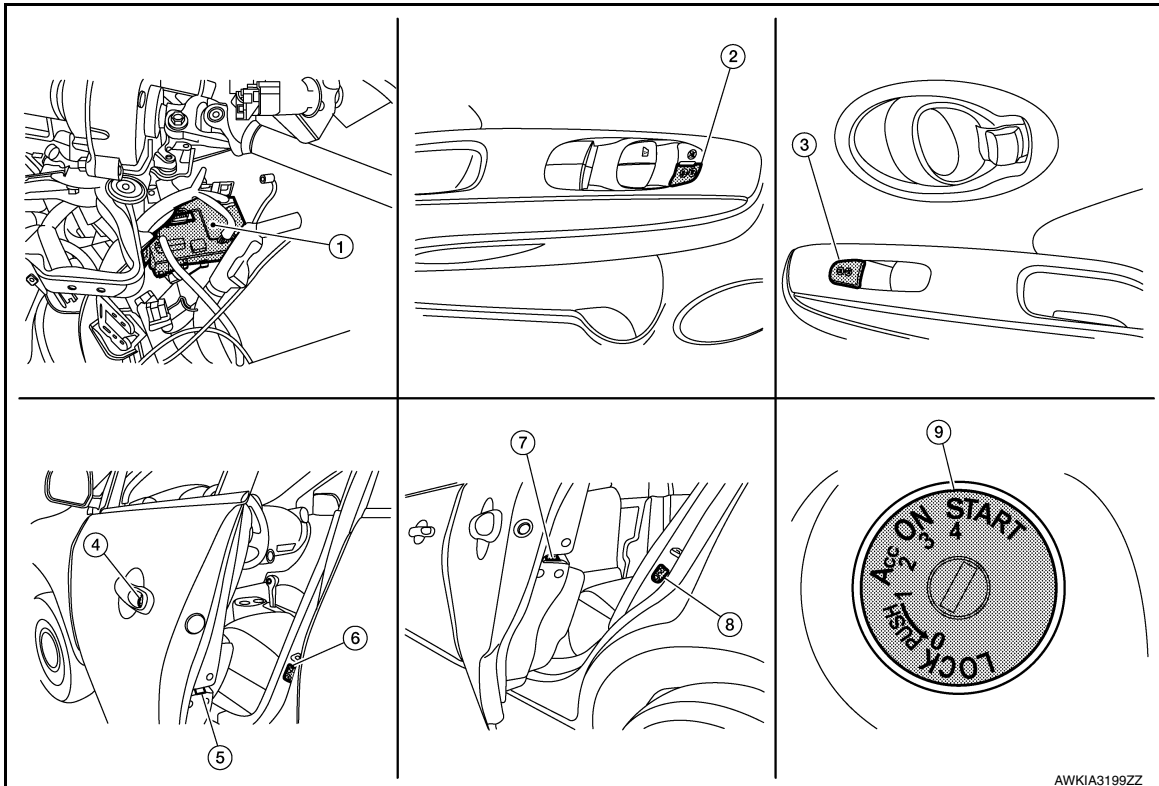
# SYSTEM DESCRIPTION

## COMPONENT PARTS

### AUTOMATIC DOOR LOCK/UNLOCK FUNCTION

### AUTOMATIC DOOR LOCK/UNLOCK FUNCTION : Component Parts Location

INFOID:000000012783246



AWKIA3199ZZ

- |  |  |  |
|--|--|--|
| 1. BCM<br>(view with instrument panel removed) | 2. Main power window and door lock/unlock switch | 3. Power window and door lock/unlock switch RH |
| 4. Front door lock key cylinder switch LH      | 5. Front door lock actuator LH<br>(RH similar)   | 6. Front door switch LH<br>(RH similar)        |
| 7. Rear door lock actuator LH<br>(RH similar)  | 8. Rear door switch LH<br>(RH similar)           | 9. Key switch                                  |

### AUTOMATIC DOOR LOCK/UNLOCK FUNCTION : Component Description

INFOID:000000012783247

Item	Function
BCM	Controls the door lock function.
Door lock and unlock switch	Input lock or unlock signal to BCM.
Door lock actuator	Output lock/unlock signal from BCM and locks/unlocks each door.
Door switch	Input door open/close condition to BCM.
Key switch	Input key switch condition to BCM.
Front door lock key cylinder switch LH	Input lock or unlock signal to the BCM.
ABS actuator and electric unit (control unit)	Transmits vehicle speed signal to CAN communication line.
Ignition switch	Input ignition switch ON/OFF condition to BCM.

## POWER DOOR LOCK SYSTEM



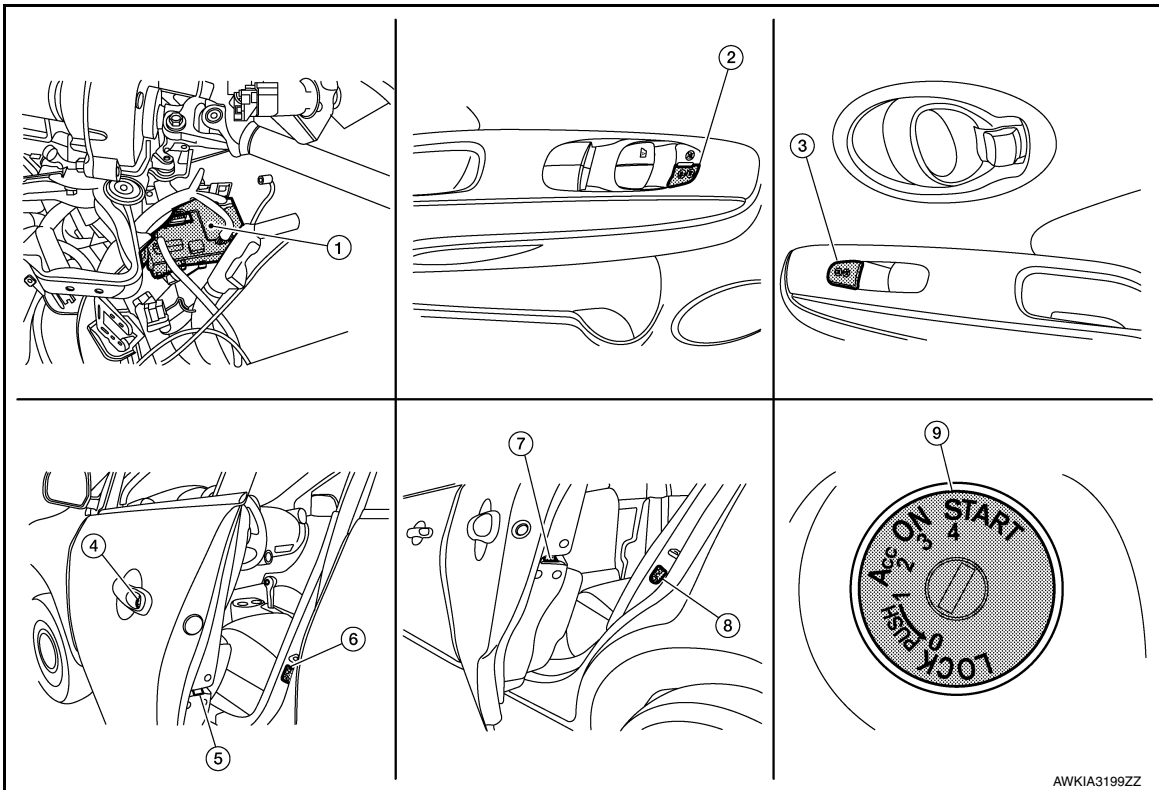
# COMPONENT PARTS

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

## POWER DOOR LOCK SYSTEM : Component Parts Location

INFOID:000000012783248



- |  |  |  |
|--|--|--|
| 1. BCM<br>(view with instrument panel removed) | 2. Main power window and door lock/unlock switch | 3. Power window and door lock/unlock switch RH |
| 4. Front door lock key cylinder switch LH      | 5. Front door lock actuator LH<br>(RH similar)   | 6. Front door switch LH<br>(RH similar)        |
| 7. Rear door lock actuator LH<br>(RH similar)  | 8. Rear door switch LH<br>(RH similar)           | 9. Key switch                                  |

## POWER DOOR LOCK SYSTEM : Component Description

INFOID:000000012783249

Item	Function
BCM	Controls the door lock function.
Door lock and unlock switch	Input lock or unlock signal to BCM.
Door lock actuator	Output lock/unlock signal from BCM and locks/unlocks each door.
Door switch	Input door open/close condition to BCM.
Key switch	Input key switch condition to BCM.
Front door lock key cylinder switch LH	Input lock or unlock signal to the BCM.
ABS actuator and electric unit (control unit)	Transmits vehicle speed signal to CAN communication line.
Ignition switch	Input ignition switch ON/OFF condition to BCM.

## REMOTE KEYLESS ENTRY SYSTEM

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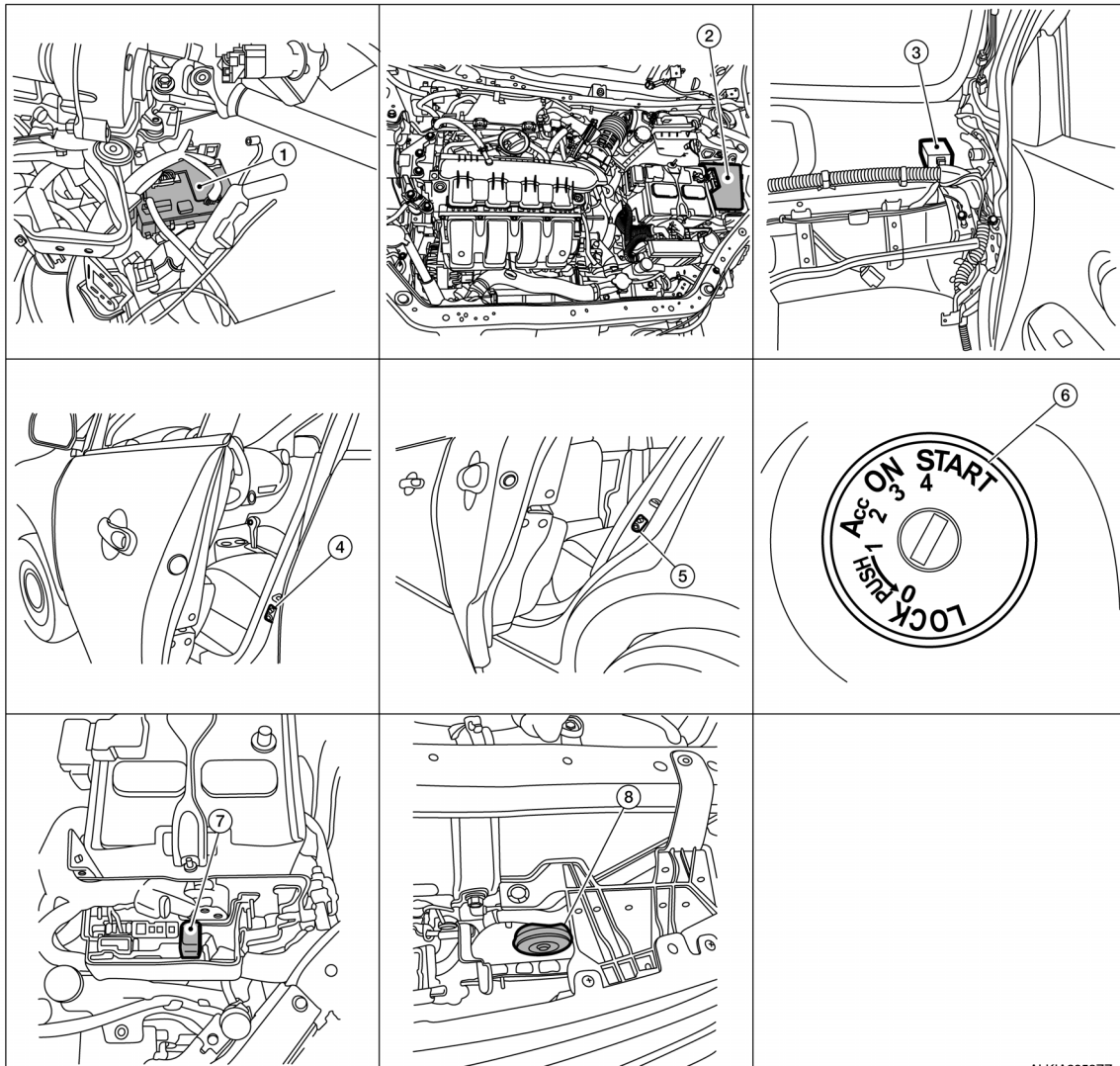
# COMPONENT PARTS

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

## REMOTE KEYLESS ENTRY SYSTEM : Component Parts Location

INFOID:000000012783250



ALKIA2953ZZ

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| 1. BCM<br>(view with instrument panel removed) | 2. IPDM E/R                            | 3. Remote keyless entry receiver<br>(view with instrument panel removed) |
| 4. Front door switch LH<br>(RH similar)        | 5. Rear door switch LH<br>(RH similar) | 6. Key switch  |
| 7. Horn relay                                  | 8. Horn                                |  |

## REMOTE KEYLESS ENTRY SYSTEM : Component Description

INFOID:000000012783251

Item	Function
BCM	Controls the door lock function.
Door lock and unlock switch	Input lock or unlock signal to BCM.
Door switch	Input door open/close condition to BCM.
Key switch	Input key switch condition to BCM.
Remote keyless entry receiver	Receives lock/unlock signal from the keyfob, and then transmits to BCM.
Ignition switch	Input ignition switch ON/OFF condition to BCM.
Horn	Provides audible warning in panic mode.

## TRUNK LID OPENER SYSTEM

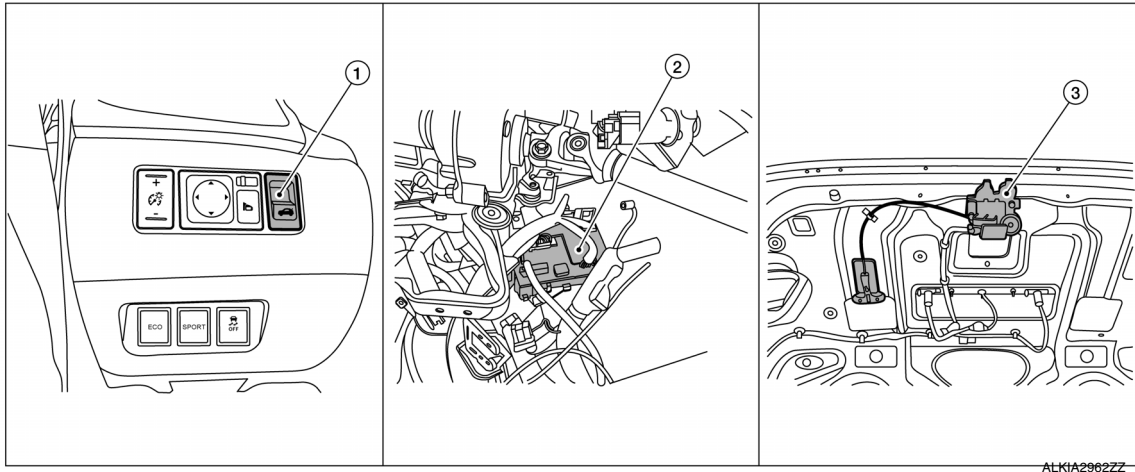
# COMPONENT PARTS

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

## TRUNK LID OPENER SYSTEM : Component Parts Location

INFOID:000000012783252



1. Trunk lid opener switch

2. BCM (view with instrument panel removed)

3. Trunk lid opener assembly (trunk lid opener actuator and trunk lid switch)

## TRUNK LID OPENER SYSTEM : Component Description

INFOID:000000012783253

Item	Function
BCM	Controls the trunk lid opener system.
Trunk lid opener actuator	Releases the mechanical latch to open the trunk lid.
Trunk lid opener switch	Inputs the trunk open request to the BCM.
Trunk lid switch	Inputs the trunk lid open/close condition to the BCM.

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# SYSTEM (POWER DOOR LOCK SYSTEM)

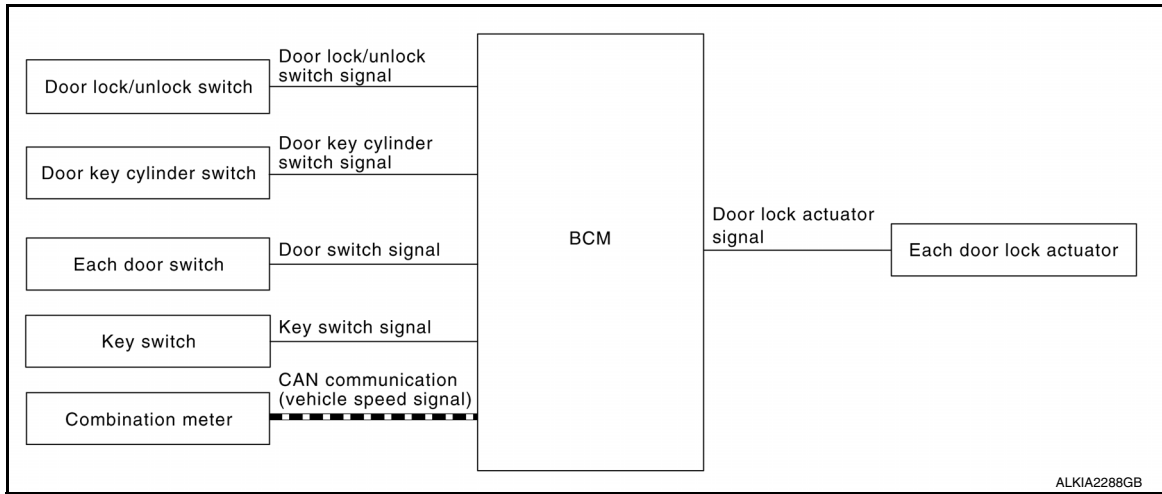
< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

## SYSTEM (POWER DOOR LOCK SYSTEM) AUTOMATIC DOOR LOCK/UNLOCK FUNCTION

### AUTOMATIC DOOR LOCK/UNLOCK FUNCTION : System Diagram

INFOID:000000012783254



### AUTOMATIC DOOR LOCK/UNLOCK FUNCTION : System Description

INFOID:000000012783255

Input	Single	Function	Actuator
Door lock/unlock switch	Door lock/unlock signal	Door lock function	• Each door lock actuator
Door key cylinder switch			
Each door switch	Door open/close signal	Key reminder function	
Combination meter.	Warning buzzer signal		
	Vehicle speed signal	Automatic door lock/unlock function	

#### DOOR LOCK FUNCTION

- The door lock and unlock switch (driver side) is built into main power window and door lock/unlock switch.
- The door lock and unlock switch (passenger side) is built into power window and door lock/unlock switch RH.
- Interlocked with the locking operation of door lock and unlock switch, door lock actuators of all doors are locked.
- Interlocked with the unlocking operation of door lock and unlock switch, door lock actuators of all doors are unlocked.

#### Door Key Cylinder

- With the door key inserted in the door key cylinder on driver side, turning it to “LOCK”, will lock door lock actuator of all doors.
- With the door key inserted in the door key cylinder on driver side, turning it to “UNLOCK” once unlocks the driver side door lock actuator; turning it to “UNLOCK” again within 60 seconds after the first unlock operation unlocks all of the other doors. - (SELECTIVE UNLOCK OPERATION)

Selective unlock operation mode can be changed using “DOOR LOCK-UNLOCK SET” mode in “WORK SUPPORT”. Refer to [BCS-93, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

#### AUTOMATIC DOOR LOCKS (LOCK OPERATION)

The automatic door locks function is the function that locks all doors linked with the vehicle speed or shift position.

#### Vehicle Speed Sensing Auto Door Lock\*1

All doors are locked when the vehicle speed reaches 24 km/h (15 MPH) or more.

BCM outputs the lock signal to all door lock actuators when it detects that the ignition switch is turned ON, all doors are closed and the vehicle speed received from the combination meter via CAN communication becomes 24 km/h (15 MPH) or more.

# SYSTEM (POWER DOOR LOCK SYSTEM)

[WITHOUT INTELLIGENT KEY SYSTEM]

## < SYSTEM DESCRIPTION >

If a door is opened and closed at any time during one ignition cycle (OFF → ON), even after initial auto door lock operation has taken place, the BCM will relock all doors when the vehicle speed reaches 24 km/h (15 MPH) or more again.

Setting change of Automatic Door Locks (LOCK) Function

The LOCK operation setting of the automatic door locks function can be changed.

### **With CONSULT**

The ON/OFF switching of the automatic door locks (LOCK) function and the type selection of the automatic door locks (LOCK) function can be performed at the WORK SUPPORT setting of CONSULT. Refer to [BCS-93, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

### **Without CONSULT**

The automatic door locks (LOCK) function can be switched ON/OFF by performing the following operation.

1. Close all doors (door switch OFF)
2. Push the ignition switch to the ON position
3. Press and hold the door lock and unlock switch for 5 seconds or more in the lock direction within 20 seconds after turning the ignition switch ON.
4. The switching is completed when the hazard lamp blinks.

OFF → ON : 2 blinks

ON → OFF : 1 blink

5. The ignition switch must be turned OFF and ON again between each setting change.

## AUTOMATIC DOOR LOCKS (UNLOCK OPERATION)

The automatic door locks (UNLOCK) function is the function that unlocks all doors linked with the key position or shift position.

### IGN OFF Interlock Door Unlock<sup>\*1</sup>

All doors are unlocked when the power supply position is changed from ON to OFF.

BCM outputs the unlock signal to all door lock actuators when it detects that the power supply position is changed from ignition switch ON to OFF.

Setting change of Automatic Door Locks (UNLOCK) Function

The UNLOCK operation setting of the automatic door locks function can be changed.

### **With CONSULT**

The ON/OFF switching of the automatic door locks (UNLOCK) function and the type selection of the automatic door locks (UNLOCK) function can be performed at the WORK SUPPORT setting of CONSULT. Refer to [BCS-93, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

### **Without CONSULT**

The automatic door locks (UNLOCK) function can be switched ON/OFF by performing the following operation.

1. Close all doors (door switch OFF)
2. Place the ignition switch in the ON position
3. Press and hold the door lock and unlock switch for 5 seconds or more in the unlock direction within 20 seconds after turning the power supply position ON.
4. The switching is completed when the hazard lamp blinks.

OFF → ON : 2 blinks

ON → OFF : 1 blink

5. The ignition switch must be turned OFF and ON again between each setting change.

<sup>\*1</sup>: This function is set to ON before delivery.

## POWER DOOR LOCK SYSTEM

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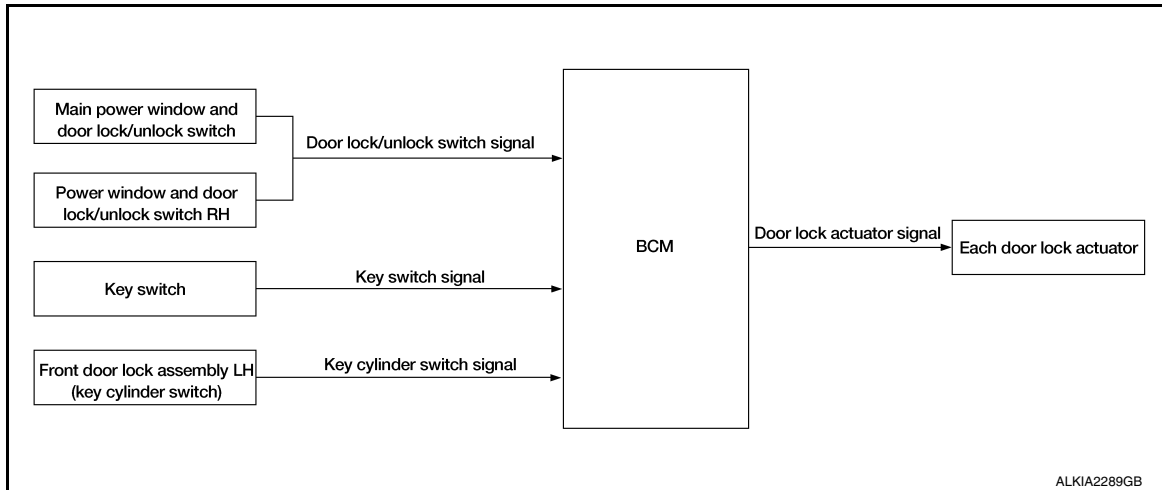
# SYSTEM (POWER DOOR LOCK SYSTEM)

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

## POWER DOOR LOCK SYSTEM : System Diagram

INFOID:000000012783256



## POWER DOOR LOCK SYSTEM : System Description

INFOID:000000012783257

Switch	Input/output signal to BCM	BCM function	Actuator
Main power window and door lock/unlock switch	Door lock/unlock signal	Door lock/unlock control	Door lock actuator
Power window and door lock/unlock switch RH			
Front door lock key cylinder switch LH			

### DOOR LOCK FUNCTION

Functions Available by Operating the Door Lock and Unlock Switches on Driver Door and Passenger Door

- Interlocked with the locking operation of door lock and unlock switch, door lock actuators of all door lock actuators are locked.
- Interlocked with the unlocking operation of door lock and unlock switch, door lock actuators of all door lock actuators are unlocked.

Functions Available by Operating the Key Cylinder Switch on Driver Door

- Interlocked with the locking operation of door key cylinder, door lock actuators of all door lock actuators are locked.

Selective Unlock Operation

- When door key cylinder is unlocked, door lock actuator driver side is unlocked.
- When door key cylinder is unlocked for the second time within 5 seconds after the first operation, door lock actuators on all doors are unlocked.

Select unlock operation mode can be changed using DOOR LOCK-UNLOCK SET mode in "WORK SUPPORT". Refer to [BCS-93, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

### REMOTE KEYLESS ENTRY SYSTEM

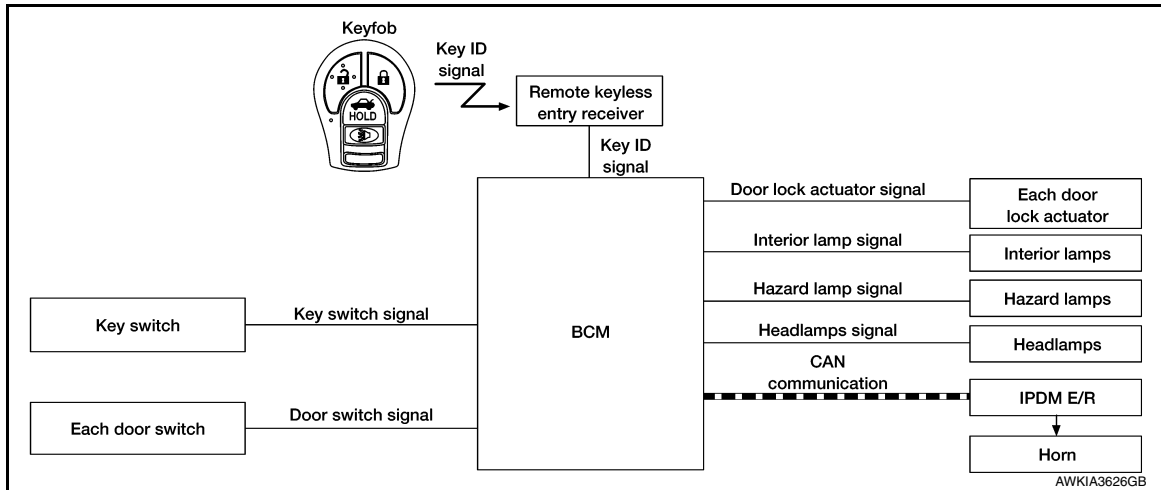
# SYSTEM (POWER DOOR LOCK SYSTEM)

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

## REMOTE KEYLESS ENTRY SYSTEM : System Diagram

INFOID:000000012783258



## REMOTE KEYLESS ENTRY SYSTEM : System Description

INFOID:000000012783259

The remote keyless entry system can be locked and unlocked by pressing door lock and unlock button of keyfob.

### DOOR LOCK AND UNLOCK OPERATION

- When door lock and unlock button of keyfob is pressed, door lock and unlock signal transmits from keyfob to BCM via remote keyless entry receiver.
- When BCM receives the door lock and unlock signal, it operates door lock actuator, flashes the hazard lamp (lock: 2 times, unlock: 1 time) and horn chirp signal to IPDM E/R at the same time as a reminder.
- IPDM E/R honks horn (lock: 1 time) as a reminder.

### OPERATION CONDITION

Remote controller operation	Operation condition
Lock/unlock	Key switch is OFF. Mechanical key is removed from the ignition cylinder.

### OPERATION AREA

To ensure that the keyfob works effectively, use within 10 m (33ft) range of the vehicle, however the operable range may differ according to surroundings.

### SELECTIVE UNLOCK OPERATION

When door lock is unlocked, pressing LOCK button on keyfob once will lock all doors. When door lock is locked, pressing UNLOCK button on keyfob will unlock driver side door. Pressing UNLOCK button on keyfob second time within 5 seconds from the first time will unlock all doors.

### HAZARD AND HORN REMINDER

When the doors are locked or unlocked by keyfob, power is supplied to sound horn and flash hazard warning lamps as a reminder

The hazard and horn reminder has C mode (horn chirp mode) and S mode (non-horn chirp mode).

How to Change Hazard and Horn Reminder Modes

#### With CONSULT

Hazard and horn reminders can be changed using "WORK SUPPORT" mode in "MULTI REMOTE ENT".

Hazard reminder setting	Mode 1		Mode 2		Mode 3		Mode 4	
	Lock	Unlock	Lock	Unlock	Lock	Unlock	Lock	Unlock
Keyfob operation	Lock	Unlock	Lock	Unlock	Lock	Unlock	Lock	Unlock
Hazard warning lamp blink	—	—	—	Once	Twice	—	Twice	Once

# SYSTEM (POWER DOOR LOCK SYSTEM)

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Horn reminder setting	ON		OFF	
Keyfob operation	Lock	Unlock	Lock	Unlock
Horns sound	Once	—	—	—

Hazard and horn reminders do not operate if any door switch is ON (any door is OPEN).

Hazard reminder can be changed using "HAZARD LAMP SET" mode in "WORK SUPPORT".

Horn reminder can be changed using "HORN CHIRP SET" mode in "WORK SUPPORT".

Refer to [BCS-95, "MULTI REMOTE ENT : CONSULT Function \(BCM - MULTI REMOTE ENT\)"](#).

## ⊗ Without CONSULT

Refer to Owner's Manual for instructions.

## AUTO DOOR LOCK OPERATION

When all doors are locked, ignition switch is OFF and key switch is OFF (mechanical key is removed from the ignition cylinder), doors are unlocked with keyfob button. When BCM does not receive the following signals within 1 minute, all doors are locked.

- Door switch is ON (door is opened)
- Door is locked
- Ignition switch is ON
- Key switch is ON (mechanical key is inserted in the ignition cylinder)

Auto door lock mode can be changed by "AUTO LOCK SET" mode in "WORK SUPPORT". Refer to [BCS-95, "MULTI REMOTE ENT : CONSULT Function \(BCM - MULTI REMOTE ENT\)"](#).

## PANIC ALARM OPERATION

When key switch is OFF (mechanical key is removed from the ignition cylinder), BCM turns ON and OFF horn and headlamp intermittently with input of PANIC ALARM signal from keyfob.

BCM outputs to headlamps and IPDM E/R for panic alarm signal (horn signal) via CAN communication lines.

The alarm automatically turns OFF after 25 seconds or when BCM receives any signal from keyfob.

Panic alarm operation mode can be changed using "PANIC ALARM SET" mode in "WORK SUPPORT".

Refer to [BCS-95, "MULTI REMOTE ENT : CONSULT Function \(BCM - MULTI REMOTE ENT\)"](#).

## INTERIOR LAMP TIMER OPERATION

When the following conditions occur, remote keyless entry system turns on interior lamp for 15 seconds with input of UNLOCK signal from keyfob. For detailed description, refer to [DLK-210, "POWER DOOR LOCK SYSTEM : System Description"](#).

- Interior room lamp switch is in the DOOR position
- Door switch OFF (when all the doors are closed).



# SYSTEM (TRUNK LID OPENER SYSTEM)

< SYSTEM DESCRIPTION >

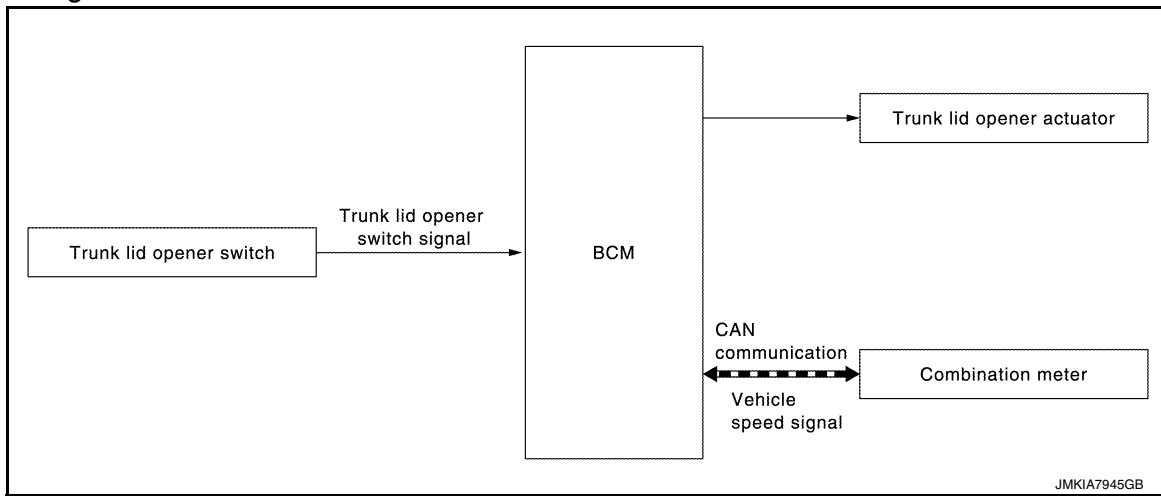
[WITHOUT INTELLIGENT KEY SYSTEM]

## SYSTEM (TRUNK LID OPENER SYSTEM)

### System Description

INFOID:000000012783260

### System Diagram



### TRUNK LID OPENER OPERATION

When trunk lid opener switch is ON, BCM operates trunk lid opener actuator.

### OPERATION CONDITION

If the following conditions are satisfied, trunk open operation is performed.

Trunk lid opener switch operation	Operation condition
Trunk lid open	<ul style="list-style-type: none"> <li>• Trunk lid opener switch is ON</li> <li>• Vehicle speed is less than 5 km/h (3 MPH)</li> </ul>

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# DIAGNOSIS SYSTEM (BCM)

[WITHOUT INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

## DIAGNOSIS SYSTEM (BCM)

### COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000013374008

### APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Direct Diagnostic Mode	Description
ECU Identification	The BCM part number is displayed.
Self Diagnostic Result	The BCM self diagnostic results are displayed.
Data Monitor	The BCM input/output data is displayed in real time.
Active Test	The BCM activates outputs to test components.
Work support	The settings for BCM functions can be changed.
Configuration	<ul style="list-style-type: none"> <li>• The vehicle specification can be read and saved.</li> <li>• The vehicle specification can be written when replacing BCM.</li> </ul>
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication is displayed.

### SYSTEM APPLICATION

BCM can perform the following functions.

System	Sub System	Direct Diagnostic Mode						
		ECU Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN DIAG SUPPORT MNTR
Door lock	DOOR LOCK			x	x	x		
Rear window defogger	REAR DEFOGGER			x	x			
Warning chime	BUZZER			x	x			
Interior room lamp timer	INT LAMP			x	x	x		
Remote keyless entry system	MULTI REMOTE ENT			x	x	x		
Exterior lamp	HEAD LAMP			x	x	x		
Wiper and washer	WIPER			x	x	x		
Turn signal and hazard warning lamps	FLASHER			x	x			
Air conditioner	AIR CONDITIONER			x				
Combination switch	COMB SW			x				
BCM	BCM	x	x			x	x	x
Immobilizer	IMMU		x		x	x		
Interior room lamp battery saver	BATTERY SAVER			x	x	x		
Trunk open	TRUNK			x				
RAP system	RETAINED PWR			x		x		
Signal buffer system	SIGNAL BUFFER			x				
TPMS	AIR PRESSURE MONITOR		x	x	x	x		
Panic alarm system	PANIC ALARM				x			

# DIAGNOSIS SYSTEM (BCM)

[WITHOUT INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

## DOOR LOCK

### DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)

INFOID:000000013374013

#### DATA MONITOR

Monitor Item [Unit]	Description
IGN ON SW [On/Off]	Indicates condition of ignition switch ON position.
KEY ON SW [On/Off]	Indicates condition of key switch.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
ACC ON SW [On/Off]	Indicates condition of ignition switch ACC position.
KEYLESS LOCK [On/Off]	Indicates condition of lock signal from keyfob.
KEYLESS UNLOCK [On/Off]	Indicates condition of unlock signal from keyfob.
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.
VEHICLE SPEED [km/h/mph]	Indicates vehicle speed signal received from combination meter on CAN communication line.

#### ACTIVE TEST

Test Item	Description
DOOR LOCK	This test is able to check door lock operation [OTR ULK/DR UNLK/ALL UNLK/ALL LCK].

#### WORK SUPPORT

Support Item	Setting	Description
DOOR LOCK-UNLOCK SET	On*	Automatic door locks function ON.
	Off	Automatic door locks function OFF.
AUTOMATIC DOOR LOCK SELECT	P RANGE	Doors lock automatically when shifted out of Park (P).
	VH SPD*	Doors lock automatically when vehicle speed reaches 24 km/h (15 mph).
AUTOMATIC DOOR UNLOCK SELECT	MODE6*	Drivers door unlocks automatically when key is removed.
	MODE5	Drivers door unlocks automatically when shifted into Park (P).
	MODE4	Drivers door unlocks automatically when ignition is switched from ON to OFF.
	MODE3	Doors unlock automatically when key is removed.
	MODE2	Doors unlock automatically when shifted into Park (P).
AUTOMATIC LOCK/UNLOCK SELECT	MODE1	Doors unlock automatically when ignition is switched from ON to OFF.
	Lock/Unlock*	Automatic door locks function operates in lock and unlock.
	Lock Only	Automatic door locks function operates in lock only.
	Unlock Only	Automatic door locks function operates in unlock only.
	Off	Automatic door locks function OFF.

\* : Initial setting

## TRUNK

### TRUNK : CONSULT Function (BCM - TRUNK)

INFOID:000000013374014

#### DATA MONITOR

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## DIAGNOSIS SYSTEM (BCM)

[WITHOUT INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

Monitor Item [Unit]	Description
KEY ON SW [On/Off]	Indicates condition of key switch.
IGN ON SW [On/Off]	Indicates condition of ignition switch ON position.
VEHICLE SPEED [km/h/mph]	Indicates vehicle speed signal received from combination meter on CAN communication line.

# BCM

< ECU DIAGNOSIS INFORMATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

## ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

INFOID:0000000012783264

ECU	Reference
BCM	<a href="#">BCS-103, "Reference Value"</a>
	<a href="#">BCS-114, "Fail-safe"</a>
	<a href="#">BCS-115, "DTC Inspection Priority Chart"</a>
	<a href="#">BCS-115, "DTC Index"</a>

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# REMOTE KEYLESS ENTRY SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >

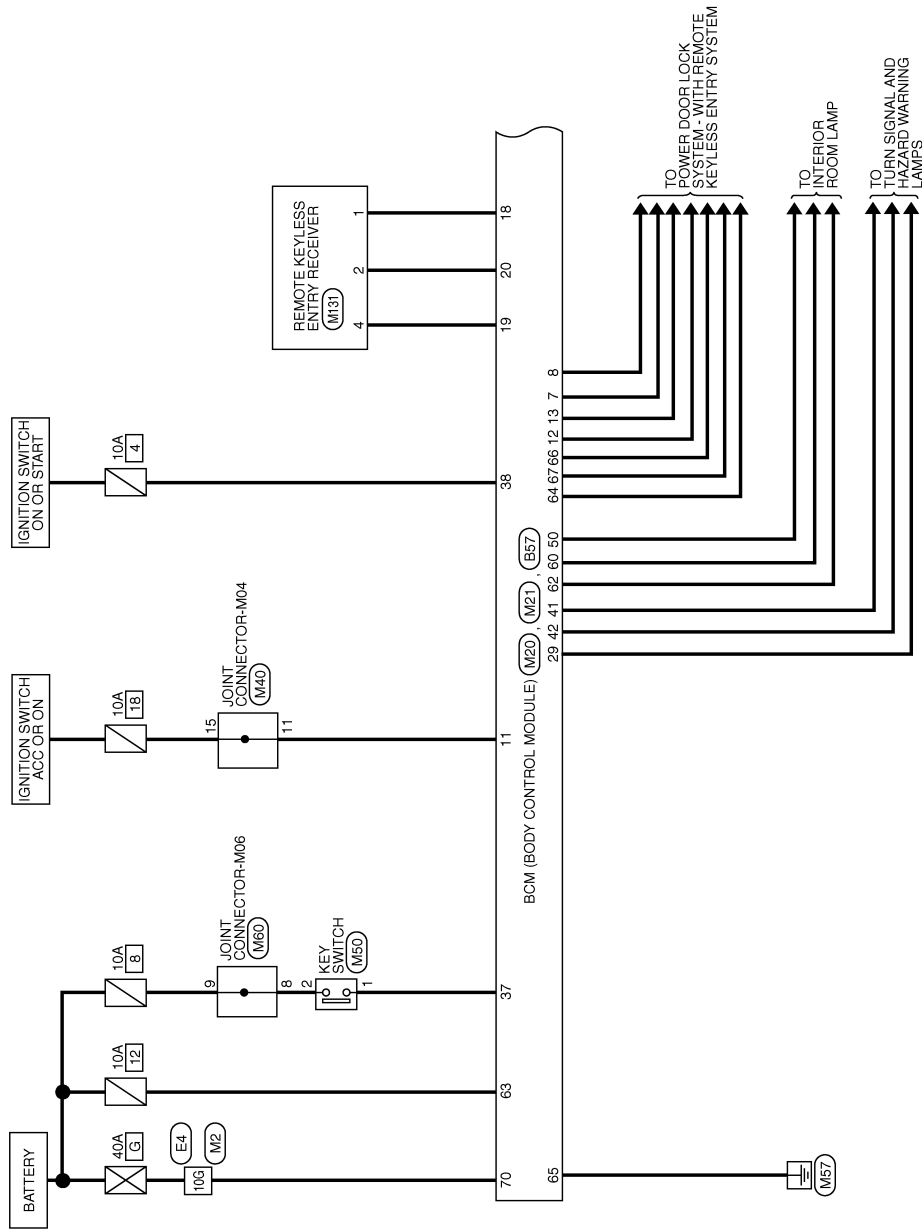
## WIRING DIAGRAM

### REMOTE KEYLESS ENTRY SYSTEM

Wiring Diagram

INFOID:000000012783265

#### REMOTE KEYLESS ENTRY SYSTEM

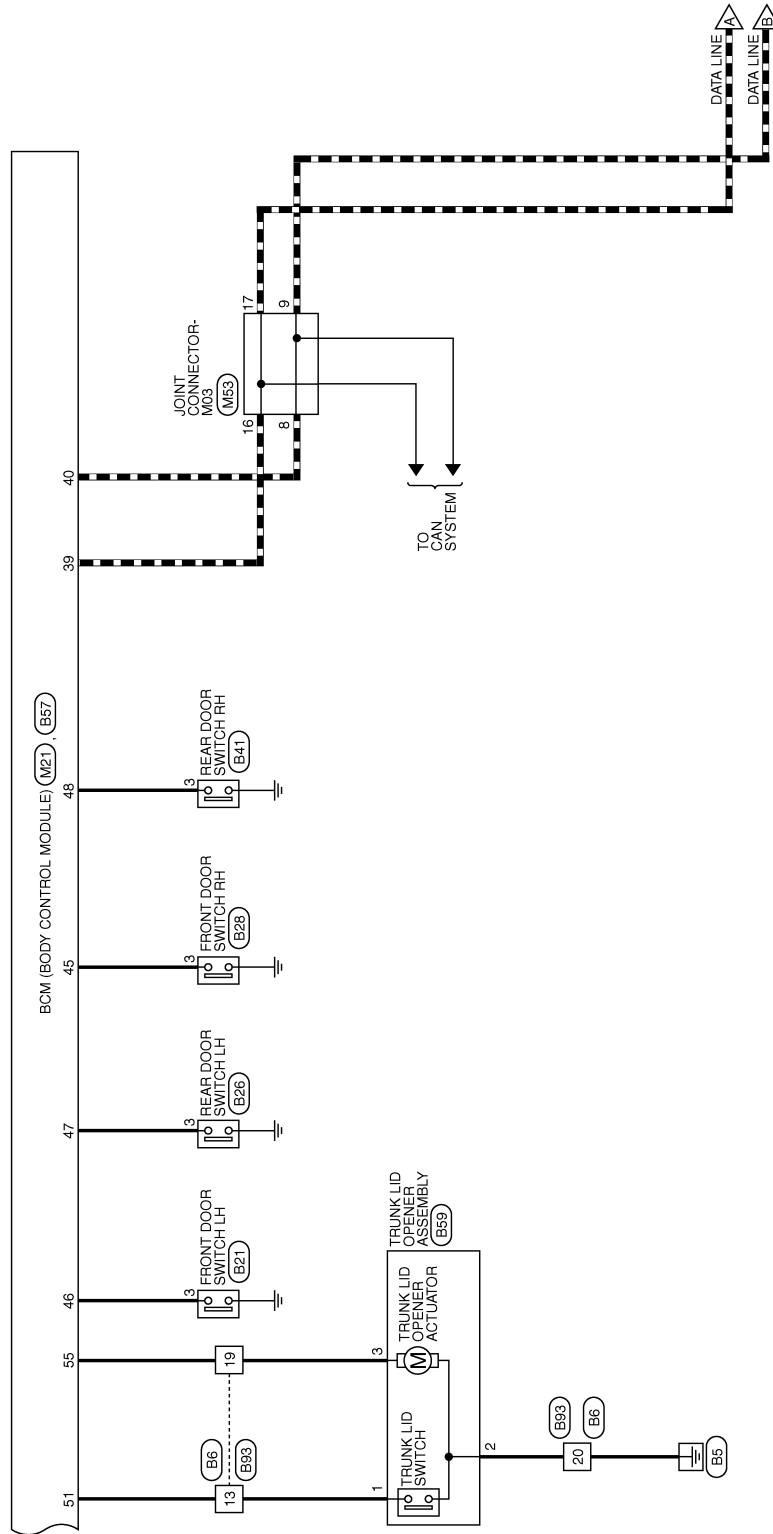


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# REMOTE KEYLESS ENTRY SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

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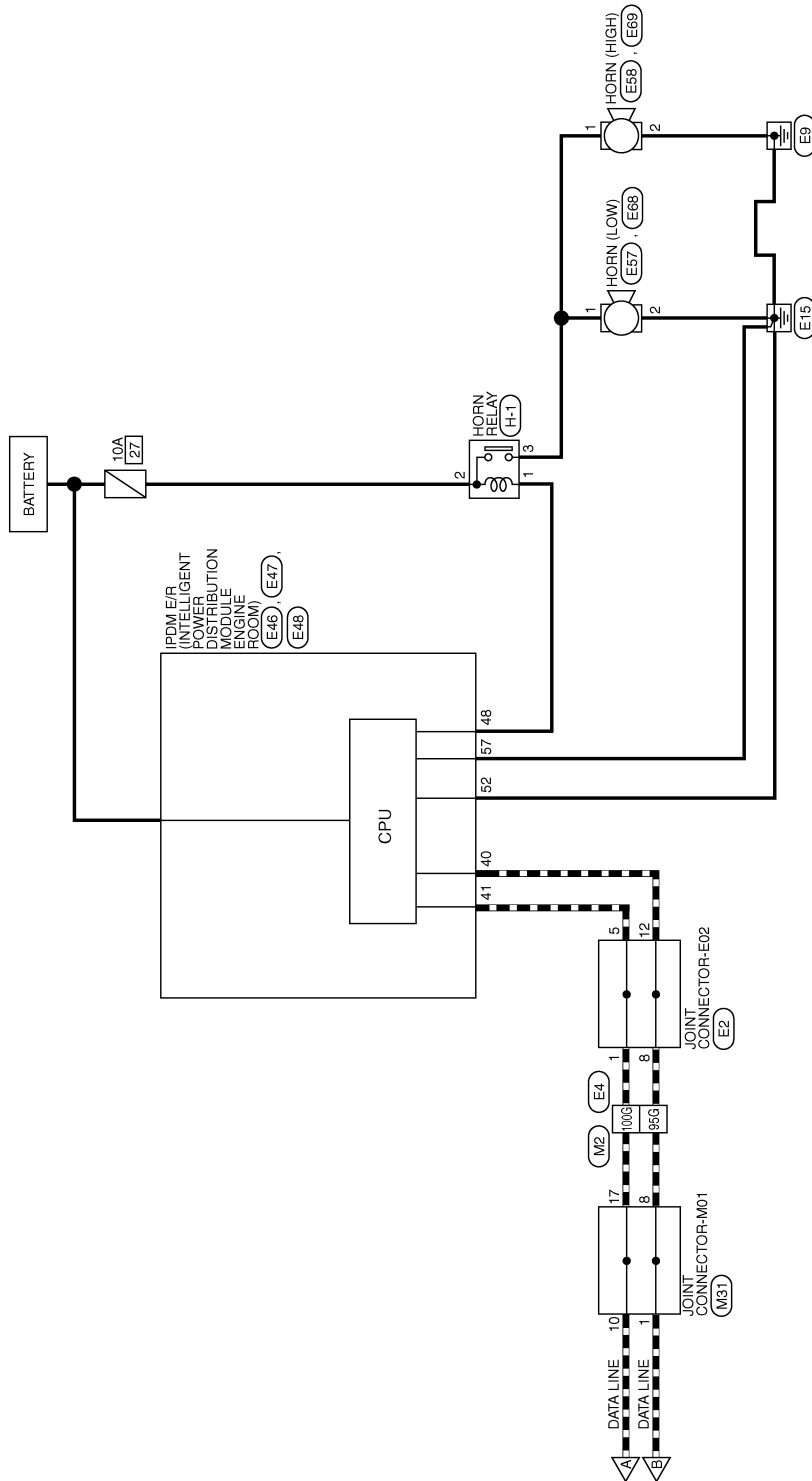
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# REMOTE KEYLESS ENTRY SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

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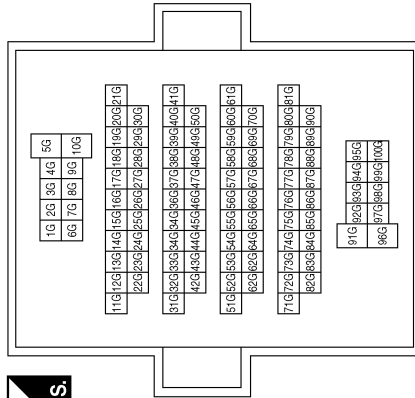
# REMOTE KEYLESS ENTRY SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >

## REMOTE KEYLESS ENTRY SYSTEM CONNECTORS

Connector No.	M2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



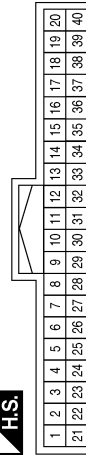
Terminal No.	Color of Wire	Signal Name
10G	Y	-
95G	P	-
100G	L	-

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
60	BR	ROOM LAMP OUTPUT
62	P	BATTERY SAVER OUTPUT
63	BG	BATTERY (FUSE)
64	SB	DOOR UNLOCK OUTPUT (DR)
65	B	GND
66	O	DOOR LOCK OUTPUT
67	SB	DOOR UNLOCK OUTPUT (AS,RR,RL)
70	Y	BATTERY (F/L)

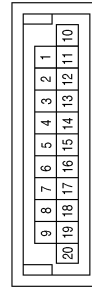
Connector No.	M21
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
7	L	KEY CYLINDER UNLOCK SW
8	V	KEY CYLINDER LOCK SW
11	L	ACC SW

Terminal No.	Color of Wire	Signal Name
12	GR	CENTRAL DOOR LOCK SW
13	BR	CENTRAL DOOR UNLOCK SW
18	V	KEYLESS & AUTO LIGHT SENSOR GND
19	BR	KEYLESS TUNER POWER SUPPLY
20	LG	KEYLESS TUNER SIGNAL
29	SB	HAZARD SW
37	GR	KEY SW
38	R	IGN SW
39	L	CAN-H
40	P	CAN-L

Connector No.	M31
Connector Name	JOINT CONNECTOR-M01
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
1	P	-
8	P	-
10	L	-
17	L	-

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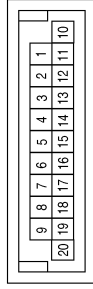
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# REMOTE KEYLESS ENTRY SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

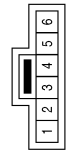
< WIRING DIAGRAM >

Connector No.	M53
Connector Name	JOINT CONNECTOR-M03
Connector Color	BLUE



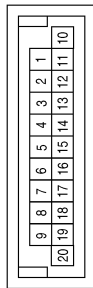
Terminal No.	Color of Wire	Signal Name
8	P	-
9	P	-
16	L	-
17	L	-

Connector No.	M50
Connector Name	KEY SWITCH
Connector Color	GRAY



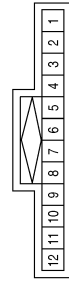
Terminal No.	Color of Wire	Signal Name
1	GR	-
2	BR	-

Connector No.	M40
Connector Name	JOINT CONNECTOR-M064
Connector Color	WHITE



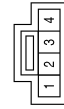
Terminal No.	Color of Wire	Signal Name
11	L	-
15	L	-

Connector No.	E2
Connector Name	JOINT CONNECTOR-E02
Connector Color	BLUE



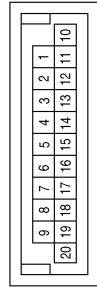
Terminal No.	Color of Wire	Signal Name
1	L	-
5	L	-
8	P	-
12	P	-

Connector No.	M131
Connector Name	REMOTE KEYLESS ENTRY RECEIVER (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	V	-
2	LG	-
4	BR	-

Connector No.	M60
Connector Name	JOINT CONNECTOR-M06
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
8	BR	-
9	W	-

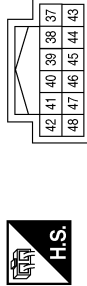
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# REMOTE KEYLESS ENTRY SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

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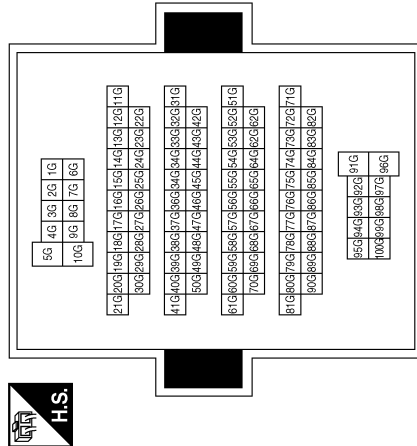
Connector No.	E46
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
40	P	CAN-L
41	L	CAN-H
48	L	HORN RLY CONT

Terminal No.	Color of Wire	Signal Name
10G	G	-
95G	P	-
100G	L	-

Connector No.	E4
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	E57
Connector Name	HORN (LOW)
Connector Color	BLACK



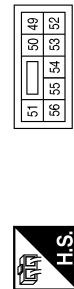
Terminal No.	Color of Wire	Signal Name
1	G	-

Connector No.	E48
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
57	B/Y	POWER GND

Connector No.	E47
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
52	B/Y	SIGNAL GND

ABKIA7405GB

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P

DLK

# REMOTE KEYLESS ENTRY SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >

Connector No.	E69
Connector Name	HORN (HIGH)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
2	B/W	-

Connector No.	E68
Connector Name	HORN (LOW)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
2	BR	-

Connector No.	E58
Connector Name	HORN (HIGH)
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
1	G	-

Connector No.	B26
Connector Name	REAR DOOR SWITCH LH
Connector Color	WHITE



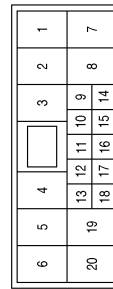
Terminal No.	Color of Wire	Signal Name
3	GR	-

Connector No.	B21
Connector Name	FRONT DOOR SWITCH LH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	Y	-

Connector No.	B6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
13	V	-
19	GR	-
20	B	-

ABKIA7280GB

# REMOTE KEYLESS ENTRY SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >

Connector No.	B28
Connector Name	FRONT DOOR SWITCH RH
Connector Color	WHITE



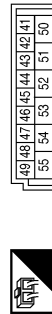
Terminal No.	Color of Wire	Signal Name
3	R	-

Connector No.	B41
Connector Name	REAR DOOR SWITCH RH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	P	-

Connector No.	B57
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	BLACK



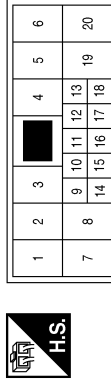
Terminal No.	Color of Wire	Signal Name
41	LG	FLASHER OUTPUT (LEFT)
42	BG	FLASHER OUTPUT (RIGHT)
45	R	DOOR SW (AS)
46	Y	DOOR SW (DR)
47	GR	DOOR SW (RL)
48	P	DOOR SW (RR)
50	LG	LUGGAGE LAMP OUTPUT
51	V	TRUNK SW
55	GR	TRUNK OPEN OUTPUT

Connector No.	B59
Connector Name	TRUNK LID OPENER ASSEMBLY
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	R	-
2	B	-
3	GR	-

Connector No.	B93
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
13	R	-
19	GR	-
20	B	-

ABKIA7281GB

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
DLK  
L  
M  
N  
O  
P

# POWER DOOR LOCK SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

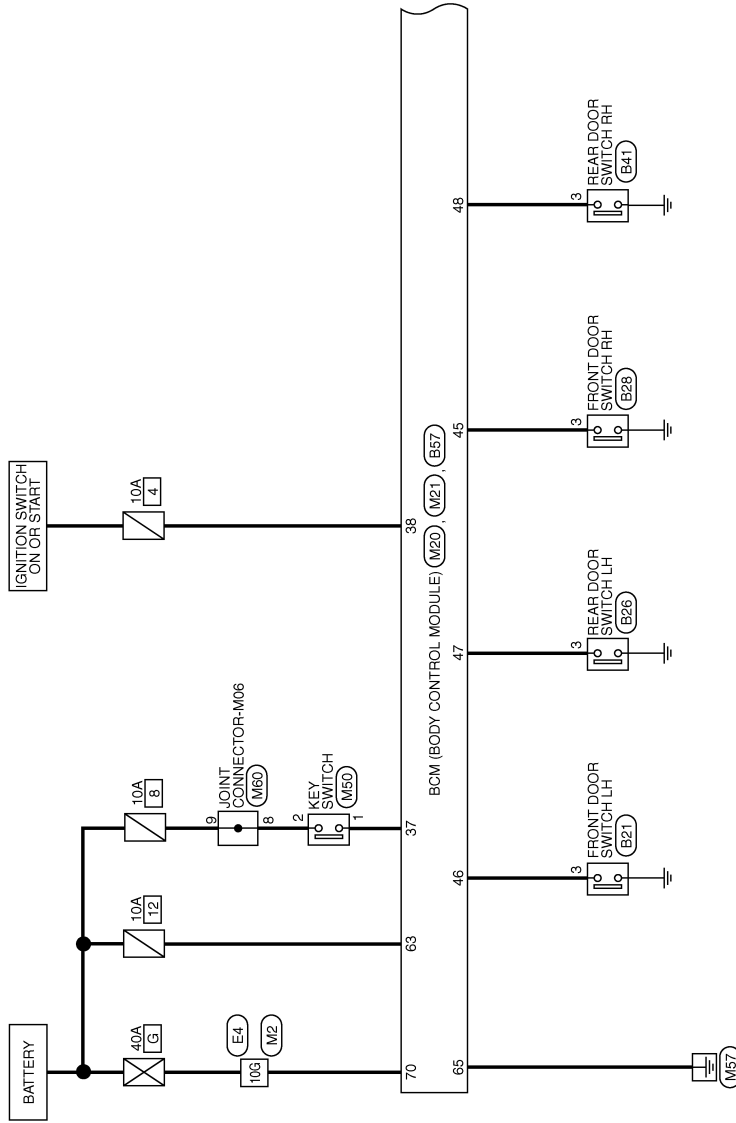
< WIRING DIAGRAM >

## POWER DOOR LOCK SYSTEM

Wiring Diagram

INFOID:000000012783266

### POWER DOOR LOCK SYSTEM - WITH REMOTE KEYLESS ENTRY SYSTEM

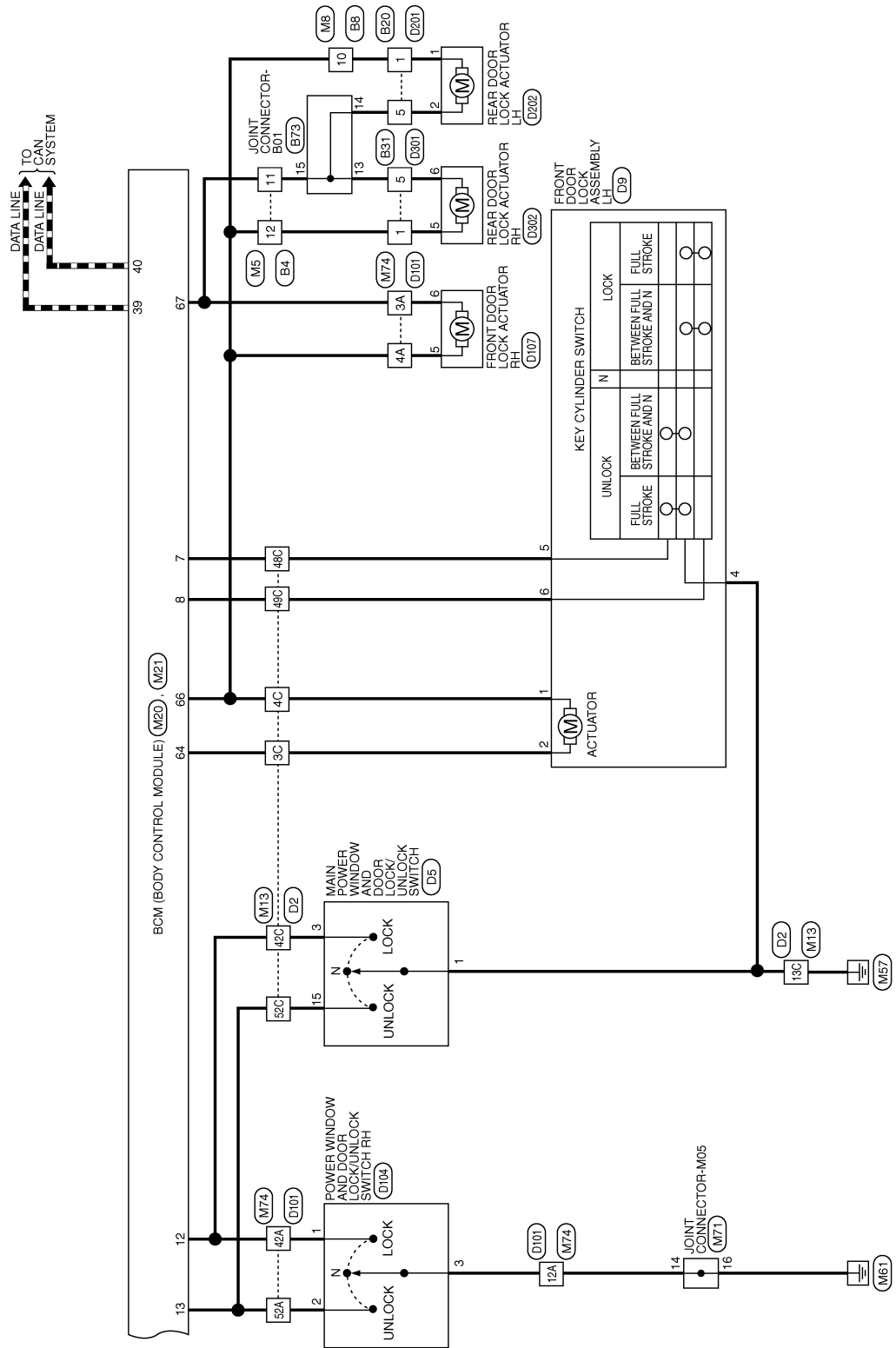


ABKWA3186GB

# POWER DOOR LOCK SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >



ABKWA3163GB

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
DLK  
L  
M  
N  
O  
P

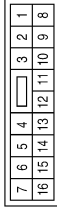
# POWER DOOR LOCK SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >

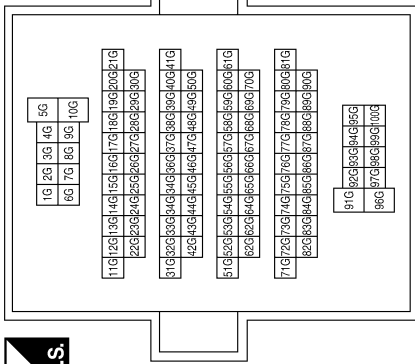
## POWER DOOR LOCK SYSTEM CONNECTORS - WITH REMOTE KEYLESS ENTRY SYSTEM

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
10G	Y	-

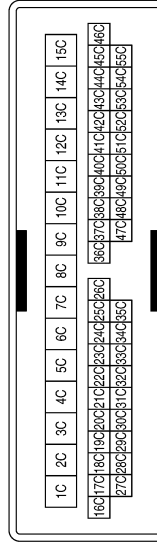
Connector No.	M2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



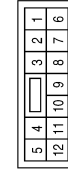
Terminal No.	Color of Wire	Signal Name
11	SB	-
12	O	-

Terminal No.	Color of Wire	Signal Name
3C	SB	-
4C	O	-
13C	B	-
42C	GR	-
48C	L	-
49C	V	-
52C	BR	-

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	M8
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
10	O	-

ABKIA5378GB

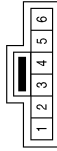


# POWER DOOR LOCK SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

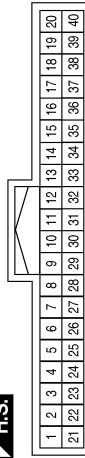
< WIRING DIAGRAM >

Connector No.	M50
Connector Name	KEY SWITCH
Connector Color	GRAY



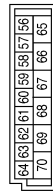
Terminal No.	Color of Wire	Signal Name
1	GR	-
2	BR	-

Connector No.	M21
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



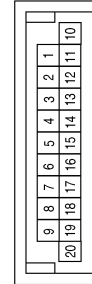
Terminal No.	Color of Wire	Signal Name
7	L	KEY CYLINDER UNLOCK SW
8	V	KEY CYLINDER LOCK SW
12	GR	CENTRAL DOOR LOCK SW
13	BR	CENTRAL DOOR UNLOCK SW
37	GR	KEY SW
38	R	IGN SW
39	L	CAN-H
40	P	CAN-L

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



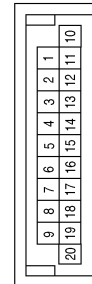
Terminal No.	Color of Wire	Signal Name
63	BG	BATTERY (FUSE)
64	SB	DOOR UNLOCK OUTPUT (DR)
65	B	GND
66	O	DOOR LOCK OUTPUT
67	SB	DOOR UNLOCK OUTPUT (AS, RR, RL)
70	Y	BATTERY (F/L)

Connector No.	M71
Connector Name	JOINT CONNECTOR-M05
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
14	B	-
16	B	-

Connector No.	M60
Connector Name	JOINT CONNECTOR-M06
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
8	BR	-
9	W	-

ABKIA7266GB

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P

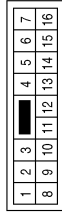
DLK

# POWER DOOR LOCK SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

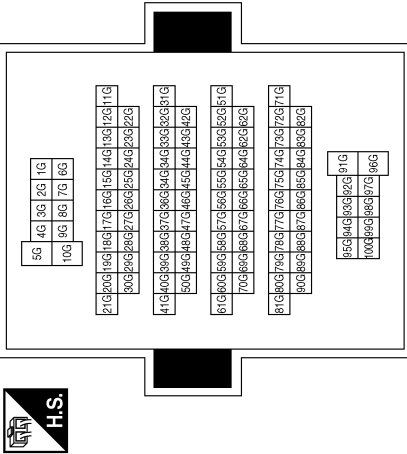
< WIRING DIAGRAM >

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Color	WHITE



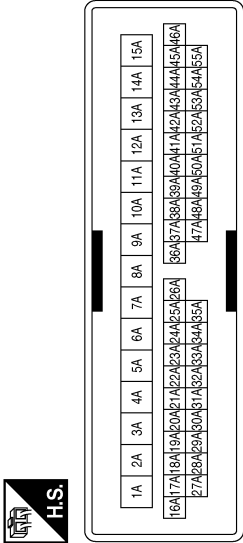
Terminal No.	Color of Wire	Signal Name
11	G	-
12	SB	-

Connector No.	E4
Connector Name	WIRE TO WIRE
Connector Color	WHITE



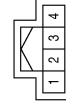
Terminal No.	Color of Wire	Signal Name
10G	G	-

Connector No.	M74
Connector Name	WIRE TO WIRE
Connector Color	WHITE



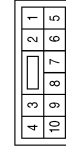
Terminal No.	Color of Wire	Signal Name
3A	SB	-
4A	O	-
12A	B	-
42A	GR	-
52A	BR	-

Connector No.	B21
Connector Name	FRONT DOOR SWITCH LH
Connector Color	WHITE



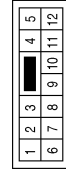
Terminal No.	Color of Wire	Signal Name
3	Y	-

Connector No.	B20
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	V	-
5	Y	-

Connector No.	B8
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
10	V	-

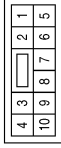
ABKIA7327GB

# POWER DOOR LOCK SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

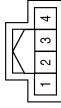
< WIRING DIAGRAM >

Connector No.	B31
Connector Name	WIRE TO WIRE
Connector Color	WHITE



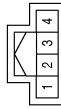
Terminal No.	Color of Wire	Signal Name
1	SB	-
5	P	-

Connector No.	B28
Connector Name	FRONT DOOR SWITCH RH
Connector Color	WHITE



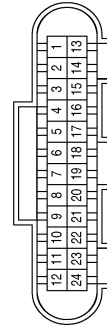
Terminal No.	Color of Wire	Signal Name
3	R	-

Connector No.	B26
Connector Name	REAR DOOR SWITCH LH
Connector Color	WHITE



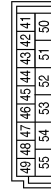
Terminal No.	Color of Wire	Signal Name
3	GR	-

Connector No.	B73
Connector Name	JOINT CONNECTOR-B01
Connector Color	BLACK



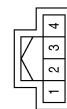
Terminal No.	Color of Wire	Signal Name
13	P	-
14	Y	-
15	G	-

Connector No.	B57
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
45	R	DOOR SW (AS)
46	Y	DOOR SW (DR)
47	GR	DOOR SW (RL)
48	P	DOOR SW (RR)

Connector No.	B41
Connector Name	REAR DOOR SWITCH RH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	P	-

ABKIA7328GB

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P

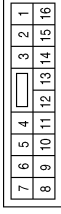
DLK

# POWER DOOR LOCK SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >

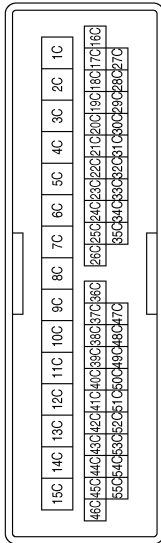
Connector No.	D5
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/ UNLOCK SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	B	GND
3	L	LOCK SW
15	BR	UNLOCK SW

Terminal No.	Color of Wire	Signal Name
3C	L	-
4C	BR	-
13C	B	-
42C	L	-
48C	Y	-
49C	R	-
52C	BR	-

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Color	WHITE

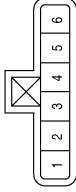


# POWER DOOR LOCK SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

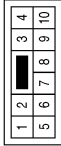
< WIRING DIAGRAM >

Connector No.	D202
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Color	GRAY



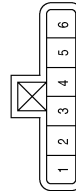
Terminal No.	Color of Wire	Signal Name
1	V	-
2	G	-

Connector No.	D201
Connector Name	WIRE TO WIRE
Connector Color	WHITE



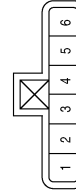
Terminal No.	Color of Wire	Signal Name
1	V	-
5	G	-

Connector No.	D107
Connector Name	FRONT DOOR LOCK ACTUATOR RH
Connector Color	GRAY



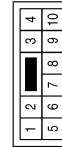
Terminal No.	Color of Wire	Signal Name
5	V	-
6	Y	-

Connector No.	D302
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
5	V	-
6	G	-

Connector No.	D301
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	V	-
5	G	-

ABKIA7330GB

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
DLK  
L  
M  
N  
O  
P

# TRUNK LID OPENER

[WITHOUT INTELLIGENT KEY SYSTEM]

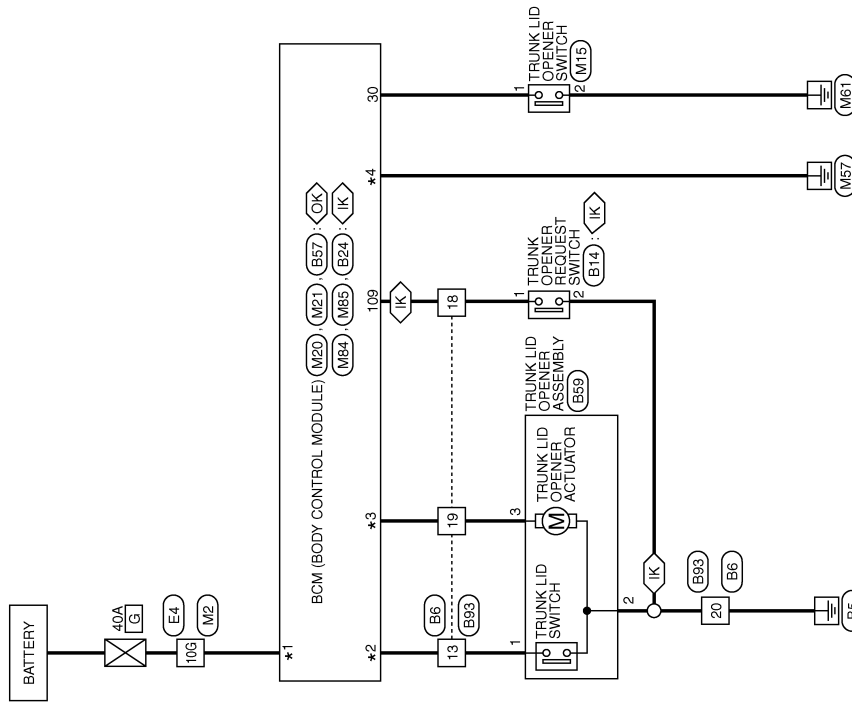
< WIRING DIAGRAM >

## TRUNK LID OPENER

### Wiring Diagram

INFOID:000000012783267

- ◊ IK : WITH INTELLIGENT KEY SYSTEM
- ◊ OK : WITHOUT INTELLIGENT KEY SYSTEM
- \*1 ◊ IK : 90 ◊ OK : 107
- \*3 ◊ IK : 70 ◊ OK : 55
- \*2 ◊ IK : 103 ◊ OK : 93
- \*4 ◊ OK : 51 ◊ OK : 65



TRUNK LID OPENER

ABKWA3187GB

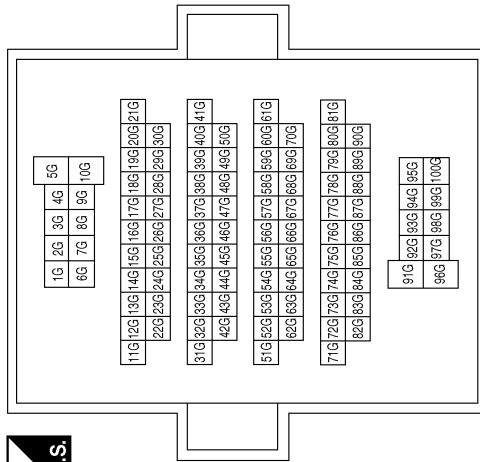
# TRUNK LID OPENER

[WITHOUT INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >

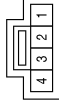
## TRUNK LID OPENER CONNECTORS

Connector No.	M2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



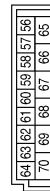
Terminal No.	Color of Wire	Signal Name
10G	Y	-

Connector No.	M15
Connector Name	TRUNK LID OPENER SWITCH
Connector Color	WHITE



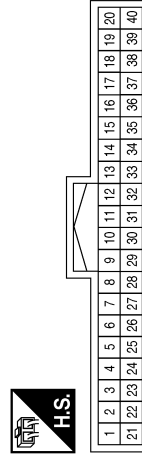
Terminal No.	Color of Wire	Signal Name
1	L	-
2	B	-

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



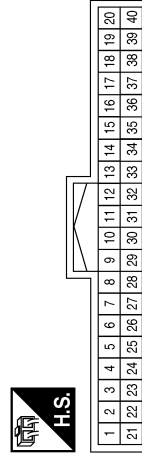
Terminal No.	Color of Wire	Signal Name
65	B	GND
70	Y	BATTERY (F/L)

Connector No.	M21
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
30	L	TRUNK OPENER SW

Connector No.	M84
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
30	L	TRUNK OPENER SW

ABKIA7282GB

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P

DLK

# TRUNK LID OPENER

[WITHOUT INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >

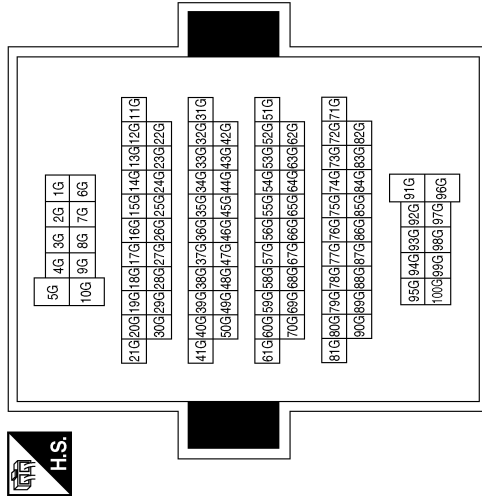
Connector No.	M85
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	WHITE

85	86	87	88	89	90	91	92	93	94	95
----	----	----	----	----	----	----	----	----	----	----



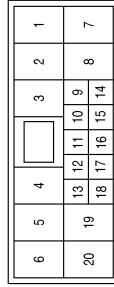
Terminal No.	Color of Wire	Signal Name
90	Y	BATTERY (F/L)
93	B	GND

Connector No.	E4
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
10G	G	-

Connector No.	B6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
13	V	-
18	SB	-
19	GR	-
20	B	-

Connector No.	B14
Connector Name	TRUNK OPENER REQUEST SWITCH
Connector Color	BROWN

1	2
---	---



Terminal No.	Color of Wire	Signal Name
1	Y	-
2	B	-

Connector No.	B24
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	BLACK

104	105	106	107	108	109	110
-----	-----	-----	-----	-----	-----	-----



Terminal No.	Color of Wire	Signal Name
103	V	TRUNK HATCH SW
107	GR	TRUNK OPEN OUTPUT
109	SB	REQUEST SW (TRUNK)

Connector No.	B57
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	BLACK

49	48	47	46	45	44	43	42	41
55	54	53	52	51	50			



Terminal No.	Color of Wire	Signal Name
51	V	TRUNK SW
55	GR	TRUNK OPEN OUTPUT





# DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

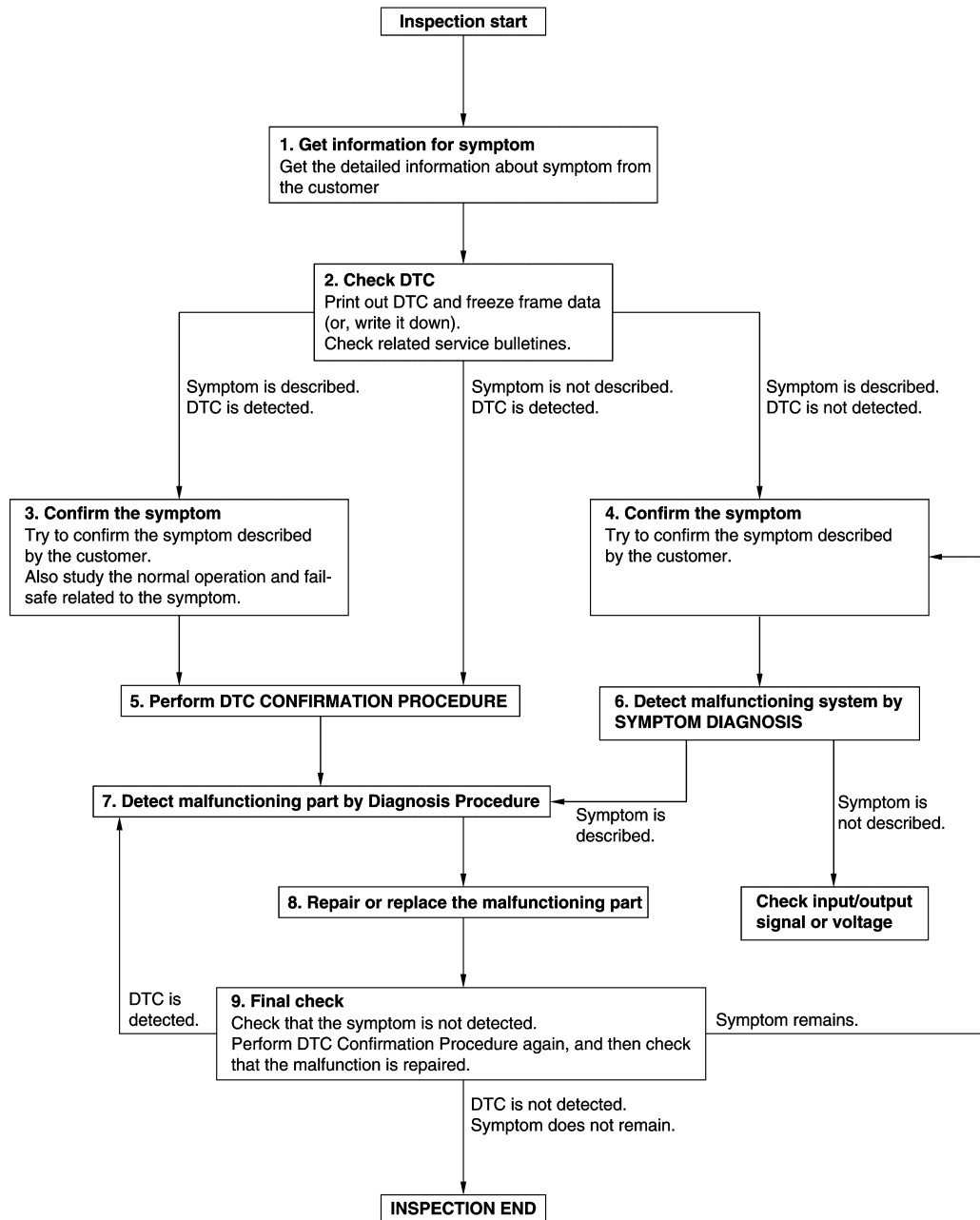
## BASIC INSPECTION

### DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000012783268

OVERALL SEQUENCE



JMKIA8652GB

DETAILED FLOW

Revision: December 2015

DLK-238

2016 Sentra NAM

# DIAGNOSIS AND REPAIR WORK FLOW

[WITHOUT INTELLIGENT KEY SYSTEM]

< BASIC INSPECTION >

## 1. GET INFORMATION FOR SYMPTOM

1. Get detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurs).
2. Check operation condition of the function that is malfunctioning.

>> GO TO 2.

## 2. CHECK DTC

1. Check DTC.
2. Perform the following procedure if DTC is detected.
  - Record DTC and freeze frame data (Print them out using CONSULT.)
  - Erase DTC.
  - Study the relationship between the cause detected by DTC and the symptom described by the customer.
3. Check related service bulletins for information.

Are any symptoms described and any DTC detected?

Symptom is described, DTC is detected>>GO TO 3.

Symptom is described, DTC is not detected>>GO TO 4.

Symptom is not described, DTC is detected>>GO TO 5.

## 3. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

Also study the normal operation and fail-safe related to the symptom.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

## 4. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6.

## 5. PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC CONFIRMATION PROCEDURE for the detected DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check self diagnostic results in real time. If two or more DTCs are detected, refer to [BCS-115. "DTC Inspection Priority Chart"](#) and determine trouble diagnosis order.

**NOTE:**

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC CONFIRMATION PROCEDURE is not included on Service Manual. This simplified check procedure is an effective alternative though DTC cannot be detected during this check.

If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC CONFIRMATION PROCEDURE.

Is DTC detected?

YES >> GO TO 7.

NO >> Check according to [GI-41. "Intermittent Incident"](#).

## 6. DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

Detect malfunctioning system according to SYMPTOM DIAGNOSIS based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptom.

Is the symptom described?

YES >> GO TO 7.

NO >> Monitor input data from related sensors or check voltage of related module terminals using CONSULT.

## 7. DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

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## DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check according to [GI-41. "Intermittent Incident"](#).

### 8. REPAIR OR REPLACE THE MALFUNCTIONING PART

---

1. Repair or replace the malfunctioning part.
2. Reconnect parts or connectors disconnected during Diagnosis Procedure again after repair and replacement.
3. Check DTC. If DTC is detected, erase it.

>> GO TO 9.

### 9. FINAL CHECK

---

When DTC is detected in step 2, perform DTC CONFIRMATION PROCEDURE again, and then check that the malfunction is repaired securely.

When symptom is described by the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Is DTC detected and does symptom remain?

YES-1 >> DTC is detected: GO TO 7.

YES-2 >> Symptom remains: GO TO 4.

NO >> Before returning the vehicle to the customer, always erase DTC.

# KEYFOB ID REGISTRATION

< BASIC INSPECTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

## KEYFOB ID REGISTRATION

### Description

INFOID:000000012783269

Perform the following procedure after BCM is replaced or when new keyfob ID is registered

#### NOTE:

When registering the keyfob ID, perform only one procedure to simultaneously register both ID (IMMOBILIZER ID and keyfob ID).

### Work Procedure

INFOID:000000012783270

#### 1.STEP 1

Close all doors.

>> GO TO 2.

#### 2.STEP 2

Perform lock operation by door lock and unlock switch.

>> GO TO 3.

#### 3.STEP 3

1. Remove and insert the key into the ignition key cylinder 6 times within 10 seconds (turning the key switch from OFF to ON counts as 1 time).
2. All doors unlock automatically.

#### NOTE:

On the sixth key insertion, keep the key in the ignition key cylinder with the key switch ON.

Do all unlock automatically?

- YES >> GO TO 4.  
NO >> GO TO 1.

#### 4.STEP 4

Turn ignition switch to ACC within 3 seconds after all doors unlock and perform lock operation by door lock and unlock switch.

>> GO TO 5.

#### 5.STEP 5

1. Press the lock or unlock button of the keyfob to be added.
2. All doors unlock simultaneously.
3. Key ID is registered.

Is key ID registered?

- YES-1 >> When adding a keyfob: GO TO 6.  
YES-2 >> When ending registration: GO TO 8.  
NO >> GO TO 1.

#### 6.STEP 6

Perform lock operation by door lock and unlock switch.

>> GO TO 7.

#### 7.STEP 7

1. Press the lock or unlock button of the keyfob to be added.
2. All doors unlock simultaneously.
3. Key ID is registered.

Is key ID registered?

- YES-1 >> When adding a keyfob: GO TO 6.

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## KEYFOB ID REGISTRATION

< BASIC INSPECTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

---

YES-2 >> When ending registration: GO TO 8.

NO >> GO TO 6.

### 8.STEP 8

---

Open the driver door.

>> REGISTRATION END

# U1000 CAN COMM

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

## DTC/CIRCUIT DIAGNOSIS

### U1000 CAN COMM

#### Description

INFOID:0000000012783271

Refer to [LAN-26, "CAN COMMUNICATION SYSTEM : System Description"](#).

#### DTC Logic

INFOID:0000000012783272

#### DTC DETECTION LOGIC

##### NOTE:

U1000 can be set if a module harness was disconnected and reconnected, perhaps during a repair. Confirm that there are actual CAN diagnostic symptoms and a present DTC by performing the Self Diagnostic Result procedure.

CONSULT Display	DTC Detection Condition	Possible Cause
CAN COMM CIRCUIT [U1000]	When any listed module cannot communicate with CAN communication signal continuously for 2 seconds or more with ignition switch ON	In CAN communication system, any item (or items) of the following listed below is malfunctioning. <ul style="list-style-type: none"><li>• Transmission</li><li>• Receiving (ECM)</li><li>• Receiving (VDC/TCS/ABS)</li><li>• Receiving (METER/M&amp;A)</li><li>• Receiving (TCM)</li><li>• Receiving (IPDM E/R)</li></ul>

#### Diagnosis Procedure

INFOID:0000000012783273

#### 1. PERFORM SELF DIAGNOSTIC RESULT

1. Turn ignition switch ON and wait for 2 second or more.
2. Check "SELF- DIAG RESULTS".

Is "CAN COMM CIRCUIT" displayed?

- YES >> Perform CAN Diagnosis as described in DIAGNOSIS section of CONSULT operation manual.  
NO >> Refer to [GI-41, "Intermittent Incident"](#).

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# U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

## U1010 CONTROL UNIT (CAN)

### DTC Logic

INFOID:000000012783274

### DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
CONTROL UNIT (CAN) [U1010]	BCM detected internal CAN communication circuit malfunction.	BCM

### Diagnosis Procedure

INFOID:000000012783275

#### 1. REPLACE BCM

When DTC "U1010" is detected, replace BCM.

>> Replace BCM. Refer to [BCS-135. "Removal and Installation"](#).



# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

## POWER SUPPLY AND GROUND CIRCUIT

### Diagnosis Procedure

INFOID:000000013374463

Regarding Wiring Diagram information, refer to [BCS-117. "Wiring Diagram"](#).

### 1. CHECK FUSES AND FUSIBLE LINK

Check that the following fuses and fusible link are not blown.

Terminal No.	Signal name	Fuses and fusible link No.
63	Battery power supply	12 (10A)
70		G (40A)
11	Ignition switch ACC or ON	18 (10A)
38	Ignition switch ON or START	4 (10A)

Is the fuse blown?

YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

NO >> GO TO 2.

### 2. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connectors.
3. Check voltage between BCM connector and ground.

BCM		Ground	Ignition switch position		
Connector	Terminal		OFF	ACC	ON
M20	63	—	Battery voltage	Battery voltage	Battery voltage
	70				
M21	11		0 V	0 V	
	38				

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

### 3. CHECK GROUND CIRCUIT

Check continuity between BCM connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M20	65	—	Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair harness or connector.

# DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

## DOOR SWITCH

### Description

INFOID:000000012783277

Detects door open/close condition.

### Component Function Check

INFOID:000000012783278

### 1. CHECK FUNCTION

#### With CONSULT

Check door switches DOOR SW-DR, DOOR SW-AS, DOOR SW-RL, DOOR SW-RR in Data Monitor mode with CONSULT.

Monitor item	Condition
DOOR SW-DR	CLOSE → OPEN: OFF → ON
DOOR SW-AS	
DOOR SW-RL	
DOOR SW-RR	

#### Is the inspection result normal?

YES >> Door switch is OK.

NO >> Refer to [DLK-246, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000012783279

Regarding Wiring Diagram information, refer to [DLK-218, "Wiring Diagram"](#).

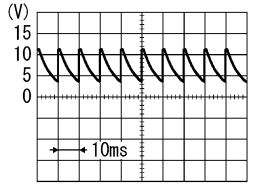
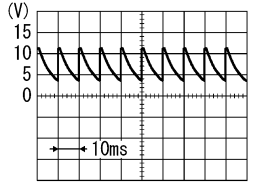
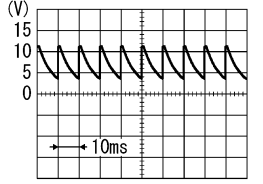
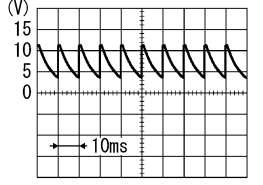
### 1. CHECK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check signal between BCM connector and ground with oscilloscope.

# DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

Terminals		(-)	Door condition		Voltage (V) (Approx.)
(+)					
BCM connector	Terminal				
B57	45	Ground	Front RH	OPEN	0
				CLOSE	 7.0 - 8.0V
	48		Rear RH	OPEN	0
				CLOSE	 7.0 - 8.0V
	46		Front LH	OPEN	0
				CLOSE	 7.0 - 8.0V
	47		Rear LH	OPEN	0
				CLOSE	 7.0 - 8.0V

Is the inspection result normal?

- YES >> GO TO 4
- NO >> GO TO 2

## 2. CHECK DOOR SWITCH CIRCUIT

1. Disconnect BCM connector and door switch connector.
2. Check continuity between BCM connector and door switch connector.

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# DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

BCM connector	Terminal	Door switch connector	Terminal	Continuity
B57	45	B28 (Front RH)	3	Yes
	48	B41 (Rear RH)		
	46	B21 (Front LH)		
	47	B26 (Rear LH)		

3. Check continuity between BCM connector and ground.

BCM connector	Terminal		Continuity
B57	45	Ground	No
	48		
	46		
	47		

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness between BCM and door switch.

## 3.CHECK DOOR SWITCH

Refer to [DLK-248. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace malfunctioning door switch.

## 4.CHECK INTERMITTENT INCIDENT

Refer to [GI-41. "Intermittent Incident"](#).

>> Inspection End.

## Component Inspection

INFOID:000000012783280

## 1.CHECK DOOR SWITCH

1. Turn ignition switch OFF.
2. Disconnect door switch connector.
3. Check door switch.

Terminal		Door switch condition	Continuity
Door switch			
3	Ground part of door switch	Pressed	No
		Released	Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace malfunctioning door switch.

# DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

## DOOR LOCK AND UNLOCK SWITCH

### DRIVER SIDE

#### DRIVER SIDE : Description

INFOID:0000000012783281

Transmits door lock/unlock operation to BCM.

#### DRIVER SIDE : Component Function Check

INFOID:0000000012783282

### 1.CHECK FUNCTION

#### With CONSULT

Check CDL LOCK SW, CDL UNLOCK SW in Data Monitor mode with CONSULT.

Monitor item	Condition
CDL LOCK SW	LOCK : ON
	UNLOCK : OFF
CDL UNLOCK SW	LOCK : OFF
	UNLOCK : ON

#### Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> Refer to [DLK-249. "DRIVER SIDE : Diagnosis Procedure"](#).

#### DRIVER SIDE : Diagnosis Procedure

INFOID:0000000012783283

Regarding Wiring Diagram information, refer to [DLK-226. "Wiring Diagram"](#).

### 1.CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage at the main power window and door lock/unlock switch connector when the switch (driver side) is turned to "LOCK" or "UNLOCK".

Connector	Main power window and door lock/unlock switch state	Terminal	Voltage
D5	Neutral → Unlock	15	Battery voltage → 0
	Neutral → Lock	3	

#### Is the inspection result normal?

YES >> GO TO 5

NO >> GO TO 2

### 2.CHECK POWER WINDOW SWITCH GROUND

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch connector.
3. Check continuity between main power window and door lock/unlock switch connector and ground.

Main power window and door lock/unlock switch connector	Terminal	Continuity
D5	1	Ground Yes

#### Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

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# DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

## 3.CHECK POWER WINDOW SWITCH

Check continuity between main power window and door lock/unlock switch terminals.

Main power window and door lock/unlock switch state	Terminals	Continuity
Lock	1 - 3	Yes
Unlock	15 - 1	
Neutral/Lock	15 - 1	No
Neutral/Unlock	1 - 3	

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-69, "Removal and Installation"](#).

## 4.CHECK POWER WINDOW SWITCH CIRCUITS

1. Disconnect BCM connector.
2. Check continuity between BCM connector and main power window and door lock/unlock switch connector.

BCM connector	Terminal	Main power window and door lock/unlock switch connector	Terminal	Continuity
M21	12	D5	3	Yes
	13		15	

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Continuity
M21	12	Ground
	13	

Is the inspection result normal?

YES >> GO TO 5

NO >> Repair or replace harness.

## 5.CHECK INTERMITTENT INCIDENT

Refer to [GI-41, "Intermittent Incident"](#).

>> Inspection End.

## PASSENGER SIDE

### PASSENGER SIDE : Description

INFOID:000000012783284

Transmits door lock/unlock operation to BCM.

### PASSENGER SIDE : Component Function Check

INFOID:000000012783285

## 1.CHECK FUNCTION

### With CONSULT

Check CDL LOCK SW, CDL UNLOCK SW in Data Monitor mode with CONSULT.

# DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

Monitor item	Condition
CDL LOCK SW	LOCK : ON
	UNLOCK : OFF
CDL UNLOCK SW	LOCK : OFF
	UNLOCK : ON

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> Refer to [DLK-251. "PASSENGER SIDE : Diagnosis Procedure"](#).

## PASSENGER SIDE : Diagnosis Procedure

INFOID:000000012783286

Regarding Wiring Diagram information, refer to [DLK-226. "Wiring Diagram"](#).

### 1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

- Turn ignition switch ON.
- Check voltage at the power window and door lock/unlock switch RH connector when the switch (passenger side) is turned to "LOCK" or "UNLOCK".

Connector	Power window and door lock/unlock switch RH state	Terminal	Voltage
D104	Neutral → Lock	1	Battery voltage → 0
	Neutral → Unlock	2	

Is the inspection result normal?

YES >> GO TO 5

NO >> GO TO 2

### 2. CHECK POWER WINDOW SWITCH GROUND

- Turn ignition switch OFF.
- Disconnect power window and door lock/unlock switch RH connector.
- Check continuity between power window and door lock/unlock switch RH connector and ground.

Power window and door lock/unlock switch RH connector	Terminal	Continuity
D104	3	Ground Yes

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

### 3. CHECK POWER WINDOW SWITCH

Check continuity between power window and door lock/unlock switch RH terminals.

Power window and door lock/unlock switch RH state	Terminals	Continuity
Lock	1 - 3	Yes
Unlock	2 - 3	
Neutral/Unlock	1 - 3	No
Neutral/Lock	2 - 3	

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace power window and door lock/unlock switch RH.

# DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

## 4. CHECK POWER WINDOW SWITCH CIRCUITS

1. Disconnect BCM connector.
2. Check continuity between BCM connector and power window and door lock/unlock switch RH connector.

BCM connector	Terminal	Power window and door lock/unlock switch RH connector	Terminal	Continuity
M21	12	D104	1	Yes
	13		2	

3. Check continuity between BCM connector and ground.

BCM connector	Terminal		Continuity
M21	12	Ground	No
	13		

Is the inspection result normal?

- YES >> GO TO 5  
NO >> Repair or replace harness.

## 5. CHECK INTERMITTENT INCIDENT

Refer to [GI-41, "Intermittent Incident"](#).

>> Inspection End.



# KEY CYLINDER SWITCH

[WITHOUT INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

## KEY CYLINDER SWITCH

### Description

INFOID:0000000012783287

When the mechanical key is inserted and turned into the front door lock key cylinder switch LH, the switch transmits the LOCK or UNLOCK signal directly to the BCM.

### Component Function Check

INFOID:0000000012783288

#### 1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

Check KEY CYL UN-SW, KEY CYL UN-SW in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT. Refer to [DLK-215. "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)".](#)

Monitor item	Condition
KEY CYL LK-SW	Lock : ON
	Neutral / Unlock : OFF
KEY CYL UN-SW	Unlock : ON
	Neutral / Lock : OFF

Is the inspection result normal?

- YES >> Key cylinder switch is OK.
- NO >> Refer to [DLK-253. "Diagnosis Procedure".](#)

### Diagnosis Procedure

INFOID:0000000012783289

Regarding Wiring Diagram information, refer to [DLK-226. "Wiring Diagram".](#)

#### 1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between BCM connector and ground.

Terminals		Key position	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M21	8	Lock	0
		Neutral / Unlock	7.0 - 8.0 V
	7	Unlock	0
		Neutral / Lock	7.0 - 8.0 V

Is the inspection result normal?

- YES >> Front door lock key cylinder switch LH is OK.
- NO >> GO TO 2

#### 2. CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect front door lock key cylinder switch LH connector.
3. Check continuity between front door lock key cylinder switch LH connector and ground.

Front door lock key cylinder switch LH connector	Terminal	Ground	Continuity
D9	4		Yes

Is the inspection result normal?

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# KEY CYLINDER SWITCH

[WITHOUT INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

- YES >> GO TO 3  
NO >> Repair or replace harness.

## 3. CHECK DOOR KEY CYLINDER SIGNAL CIRCUIT

1. Disconnect BCM connector M21.
2. Check continuity between front door lock key cylinder switch LH connector and BCM connector M21.

Front door lock key cylinder switch LH connector	Terminal	BCM connector	Terminal	Continuity
D9	6	M21	8	Yes
	5		7	

3. Check continuity between front door lock key cylinder switch LH connector and ground.

Front door lock key cylinder switch LH connector	Terminal	Ground	Continuity
D9	6	Ground	No
	5		

Is the inspection result normal?

- YES >> GO TO 4  
NO >> Repair or replace harness.

## 4. CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.  
Refer to [DLK-254, "Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-41, "Intermittent Incident"](#).  
NO >> Replace front door lock key cylinder switch LH.

## Component Inspection

INFOID:000000012783290

### COMPONENT INSPECTION

#### 1. CHECK DOOR KEY CYLINDER SWITCH

Check front door lock key cylinder switch LH.

Terminal		Key position	Continuity
Front door lock key cylinder switch LH connector			
6	4	Lock	Yes
		Neutral / Unlock	No
5		Unlock	Yes
		Neutral / Lock	No

Is the inspection result normal?

- YES >> Key cylinder switch is OK.  
NO >> Replace front door lock key cylinder switch LH.

# KEY SWITCH (BCM INPUT)

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

## KEY SWITCH (BCM INPUT)

### Diagnosis Procedure

INFOID:000000012783291

Regarding Wiring Diagram information, refer to [DLK-218. "Wiring Diagram"](#).

### 1. CHECK KEY SWITCH INPUT SIGNAL

 With CONSULT

Check key switch "KEY ON SW" in DATA MONITOR mode with CONSULT. Refer to [DLK-215. "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

- When key is inserted to ignition key cylinder:

**KEY ON SW : ON**

- When key is removed from ignition key cylinder:

**KEY ON SW : OFF**

 Without CONSULT

Check voltage between BCM connector M21 terminal 37 and ground.

Connector	Terminal		Condition	Voltage (V)
	(+)	(-)		
M21	37	Ground	Key is inserted.	Battery voltage
			Key is removed.	0

Is the inspection result normal?

- YES >> Key switch (insert) circuit is OK.
- NO >> GO TO 2

### 2. CHECK KEY SWITCH (INSERT)

1. Turn ignition switch OFF.
2. Disconnect key switch connector.
3. Check continuity between key switch terminals.

Terminals	Condition	Continuity
1 - 2	Key is inserted.	Yes
	Key is removed.	No

Is the inspection result normal?

- YES >> Repair or replace harness or fuse.
- NO >> Replace key switch.

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# DOOR LOCK ACTUATOR

[WITHOUT INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

## DOOR LOCK ACTUATOR DRIVER SIDE

### DRIVER SIDE : Description

INFOID:000000012783292

Locks/unlocks the door with the signal from BCM.

### DRIVER SIDE : Component Function Check

INFOID:000000012783293

#### 1. CHECK FUNCTION

1. Use CONSULT to perform Active Test ("DOOR LOCK").
2. Touch "ALL LOCK" or "ALL UNLOCK" to check that it works normally.

Is the inspection result normal?

- YES >> Door lock actuator is OK.  
NO >> Refer to [DLK-256, "DRIVER SIDE : Diagnosis Procedure"](#).

### DRIVER SIDE : Diagnosis Procedure

INFOID:000000012783294

Regarding Wiring Diagram information, refer to [DLK-226, "Wiring Diagram"](#).

#### 1. CHECK OUTPUT SIGNAL

Check voltage between BCM connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M20	64	Unlock	0 → Battery voltage → 0
	66	Lock	0 → Battery voltage → 0

Is the inspection result normal?

- YES >> GO TO 2  
NO >> GO TO 3

#### 2. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM and front door lock actuator driver side connector.
3. Check continuity between BCM connector and front door lock actuator driver side connector.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M20	64	D9	2	Yes
	66		1	

Is the inspection result normal?

- YES >> Replace front door lock actuator LH.  
NO >> Repair or replace harness.

#### 3. CHECK DOOR LOCK ACTUATOR HARNESS

1. Turn ignition switch OFF.
2. Disconnect BCM and front door lock actuator driver side connector.
3. Check continuity between BCM connector M20 terminals 64, 66 and ground.

# DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

Connector	Terminals		Continuity
M20	64	Ground	No
	66		

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-135, "Removal and Installation"](#).

NO >> Repair or replace harness.

## PASSENGER SIDE

### PASSENGER SIDE : Description

INFOID:000000012783295

Locks/unlocks the door with the signal from BCM.

### PASSENGER SIDE : Component Function Check

INFOID:000000012783296

#### 1.CHECK FUNCTION

1. Use CONSULT to perform Active Test ("DOOR LOCK").
2. Touch "ALL LOCK" or "ALL UNLOCK" to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-257, "PASSENGER SIDE : Diagnosis Procedure"](#).

### PASSENGER SIDE : Diagnosis Procedure

INFOID:000000012783297

Regarding Wiring Diagram information, refer to [DLK-226, "Wiring Diagram"](#).

#### 1.CHECK DOOR LOCK ACTUATOR SIGNAL

Check voltage between BCM connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M20	66	Lock	0 → Battery voltage → 0
	67	Unlock	0 → Battery voltage → 0

Is the inspection result normal?

YES >> GO TO 2

NO >> GO TO 3

#### 2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM and front door lock actuator RH connectors.
3. Check continuity between BCM connector and front door lock actuator RH.

BCM connector	Terminal	Front door lock actuator RH connector	Terminal	Continuity
M20	66	D107	5	Yes
	67		6	

Is the inspection result normal?

YES >> Replace front door lock actuator RH.

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# DOOR LOCK ACTUATOR

[WITHOUT INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness.

## 3.CHECK DOOR LOCK ACTUATOR HARNESS

1. Turn ignition switch OFF.
2. Disconnect BCM and front door lock actuator RH.
3. Check continuity between BCM connector M20 terminals 66, 67 and ground.

Terminals		Continuity
66	Ground	No
67		

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-135, "Removal and Installation"](#).

NO >> Repair or replace harness.

## REAR LH

### REAR LH : Description

INFOID:000000012783298

Locks/unlocks the door with the signal from BCM.

### REAR LH : Component Function Check

INFOID:000000012783299

## 1.CHECK FUNCTION

1. Use CONSULT to perform Active Test ("DOOR LOCK").
2. Touch "ALL LOCK" or "ALL UNLOCK" to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-258, "REAR LH : Diagnosis Procedure"](#).

## REAR LH : Diagnosis Procedure

INFOID:000000012783300

Regarding Wiring Diagram information, refer to [DLK-226, "Wiring Diagram"](#).

## 1.CHECK DOOR LOCK ACTUATOR SIGNAL

Check voltage between BCM connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M20	66	Lock	0 → Battery voltage → 0
	67	Unlock	0 → Battery voltage → 0

Is the inspection result normal?

YES >> GO TO 2

NO >> GO TO 3

## 2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM and rear door lock actuator LH connectors.
3. Check continuity between BCM connector and rear door lock actuator LH connectors.

# DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M20	66	D202	1	Yes
	67		2	

Is the inspection result normal?

YES >> Replace rear door lock actuator LH.

NO >> Repair or replace harness.

## 3.CHECK DOOR LOCK ACTUATOR HARNESS

1. Turn ignition switch OFF.
2. Disconnect BCM and rear door lock actuator LH connectors.
3. Check continuity between BCM connector M20 terminals 66, 67 and ground.

Terminals		Continuity
66	Ground	No
67		No

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-135, "Removal and Installation"](#).

NO >> Repair or replace harness.

## REAR RH

### REAR RH : Description

INFOID:0000000012783301

Locks/unlocks the door with the signal from BCM.

### REAR RH : Component Function Check

INFOID:0000000012783302

## 1.CHECK FUNCTION

1. Use CONSULT to perform Active Test ("DOOR LOCK").
2. Touch "ALL LOCK" or "ALL UNLOCK" to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-259, "REAR RH : Diagnosis Procedure"](#).

### REAR RH : Diagnosis Procedure

INFOID:0000000012783303

Regarding Wiring Diagram information, refer to [DLK-226, "Wiring Diagram"](#).

## 1.CHECK DOOR LOCK ACTUATOR SIGNAL

Check voltage between BCM connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M20	66	Lock	0 → Battery voltage → 0
	67	Unlock	0 → Battery voltage → 0

Is the inspection result normal?

YES >> GO TO 2

NO >> GO TO 3

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# DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

## 2. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM and rear door lock actuator RH connectors.
3. Check continuity between BCM connector and rear door lock actuator RH connectors.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M20	66	D302	5	Yes
	67		6	

Is the inspection result normal?

YES >> Replace rear door lock actuator RH.

NO >> Repair or replace harness.

## 3. CHECK DOOR LOCK ACTUATOR HARNESS

1. Turn ignition switch OFF.
2. Disconnect BCM and rear door lock actuator RH.
3. Check continuity between BCM connector M20 terminals 66, 67 and ground.

Terminals		Continuity
66	Ground	No
67		

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-135, "Removal and Installation"](#).

NO >> Repair or replace harness.



# REMOTE KEYLESS ENTRY RECEIVER

[WITHOUT INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

## REMOTE KEYLESS ENTRY RECEIVER

### Description

INFOID:000000012783304

Receives keyfob operation and transmits to BCM.

### Component Function Check

INFOID:000000012783305

### 1. CHECK FUNCTION

#### With CONSULT

Check remote keyless entry receiver KEYLESS LOCK, KEYLESS UNLOCK, and KEYLESS PANIC in Data Monitor mode with CONSULT.

Monitor item	Condition
KEYLESS LOCK	Checks whether value changes from "Off" to "On" when operating keyfob lock button.
KEYLESS UNLOCK	Checks whether value changes from "Off" to "On" when operating keyfob unlock button.
KEYLESS PANIC	Checks whether value changes from "Off" to "On" when operating keyfob panic button.

#### Is the inspection result normal?

- YES >> Remote keyless entry receiver is OK.
- NO >> Refer to [DLK-261, "Diagnosis Procedure"](#).

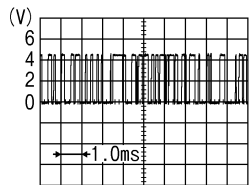
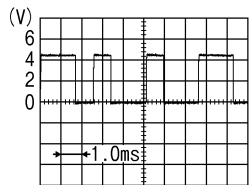
### Diagnosis Procedure

INFOID:000000012783306

Regarding Wiring Diagram information, refer to [DLK-218, "Wiring Diagram"](#).

### 1. CHECK REMOTE KEYLESS ENTRY RECEIVER OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Check signal between remote keyless entry receiver connector and ground with oscilloscope.

Terminals			Condition	Signal (Reference value)
(+)		(-)		
Remote keyless entry receiver connector	Terminal			
M131	2	Ground	Key inserted into ignition key cylinder	0 V
			Waiting	 <p>PIIB7728J</p>
			When signal is received	 <p>PIIB7729J</p>

#### Is the inspection result normal?

- YES >> GO TO 7

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# REMOTE KEYLESS ENTRY RECEIVER

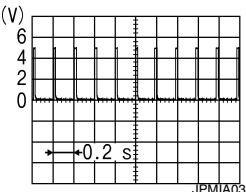
[WITHOUT INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

NO >> GO TO 2

## 2. CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLY

1. Disconnect remote keyless entry receiver connector.
2. Check signal between remote keyless entry receiver connector and ground with oscilloscope.

Terminals			Condition	Signal (Reference value)
(+) Remote keyless entry receiver connector		(-) Terminal		
M131	4	Ground	Key inserted into ignition key cylinder	0 V
			Key removed from ignition key cylinder (Any door open)	5 V
			Key removed from ignition key cylinder (Any door closed)	

Is the inspection result normal?

- YES >> GO TO 4  
NO >> GO TO 3

## 3. CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 1

1. Disconnect BCM connector.
2. Check continuity between BCM connector and remote keyless entry receiver connector.

BCM connector	Terminal	Remote keyless entry receiver connector	Terminal	Continuity
M21	19	M131	4	Yes

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M21	19		No

Is the inspection result normal?

- YES >> Reconnect BCM, GO TO 4  
NO >> Repair or replace harness between BCM and remote keyless entry receiver.

## 4. CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

Check continuity between remote keyless entry receiver connector and ground.

Remote keyless entry receiver connector	Terminal	Ground	Continuity
M131	1		Yes

Is the inspection result normal?

- YES >> GO TO 6  
NO >> GO TO 5

## 5. CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 2

Check continuity between BCM connector and remote keyless entry receiver connector.

# REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

BCM connector	Terminal	Remote keyless entry receiver connector	Terminal	Continuity
M21	18	M131	1	Yes

Is the inspection result normal?

YES >> GO TO 7

NO >> Repair or replace harness between BCM and remote keyless entry receiver.

## 6.CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 3

1. Check continuity between BCM connector and remote keyless entry receiver connector.

BCM connector	Terminal	Remote keyless entry receiver connector	Terminal	Continuity
M21	20	M131	2	Yes

2. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M21	20		No

Is the inspection result normal?

YES >> GO TO 7

NO >> Repair or replace harness between BCM and remote keyless entry.

## 7.CHECK INTERMITTENT INCIDENT

Refer to [GI-41. "Intermittent Incident"](#).

>> Inspection End.

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# KEYFOB BATTERY AND FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

## KEYFOB BATTERY AND FUNCTION

### Description

INFOID:000000012783307

The following functions are available when having and carrying the keyfob.

- Door lock/unlock
- Panic mode (horn and headlamp operation)

Remote control entry function and panic alarm function are available when operating the remote buttons.

### Component Function Check

INFOID:000000012783308

#### NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check keyfob relative signal strength
- Confirm vehicle antenna signal strength

#### 1. CHECK FUNCTION

##### Ⓟ With CONSULT

Check remote keyless entry receiver KEYLESS LOCK, KEYLESS UNLOCK, and KEYLESS PANIC in Data Monitor mode with CONSULT.

Monitor item	Condition
KEYLESS LOCK	Checks whether value changes from "Off" to "On" when operating keyfob lock button.
KEYLESS UNLOCK	Checks whether value changes from "Off" to "On" when operating keyfob unlock button.
KEYLESS PANIC	Checks whether value changes from "Off" to "On" when operating keyfob panic button.

Is the inspection result normal?

YES >> Keyfob is OK.

NO >> Refer to [DLK-264, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000012783309

#### NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check keyfob relative signal strength
- Confirm vehicle antenna signal strength

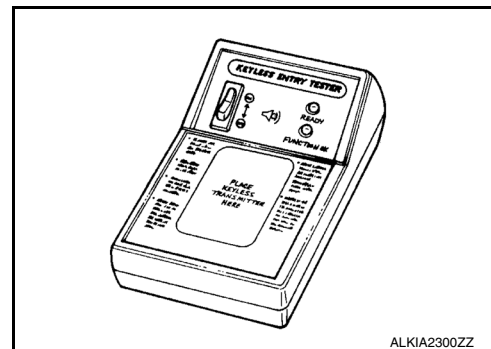
#### 1. CHECK KEYFOB FUNCTION

Check keyfob function using Signal Tech II Tool [– (J-50190)] or Remote Keyless Entry Tester [– (J-43241)] (shown).

Does the test pass?

YES >> Keyfob is OK.

NO >> GO TO 2



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#### 2. CHECK KEYFOB COMPONENTS

# KEYFOB BATTERY AND FUNCTION

[WITHOUT INTELLIGENT KEY SYSTEM]

## < DTC/CIRCUIT DIAGNOSIS >

1. Remove the screw (A).
2. Insert a small screwdriver into the slit of the corner (B) and twist it to separate the upper part from the power part. Use a cloth to protect the casing.

**CAUTION:**

- Do not touch the circuit board or battery terminal.
- The keyfob is water-resistant. However, if it does get wet, immediately wipe it dry.

3. Remove the keyfob battery.

**CAUTION:**

- Keep dirt, grease, and other foreign materials off the electrode contact area.

4. Visually inspect keyfob internal components.

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace malfunctioning parts.

## 3. CHECK KEYFOB BATTERY

Check by connecting a resistance (approximately 300Ω) so that the current value becomes about 10 mA.

**Standard : Approx. 2.5 - 3.0V**

Is the measurement value within specification?

YES >> Keyfob battery is OK. Check remote keyless entry receiver. Refer to [DLK-261, "Component Function Check"](#).

NO >> GO TO 4

## 4. REPLACE KEYFOB BATTERY

1. Replace the keyfob battery with a new one (CR1620 or equivalent).

**CAUTION:**

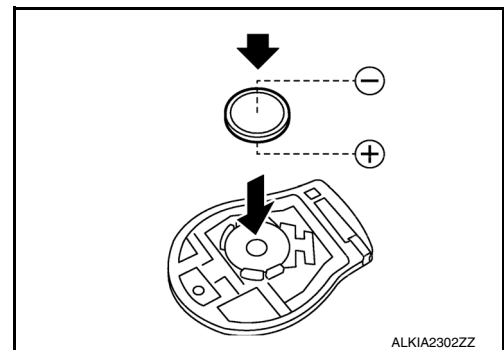
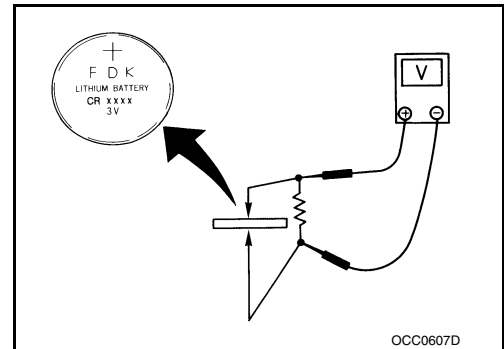
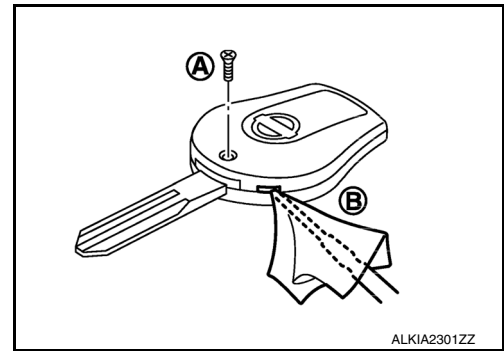
- When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.
- Make sure that the + side faces the bottom of the case.

2. Align the tips of the upper and lower parts, and then push them together until it is securely closed.
3. After replacing the battery, check that all keyfob functions work properly.

Is the inspection result normal?

YES >> Keyfob is OK.

NO >> Check remote keyless entry receiver. Refer to [DLK-261, "Component Function Check"](#).



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# HORN FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

## HORN FUNCTION

### Description

INFOID:0000000012783310

Perform answer-back for each operation with horn.

### Component Function Check

INFOID:0000000012783311

#### 1.CHECK FUNCTION

1. Select HORN in "ACTIVE TEST" mode with CONSULT.
2. Check the horn operation.

Test item		Description	
HORN	ON	Horn relay	ON (for 20 ms)

Is the operation normal?

- YES >> Inspection End.  
NO >> Refer to [DLK-266, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:0000000012783312

Regarding Wiring Diagram information, refer to [DLK-218, "Wiring Diagram"](#).

#### 1.CHECK HORN FUNCTION

Check horn function with horn switch.

Does the horn sound?

- YES >> GO TO 2  
NO >> Refer to [HRN-3, "Wiring Diagram"](#).

#### 2.CHECK HORN RELAY POWER SUPPLY

1. Turn ignition switch ON.
2. Perform "ACTIVE TEST" ("HORN") with CONSULT.
3. Using an oscilloscope or analog voltmeter to check voltage between IPDM E/R connector and ground.

IPDM E/R		Ground	Test item		Voltage (V) (Approx.)
Connector	Terminal				
E46	48	Ground	HORN	ON	Battery voltage → 0 → Battery voltage
				Other than above	Battery voltage

Is the inspection result normal?

- YES >> GO TO 3  
NO >> Replace IPDM E/R. Refer to [PCS-60, "Removal and Installation"](#).

#### 3.CHECK HORN RELAY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R and horn relay connector.
3. Check continuity between IPDM E/R harness connector and horn relay harness connector.

IPDM E/R		Horn relay		Continuity
Connector	Terminal	Connector	Terminal	
E46	48	H-1	1	Yes

4. Check continuity between IPDM E/R harness connector and ground.

# HORN FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

IPDM E/R		Ground	Continuity
Connector	Terminal		
E46	48	Ground	No

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

## 4. CHECK INTERMITTENT INCIDENT

Refer to [GI-41, "Intermittent Incident"](#).

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to [PCS-60, "Removal and Installation"](#).

NO >> Repair or replace the malfunctioning part.

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# TRUNK LID OPENER ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

## TRUNK LID OPENER ACTUATOR

### Component Function Check

INFOID:000000012783313

#### 1. CHECK FUNCTION

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select TRUNK/GLASS HATCH in ACTIVE TEST mode.
3. Touch OPEN to check that it works normally.

Is the inspection result normal?

- YES >> Trunk lid opener actuator is OK.  
NO >> Refer to [DLK-268, "Diagnosis Procedure"](#).

#### Diagnosis Procedure

INFOID:000000012783314

Regarding Wiring Diagram information, refer to [DLK-234, "Wiring Diagram"](#).

#### 1. CHECK TRUNK LID OPENER INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect trunk lid opener assembly connector.
3. Check voltage between trunk lid opener assembly harness connector and ground.

(+)		(-)	Condition	Voltage (Approx.)
Trunk lid opener assembly Connector	Terminal			
B59	3	Ground	Trunk lid opener switch is ON	Battery voltage

Is the inspection result normal?

- YES >> GO TO 3.  
NO >> GO TO 2.

#### 2. CHECK TRUNK LID OPENER ACTUATOR CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and trunk lid opener assembly harness connector.

BCM		Trunk lid opener assembly		Continuity
Connector	Terminal	Connector	Terminal	
B57	55	B59	3	Yes

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
B57	55		No

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-135, "Removal and Installation"](#).  
NO >> Repair or replace harness.

#### 3. CHECK TRUNK LID OPENER ACTUATOR GROUND CIRCUIT

Check continuity between trunk lid opener assembly harness connector and ground.



# TRUNK LID OPENER ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

Trunk lid opener assembly		Ground	Continuity
Connector	Terminal		Yes
B59	2		

Is the inspection normal?

YES >> Replace trunk lid opener assembly.

NO >> Repair or replace harness.

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# TRUNK LID OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

## TRUNK LID OPENER SWITCH

### Component Function Check

INFOID:000000012783315

#### 1. CHECK FUNCTION

1. Select TRUNK of BCM using CONSULT.
2. Select TR/BD OPEN SW in DATA MONITOR mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
TR/BD OPEN SW	Trunk lid opener switch	Pressed	On
		Released	Off

Is the inspection result normal?

- YES >> Trunk lid opener switch is OK.  
 NO >> Refer to [DLK-270, "Diagnosis Procedure"](#).

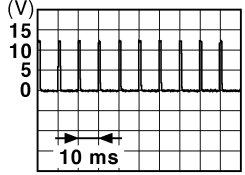
### Diagnosis Procedure

INFOID:000000012783316

Regarding Wiring Diagram information, refer to [DLK-234, "Wiring Diagram"](#).

#### 1. CHECK TRUNK LID OPENER INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect trunk lid opener switch connector.
3. Check signal between trunk lid opener switch harness connector and ground using oscilloscope.

(+)		(-)	Signal (Reference value)
Connector	Terminal		
M15	1	Ground	 <p>JPMA0012GB</p>

Is the inspection result normal?

- YES >> GO TO 3.  
 NO >> GO TO 2.

#### 2. CHECK TRUNK LID OPENER SWITCH CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and trunk lid opener switch harness connector.

BCM		Trunk lid opener switch		Continuity
Connector	Terminal	Connector	Terminal	
M21	30	M15	1	Yes

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M21	30		No

# TRUNK LID OPENER SWITCH

[WITHOUT INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-135, "Removal and Installation"](#).

NO >> Repair or replace harness.

## 3. CHECK TRUNK LID OPENER SWITCH GROUND CIRCUIT

Check continuity between trunk lid opener switch harness connector and ground.

Trunk lid opener switch		Ground	Continuity
Connector	Terminal		Yes
M15	2		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

## 4. CHECK TRUNK LID OPENER SWITCH

Refer to [DLK-271, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace trunk lid opener switch.

## 5. CHECK INTERMITTENT INCIDENT

Refer to [GI-41, "Intermittent Incident"](#).

>> Inspection End.

## Component Inspection

INFOID:0000000012783317

## 1. CHECK TRUNK LID OPENER SWITCH

1. Turn ignition switch OFF.
2. Disconnect trunk lid opener switch connector.
3. Check continuity between trunk lid opener switch terminals.

Trunk lid opener switch		Condition		Continuity
Terminal		Trunk lid opener switch	Pressed	Yes
1	2		Release	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace trunk lid opener switch.

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# TRUNK LAMP SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

## TRUNK LAMP SWITCH

### Description

INFOID:000000012783318

Detects trunk open/close condition.

### Component Function Check

INFOID:000000012783319

### 1. CHECK FUNCTION

#### With CONSULT

Check TRNK/HAT MNTR in Data Monitor mode with CONSULT.

Monitor item	Condition
TRNK/HAT MNTR	OPEN : ON
	CLOSE : OFF

#### Is the inspection result normal?

- YES >> Trunk lid switch is OK.  
 NO >> Refer to [DLK-272, "Diagnosis Procedure"](#).

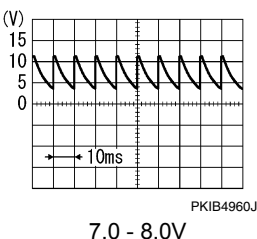
### Diagnosis Procedure

INFOID:000000012783320

Regarding Wiring Diagram information, refer to [DLK-234, "Wiring Diagram"](#).

### 1. CHECK TRUNK LID SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- Check voltage between BCM connector and ground.

Terminals		Trunk condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	OPEN	0
B57	51	CLOSE	

#### Is the inspection result normal?

- YES >> GO TO 6  
 NO >> GO TO 2

### 2. CHECK TRUNK LID SWITCH CIRCUIT

- Disconnect BCM and trunk lid opener assembly connector.
- Check continuity between BCM connector and trunk lid opener assembly connector.

BCM connector	Terminal	Trunk lid opener assembly connector	Terminal	Continuity
B57	51	B59	1	Yes

- Check continuity between BCM connector and ground.

# TRUNK LAMP SWITCH

[WITHOUT INTELLIGENT KEY SYSTEM]

## < DTC/CIRCUIT DIAGNOSIS >

BCM connector	Terminal	Ground	Continuity
B57	51		No

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness between BCM and trunk lid opener assembly.

### 3.CHECK TRUNK LID SWITCH GROUND CIRCUIT

Check continuity between trunk lid opener assembly connector and ground.

Trunk lid opener assembly connector	Terminal	Ground	Continuity
B59	2		Yes

Is the inspection result normal?

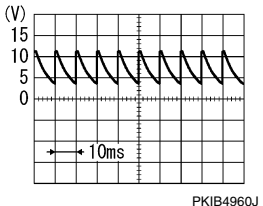
YES >> GO TO 4

NO >> Repair or replace trunk lid opener assembly ground circuit.

### 4.CHECK BCM OUTPUT SIGNAL

1. Ensure trunk lid remains closed during this step.
2. Connect BCM connector.
3. Check voltage between BCM connector and ground.

Terminals		Voltage (V) (Approx.)
(+)	(-)	
BCM connector	Terminal	
B57	51	Ground



7.0 - 8.0V

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace BCM. Refer to [BCS-135, "Removal and Installation"](#).

### 5.CHECK TRUNK LID SWITCH

Refer to [DLK-273, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6

NO >> Replace trunk lid opener assembly.

### 6.CHECK INTERMITTENT INCIDENT

Refer to [GI-41, "Intermittent Incident"](#).

>> Inspection End.

## Component Inspection

INFOID:000000012783321

### 1.CHECK TRUNK LID SWITCH

1. Turn ignition switch OFF.
2. Disconnect trunk lid opener assembly connector.
3. Check trunk lid switch.

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# TRUNK LAMP SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

Terminal		Trunk condition	Continuity
Trunk lid switch			
1	2	OPEN	Yes
		CLOSE	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace trunk lid opener assembly.

# WARNING CHIME FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

## WARNING CHIME FUNCTION

### Description

INFOID:000000012783322

Performs operation method guide and warning with buzzer.

### Component Function Check

INFOID:000000012783323

#### 1.CHECK FUNCTION

##### With CONSULT

1. Check the operation with "BUZZER" in the Active Test.
2. Touch "IGN KEY WARN ALM", "SEAT BELT WARN TEST" or "LIGHT WARN ALM" on screen.

Is the inspection result normal?

- YES >> Warning buzzer into combination meter is OK.  
NO >> Refer to [DLK-275. "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000012783324

#### 1.CHECK METER BUZZER CIRCUIT

Operate the hazard lights by turning ON the hazard warning switch.

Is the inspection result normal?

- YES >> GO TO 2  
NO >> Replace combination meter. Refer to [MWI-74. "Removal and Installation"](#).

#### 2.CHECK INTERMITTENT INCIDENT

Refer to [GI-41. "Intermittent Incident"](#).

>> Inspection End.

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## HAZARD FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

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### HAZARD FUNCTION

#### Description

INFOID:000000012783325

Perform answer-back for each operation with number of blinks.

#### Component Function Check

INFOID:000000012783326

#### 1.CHECK FUNCTION

---

Check hazard warning lamp ("FLASHER") in Active Test.

Is the inspection result normal?

YES >> Hazard warning lamp circuit is OK.

NO >> Refer to [DLK-276, "Diagnosis Procedure"](#).

#### Diagnosis Procedure

INFOID:000000012783327

#### 1.CHECK HAZARD SWITCH CIRCUIT

---

Operate the hazard lights by turning ON the hazard warning switch.

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace hazard warning switch circuit. Refer to [EXL-138, "Removal and Installation"](#).

#### 2.CHECK INTERMITTENT INCIDENT

---

Refer to [GI-41, "Intermittent Incident"](#).

>> Inspection End.



# KEYFOB ID SET UP WITH CONSULT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

## KEYFOB ID SET UP WITH CONSULT

### ID Code Entry Procedure

INFOID:000000012783328

#### KEYFOB ID SET UP WITH CONSULT

##### NOTE:

- If a keyfob is lost, the ID code of the lost keyfob must be erased to prevent unauthorized use. A specific ID code can be erased with CONSULT. However, when the ID code of a lost keyfob is not known, all controller ID codes should be erased. After all ID codes are erased, the ID codes of all remaining and/or new keyfobs must be re-registered.
- When registering an additional keyfob, the existing ID codes in memory may or may not be erased. If five ID codes are stored in memory when an additional code is registered, only the oldest code is erased. If less than five codes are stored in memory when an additional code is registered, the new ID code is added and no ID codes are erased.
- Entry of a maximum of five ID codes is allowed. When more than five codes are entered, the oldest ID code will be erased.
- Even if the same ID code that is already in memory is input, the same ID code can be entered. The code is counted as an additional code.

1. Turn ignition switch ON.
2. Select BCM.
3. Select MULTI REMOTE ENT.
4. Select WORK SUPPORT.
5. You can register, erase or confirm a keyfob ID code. To register a new code, select the following option and follow CONSULT instructions:
  - REMO CONT ID REGIST  
Use this mode to register a keyfob ID code.

##### NOTE:

**Register the ID code when keyfob or BCM is replaced, or when additional keyfob is required.**

- REMO CONT ID ERASUR  
Use this mode to erase a keyfob ID code.
- REMO CONT ID CONFIR  
Use this mode to confirm if a keyfob ID code is registered or not.

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# KEYFOB ID SET UP WITHOUT CONSULT

< DTC/CIRCUIT DIAGNOSIS >

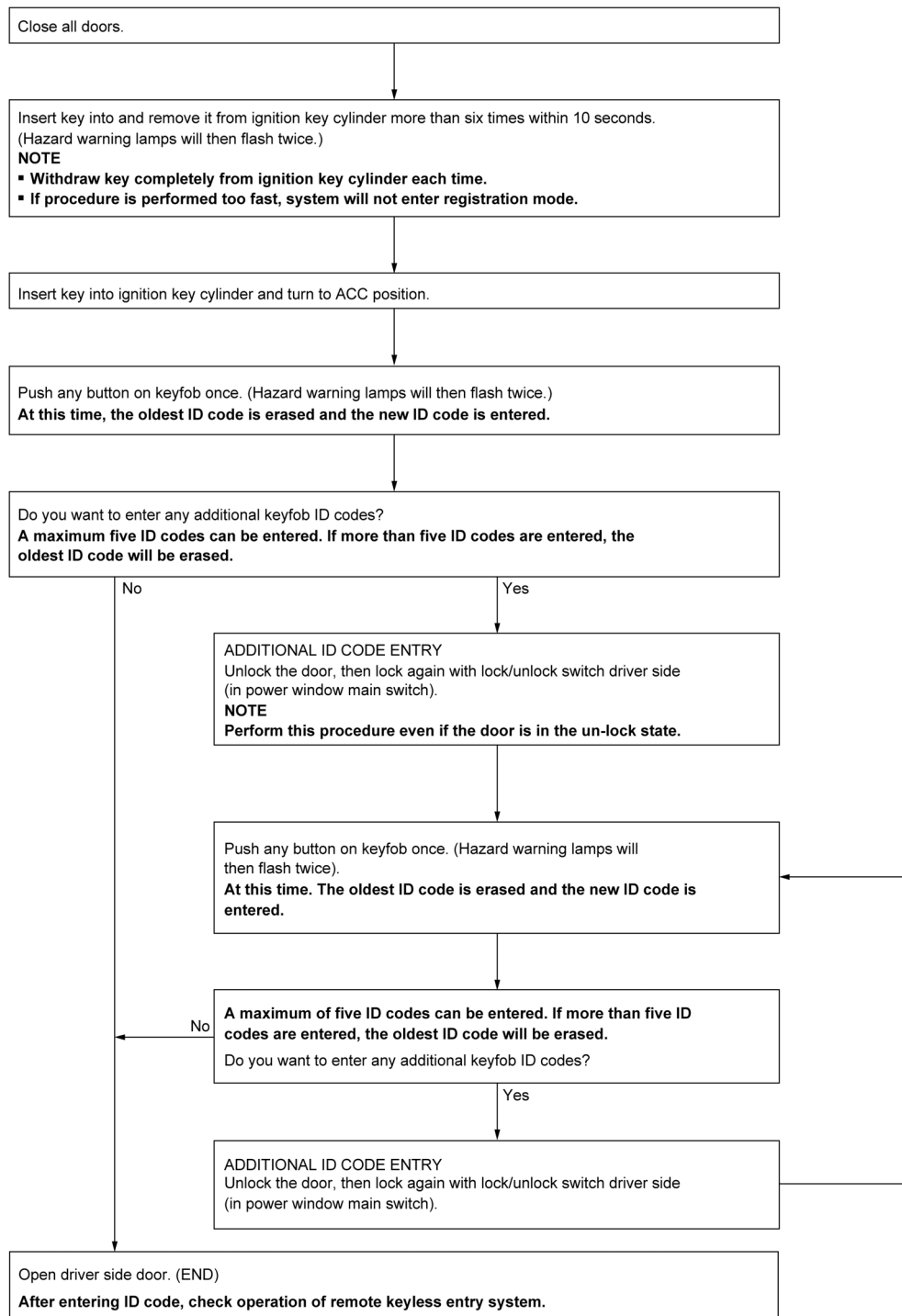
[WITHOUT INTELLIGENT KEY SYSTEM]

## KEYFOB ID SET UP WITHOUT CONSULT

### ID Code Entry Procedure

INFOID:000000012783329

### KEYFOB ID SET UP WITHOUT CONSULT



ALKIA2029GB

#### NOTE:

- If a keyfob is lost, the ID code of the lost keyfob must be erased to prevent unauthorized use. A specific ID code can be erased with CONSULT. However, when the ID code of a lost keyfob is not known, all controller

## KEYFOB ID SET UP WITHOUT CONSULT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

ID codes should be erased. After all ID codes are erased, the ID codes of all remaining and/or new keyfobs must be re-registered.

To erase all ID codes in memory, register one ID code (keyfob) five times. After all ID codes are erased, the ID codes of all remaining and/or new keyfobs must be re-registered.

- When registering an additional keyfob, the existing ID codes in memory may or may not be erased. If five ID codes are stored in memory, when an additional code is registered, only the oldest code is erased. If less than five ID codes are stored in memory, when an additional ID code is registered, the new ID code is added and no ID codes are erased.
- If you need to activate more than two additional new keyfobs, repeat the procedure "Additional ID code entry" for each new keyfob [DLK-277. "ID Code Entry Procedure"](#) (with CONSULT), [DLK-278. "ID Code Entry Procedure"](#) (without CONSULT).
- A maximum amount of five ID codes is allowed. When more than five ID codes are entered, the oldest ID code will be erased.
- Even if same ID code that is already in the memory is input, the same ID code can be entered. The code is counted as an additional code.

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# POWER DOOR LOCK SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

## SYMPTOM DIAGNOSIS

### POWER DOOR LOCK SYSTEM SYMPTOMS

#### Symptom Table

INFOID:0000000012783330

#### DOOR LOCK/UNLOCK FUNCTION MALFUNCTION

**NOTE:**

- Before performing the diagnosis in the following table, check “WORK FLOW”. Refer to [DLK-238, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the “Diagnosis/service procedure” column in this order.

Symptom	Diagnosis/service procedure	Reference page	
Key reminder door function does not operate properly.	1. Check door switch.	<a href="#">DLK-246</a>	
	2. Check key switch.	<a href="#">DLK-255</a>	
	3. Check Intermittent Incident.	<a href="#">GI-41</a>	
Power door lock does not operate with door lock and unlock switch on main power window and door lock/unlock switch or power window and door lock/unlock switch RH.	1. Check BCM power supply and ground circuit.	<a href="#">BCS-128</a>	
	2. Check main power window and door lock and unlock switch.	<a href="#">DLK-249</a>	
	3. Check power window and door lock and unlock switch RH.	<a href="#">DLK-250</a>	
	4. Check Intermittent Incident.	<a href="#">GI-41</a>	
Specific door lock actuator does not operate.	1. Check door lock actuator.	Driver side	<a href="#">DLK-256</a>
		Passenger side	<a href="#">DLK-257</a>
		Rear LH	<a href="#">DLK-258</a>
		Rear RH	<a href="#">DLK-259</a>
	2. Check Intermittent Incident.	<a href="#">GI-41</a>	
Power door locks do not operate with front door lock key cylinder switch LH.	1. Check key cylinder switch.	<a href="#">DLK-253</a>	
	2. Replace BCM.	<a href="#">BCS-135</a>	
Vehicle speed sensing auto door LOCK operation does not operate.	1. Ensure automatic door lock/unlock function (lock operation) is enabled.	<a href="#">DLK-208</a>	
	2. Check combination meter vehicle speed signal.	<a href="#">MWI-48</a>	
	3. Check intermittent incident.	<a href="#">GI-41</a>	
Ignition OFF interlock auto door UNLOCK function does not operate.	1. Ensure automatic door lock/unlock function (unlock operation) is enabled.	<a href="#">DLK-208</a>	
	2. Check BCM for DTCs.	<a href="#">BCS-115</a>	
	3. Check intermittent incident.	<a href="#">GI-41</a>	

# REMOTE KEYLESS ENTRY SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

## REMOTE KEYLESS ENTRY SYSTEM SYMPTOMS

### Symptom Table

INFOID:000000013374619

### REMOTE KEYLESS ENTRY SYSTEM

Symptom	Diagnoses/service procedure	Reference page
All functions of remote keyless entry system do not operate.	1. Keyfob battery and function check (use Remote Keyless Entry Tester [- (J-43241)] or Signal Tech II Tool [- (J-50190)]) <b>NOTE:</b> If the result of keyfob function check is OK, keyfob is not malfunctioning.	<a href="#">DLK-264</a>
	2. Check BCM and remote keyless entry receiver.	<a href="#">DLK-261</a>
The new ID of keyfob cannot be entered.	1. Keyfob battery and function check (use Remote Keyless Entry Tester [- (J-43241)] or Signal Tech II Tool [- (J-50190)]) <b>NOTE:</b> If the result of keyfob function check is OK, keyfob is not malfunctioning.	<a href="#">DLK-264</a>
	2. Door switch check	<a href="#">DLK-246</a>
	3. ACC power check	<a href="#">BCS-128</a>
	4. Replace BCM.	<a href="#">BCS-135</a>
Door lock or unlock does not function. (If the power door lock system does not operate manually, check power door lock system)	1. Keyfob battery and function check (use Remote Keyless Entry Tester [- (J-43241)] or Signal Tech II Tool [- (J-50190)]) <b>NOTE:</b> If the result of keyfob function check is OK, keyfob is not malfunctioning.	<a href="#">DLK-264</a>
	2. Replace BCM.	<a href="#">BCS-135</a>
Hazard and horn reminder does not activate properly when pressing lock or unlock button of keyfob.	1. Check hazard and horn reminder mode with CONSULT <b>NOTE:</b> Hazard and horn reminder mode can be changed. First check the hazard and horn reminder mode setting.	<a href="#">DLK-211</a>
	2. Door switch check	<a href="#">DLK-246</a>
	3. Replace BCM.	<a href="#">BCS-135</a>
Hazard reminder does not activate properly when pressing lock or unlock button of keyfob. (Horn reminder OK)	1. Check hazard reminder mode with CONSULT <b>NOTE:</b> Hazard reminder mode can be changed. First check the hazard reminder mode setting.	<a href="#">DLK-211</a>
	2. Check hazard function with hazard switch	—
	3. Replace BCM.	<a href="#">BCS-135</a>
Horn reminder does not activate properly when pressing lock or unlock button of keyfob. (Hazard reminder OK)	1. Check horn reminder mode with CONSULT <b>NOTE:</b> Horn reminder mode can be changed. First check the horn reminder mode setting.	<a href="#">DLK-211</a>
	2. Check horn function with horn switch	—
	3. IPDM E/R operation check	<a href="#">PCS-38</a>
	4. Replace BCM.	<a href="#">BCS-135</a>
Room lamp illumination does not operate properly.	1. Room lamp operation check	<a href="#">INL-8</a>
	2. Door switch check	<a href="#">DLK-246</a>
	3. Replace BCM.	<a href="#">BCS-135</a>

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# REMOTE KEYLESS ENTRY SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

Symptom	Diagnoses/service procedure	Reference page
Panic alarm (horn and headlamp) does not activate when panic alarm button is continuously pressed.	1. Keyfob battery and function check (use Remote Keyless Entry Tester [- (J-43241)] or Signal Tech II Tool [- (J-50190)]) <b>NOTE:</b> If the result of keyfob function check is OK, keyfob is not malfunctioning.	<a href="#">DLK-264</a>
	2. ACC power check	<a href="#">BCS-128</a>
	3. Replace BCM.	<a href="#">BCS-135</a>
Auto door lock operation does not activate properly. (All other remote keyless entry functions OK.)	1. Check auto door lock operation mode with CONSULT <b>NOTE:</b> Auto door lock operation mode can be changed. First check the auto door lock operation mode setting.	<a href="#">DLK-208</a>
	2. Replace BCM.	<a href="#">BCS-135</a>

# SQUEAK AND RATTLE TROUBLE DIAGNOSES

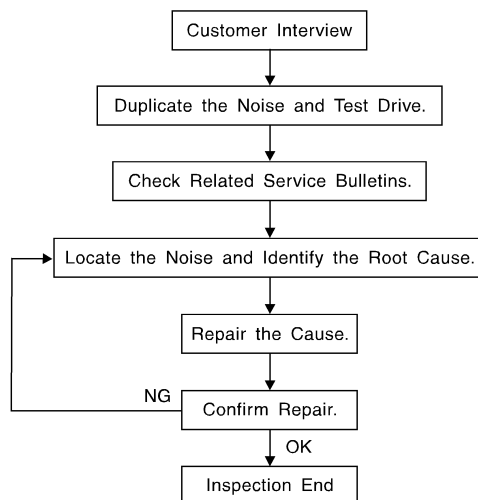
< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

## SQUEAK AND RATTLE TROUBLE DIAGNOSES

### Work Flow

INFOID:000000012783332



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### CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any customer's comments; refer to [DLK-287, "Diagnostic Worksheet"](#). This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, be sure to diagnose and repair the noise that the customer is concerned about. This can be accomplished by test driving the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics are provided so the customer, service adviser and technician are all speaking the same language when defining the noise.
- Squeak —(Like tennis shoes on a clean floor)  
Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces = higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping.
- Creak—(Like walking on an old wooden floor)  
Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle—(Like shaking a baby rattle)  
Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock —(Like a knock on a door)  
Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick—(Like a clock second hand)  
Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump—(Heavy, muffled knock noise)  
Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz—(Like a bumble bee)  
Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending upon the person. A noise that you may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

### DUPLICATE THE NOISE AND TEST DRIVE

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when you confirm the repair.

# SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to duplicate the noise with the vehicle stopped by doing one or all of the following:

- 1) Close a door.
  - 2) Tap or push/pull around the area where the noise appears to be coming from.
  - 3) Rev the engine.
  - 4) Use a floor jack to recreate vehicle "twist".
  - 5) At idle, apply engine load (electrical load, half-clutch on M/T model, drive position on CVT and A/T models).
  - 6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.
- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
  - If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

## CHECK RELATED SERVICE BULLETINS

After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related to that concern or symptom.

If a TSB relates to the symptom, follow the procedure to repair the noise.

## LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis Ear: J-39570, Engine Ear: J-39565 and mechanic's stethoscope).
2. Narrow down the noise to a more specific area and identify the cause of the noise by:
  - removing the components in the area that you suspect the noise is coming from.  
Do not use too much force when removing clips and fasteners, otherwise clips and fasteners can be broken or lost during the repair, resulting in the creation of new noise.
  - tapping or pushing/pulling the component that you suspect is causing the noise.  
Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
  - feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the noise.
  - placing a piece of paper between components that you suspect are causing the noise.
  - looking for loose components and contact marks.Refer to [DLK-284, "Generic Squeak and Rattle Troubleshooting"](#).

## REPAIR THE CAUSE

- If the cause is a loose component, tighten the component securely.
- If the cause is insufficient clearance between components:
  - separate components by repositioning or loosening and retightening the component, if possible.
  - insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. A NISSAN Squeak and Rattle Kit (J-50397) is available through your authorized NISSAN Parts Department.

### CAUTION:

**Do not use excessive force as many components are constructed of plastic and may be damaged.**

### NOTE:

- Always check with the Parts Department for the latest parts information.
- The materials contained in the NISSAN Squeak and Rattle Kit (J-50397) are listed on the inside cover of the kit; and can each be ordered separately as needed.
- The following materials not found in the kit can also be used to repair squeaks and rattles.
  - SILICONE GREASE: Use instead of UHMW tape that will be visible or does not fit. The silicone grease will only last a few months.
  - SILICONE SPRAY: Use when grease cannot be applied.
  - DUCT TAPE: Use to eliminate movement.

## CONFIRM THE REPAIR

Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet.

## Generic Squeak and Rattle Troubleshooting

INFOID:000000012783333

Refer to Table of Contents for specific component removal and installation information.

## INSTRUMENT PANEL

Most incidents are caused by contact and movement between:



# SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

1. Cluster lid A and the instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar finisher
4. Instrument panel to windshield
5. Instrument panel pins
6. Wiring harnesses behind the combination meter
7. A/C defroster duct and duct joint

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These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicone spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.

## CAUTION:

**Do not use silicone spray to isolate a squeak or rattle. If you saturate the area with silicone, you will not be able to recheck the repair.**

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## CENTER CONSOLE

Components to pay attention to include:

1. Shift selector assembly cover to finisher
2. A/C control unit and cluster lid C
3. Wiring harnesses behind audio and A/C control unit

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The instrument panel repair and isolation procedures also apply to the center console.

## DOORS

Pay attention to the:

1. Finisher and inner panel making a slapping noise
2. Inside handle escutcheon to door finisher
3. Wiring harnesses tapping
4. Door striker out of alignment causing a popping noise on starts and stops

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Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks from the NISSAN Squeak and Rattle Kit (J-50397) to repair the noise.

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## TRUNK

Trunk noises are often caused by a loose jack or loose items put into the trunk by the owner.

In addition look for:

1. Trunk lid bumpers out of adjustment
2. Trunk lid striker out of adjustment
3. The trunk lid torsion bars knocking together
4. A loose license plate or bracket

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Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

## SUNROOF/HEADLINING

Noises in the sunroof/headlining area can often be traced to one of the following:

1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
2. Sun visor shaft shaking in the holder
3. Front or rear windshield touching headlining and squeaking

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Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.

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## OVERHEAD CONSOLE (FRONT AND REAR)

Overhead console noises are often caused by the console panel clips not being engaged correctly. Most of these incidents are repaired by pushing up on the console at the clip locations until the clips engage.

In addition look for:

1. Loose harness or harness connectors.
2. Front console map/reading lamp lens loose.

## **SQUEAK AND RATTLE TROUBLE DIAGNOSES**

< SYMPTOM DIAGNOSIS >

**[WITHOUT INTELLIGENT KEY SYSTEM]**

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3. Loose screws at console attachment points.

### **SEATS**

When isolating seat noise it's important to note the position the seat is in and the load placed on the seat when the noise is present. These conditions should be duplicated when verifying and isolating the cause of the noise.

Cause of seat noise include:

1. Headrest rods and holder
2. A squeak between the seat pad cushion and frame
3. The rear seatback lock and bracket

These noises can be isolated by moving or pressing on the suspected components while duplicating the conditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component or applying urethane tape to the contact area.

### **UNDERHOOD**

Some interior noise may be caused by components under the hood or on the engine wall. The noise is then transmitted into the passenger compartment.

Causes of transmitted underhood noise include:

1. Any component installed to the engine wall
2. Components that pass through the engine wall
3. Engine wall mounts and connectors
4. Loose radiator installation pins
5. Hood bumpers out of adjustment
6. Hood striker out of adjustment

These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine rpm or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

# SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

## Diagnostic Worksheet

INFOID:000000012783334

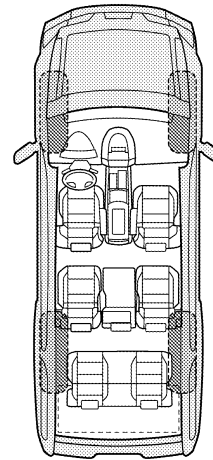
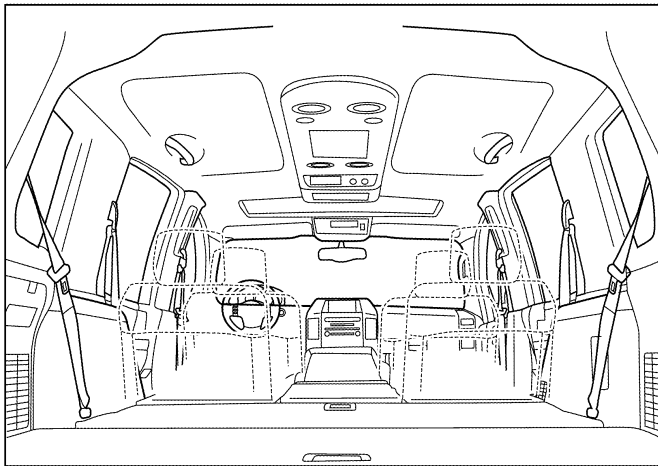
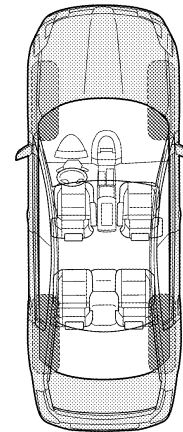
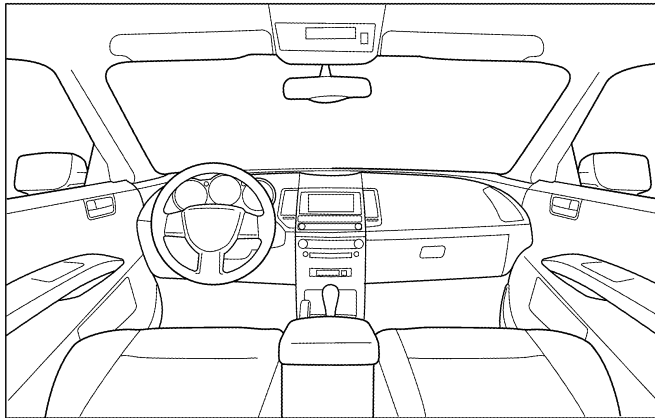
Dear Customer:

We are concerned about your satisfaction with your vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your vehicle right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked to take a test drive with a service advisor or technician to ensure we confirm the noise you are hearing.

### SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

#### I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.



Continue to page 2 of the worksheet and briefly describe the location of the noise or rattle. In addition, please indicate the conditions which are present when the noise occurs.

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# SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

## SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

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### II. WHEN DOES IT OCCUR? (please check the boxes that apply)

- |   |  |
|---|--|
| <input type="checkbox"/> Anytime                      | <input type="checkbox"/> After sitting out in the rain |
| <input type="checkbox"/> 1st time in the morning      | <input type="checkbox"/> When it is raining or wet     |
| <input type="checkbox"/> Only when it is cold outside | <input type="checkbox"/> Dry or dusty conditions       |
| <input type="checkbox"/> Only when it is hot outside  | <input type="checkbox"/> Other:                        |

### III. WHEN DRIVING:

- Through driveways
- Over rough roads
- Over speed bumps
- Only about \_\_\_\_ mph
- On acceleration
- Coming to a stop
- On turns: left, right or either (circle)
- With passengers or cargo
- Other: \_\_\_\_\_
- After driving \_\_\_\_ miles or \_\_\_\_ minutes

### IV. WHAT TYPE OF NOISE

- Squeak (like tennis shoes on a clean floor)
- Creak (like walking on an old wooden floor)
- Rattle (like shaking a baby rattle)
- Knock (like a knock at the door)
- Tick (like a clock second hand)
- Thump (heavy muffled knock noise)
- Buzz (like a bumble bee)

### TO BE COMPLETED BY DEALERSHIP PERSONNEL

#### Test Drive Notes:

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	YES	NO	Initials of person performing
Vehicle test driven with customer	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Noise verified on test drive	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Noise source located and repaired	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Follow up test drive performed to confirm repair	<input type="checkbox"/>	<input type="checkbox"/>	_____

VIN: \_\_\_\_\_ Customer Name \_\_\_\_\_  
W.O.# \_\_\_\_\_ Date: \_\_\_\_\_

This form must be attached to Work Order

LAI0071E

# HOOD

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

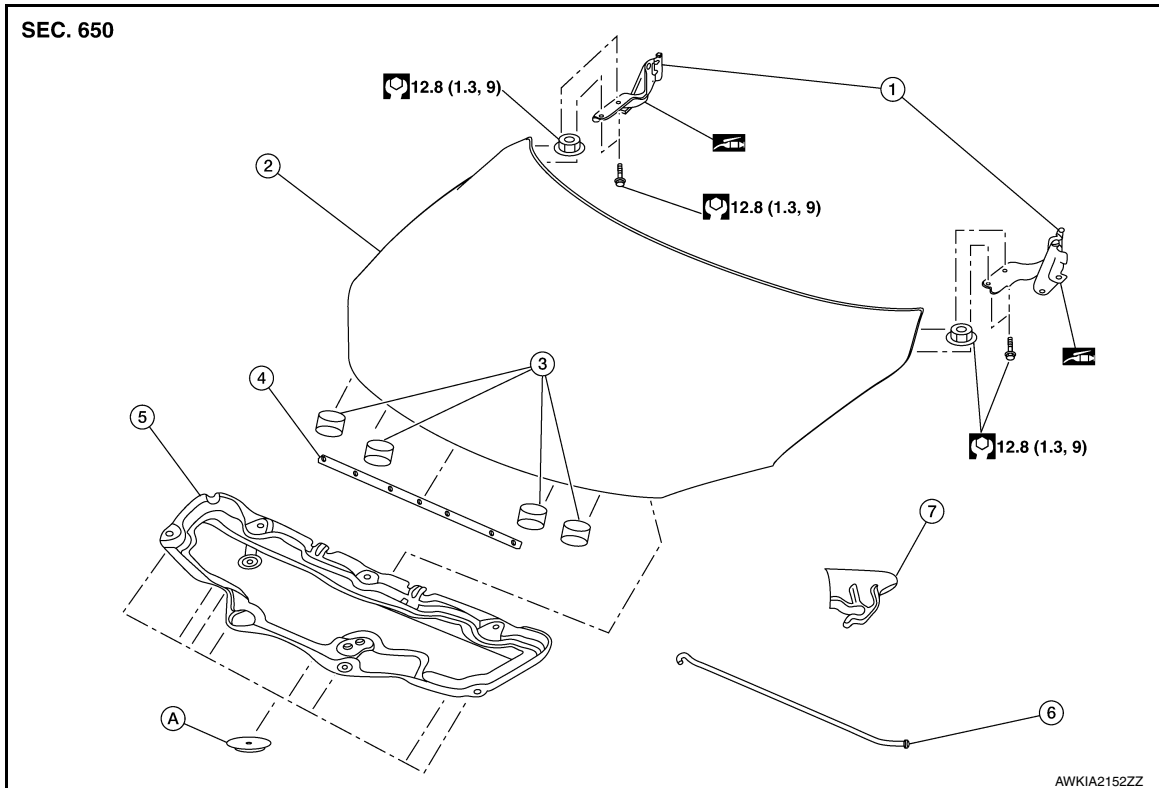
## REMOVAL AND INSTALLATION

HOOD

HOOD ASSEMBLY

HOOD ASSEMBLY : Exploded View

INFOID:000000012783335



- |                           |                   |                       |
|---------------------------|-------------------|-----------------------|
| 1. Hood hinge (LH/RH)     | 2. Hood assembly  | 3. Hood bumper rubber |
| 4. Hood seal              | 5. Hood insulator | 6. Hood support rod   |
| 7. Hood support rod clamp | A. Clip           |                       |

## HOOD ASSEMBLY : Removal and Installation

INFOID:000000012783336

### CAUTION:

- Use two people when removing or installing hood assembly due to its heavy weight.
- Use protective tape or shop cloths to protect surrounding components from damage during removal and installation of hood assembly.

### REMOVAL

1. Support the hood assembly using a suitable tool.

### WARNING:

**Bodily injury may occur if hood assembly is not supported properly when removing hood assembly.**

2. Disconnect front washer nozzle and tube.

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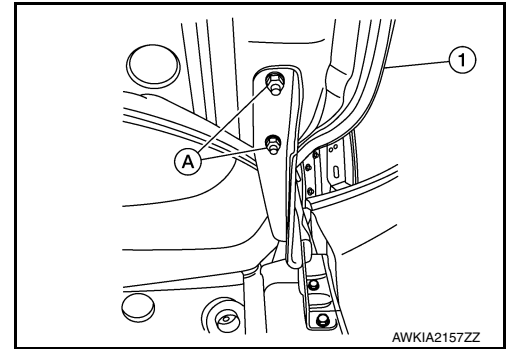
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# HOOD

## < REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

- Remove hood hinge to hood nuts (A) and then remove the hood assembly (1).



AWKIA2157ZZ

## INSTALLATION

Installation is in the reverse order of removal.

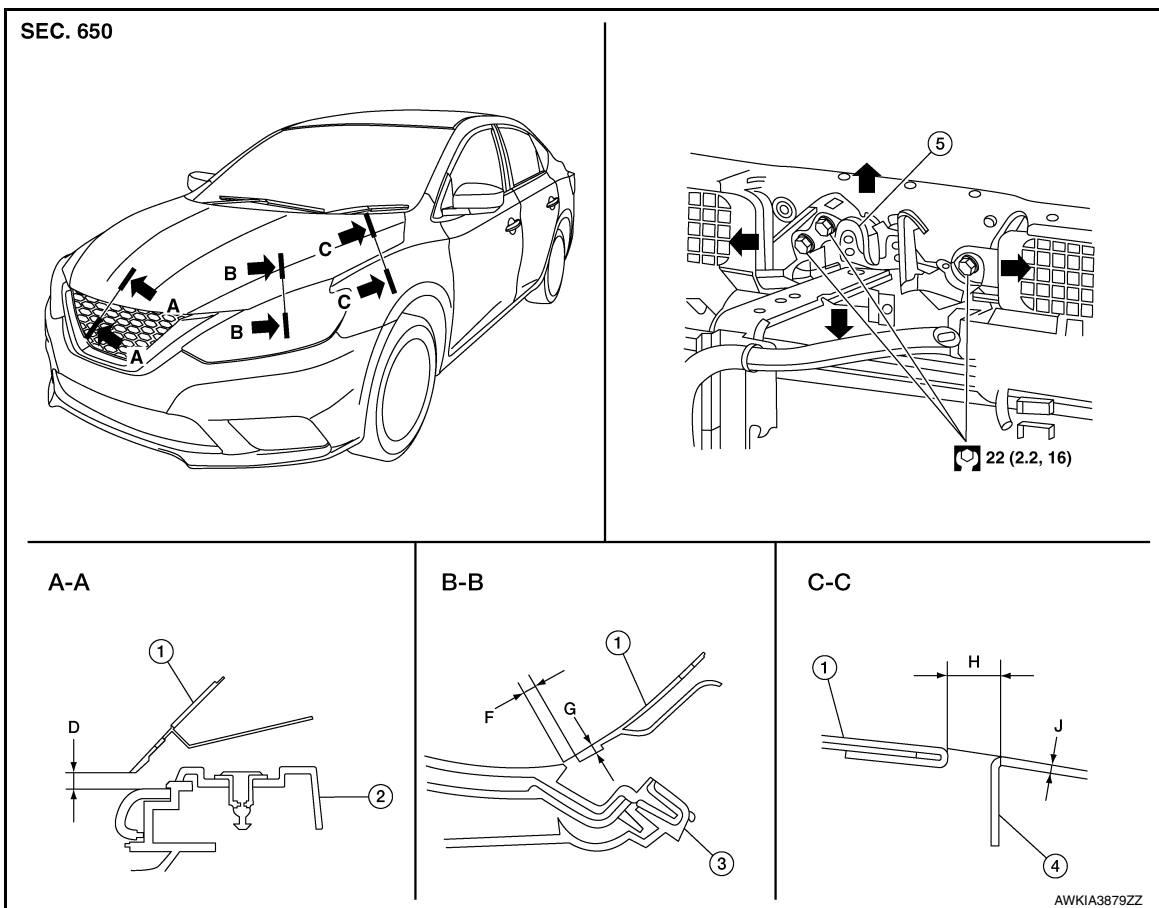
Tighten hood hinge to hood nuts to specified torque. Refer to [DLK-144, "HOOD ASSEMBLY : Exploded View"](#).

### CAUTION:

- Before installing the hood hinge, apply anticorrosive agent onto the surface of the vehicle.
- After installation, perform the hood assembly adjustment procedure. Refer to [DLK-290, "HOOD ASSEMBLY : Adjustment"](#).

## HOOD ASSEMBLY : Adjustment

INFOID:00000001278337



AWKIA3879ZZ

- Hood assembly
- Front grille

- Front combination lamp
- Front fender
- Hood lock assembly

Check the clearance and the surface height between hood and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedures.

# HOOD

## < REMOVAL AND INSTALLATION >

## [WITHOUT INTELLIGENT KEY SYSTEM]

Unit: mm (in)

Section	Item	Measurement	Standard	Parallelism	Equality
A – A	D	Clearance	6.2 ±2.3 (0.24 ±0.09)	<2.0	—
B – B	F	Clearance	3.5 ±2.4 (0.14 ±0.09)	<2.0	<3.0
	G	Surface height	0.7 ±2.0 (0.03 ±0.08)	<2.0	<2.0
C – C	H	Clearance	3.7 ±1.0 (0.15 ±0.04)	<2.0	<2.0
	J	Surface height	0.0 ±1.0 (0.00 ±0.04)	—	—

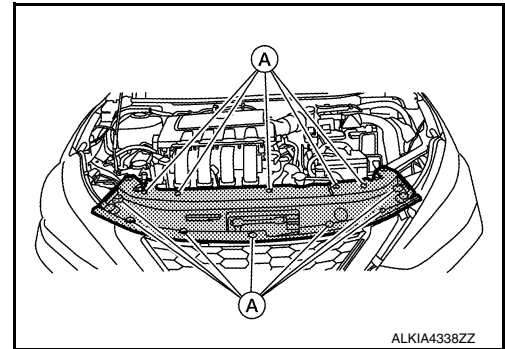
### CLEARANCE ADJUSTMENT

1. Loosen hood hinge (LH/RH) nuts and bolts.

**NOTE:**

The anticorrosive agent applied between the hoodedge and the hood hinges also acts as an adhesive. This seal must be broken before the hinges will move.

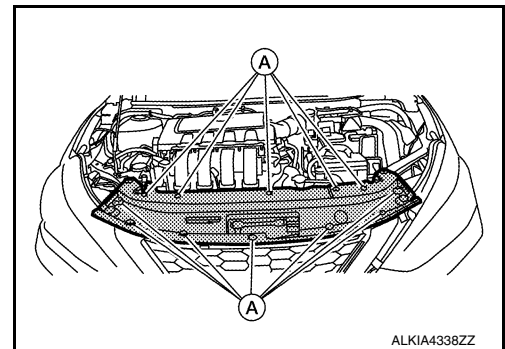
2. Remove the radiator core support upper cover clips (A) and remove.



3. Loosen the hood lock assembly bolts.
4. Adjust the hood assembly so the clearance measurements are within specifications provided. Then tighten the hood hinge nuts and bolts to specified torque. Refer to [DLK-144. "HOOD ASSEMBLY : Exploded View"](#).
5. Tighten the hood lock assembly bolts to specified torque. Refer to [DLK-149. "HOOD LOCK CONTROL : Exploded View"](#).
6. Install the radiator core support upper cover.

### HEIGHT ADJUSTMENT

1. Remove the radiator core support upper cover clips (A) and remove.



2. Loosen the hood lock assembly bolts.

# HOOD

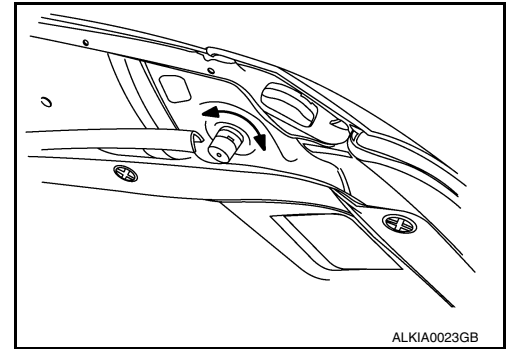
## < REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

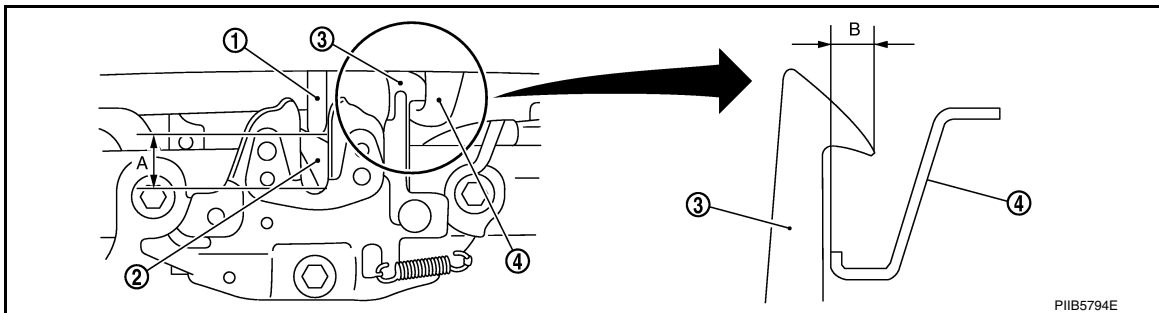
- Adjust the surface height of the hood assembly to front bumper fascia and front fender according to the specified values by rotating the hood bumper rubbers.

**NOTE:**

Only one hood bumper rubber shown for clarity.



- Temporarily tighten the hood lock assembly bolts.
- Adjust (A) and (B) as shown to the following value with hood's own weight by dropping it from approximately 200 mm (7.9 in) height or by pressing hood lightly [approximately 29 Nm (3.0 kg-m, 21 ft-lb)].



- |                    |                   |                      |
|--------------------|-------------------|----------------------|
| 1. Hood striker    | 2. Primary latch  | 3. Secondary striker |
| 4. Secondary latch | A. 20 mm (0.8 in) | B. 6.8 mm (0.27 in)  |

- After adjustment, tighten hood hinge nuts and bolts to the specified torque. Refer to [DLK-144, "HOOD ASSEMBLY : Exploded View"](#).

**CAUTION:**

- Check hood hinge rotating part for poor lubrication. If necessary, apply a suitable multi-purpose grease.
- After adjusting, apply touch-up paint (body color) to the head of hood hinge bolts and nuts.

- Tighten the hood lock assembly bolts to specified torque.
- Install the radiator core support upper cover.
- If the clearance measurements between the hood and fender cannot be corrected by adjusting the hood, the fender must be adjusted. Refer to [DLK-155, "Adjustment"](#).

## HOOD HINGE

### HOOD HINGE : Removal and Installation

INFOID:000000012783338

#### REMOVAL

- Remove the fender protector. Refer to [EXT-28, "FENDER PROTECTOR : Removal and Installation - Front Fender Protector"](#).
- Remove the core support upper cover. Refer to [HA-39, "Exploded View"](#).
- Remove the front fascia. Refer to [EXT-17, "Removal and Installation"](#).
- Remove the front combination lamp. Refer to [EXL-127, "Removal and Installation"](#) (HALOGEN), [EXL-257, "Removal and Installation"](#) (LED).
- Remove the front fender. Refer to [DLK-154, "Removal and Installation"](#).

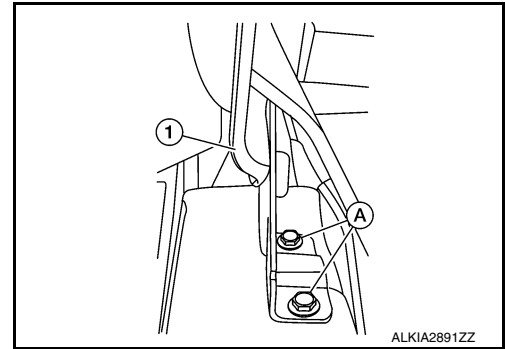


# HOOD

## < REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

6. Remove hood hinge bolts (A) and hood hinge (1).



### INSTALLATION

Installation is in the reverse order of removal.

Tighten bolts to specified torque. Refer to [DLK-144, "HOOD ASSEMBLY : Exploded View"](#).

#### **CAUTION:**

- Before installing the hood hinge, apply anticorrosive agent onto the surface of the vehicle.
- After installation, perform hood assembly adjustment procedure. Refer to [DLK-290, "HOOD ASSEMBLY : Adjustment"](#).

## HOOD SUPPORT ROD

### HOOD SUPPORT ROD : Removal and Installation

INFOID:000000012783339

#### REMOVAL

1. Support hood assembly using a suitable tool.

#### **WARNING:**

**Bodily injury may occur if hood assembly is not supported properly when removing hood support rod.**

2. Rotate and remove hood support rod from grommet.
3. Remove grommet from hood hinge using a suitable tool (if necessary).

#### INSTALLATION

Installation is in the reverse order of removal.

## HOOD LOCK CONTROL

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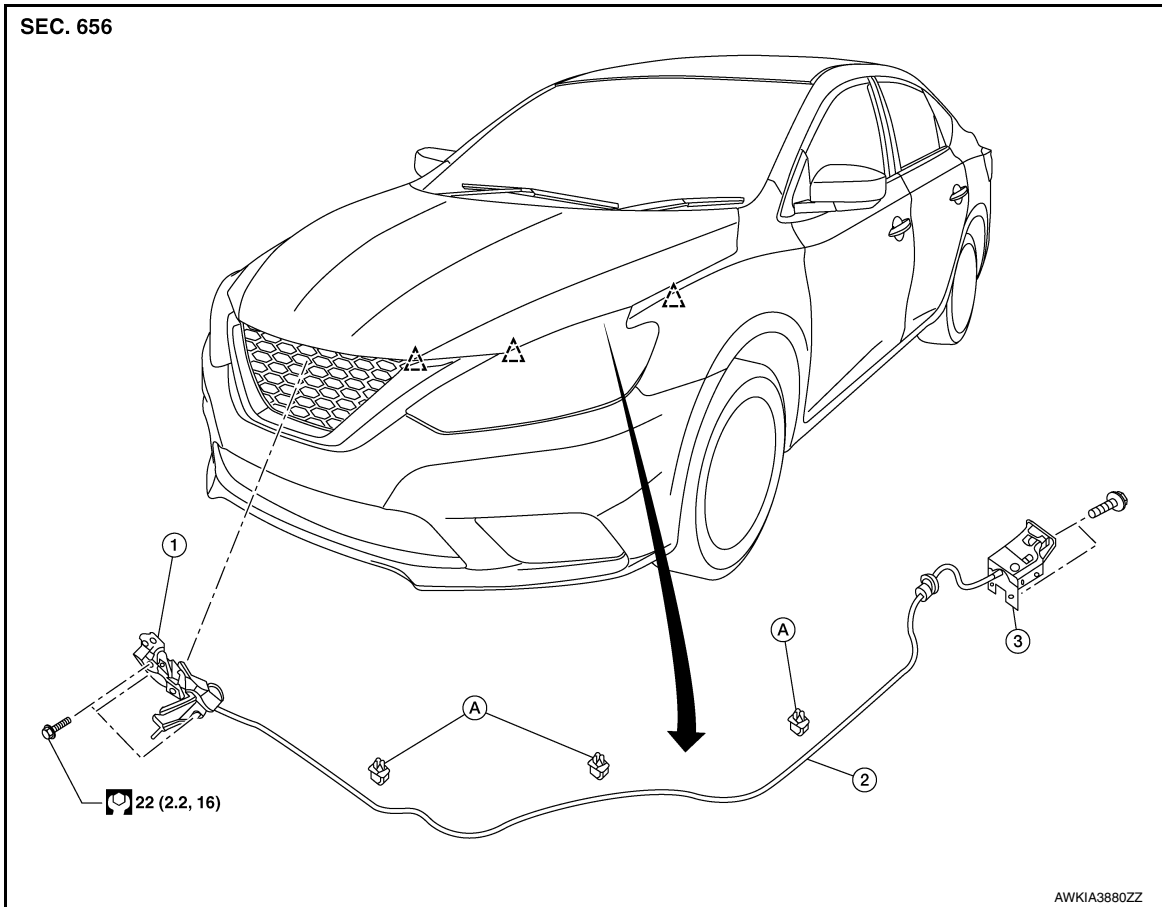
# HOOD

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

## HOOD LOCK CONTROL : Exploded View

INFOID:000000012783340



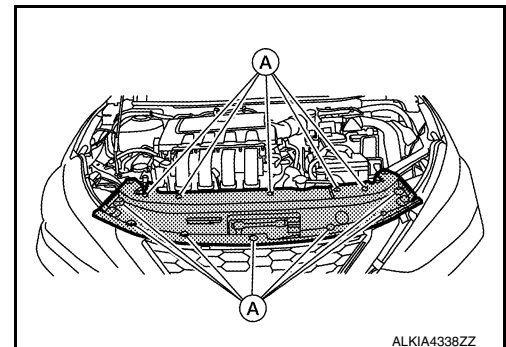
- 1. Hood lock assembly
- 2. Hood lock release cable
- 3. Hood lock/fuel filler door release handle assembly
- A. Hood lock release cable clip
- △ Clip

## HOOD LOCK CONTROL : Removal and Installation

INFOID:000000012783341

### REMOVAL

1. Remove the fender protector (LH). Refer to [EXT-28. "FENDER PROTECTOR : Removal and Installation - Front Fender Protector"](#).
2. Remove the radiator core support upper cover clips (A) and remove.

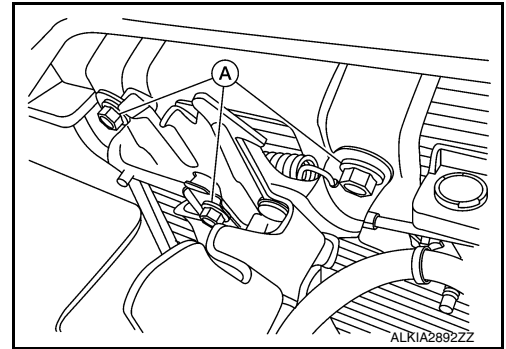


# HOOD

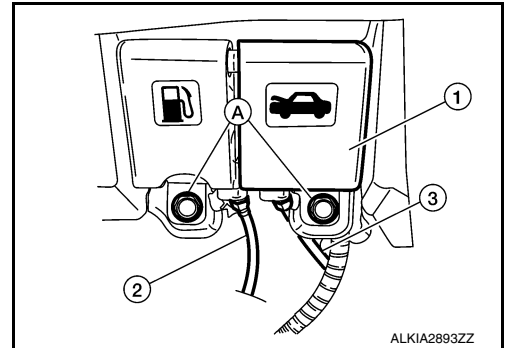
## < REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

3. Remove the hood lock assembly bolts (A).



4. Disconnect the hood lock release cable from the hood lock assembly.
5. Remove the bolts (A), then separate the hood lock/fuel filler door release handle assembly (1) from the hood lock release cable (3) and fuel filler door release cable (2).



6. Remove the grommet from the dash assembly and pull the hood lock release cable into the passenger compartment.

**CAUTION:**

**While pulling, be careful not to damage (peel) the outside of the hood lock release cable.**

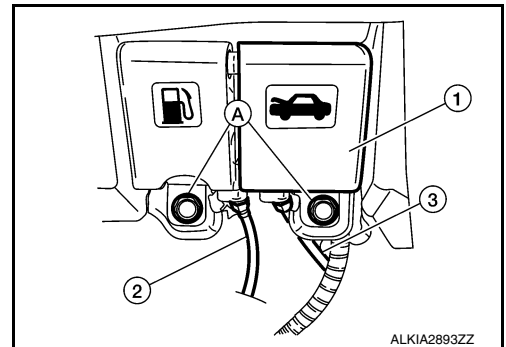
## INSTALLATION

1. Pull the hood lock release cable through the dash assembly into the engine compartment.

**CAUTION:**

**Be careful not to bend the cable too much, keep the radius 100 mm (3.94 in) or more.**

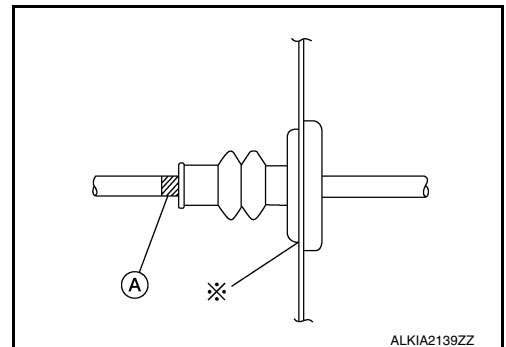
2. Attach the hood lock release cable (3) and the fuel filler door release cable (2) to the hood lock/fuel filler door release handle assembly (1).
3. Place hood lock/fuel filler door release handle assembly in position and retain with bolts (A).



4. Check that the cable is not offset from the center of the grommet and seat the grommet into the dash hole.

**NOTE:**

Make sure that the marked area (A) of the cable is located as shown after mounting grommet to dash upper assembly. Apply sealant around the grommet at \* mark.



5. Position the hood lock release cable and clip it into place.

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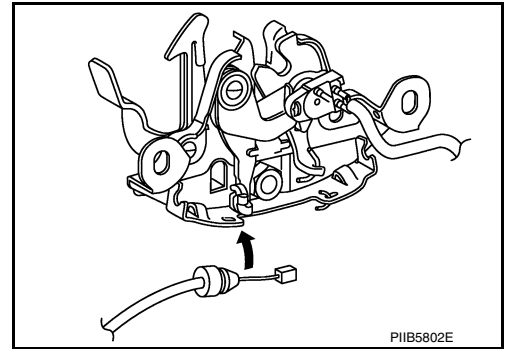
DLK

# HOOD

## < REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

6. Connect the hood lock release cable to the hood lock assembly.



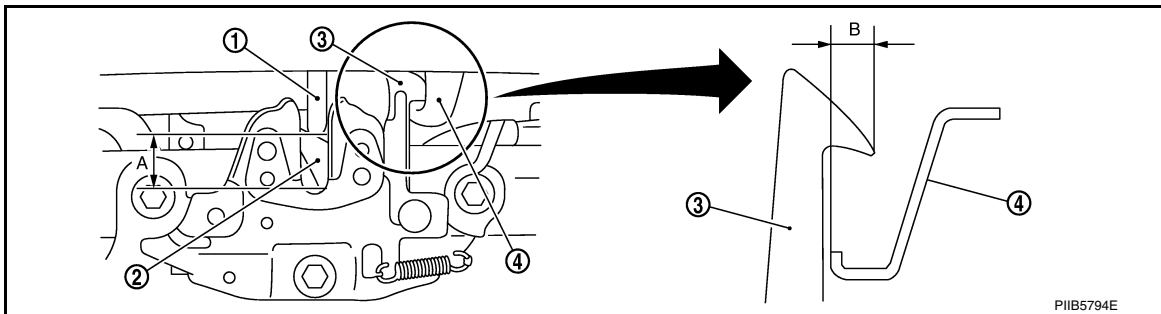
7. Perform hood fitting adjustment. Refer to [DLK-290, "HOOD ASSEMBLY : Adjustment"](#).
8. Perform the hood lock control inspection.

### INSPECTION

#### NOTE:

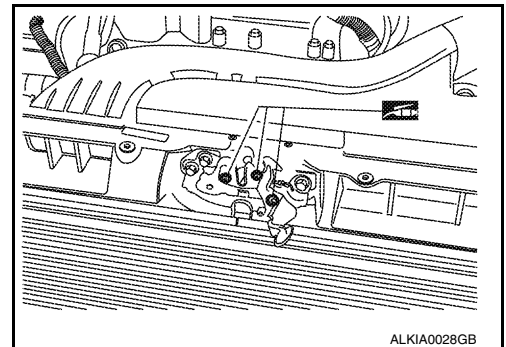
If the hood lock release cable is bent or deformed, replace it.

1. Check that the secondary latch is properly engaged with the secondary striker and meets specification provided (B) with hood's own weight.



- |                    |                   |                      |
|--------------------|-------------------|----------------------|
| 1. Hood striker    | 2. Primary latch  | 3. Secondary striker |
| 4. Secondary latch | A. 20 mm (0.8 in) | B. 6.8 mm (0.27 in)  |

2. While operating the hood lock release handle, carefully check that the front end of the hood assembly is raised and meets the specification provided (A). Also check that the hood lock release handle returns to the original position.
3. Check that the hood lock release handle operating force is 49 N (5.0 kg, 11 lb) or less.
4. Install so the static closing force of the hood assembly is 49 – 490 N (5.0 – 50 kg-f, 36 - 110.2 lb-f).
5. Check the hood lock assembly lubrication condition. If necessary, apply a suitable multi-purpose grease as shown.



# RADIATOR CORE SUPPORT

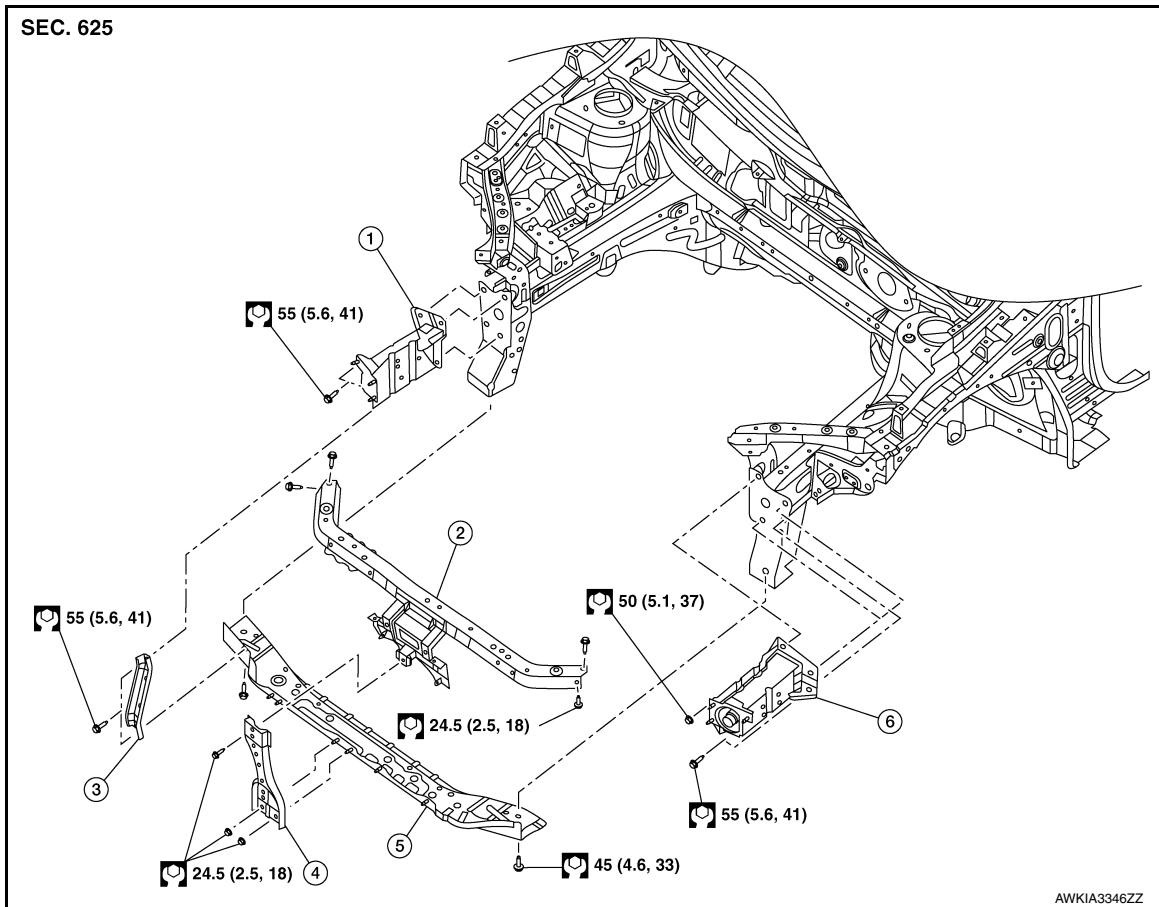
< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

## RADIATOR CORE SUPPORT

Exploded View

INFOID:000000012783342



- |                                  |                       |                                  |
|----------------------------------|-----------------------|----------------------------------|
| 1. Core support side member (RH) | 2. Core support upper | 3. Core support lower stay       |
| 4. Hood lock support             | 5. Core support lower | 6. Core support side member (LH) |

## Removal and Installation

INFOID:000000012783343

### REMOVAL

#### **CAUTION:**

**Before servicing, turn ignition switch OFF, disconnect both battery terminals and wait at least three minutes.**

1. Disconnect the battery negative and positive terminals then wait at least three minutes. Refer to [PG-74, "Removal and Installation \(Battery\)"](#).
2. Remove crash zone sensor. Refer to [SR-27, "Removal and Installation"](#).
3. Remove radiator. Refer to [CO-15, "Removal and Installation"](#).
4. Remove the condenser (if equipped). Refer to [HA-39, "CONDENSER : Removal and Installation"](#).
5. Remove the horns. Refer to [HRN-6, "Removal and Installation"](#).
6. Remove air guides (LH/RH).
7. Remove the hood lock support bolts and hood lock support.
8. Remove the core support lower stay bolts and core support lower stay.
9. Remove the core support lower bolts and core support lower.
10. Remove the core support side member nuts and bolts and remove the core support side member (if necessary).

### INSTALLATION

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## RADIATOR CORE SUPPORT

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

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Installation is in the reverse order of removal.

Tighten bolts to specification. Refer to [DLK-152, "Exploded View"](#).

**CAUTION:**

After installation, perform hood fitting adjustment. Refer to [DLK-145, "HOOD ASSEMBLY : Adjustment"](#).

# FRONT FENDER

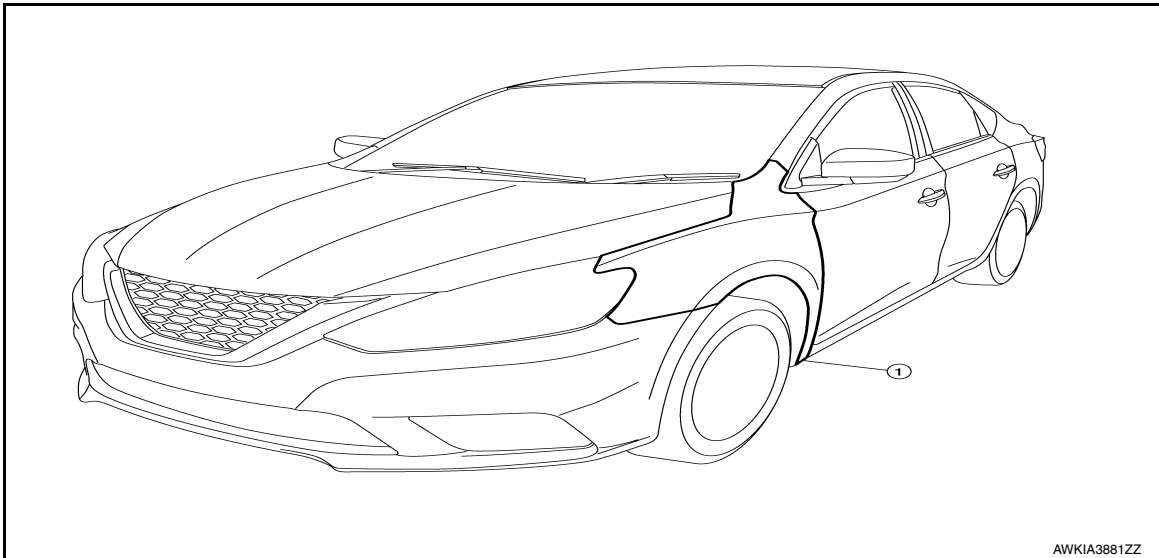
< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

## FRONT FENDER

Exploded View

INFOID:000000012783344



1. Front fender

## Removal and Installation

INFOID:000000012783345

### REMOVAL

1. Remove the front combination lamp. Ref to [EXL-127, "Removal and Installation"](#) (HALOGEN), [EXL-257, "Removal and Installation"](#) (LED).
2. Remove the front bumper fascia. Refer to [EXT-17, "Removal and Installation"](#).
3. Remove the front fender protector. Refer to [EXT-28, "FENDER PROTECTOR : Removal and Installation - Front Fender Protector"](#).
4. Remove the front fender bolts and the front fender.

**CAUTION:**

**Use shop cloths to protect the body from being damaged during removal and installation.**

### INSTALLATION

Installation is in the reverse order of removal.

**CAUTION:**

**After installation, perform fender adjustment procedure. Refer to [DLK-300, "Adjustment"](#).**

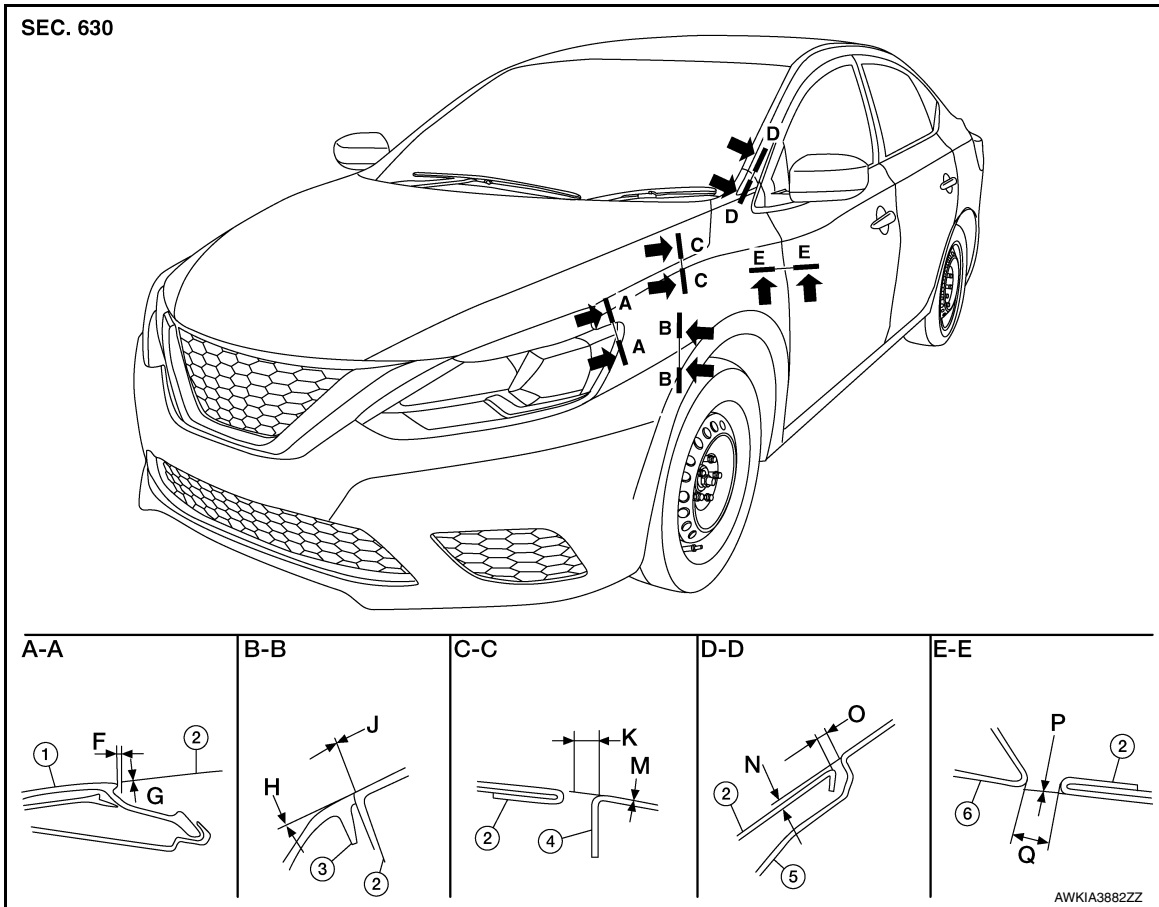
# FRONT FENDER

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

## Adjustment

INFOID:000000012783346



- 1. Front combination lamp assembly      2. Fender      3. Front bumper fascia
- 4. Hood assembly      5. Body side outer      6. Front door

Check the clearance and the surface height between hood and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedures.

Unit: mm (in)

Section	Item	Measurement	Standard
A - A	F	Clearance	1.5 ± 1.3 (0.06 ± 0.05)
	G	Surface height	0.7 ± 1.3 (0.03 ± 0.05)
B - B	H	Surface height	0.7 ± 1.0 (0.03 ± 0.04)
	J	Clearance	0.0 ± 1.0 (0.00 ± 0.04)
C - C	K	Clearance	3.7 ± 1.0 (0.15 ± 0.04)
	M	Surface height	0.0 ± 1.0 (0.00 ± 0.04)
D - D	N	Surface height	0.0 ± 1.0 (0.00 ± 0.04)
	O	Clearance	3.0 ± 1.0 (0.12 ± 0.04)
E - E	P	Surface height	—
	Q	Clearance	3.8 ± 1.0 (0.15 ± 0.04)

### Adjustment

1. Remove front bumper fascia. Refer to [EXT-17, "Removal and Installation"](#).
2. Remove the front fender protector. Refer to [EXT-28, "FENDER PROTECTOR : Removal and Installation - Front Fender Protector"](#).



## FRONT FENDER

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

3. Loosen the front fender bolts.
4. Adjust the clearance (Q) and surface height (P) between the front fender and the front door. A
5. Tighten the rear upper and lower front fender bolts.
6. Adjust the clearance (K) and surface height (M) between the front fender and the hood. B
7. Adjust the clearance (O) and surface height (N) between the front fender and the body side outer. B
8. Tighten the inner front fender bolts.
9. Adjust the clearance (J) and the surface height (H) between the front fender and the front fascia. C
10. Tighten the front fender to front fascia and bracket screws.
11. Install front bumper fascia. Refer to [EXT-17, "Removal and Installation"](#).
12. Install front combination lamp. Refer to [EXL-127, "Removal and Installation"](#) (HALOGEN), [EXL-257, "Removal and Installation"](#) (LED). D
13. Install the front fender protector. Refer to [EXT-28, "FENDER PROTECTOR : Removal and Installation - Front Fender Protector"](#). E

### CAUTION:

- If the clearance measurements cannot be corrected by adjusting the fender, adjust the following as necessary.
- Hood assembly: Refer to [DLK-145, "HOOD ASSEMBLY : Adjustment"](#). F
- Front door: Refer to [DLK-159, "DOOR ASSEMBLY : Adjustment"](#).
- After adjusting, apply touch-up paint (body color) to the head of the front fender bolts. G

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# FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

## FRONT DOOR DOOR ASSEMBLY

### DOOR ASSEMBLY : Removal and Installation

INFOID:000000012783347

#### CAUTION:

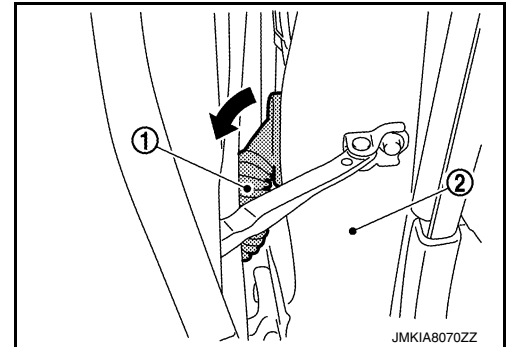
- Use two people when removing or installing the front door assembly due to its heavy weight.
- When removing and installing front door assembly, support front door using a suitable tool.
- Do not use air tools or electric tools for servicing.
- Before servicing, turn ignition switch OFF, disconnect both battery terminals and wait at least three minutes.

#### NOTE:

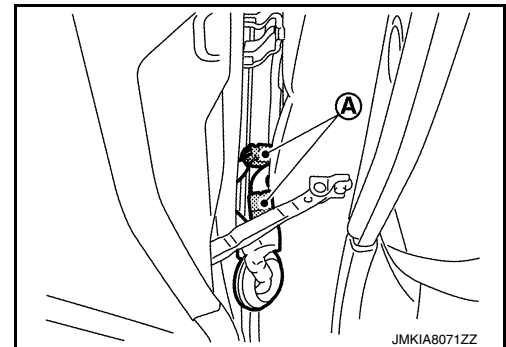
LH side shown; RH side similar.

#### REMOVAL

1. Disconnect the battery negative and positive terminals and wait at least three minutes, if equipped with the side air bag (satellite) sensor. Refer to [PG-74, "Removal and Installation \(Battery\)"](#).
2. Remove front door assembly harness grommet LH (1) then pull out door harness from body (2).



3. Disconnect the harness connectors (A) from the front door assembly harness.



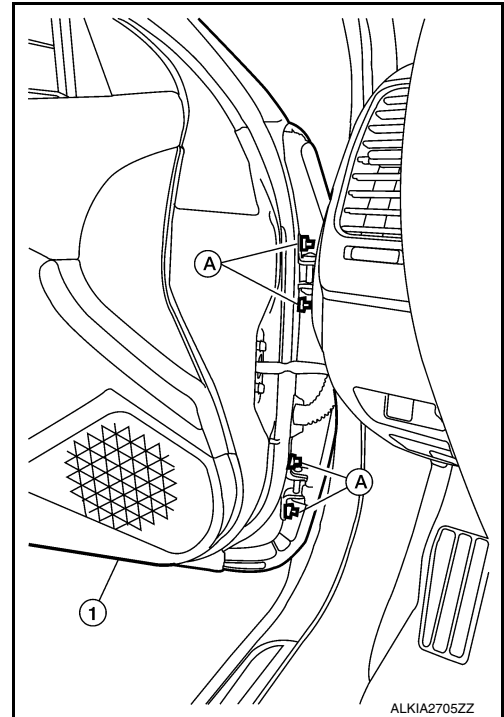
4. Remove check link bolt (body side).

## FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

5. Remove front door assembly hinge nuts (A) (door side) and the door assembly (1).



### INSTALLATION

Installation is in the reverse order of removal.  
Tighten door hinge nuts to specified torque.

#### **CAUTION:**

- After installation, check front door open/close, lock/unlock operation.
- After installation, perform the front door adjustment procedure. Refer to [DLK-304, "DOOR ASSEMBLY : Adjustment"](#).

#### **NOTE:**

When main power window and door lock/unlock switch is removed or replaced, it is necessary to perform the initialization procedure. Refer to [PWC-28, "Description"](#).

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DLK

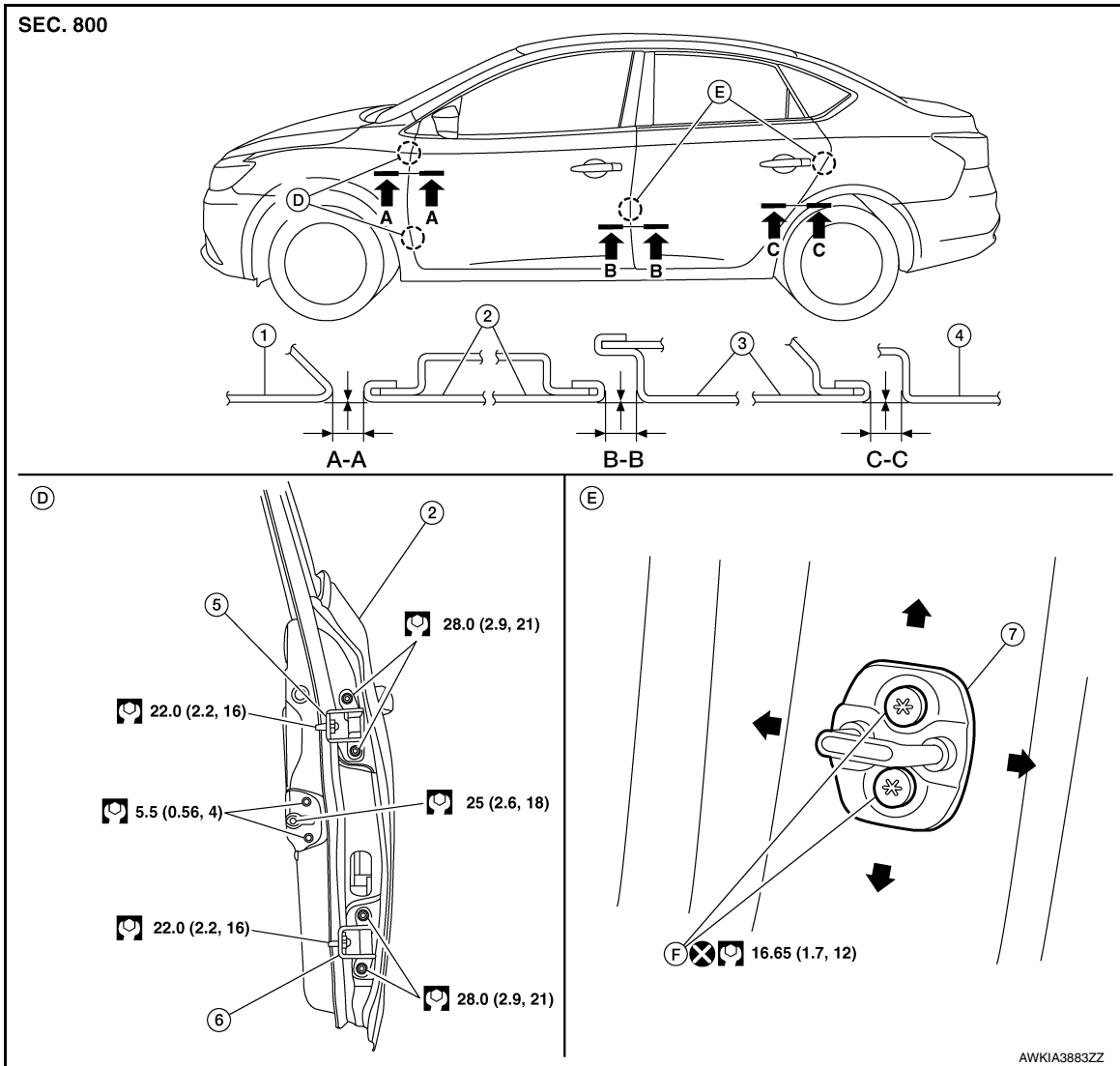
# FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

## DOOR ASSEMBLY : Adjustment

INFOID:000000012783348



- 1. Front fender
- 2. Front door assembly
- 3. Rear door assembly
- 4. Body side outer
- 5. Front door upper hinge
- 6. Front door lower hinge
- 7. Front door striker
- F. Front door striker bolts

Check the clearance and surface height between front door and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedure.

Unit: mm (in)

Section	Item	Measurement	Standard
A - A	G	Clearance	$4.0 \pm 1.0$ (0.16 $\pm$ 0.04)
	H	Surface height	$0.0 \pm 1.0$ (0.0 $\pm$ 0.04)
B - B	H	Clearance	$4.2 \pm 1.0$ (0.17 $\pm$ 0.04)
	J	Surface height	$0.0 \pm 1.0$ (0.0 $\pm$ 0.04)
C - C	J	Clearance	$4.0 \pm 1.0$ (0.16 $\pm$ 0.04)
	K	Surface height	$0.0 \pm 1.0$ (0.0 $\pm$ 0.04)

### LONGITUDINAL CLEARANCE

1. Remove the front fender. Refer to [DLK-154. "Removal and Installation"](#).

# FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

2. Loosen the front door hinge to body bolts. Move the door forward or backward as necessary until within specifications provided.
3. Tighten the hinge to body bolts to specified torque.

**Front door hinge bolts**

**22.0 N·m (2.2 kg-m, 16 ft-lb)**

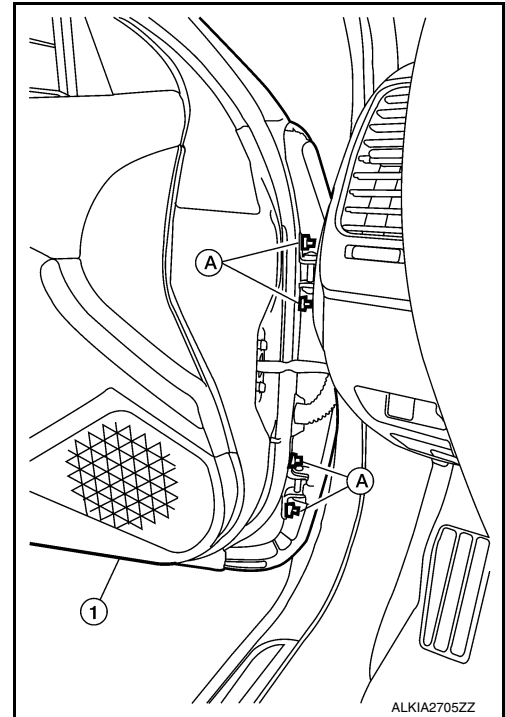
4. Install the front fender. Refer to [DLK-154, "Removal and Installation"](#).

## SURFACE HEIGHT ADJUSTMENT

1. Loosen the front door hinge nuts (A).
2. Move the top and/or bottom of the door (1) in or out as necessary until it is within specifications provided.
3. Tighten the front door hinge nuts to specified torque.

**Front door hinge nuts**

**28.0 N·m (2.9 kg-m, 21 ft-lb)**



### CAUTION:

- Check front door hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.
- After adjusting, apply touch-up paint (body color) to the head of front door hinge bolts and nuts.
- If the clearance measurements cannot be corrected by adjusting the front door assembly, adjust the following as necessary.
  - Front fender: Refer to [DLK-155, "Adjustment"](#).
  - Rear door: Refer to [DLK-164, "DOOR ASSEMBLY : Adjustment"](#).

## DOOR STRIKER ADJUSTMENT

Adjust front door assembly striker so that it becomes parallel with door lock insertion direction.

## DOOR HINGE

### DOOR HINGE : Removal and Installation

INFOID:000000012783349

#### REMOVAL

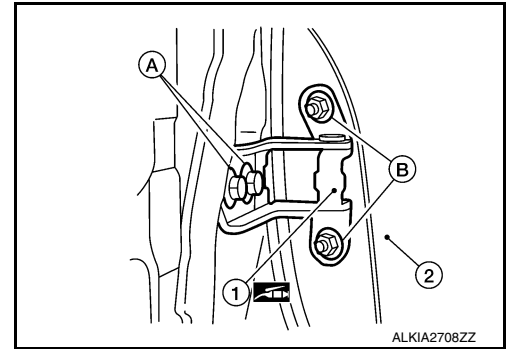
1. Remove front door fender. Refer to [DLK-299, "Removal and Installation"](#).
2. Remove front door assembly (2). Refer to [DLK-302, "DOOR ASSEMBLY : Removal and Installation"](#).
3. Remove bolt (A) and door hinge (1).

## FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

4. Remove door hinge bolts (B) and remove hinge (1).



### INSTALLATION

Installation is in the reverse order of removal.

Tighten front door hinge bolts to specified torque. [DLK-159, "DOOR ASSEMBLY : Adjustment"](#)

#### CAUTION:

- Apply anticorrosive agent onto the front door hinge mating surface.
- After installation, check front door open/close, lock/unlock operation.
- After installation, perform the front door adjustment procedure. Refer to [DLK-304, "DOOR ASSEMBLY : Adjustment"](#).

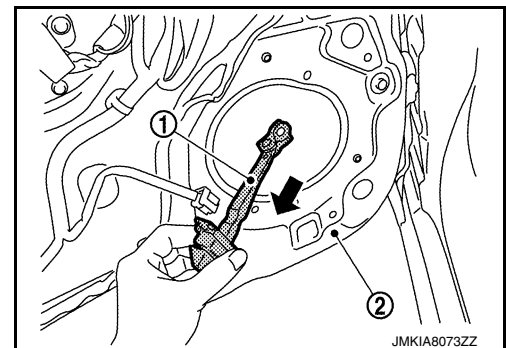
## DOOR CHECK LINK

### DOOR CHECK LINK : Removal and Installation

INFOID:000000012783350

#### REMOVAL

1. Fully close the front door glass.
2. Remove front door speaker. Refer to [AV-58, "Removal and Installation"](#) (BASE AUDIO), [AV-118, "Removal and Installation"](#) (DISPLAY AUDIO SYSTEM) [AV-323, "Removal and Installation"](#) (NAVIGATION WITH BOSE) and [AV-212, "Removal and Installation"](#) (NAVIGATION WITHOUT BOSE).
3. Remove door check link bolt from body.
4. Remove door check link bolts on door panel.
5. Remove door check link (1) through the hole in door panel (2).



#### INSTALLATION

Installation is in the reverse order of removal.

#### CAUTION:

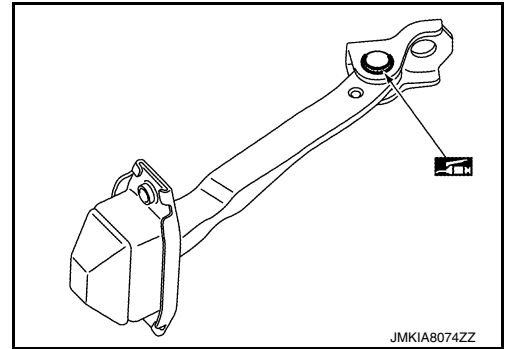
- After installation, check front door open/close, lock/unlock operation.
- Check front door check link rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.

# FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

 Grease



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# REAR DOOR

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

## REAR DOOR DOOR ASSEMBLY

### DOOR ASSEMBLY : Removal and Installation

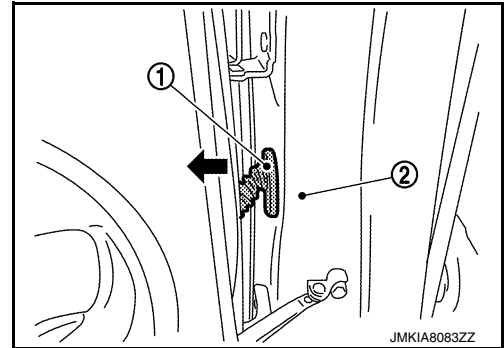
INFOID:000000012783351

#### CAUTION:

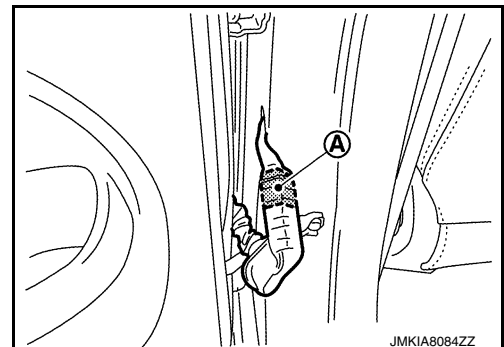
- Use two people when removing or installing the rear door assembly due to its heavy weight.
- When removing and installing rear door assembly, support rear door with a suitable tool.

#### REMOVAL

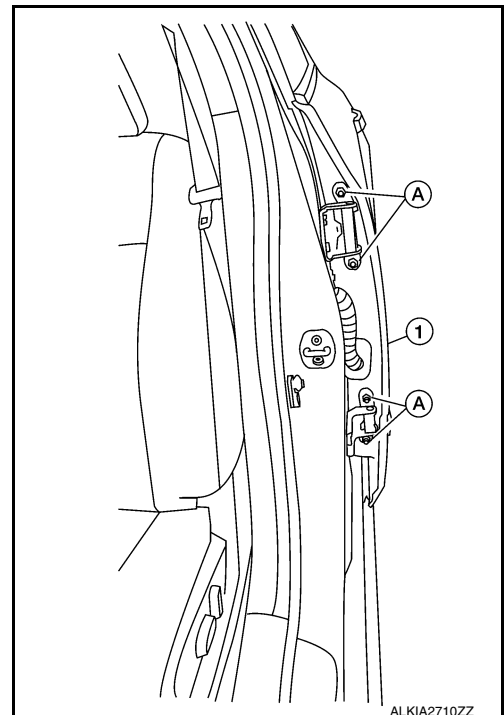
1. Remove rear door assembly harness grommet (LH) (1) then pull out door harness from body (2).



2. Disconnect the harness connector (A) from the door harness.



3. Remove the check link bolt from the body.
4. Remove rear door assembly hinge nuts (A) (door side) and the door assembly (1).





# REAR DOOR

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

## INSTALLATION

Installation is in the reverse order of removal.  
Tighten rear door hinge nuts (door side) to specified torque.

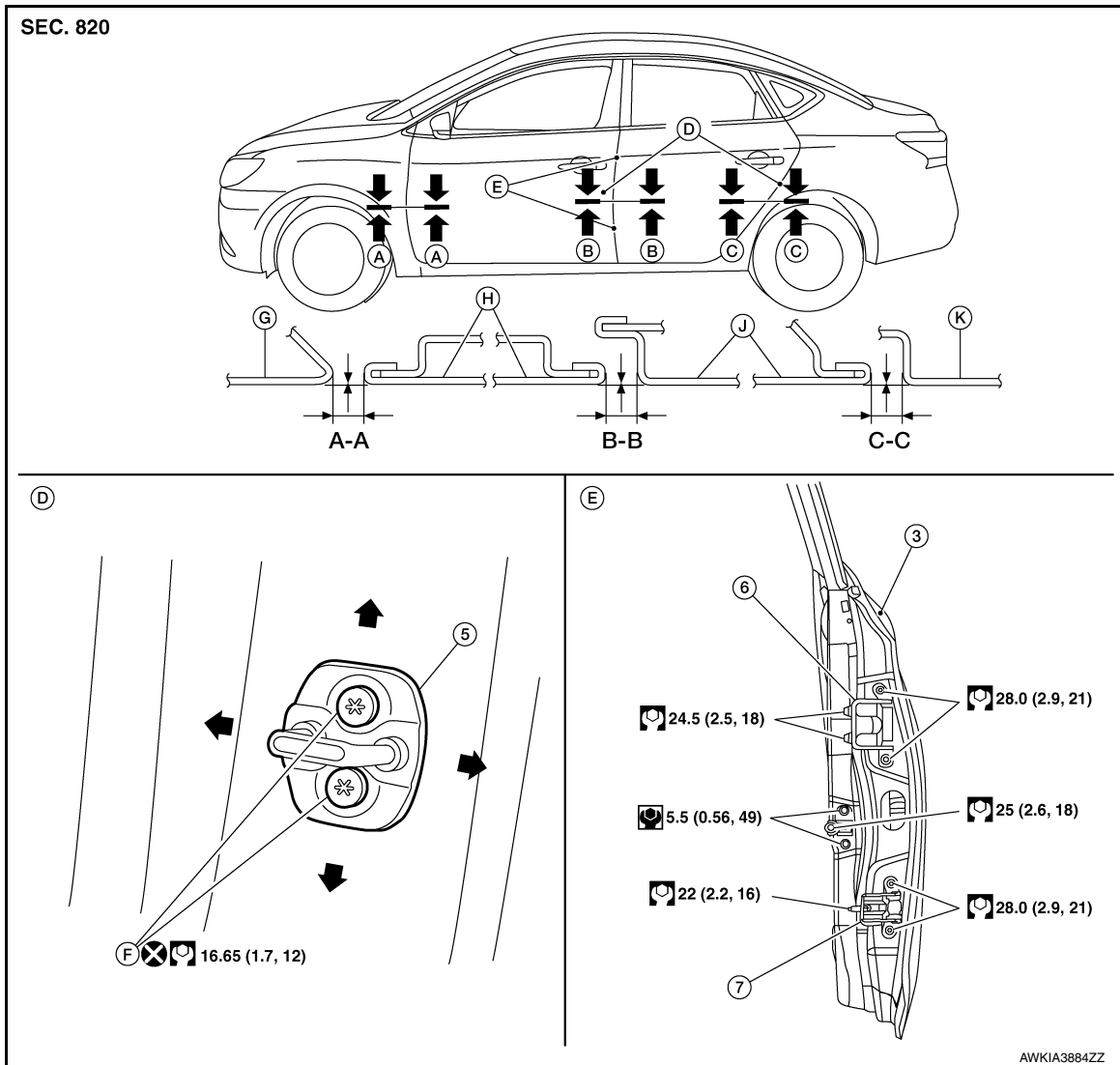
### CAUTION:

- After installation, check rear door open/close, lock/unlock operation.
- After installation, perform the rear door adjustment procedure. Refer to [DLK-309, "DOOR ASSEMBLY : Adjustment"](#).

## DOOR ASSEMBLY : Adjustment

INFOID:000000012783352

## ADJUSTMENT



- |                          |                             |                          |
|--------------------------|-----------------------------|--------------------------|
| 1. Front fender          | 2. Door assembly            | 3. Rear door assembly    |
| 4. Body side outer       | 5. Rear door striker        | 6. Rear door upper hinge |
| 7. Rear door lower hinge | F. Rear door striker screws |                          |

Check the clearance and surface height between rear door and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedure.

# REAR DOOR

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Unit: mm (in)

Section	Item	Measurement	Standard
A – A	G	Clearance	$4.0 \pm 1.0$ (0.16 $\pm$ 0.04)
	H	Surface height	$0.0 \pm 1.0$ (0.0 $\pm$ 0.04)
B – B	H	Clearance	$4.2 \pm 1.0$ (0.17 $\pm$ 0.04)
	J	Surface height	$0.0 \pm 1.0$ (0.0 $\pm$ 0.04)
C – C	J	Clearance	$4.0 \pm 1.0$ (0.16 $\pm$ 0.04)
	K	Surface height	$0.0 \pm 1.0$ (0.0 $\pm$ 0.04)

## LONGITUDINAL CLEARANCE

1. Remove the center pillar upper finisher. Refer to [INT-28, "CENTER PILLAR UPPER FINISHER : Removal and Installation"](#).
2. Loosen the rear door upper hinge nuts.
3. Loosen the rear door lower hinge bolts.
4. Move the rear door forward or backward as necessary until within specifications provided.
5. Tighten the lower hinge bolts to specification.

**Rear door lower hinge bolts**

**22 N·m (2.2 kg-m, 16 ft-lb)**

6. Tighten the upper hinge nuts to specification.

**Rear door upper hinge nuts**

**24.5 N·m (2.5 kg-m, 18 ft-lb)**

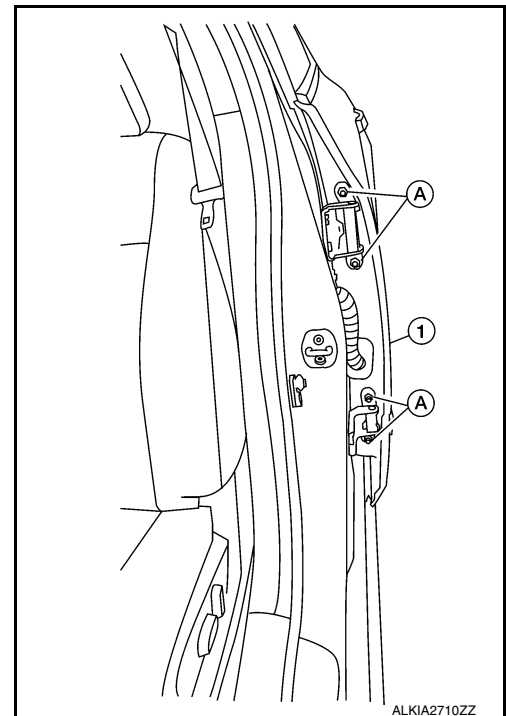
7. Install the center pillar upper finisher. Refer to [INT-28, "CENTER PILLAR UPPER FINISHER : Removal and Installation"](#).

## SURFACE HEIGHT ADJUSTMENT

1. Loosen the rear door hinge nuts (door side) (A).
2. Move the top and/or the bottom of the rear door (1) in or out as necessary until it is within specifications provided.
3. Tighten the rear door hinge nuts (door side) (A) to specification.

**Rear door nuts**

**28.0 N·m (2.9 kg-m, 21 ft-lb)**



## CAUTION:

- Check rear door hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.
- After adjusting, apply touch-up paint (body color) to the head of rear door assembly hinge bolts and nuts.

# REAR DOOR

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

- If the clearance measurements cannot be corrected by adjusting the rear door, adjust the front door. Refer to [DLK-159, "DOOR ASSEMBLY : Adjustment"](#).

## DOOR STRIKER ADJUSTMENT

Adjust rear door assembly striker so that it becomes parallel with door lock insertion direction.

## DOOR HINGE

### DOOR HINGE : Removal and Installation

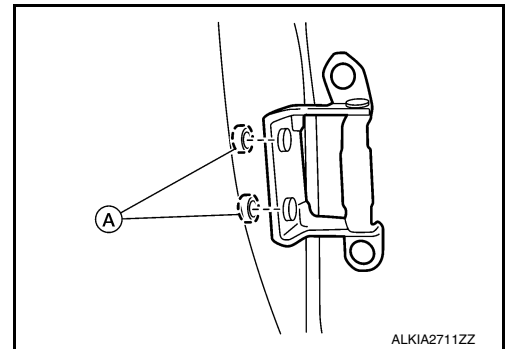
INFOID:0000000012783353

#### CAUTION:

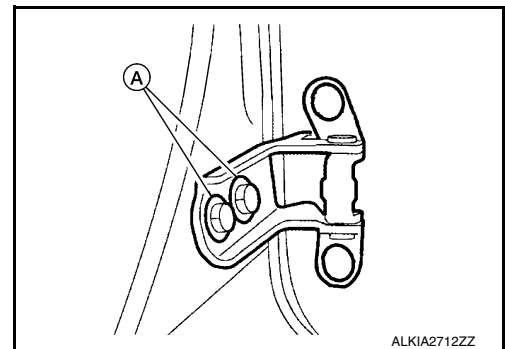
- Use two people when removing or installing rear door assembly due to its heavy weight.
- When removing and installing rear door assembly, support door using a suitable tool.

#### REMOVAL

1. Remove rear door assembly. Refer to [DLK-308, "DOOR ASSEMBLY : Removal and Installation"](#).
2. Remove center pillar upper finisher (upper hinge only). Refer to [INT-28, "CENTER PILLAR UPPER FINISHER : Removal and Installation"](#).
3. Remove rear door assembly upper hinge nuts (A) and remove.



4. Remove rear door assembly lower hinge bolts (A) and remove.



#### INSTALLATION

Installation is in the reverse order of removal.

Tighten rear door assembly hinge nuts and bolts to specified torque. Refer to [DLK-164, "DOOR ASSEMBLY : Adjustment"](#)

#### CAUTION:

- Apply anticorrosive agent onto the hinge mating surface.
- After installation, check rear door open/close, lock/unlock operation.
- After installation, perform the rear door adjustment procedure. Refer to [DLK-309, "DOOR ASSEMBLY : Adjustment"](#).

## DOOR CHECK LINK

### DOOR CHECK LINK : Removal and Installation

INFOID:0000000012783354

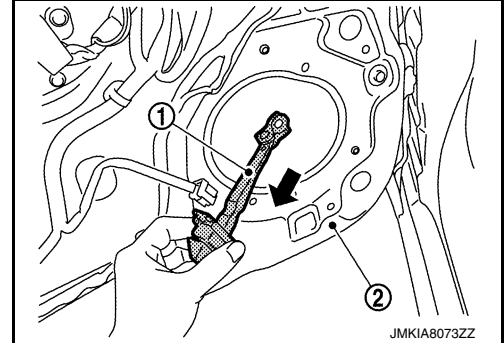
#### REMOVAL

## REAR DOOR

### < REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

1. Fully close the rear door glass.
2. Remove rear door speaker. Refer to [AV-59. "Removal and Installation"](#) (BASE AUDIO), [AV-119. "Removal and Installation"](#) (DISPLAY AUDIO SYSTEM) [AV-213. "Removal and Installation"](#) (NAVIGATION WITH BOSE) and [AV-324. "Removal and Installation"](#) (NAVIGATION WITHOUT BOSE).
3. Remove door check link bolt from body.
4. Remove door check link bolts on door panel.
5. Remove door check link (1) through the hole in door panel (2).

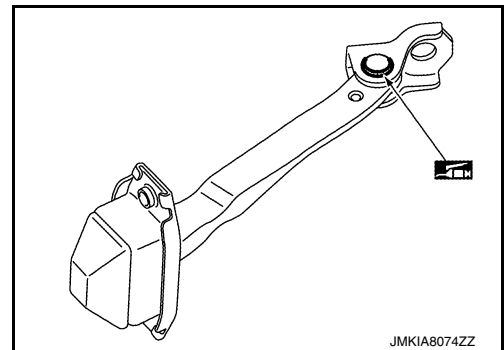


### INSTALLATION

Installation is in the reverse order of removal.

#### **CAUTION:**

- After installation, check rear door open/close, lock/unlock operation.
- Check rear door check link rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.



# DOOR HANDLE

< REMOVAL AND INSTALLATION >

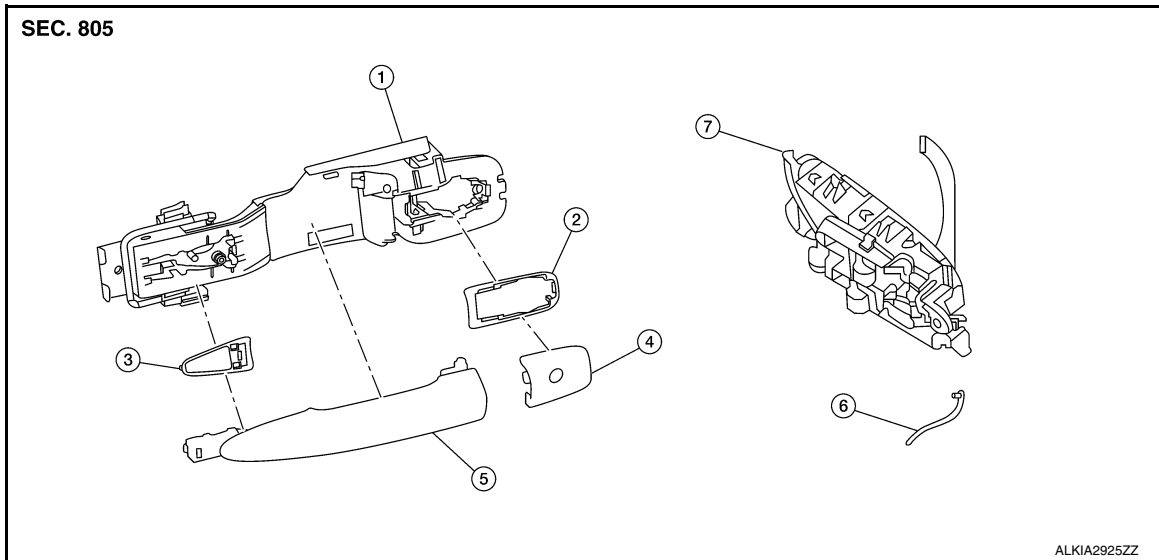
[WITHOUT INTELLIGENT KEY SYSTEM]

## DOOR HANDLE

### FRONT DOOR HANDLE

#### FRONT DOOR HANDLE : Exploded View

INFOID:000000012783355



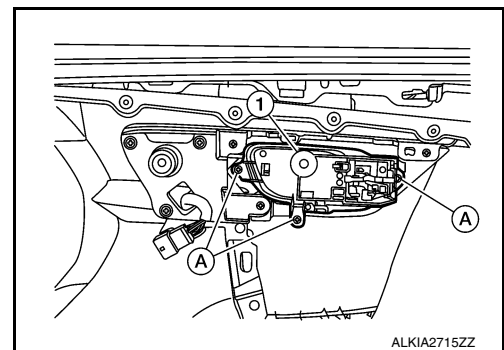
- |                              |                   |                          |
|------------------------------|-------------------|--------------------------|
| 1. Outside handle bracket    | 2. Rear gasket    | 3. Front gasket          |
| 4. Outside handle escutcheon | 5. Outside handle | 6. Door key cylinder rod |
| 7. Inside handle assembly    |                   |                          |

#### FRONT DOOR HANDLE : Removal and Installation - Inside Handle

INFOID:000000012783356

##### REMOVAL

1. Remove front door finisher. Refer to [INT-15. "Removal and Installation"](#).
2. Remove inside handle assembly screws (A) and the inside handle assembly (1).



##### INSTALLATION

Installation is in the reverse order of removal.

##### CAUTION:

- Check front door lock cables are properly engaged to inside handle.
- After installation, check front door open/close, lock/unlock operation.

#### FRONT DOOR HANDLE : Removal and Installation - Outside Handle

INFOID:000000012783357

##### REMOVAL

1. Fully close front door glass.
2. Remove front door finisher. Refer to [INT-15. "Removal and Installation"](#).
3. Remove front door vapor barrier.

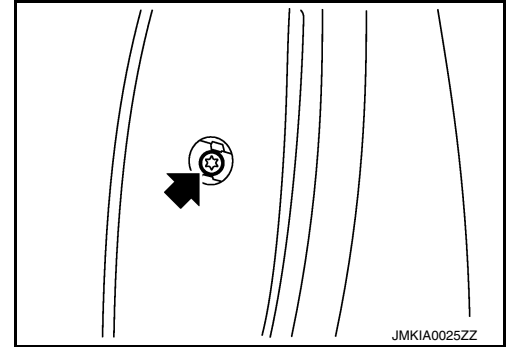
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## DOOR HANDLE

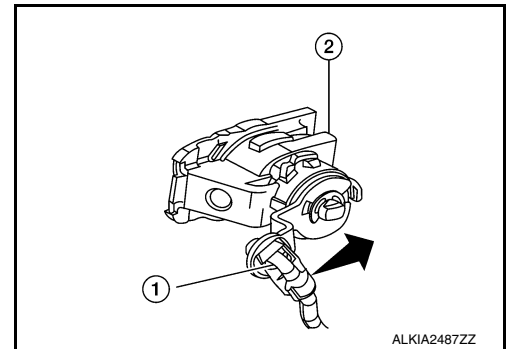
### < REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

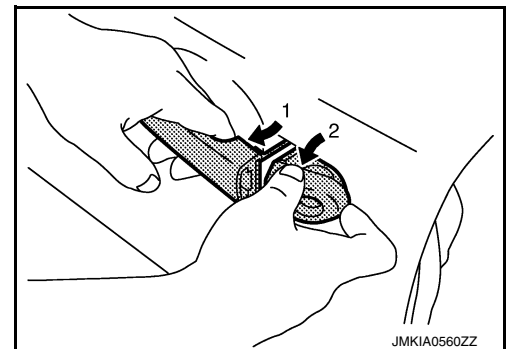
4. Remove front door glass channel rear.
5. Disconnect the harness connectors from the door antenna and door request switch and then remove harness clamp on outside handle bracket.
6. Remove door side grommet, and loosen screw ← that retains the front door outside handle bracket.



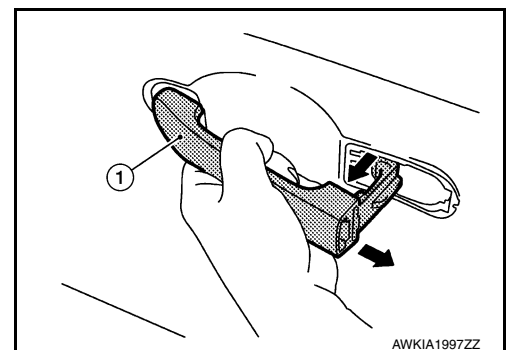
7. Reach in to separate door key cylinder rod (LH side) (1) from door key cylinder assembly (LH side) (2).



8. While pulling (1) outside handle, remove (2) door key cylinder assembly (LH side) or outside handle escutcheon (RH side).



9. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



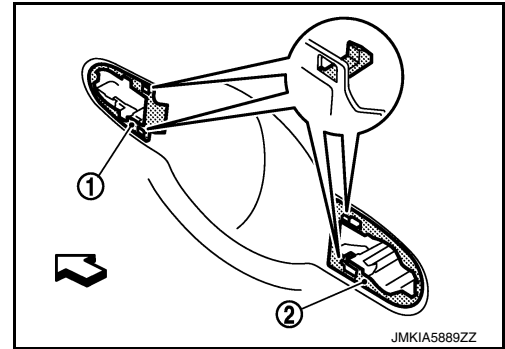
## DOOR HANDLE

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

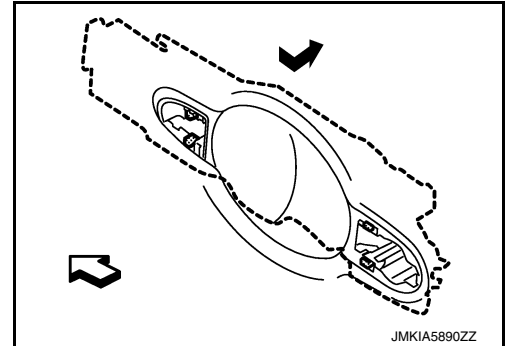
10. Remove front gasket (1) and rear gasket (2).

⇐: Front

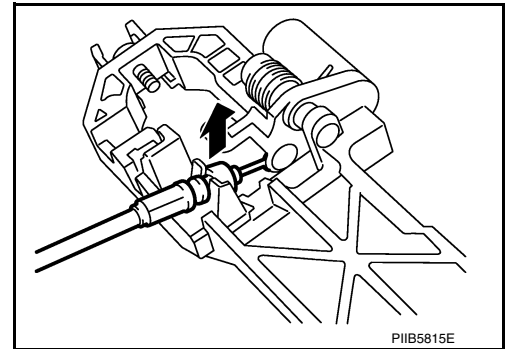


11. Slide outside handle bracket toward rear of vehicle to remove.

⇐: Front



12. Disconnect the outside handle cable from the outside handle bracket connection.



### INSTALLATION

Installation is in the reverse order of removal.

#### **CAUTION:**

- When installing do not reuse front door outside handle bracket screw. Always replace screw with new ones when removed.
- When installing door key cylinder rod on the LH front door, be sure to rotate door key cylinder rod holder until a click is felt.
- Check front door lock cable is properly engaged to outside handle bracket.
- After installation, check front door open/close, lock/unlock operation.

### REAR DOOR HANDLE

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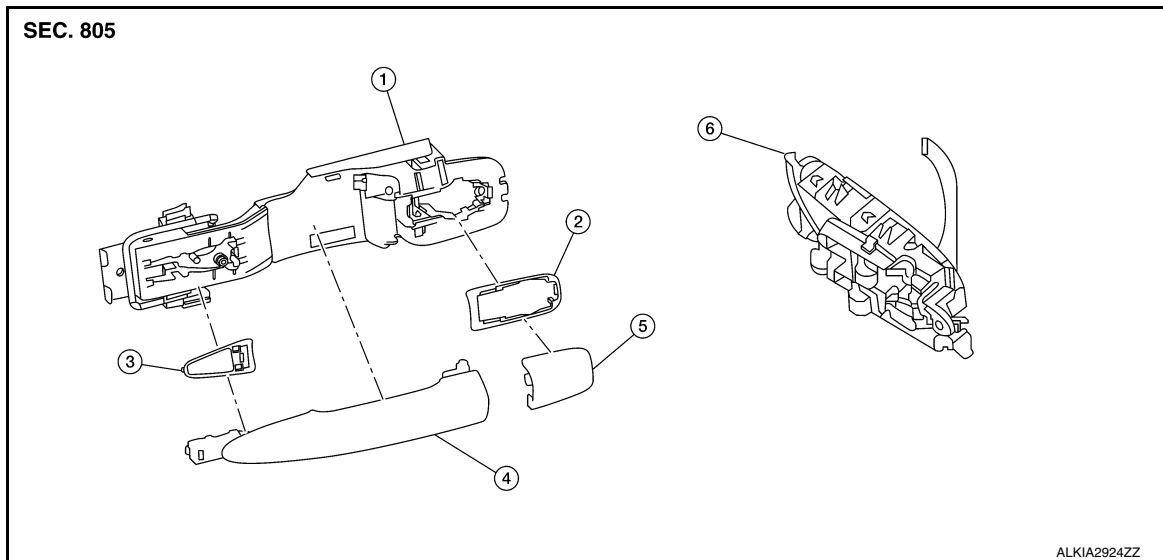
# DOOR HANDLE

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

## REAR DOOR HANDLE : Exploded View

INFOID:000000012783358



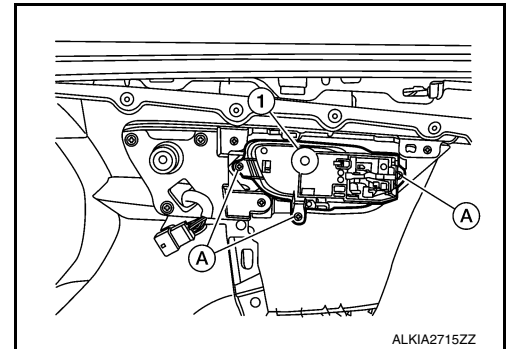
- |                           |                              |                           |
|---------------------------|------------------------------|---------------------------|
| 1. Outside handle bracket | 2. Rear gasket               | 3. Front gasket           |
| 4. Outside door handle    | 5. Outside handle escutcheon | 6. Inside handle assembly |

## REAR DOOR HANDLE : Removal and Installation - Inside Handle

INFOID:000000012783359

### REMOVAL

1. Remove rear door finisher. Refer to [INT-19, "Removal and Installation"](#).
2. Remove inside handle assembly screws (A) and inside handle assembly (1).



### INSTALLATION

Installation is in the reverse order of removal.

#### **CAUTION:**

- Check rear door lock cables are properly engaged to inside handle.
- After installation, check rear door open/close, lock/unlock operation.

## REAR DOOR HANDLE : Removal and Installation - Outside Handle

INFOID:000000012783360

### REMOVAL

1. Fully close rear door glass.
2. Remove rear door finisher. Refer to [INT-19, "Removal and Installation"](#).
3. Remove rear door vapor barrier.

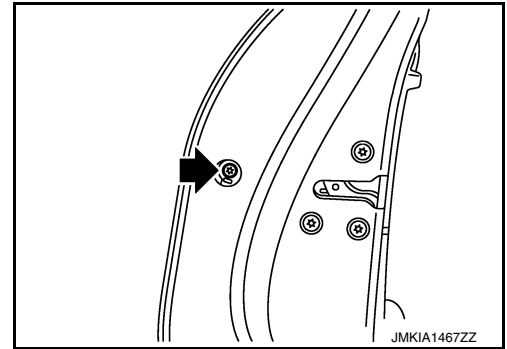


# DOOR HANDLE

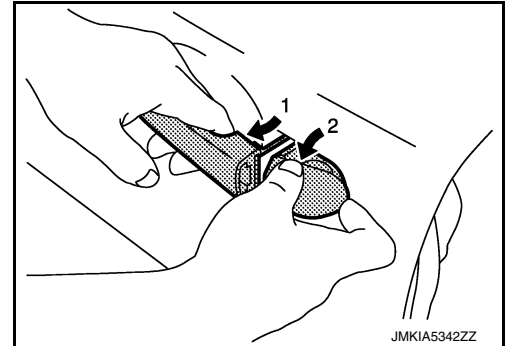
## < REMOVAL AND INSTALLATION >

## [WITHOUT INTELLIGENT KEY SYSTEM]

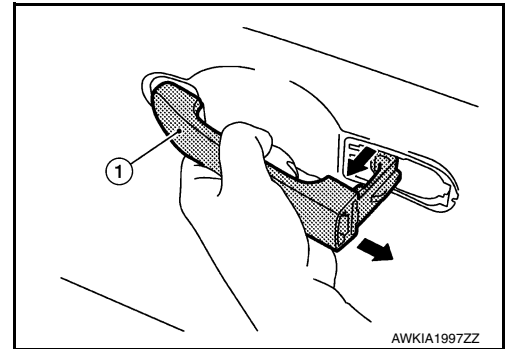
4. Remove door side grommet, and loosen screw ← that retains the rear door outside handle bracket.



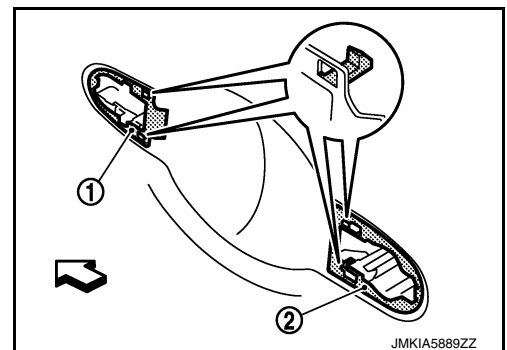
5. While pulling (1) outside handle, remove (2) outside handle escutcheon.



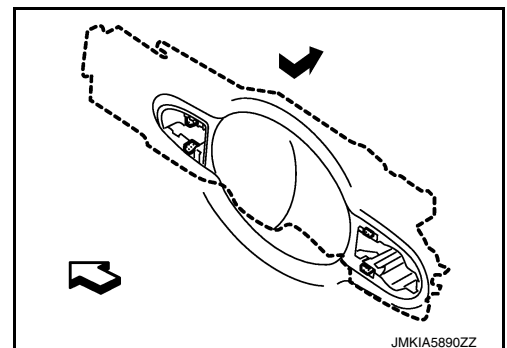
6. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



7. Remove front gasket (1) and rear gasket (2).  
⇐: Front



8. Slide outside handle bracket toward rear of vehicle to remove.  
⇐: Front



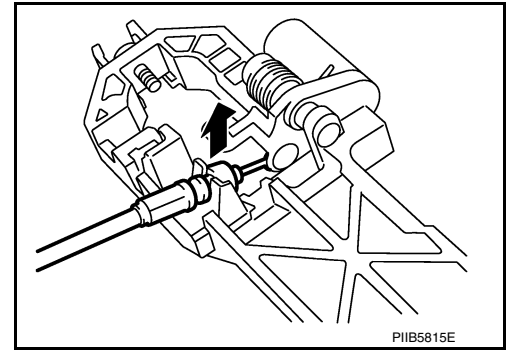
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## DOOR HANDLE

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

9. Remove clip and disconnect the outside handle cable from the outside handle bracket.



### INSTALLATION

Installation is in the reverse order of removal.

#### **CAUTION:**

- When installing do not reuse rear door outside handle bracket screw. Always replace screw with new ones when removed.
- Check rear door lock cable is properly engaged to outside handle bracket.
- After installation, check rear door open/close, lock/unlock operation.

# DOOR LOCK

< REMOVAL AND INSTALLATION >

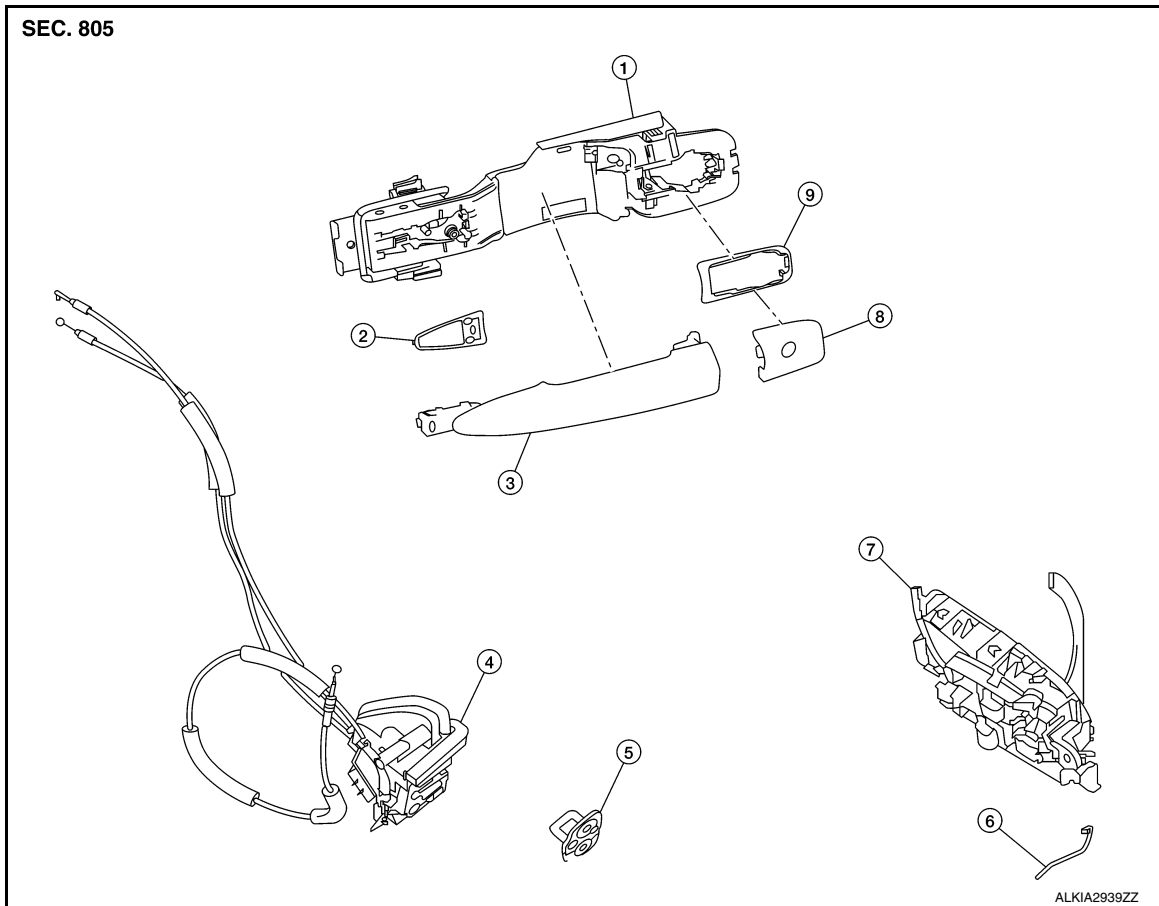
[WITHOUT INTELLIGENT KEY SYSTEM]

## DOOR LOCK

### FRONT DOOR LOCK

#### FRONT DOOR LOCK : Exploded View

INFOID:000000012783361



- |                           |                              |                          |
|---------------------------|------------------------------|--------------------------|
| 1. Outside handle bracket | 2. Front gasket              | 3. Outside handle        |
| 4. Door lock assembly     | 5. Door striker              | 6. Door key cylinder rod |
| 7. Inside handle assembly | 8. Outside handle escutcheon | 9. Rear gasket           |

#### FRONT DOOR LOCK : Removal and Installation

INFOID:000000012783362

#### **CAUTION:**

**Before servicing, turn ignition switch OFF, disconnect both battery terminals and wait at least three minutes.**

#### REMOVAL

1. Remove the front door outside handle. Refer to [DLK-168, "FRONT DOOR HANDLE : Removal and Installation - Outside Handle"](#).
2. Remove the rear glass run.
3. Disconnect the harness connector from the front door lock actuator.

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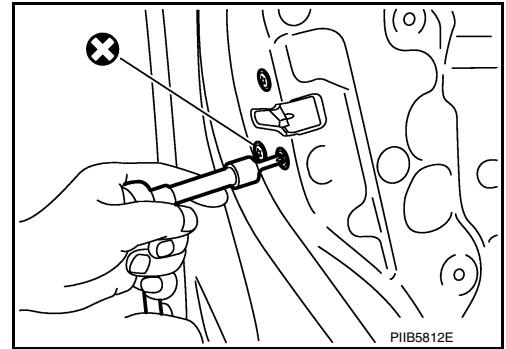
DLK

## DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

4. Remove screws, and the door lock assembly.



5. Disconnect door key cylinder rod (LH only) from door key cylinder (LH only).
6. Disconnect the door lock cables from inside handle.

### INSTALLATION

Installation is in the reverse order of removal.  
Tighten front door lock screws to specified torque.

**Front door lock screws: 5.8 N·m (0.59 kg-m, 51 in-lb)**

#### **CAUTION:**

- Do not reuse front door lock assembly screws. Always replace screws with new ones when removed.
- Check front door lock cables are properly engaged to inside handle and outside handle bracket.
- When installing door key cylinder rod on the LH front door, be sure to rotate door key cylinder rod holder until a click is felt.
- After installation, check front door open/close, lock/unlock operation.
- Check front door lock assembly for poor lubrication. If necessary apply a suitable multi-purpose grease.

### REAR DOOR LOCK

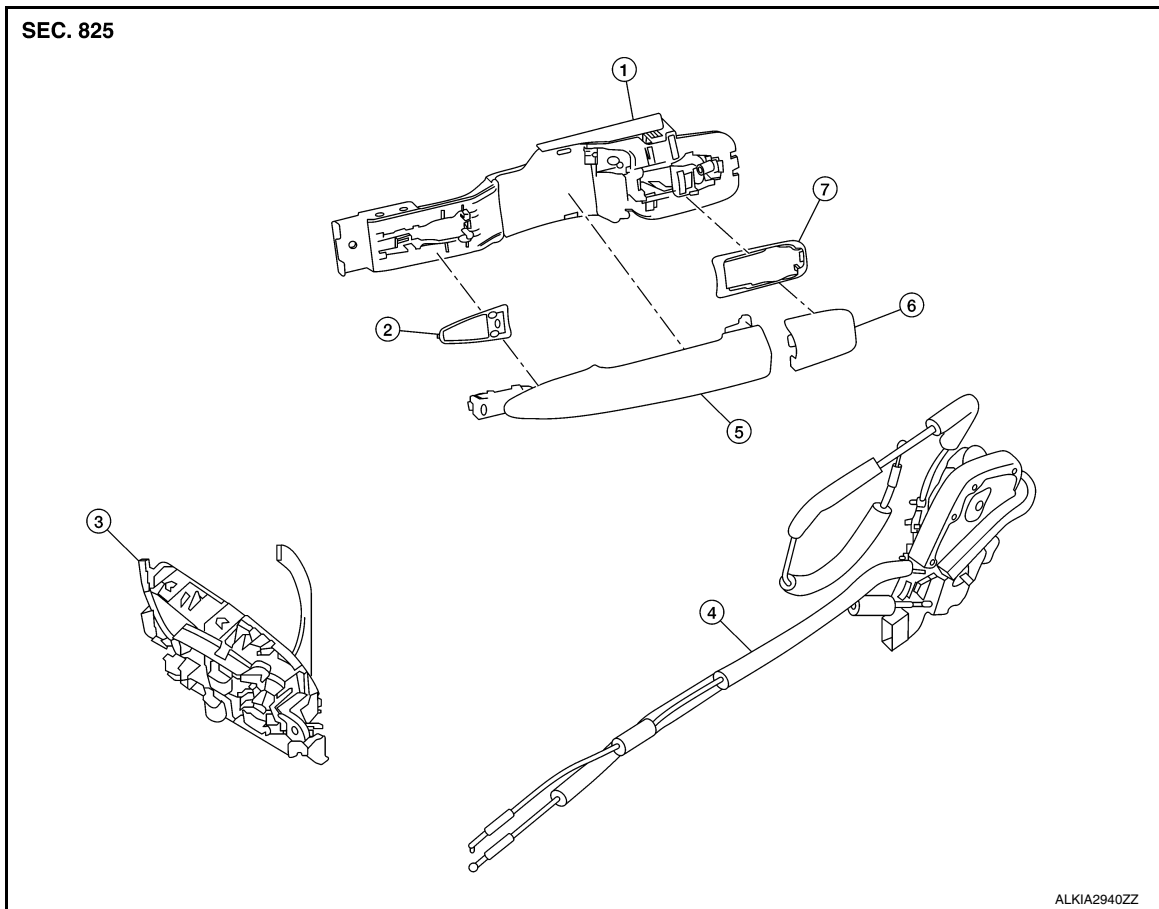
# DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

## REAR DOOR LOCK : Exploded View

INFOID:000000012783363



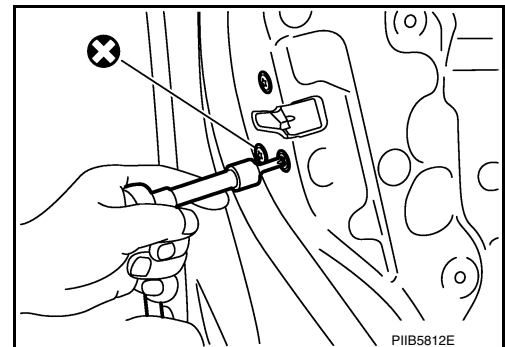
- |                           |                   |                              |
|---------------------------|-------------------|------------------------------|
| 1. Outside handle bracket | 2. Front gasket   | 3. Inside handle assembly    |
| 4. Door lock assembly     | 5. Outside handle | 6. Outside handle escutcheon |
| 7. Rear gasket            |                   |                              |

## REAR DOOR LOCK : Removal and Installation

INFOID:000000012783364

### REMOVAL

1. Remove the rear door outside handle. Refer to [DLK-171. "REAR DOOR HANDLE : Removal and Installation - Outside Handle"](#).
2. Disconnect the harness connector from the rear door lock actuator.
3. Remove the screws, and the door lock assembly.



### INSTALLATION

Installation is in the reverse order of removal.  
Tighten rear door lock screws to specified torque.

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## DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

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Rear door lock screws: 5.8 N·m (0.59 kg-m, 51 in-lb)

**CAUTION:**

- Do not reuse rear door lock assembly screws. Always replace screws with new ones when removed.
- Check rear door lock cables are properly engaged to inside handle and outside handle bracket.
- After installation, check rear door open/close, lock/unlock operation.
- Check rear door lock assembly for poor lubrication. If necessary apply a suitable multi-purpose grease.

# TRUNK LID

< REMOVAL AND INSTALLATION >

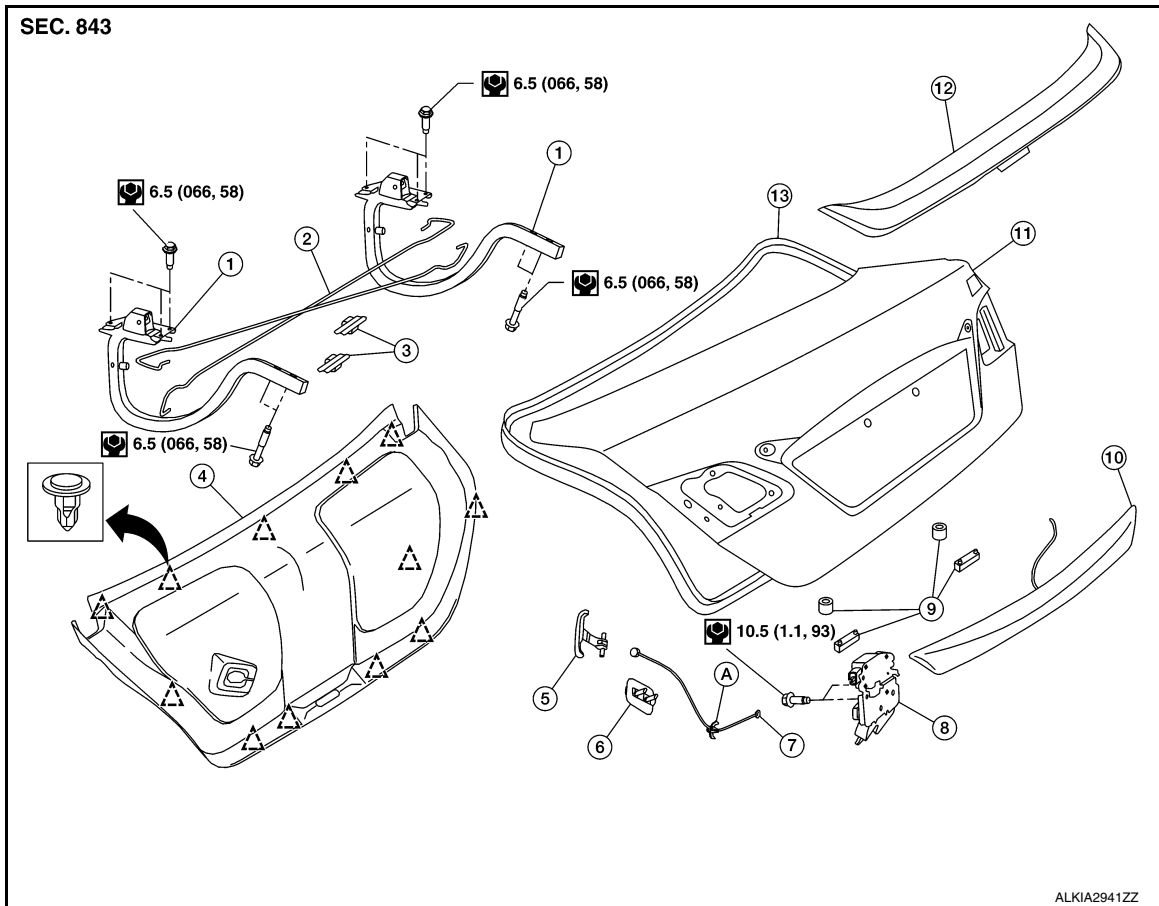
[WITHOUT INTELLIGENT KEY SYSTEM]

## TRUNK LID

### TRUNK LID ASSEMBLY

### TRUNK LID ASSEMBLY : Exploded View

INFOID:000000012783365



- |                                     |                             |                                  |
|-------------------------------------|-----------------------------|----------------------------------|
| 1. Trunk lid hinge LH/RH            | 2. Torsion bar LH/RH        | 3. Torsion bar clips             |
| 4. Trunk lid finisher (if equipped) | 5. Emergency release handle | 6. Emergency release handle clip |
| 7. Emergency release handle cable   | 8. Trunk lid lock           | 9. Trunk lid bumpers             |
| 10. License lamp finisher           | 11. Trunk lid               | 12. Rear spoiler (if equipped)   |
| 13. Weatherstrip                    | A. Clip                     | △△△ Clip                         |

### TRUNK LID ASSEMBLY : Removal and Installation

INFOID:000000012783366

#### CAUTION:

- Use two people when removing or installing trunk lid assembly due to its heavy weight.
- Use protective tape or shop cloths to protect surrounding components from damage during removal and installation of trunk lid assembly.

#### REMOVAL

1. Remove trunk lid finisher (if equipped). Refer to [INT-45, "Removal and Installation"](#).

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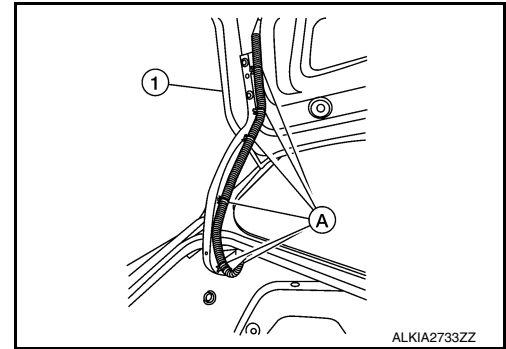
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## TRUNK LID

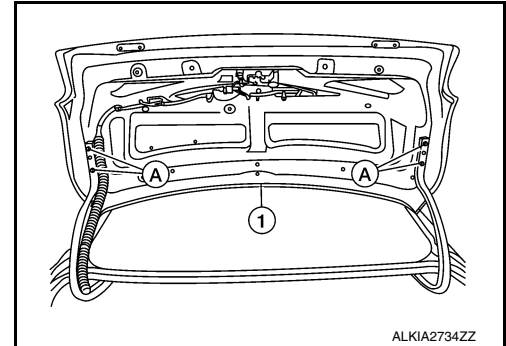
### < REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

2. Disconnect the harness connectors in the trunk lid assembly (1) and remove the harness clips (A) then pull out harness from the trunk lid assembly (1).



3. Remove the bolts (A) and remove the trunk lid assembly (1).



### INSTALLATION

Installation is in the reverse order of removal.

#### **CAUTION:**

After installation, perform the trunk lid assembly adjustment procedure. Refer to [DLK-325. "TRUNK LID ASSEMBLY : Adjustment"](#).



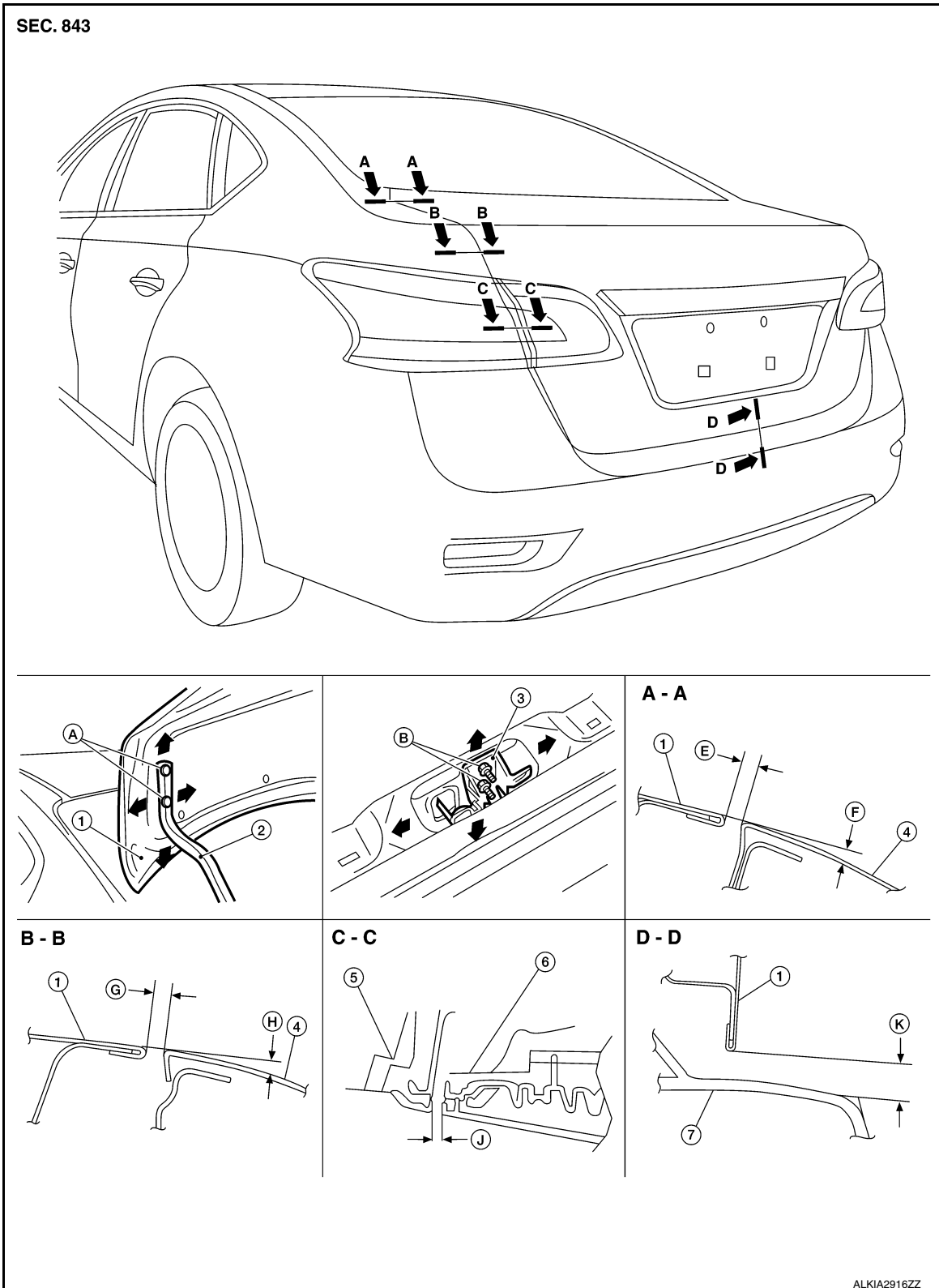
# TRUNK LID

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

## TRUNK LID ASSEMBLY : Adjustment

INFOID:000000012783367



- 1. Trunk lid assembly
- 4. Body side outer
- 7. Rear bumper fascia

- 2. Trunk lid hinge
- 5. Rear combination lamp
- A. Trunk lid bolts

- 3. Trunk lid striker
- 6. Reflector
- B. Striker bolts

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# TRUNK LID

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Check the clearance and the surface height between trunk lid and each part by visual inspection and tactile feel.

If the clearance and the surface height are out of specification, adjust them according to the adjustment procedures.

Unit: mm (in)

Section	Item	Measurement	Standard	Parallelism (MAX)	Right/Left Difference (MAX)
A – A	E	Clearance	3.5 ±1.0 (0.14 ±0.04)	2.5 (0.10)	2.0 (0.08)
	F	Surface height	0.0 ±1.0 (0.00 ±0.04)	1.5 (0.06)	1.5 (0.06)
B – B	G	Clearance	3.5 ±1.0 (0.14 ±0.04)	2.5 (0.10)	2.0 (0.08)
	H	Surface height	0.0 ±1.0 (0.00 ±0.04)	1.5 (0.06)	1.5 (0.06)
C – C	J	Clearance	4.5 ±1.9 (0.18 ±0.07)	2.0 (0.08)	3.0 (0.12)
D – D	K	Clearance	7.0 ±2.0 (0.28 ±0.08)	2.0 (0.08)	—

## LONGITUDINAL CLEARANCE

Trunk Lid Removed From Hinge

1. Loosen the trunk lid to hinge bolts.
2. Move the trunk lid so that the clearance measurements are within specifications provided.
3. Tighten the trunk lid to hinge bolts.

Trunk Lid Hinge Removed From Vehicle

1. Remove the rear parcel shelf finisher. Refer to [INT-33, "Removal and Installation"](#).
2. Loosen the hinge to parcel shelf bolts.
3. Move the trunk lid so that the clearance measurements are within specifications provided.
4. Tighten the hinge to parcel shelf bolts.
5. Install the rear parcel shelf finisher. Refer to [INT-33, "Removal and Installation"](#).

## SURFACE HEIGHT ADJUSTMENT

1. Loosen the bumper rubber.
2. Loosen the striker bolts.
3. Lift up the trunk lid approx. 100 - 150 mm (3.94 - 5.91 in) height then close it lightly. Make sure it engages firmly with the trunk lid closed.
4. Tighten the trunk lid striker.

## TRUNK LID HINGE

### TRUNK LID HINGE : Removal and Installation

INFOID:000000012783368

#### REMOVAL

1. Remove trunk lid assembly. Refer to [DLK-323, "TRUNK LID ASSEMBLY : Removal and Installation"](#).
2. Remove torsion bar. Refer to [DLK-327, "TORSION BAR : Removal and Installation"](#).
3. Remove rear parcel shelf finisher. Refer to [INT-33, "Removal and Installation"](#).
4. Remove trunk lid hinge bolts (body side) and remove.

#### INSTALLATION

Installation is in the reverse order of removal.

#### CAUTION:

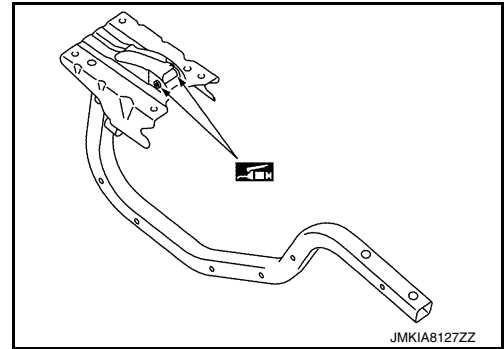
- Check trunk lid open/close, lock/unlock operation after installation.
- After installation, perform the trunk lid assembly adjustment procedure. Refer to [DLK-325, "TRUNK LID ASSEMBLY : Adjustment"](#).

# TRUNK LID

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

- Check trunk lid hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.



## TORSION BAR

### TORSION BAR : Removal and Installation

INFOID:000000012783369

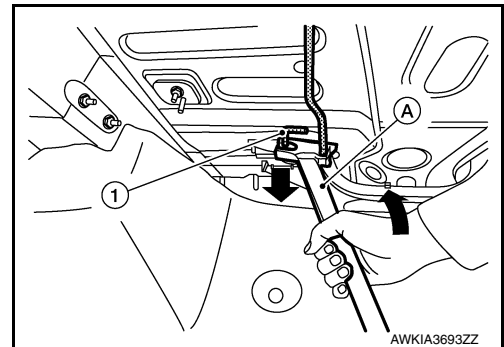
#### REMOVAL

1. Remove torsion bar clip.
2. Support the trunk lid assembly using a suitable tool.

**WARNING:**

**Bodily injury may occur if hood assembly is not supported properly when removing the torsion bars.**

3. Apply suitable tool (A) to torsion bar (1) and lift torsion bar to remove it.



#### INSTALLATION

Installation is in the reverse order of removal.

**CAUTION:**

**After installation check the trunk lid open/close, lock/unlock operation.**

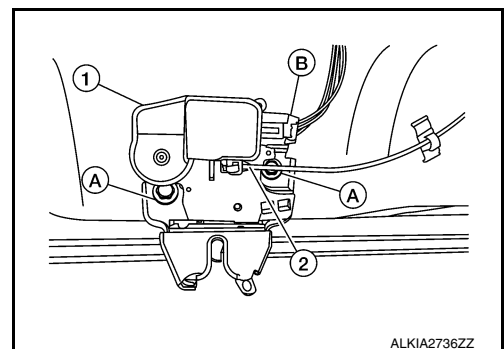
## TRUNK LID LOCK

### TRUNK LID LOCK : Removal and Installation

INFOID:000000012783370

#### REMOVAL

1. Remove the trunk lid finisher (if equipped). Refer to [INT-45. "Removal and Installation"](#).
2. Disconnect the harness connector (B) and emergency release handle (2) from the trunk lid lock (1).
3. Remove the trunk lid lock bolts (A) and remove.



#### INSTALLATION

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# TRUNK LID

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Installation is in the reverse order of removal.

**CAUTION:**

After installation, perform the trunk lid assembly adjustment procedure. Refer to [DLK-325, "TRUNK LID ASSEMBLY : Adjustment"](#).

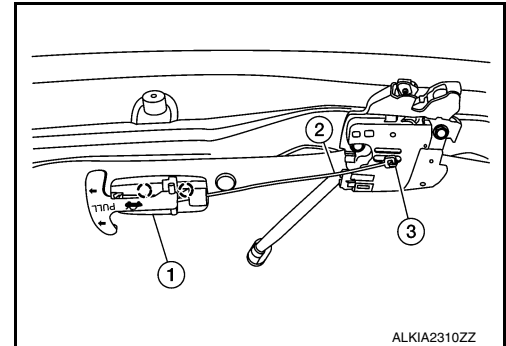
## EMERGENCY LEVER

### EMERGENCY LEVER : Removal and Installation

INFOID:000000012783371

#### REMOVAL

1. Remove the trunk lid finisher (if equipped). Refer to [INT-45, "Removal and Installation"](#).
2. Using a suitable tool release the pawls and remove emergency release handle (1) from trunk lid assembly.  
○: Pawl
3. Disconnect emergency release handle cable (2) from trunk lid lock assembly (3).



#### INSTALLATION

Installation is in the reverse order of removal.

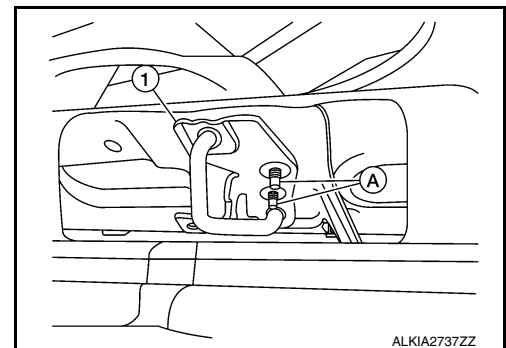
## TRUNK LID STRIKER

### TRUNK LID STRIKER : Removal and Installation

INFOID:000000012783372

#### REMOVAL

1. Remove the trunk kicking plate. Refer to [INT-42, "Exploded View"](#).
2. Remove bolts (A) and striker (1).



#### INSTALLATION

Installation is in the reverse order of removal.

**CAUTION:**

After installation, perform the trunk lid assembly adjustment procedure. Refer to [DLK-325, "TRUNK LID ASSEMBLY : Adjustment"](#).

# FUEL FILLER LID OPENER

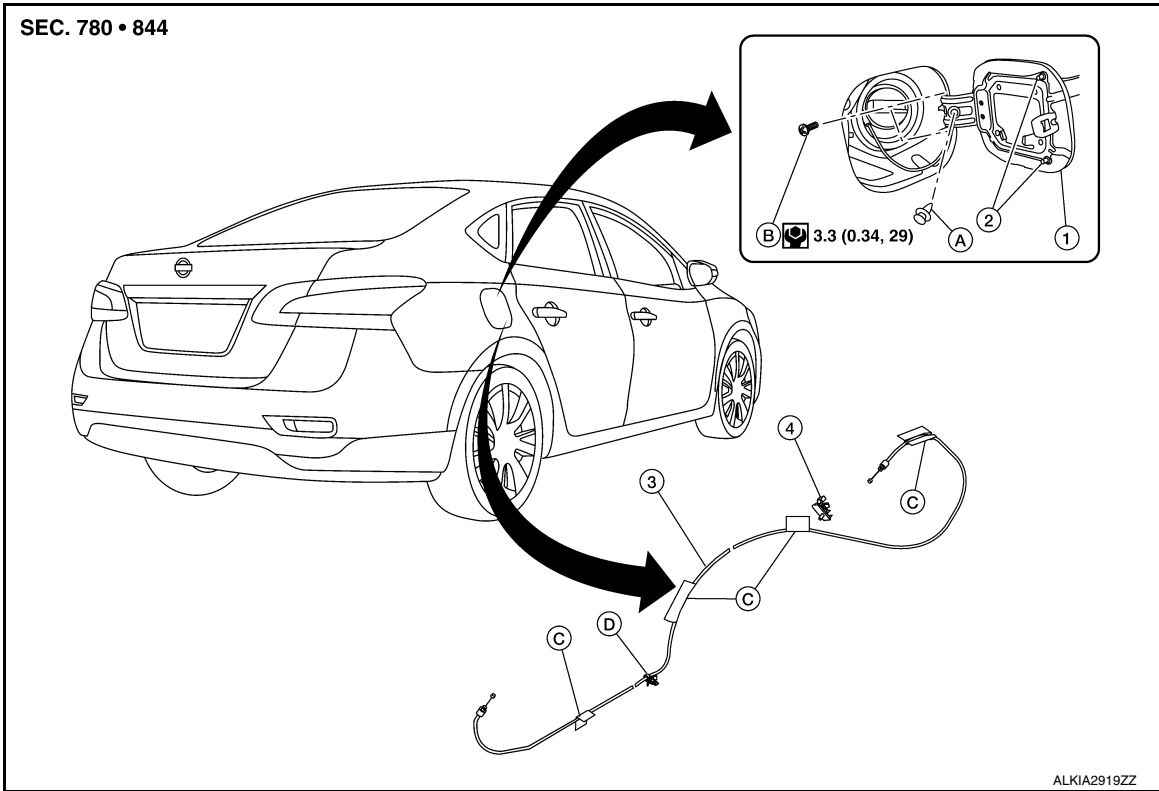
< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

## FUEL FILLER LID OPENER

Exploded View

INFOID:000000012783373



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- 1. Fuel filler lid
- 2. Bumper rubber
- 3. Fuel filler lid opener cable
- 4. Fuel filler lid lock
- A. Clip
- B. Bolts
- C. Cable protector

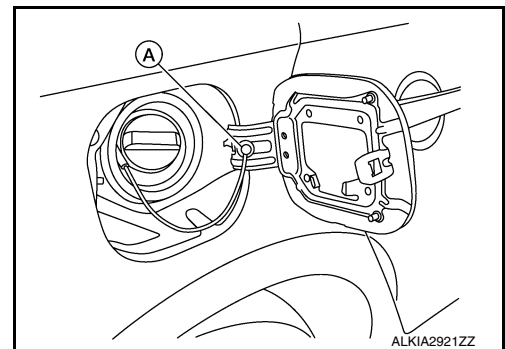
## FUEL FILLER LID

### FUEL FILLER LID : Removal and Installation

INFOID:000000012783374

#### REMOVAL

1. Fully open fuel filler lid.
2. Remove fuel cap clip (A).



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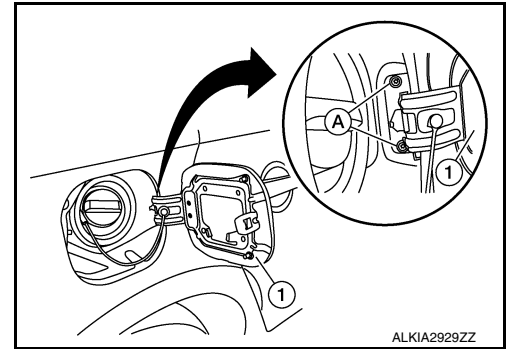
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## FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

- Remove fuel filler lid screws (A) and fuel filler lid (1).



### INSTALLATION

Installation is in the reverse order of removal.

#### CAUTION:

After installation, check fuel filler lid assembly open/close, lock/unlock operation.

#### NOTE:

- The following table shows the specifications for a correctly installed fuel filler lid.
- Fitting adjustment cannot be performed.

Unit: mm (in)

Portion	Measurement	Standard
Fuel filler lid – Body side outer	Clearance	5.1 ±1.0 (0.20 ±0.04)
Fuel filler lid – Body side outer	Surface height	0.0 ±1.0 (0.0 ±0.04)

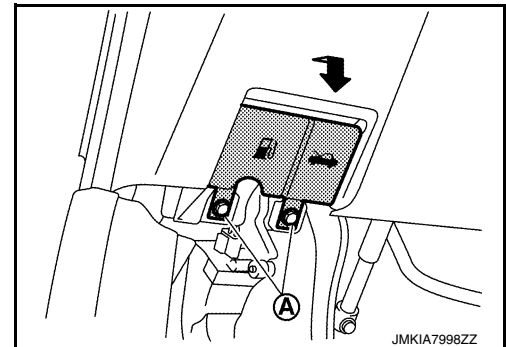
## FUEL FILLER OPENER CABLE

### FUEL FILLER OPENER CABLE : Removal and Installation

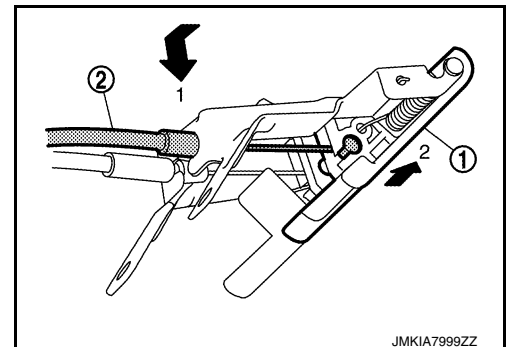
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#### REMOVAL

- Remove hood and fuel filler handle assembly bolts (A).



- Release fuel filler lid opener cable (2) by pulling downward and then sliding cable end to the side to remove from hood and fuel filler handle assembly (1).



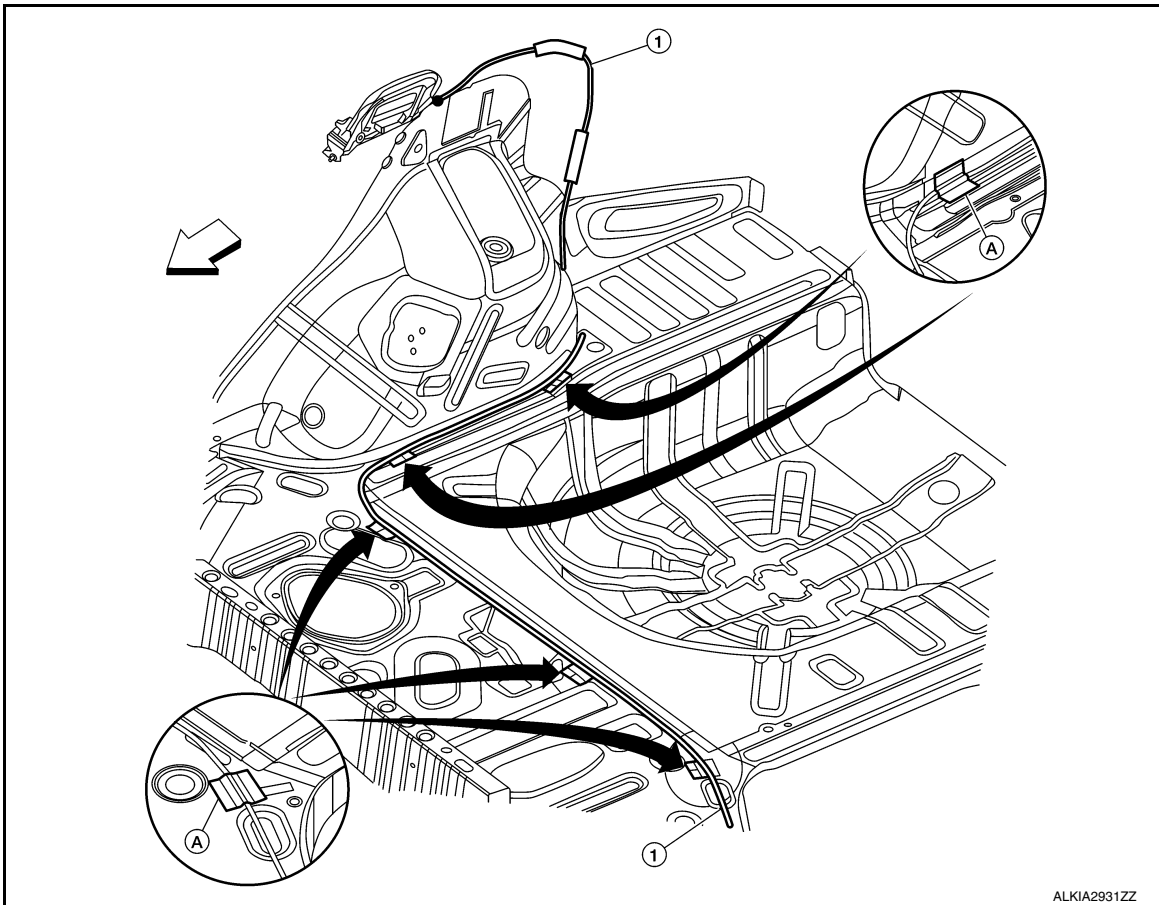
- Remove dash side finisher (LH). Refer to [INT-26. "DASH SIDE FINISHER : Removal and Installation"](#).
- Remove center pillar lower finisher (LH). Refer to [INT-27. "CENTER PILLAR LOWER FINISHER : Removal and Installation"](#).

# FUEL FILLER LID OPENER

[WITHOUT INTELLIGENT KEY SYSTEM]

## < REMOVAL AND INSTALLATION >

5. Remove rear seat bolster (LH). Refer to [SE-37. "Removal and Installation - Rear Seat Bolster"](#).
6. Remove trunk side finisher (LH). Refer to [INT-43. "TRUNK SIDE FINISHER : Removal and Installation"](#).
7. Remove fuel filler lid opener cable (1) from fuel filler lid lock assembly. Refer to [DLK-330. "FUEL FILLER OPENER CABLE : Removal and Installation"](#).



⇐ Front

8. Remove each cable protector (A), then remove fuel filler lid opener cable (1).

### INSTALLATION

Installation is in the reverse order of removal.

#### **CAUTION:**

**After installation, check fuel filler lid assembly open/close, lock/unlock operation.**

## FUEL FILLER LID LOCK

### FUEL FILLER LID LOCK : Removal and Installation

INFOID:000000012783376

#### REMOVAL

1. Fully open fuel filler lid.

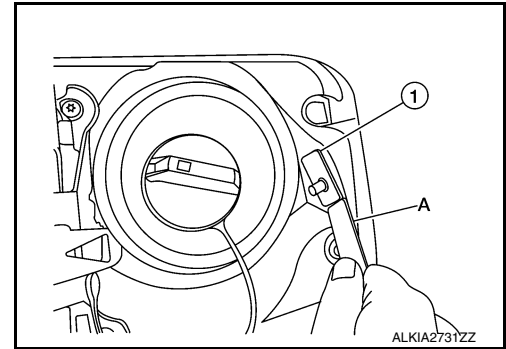
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## FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

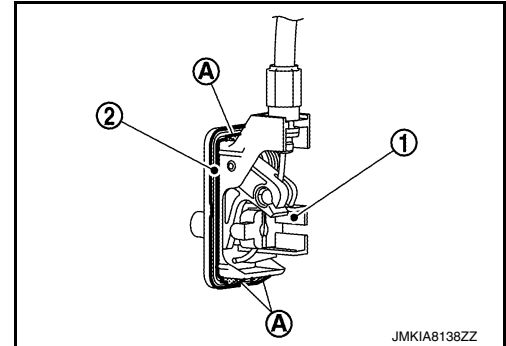
2. Insert a suitable tool (A) as shown into bottom of fuel filler lock assembly (1).



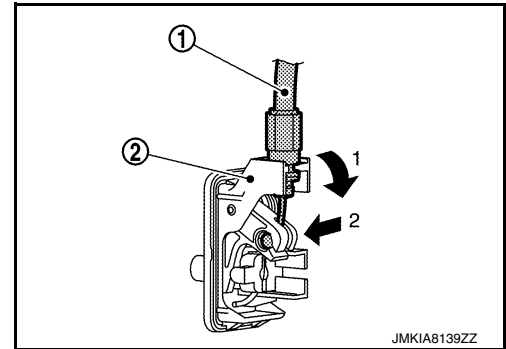
3. Release upper and lower pawls (A) using a suitable tool and remove fuel filler lid lock assembly (1).

**CAUTION:**

**Be careful not to damage gasket (2) when removing.**



4. Disconnect fuel filler lid opener cable (1) by pulling downward and then sliding cable end to the side to remove from fuel filler lid lock assembly (2).



### INSTALLATION

Installation is in the reverse order of removal.

**CAUTION:**

**After installation, check fuel filler lid assembly open/close, lock/unlock operation.**



# DOOR SWITCH

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

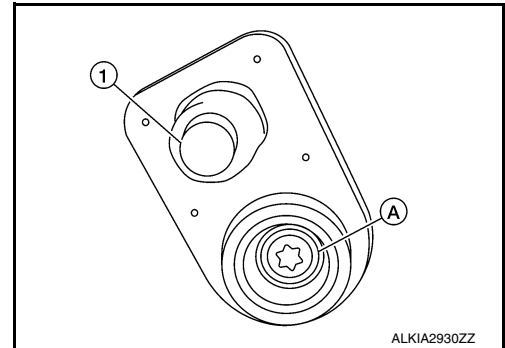
## DOOR SWITCH

### Removal and Installation

INFOID:000000012783377

#### REMOVAL

1. Remove the door switch bolt (A).
2. Disconnect the harness connector from the door switch (1) and remove.



#### INSTALLATION

Installation is in the reverse order of removal.

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## REMOTE KEYLESS ENTRY RECEIVER

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

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### REMOTE KEYLESS ENTRY RECEIVER

#### Removal and Installation

INFOID:000000012783378

#### REMOVAL

1. Remove glove box assembly. Refer to [IP-22. "Removal and Installation"](#).
2. Disconnect the harness connector from the remote keyless entry receiver.
3. Remove the screw and remote keyless entry receiver.

#### INSTALLATION

Installation is in the reverse order of removal.

# KEYFOB BATTERY

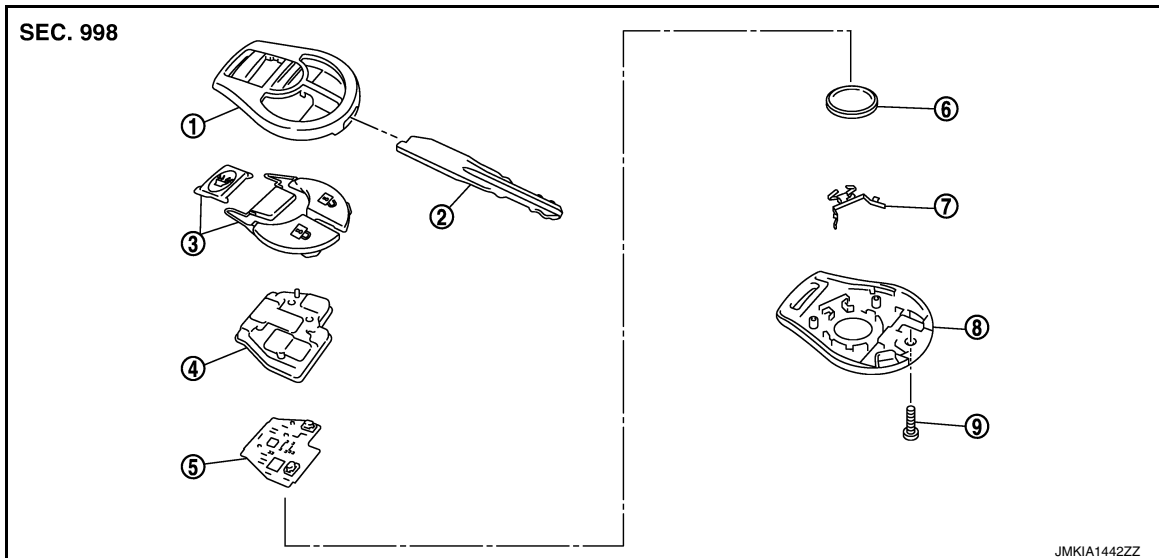
< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

## KEYFOB BATTERY

### Exploded View

INFOID:000000012783379



- |                  |                  |                 |
|------------------|------------------|-----------------|
| 1. Upper case    | 2. Key           | 3. Switch cover |
| 4. Switch rubber | 5. Board surface | 6. Battery      |
| 7. Plate         | 8. Lower case    | 9. Screw        |

### Removal and Installation

INFOID:000000012783380

#### REMOVAL

1. Remove the keyfob screw.
2. Separate the upper and lower case using a suitable tool.  
**CAUTION:**
  - Do not touch the circuit board or battery terminal.
  - The keyfob is water-resistant. However, if it does get wet, immediately wipe it dry.
3. Remove the circuit board from the upper case.  
**CAUTION:**  
**Do not touch the printed circuits directly.**
4. Remove the keyfob battery from the upper case.

**Battery replacement** : Coin-type lithium battery (CR1620)

#### **CAUTION:**

- When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.
- After replacing the battery, Be sure to check that door locking operates normally using the keyfob.

#### INSTALLATION

Installation is in the reverse order of removal.

# TRUNK LID OPENER SWITCH

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

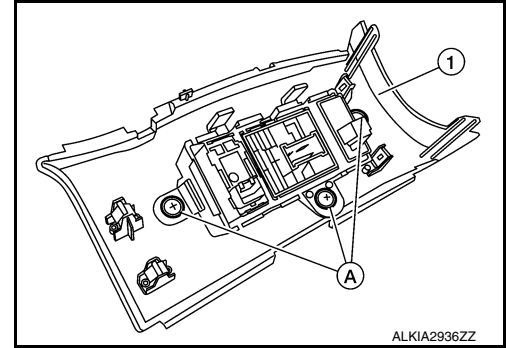
## TRUNK LID OPENER SWITCH

### Removal and Installation

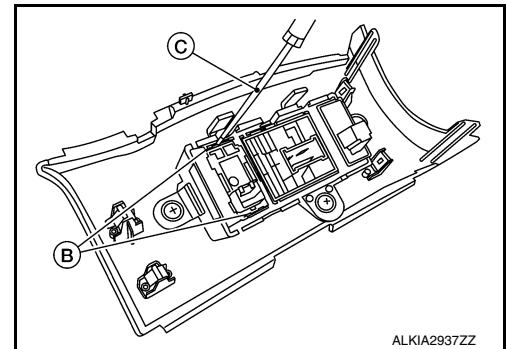
INFOID:000000012783381

#### REMOVAL

1. Remove the instrument lower panel LH. Refer to [IP-21. "Removal and Installation"](#).
2. Remove the instrument finisher D (1).
3. Remove the screws (A) that retain the instrument finisher D to the switch carrier.



4. Release upper tab and lower tab (B) using a suitable tool (C), then remove the trunk lid opener switch from the upper switch carrier.



#### INSTALLATION

Installation is in the reverse order of removal.

# STEERING LOCK UNIT

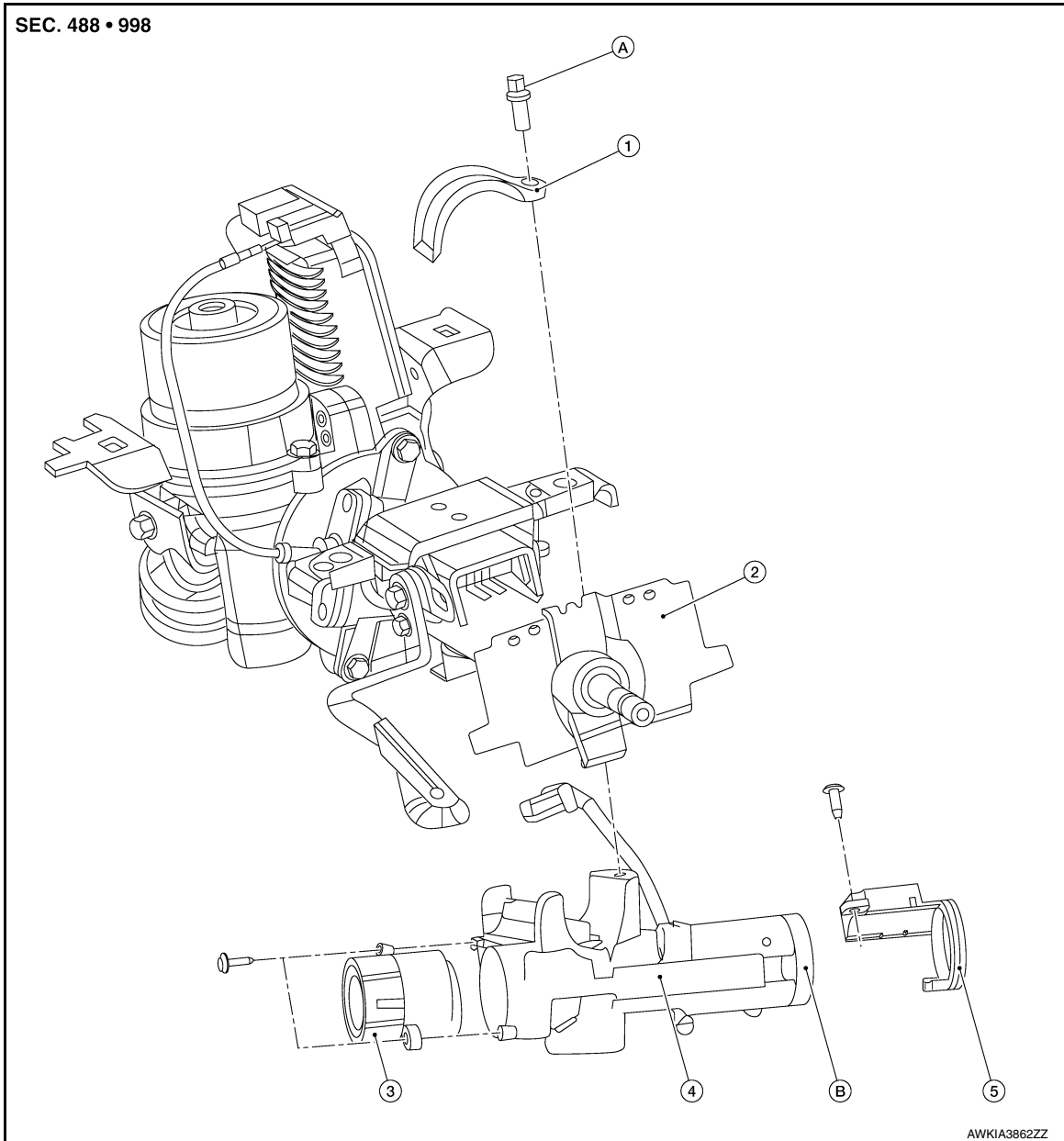
< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

## STEERING LOCK UNIT

### Exploded View

INFOID:000000013445038



- |                          |                      |   |
|--------------------------|----------------------|---|
| 1. Steering lock bracket | 2. Steering column   | 3. Ignition switch                        |
| 4. Steering lock unit    | 5. NATS antenna amp. | A. Tamper resistant self-shear type screw |
| B. Key cylinder          |                      |   |

#### NOTE:

Steering lock unit, ignition switch and key cylinder are serviced as an assembly. Ignition switch is also available separately.

### Removal and Installation - Steering lock unit

INFOID:000000013445039

#### REMOVAL

1. Disconnect battery cables. Refer to [PG-74, "Removal and Installation \(Battery\)"](#).
2. Remove steering column. Refer to [ST-13, "Removal and Installation"](#).
3. Using suitable tool, remove tamper resistant self-shear type screw.

**CAUTION:**

A  
B  
C  
D  
E  
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H  
I  
J  
DLK  
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M  
N  
O  
P

# STEERING LOCK UNIT

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

**Do not reuse screw. Replace with new tamper resistant self-shear type screw.**

4. Remove steering lock bracket and steering lock unit.
5. Remove NATS antenna amp. (if necessary). Refer to [SEC-197, "Removal and Installation"](#).

## INSTALLATION

Installation is in the reverse order of removal.

### CAUTION:

- **Do not reuse screw. Replace with new tamper resistant self-shear type screw.**
- **Tighten tamper resistant self-shear type screw until head breaks off.**
- For initialization and registration of mechanical keys, refer to CONSULT Immobilizer mode and follow the on-screen instructions.

## Removal and Installation - Ignition switch

INFOID:000000013445040

## REMOVAL

1. Remove steering column cover. Refer to [JP-16, "Removal and Installation"](#).
2. Disconnect ignition switch harness connector.
3. Remove ignition switch screws and ignition switch.

## INSTALLATION

Installation is in the reverse order of removal.