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HOW TO USE THIS MANUAL

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HOW TO USE THIS MANUAL

HOW TO USE THIS MANUAL

Description INFOID:0000000012353433

This volume explains "Removal, Disassembly, Installation, Inspection and Adjustment" and "Trouble Diagnoses".

Terms INFOID:0000000012353434

 The captions WARNING and CAUTION warn you of steps that must be followed to prevent personal injury and/or damage to some part of the vehicle.

WARNING indicates the possibility of personal injury if instructions are not followed.

CAUTION indicates the possibility of component damage if instructions are not followed.

BOLD TYPED STATEMENTS except **WARNING** and **CAUTION** give you helpful information.

Standard value: Tolerance at inspection and adjustment.

Limit value: The maximum or minimum limit value that should not be exceeded at inspection and adjustment.

Units INFOID:0000000012353435

• The UNITS given in this manual are primarily expressed as the SI UNIT (International System of Unit), and alternatively expressed in the metric system and in the yard/pound system.

Also with regard to tightening torque of bolts and nuts, there are descriptions both about range and about the standard tightening torque.

"Example"

Range

Outer Socket Lock Nut : 59 - 78 N·m (6.0 - 8.0 kg-m, 43 - 58 ft-lb)

Standard

Drive Shaft Installation Bolt : 44.3 N·m (4.5 kg-m, 33 ft-lb)

Contents INFOID:0000000012353436

• A QUICK REFERENCE INDEX, a black tab (e.g. Ex)) is provided on the first page. You can quickly find the first page of each section by matching it to the section's black tab.

• THE CONTENTS are listed on the first page of each section.

- THE TITLE is indicated on the upper portion of each page and shows the part or system.
- THE PAGE NUMBER of each section consists of two or three letters which designate the particular section and a number (e.g. "BR-5").
- THE SMALL ILLUSTRATIONS show the important steps such as inspection, use of special tools, knacks of work and hidden or tricky steps which are not shown in the previous large illustrations. Assembly, inspection and adjustment procedures for the complicated units such as the automatic transaxle or transmission, etc. are presented in a step-by-step format where necessary.

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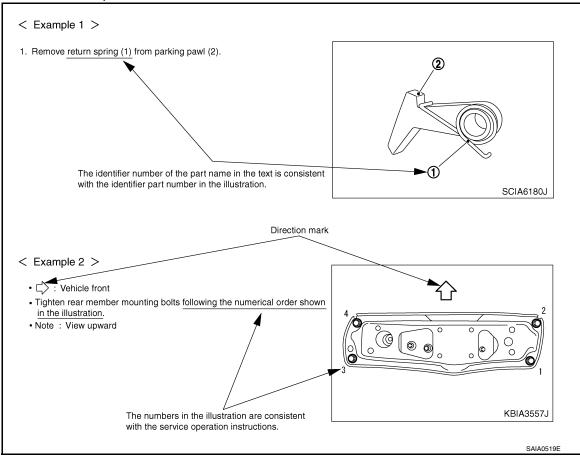
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Relation between Illustrations and Descriptions

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The following sample explains the relationship between the part description in an illustration, the part name in the text and the service procedures.



Components INFOID.0000000012353438

THE LARGE ILLUSTRATIONS are exploded views (see the following) and contain tightening torques, lubrication points, section number of the PARTS CATALOG (e.g. SEC. 440) and other information necessary to perform repairs.

The illustrations should be used in reference to service matters only. When ordering parts, refer to the appropriate **PARTS CATALOG**.

Components shown in an illustration may be identified by a circled number. When this style of illustration is used, the text description of the components will follow the illustration.

1 1	Inion	halt
1.	Union	DOIL

4. Cap

7. Piston seal

10. Cylinder body

Washer 13.

16. Torque member

19. Inner pad

22. Outer pad

1: PBC (Poly Butyl Cuprysil) grease 2: Rubber grease or silicone-based grease

2. Copper washer

5. Bleed valve

8. Piston

11. Sliding pin

Sliding pin boot 14.

Inner shim cover 17.

20. Pad retainer

23. Outer shim

3. Brake hose

6. Sliding pin bolt

9. Piston boot

12. Torque member mounting bolt

15. Bushing

18. Inner shim

21. Pad wear sensor

Outer shim cover

: Brake fluid

Refer to GI section for additional symbol definitions.

SYMBOLS

SYMBOL	DESCRIPTION		SYMBOL	DESCRIPTION
Ŋ	Tightening torque The tightening torque specifications of bolts and nuts may be presented	: N•m (kg-m, ft-lb)	8	Always replace after every disassembly.
•		♀ : N•m (kg-m, in-lb)	₽	Apply petroleum jelly.
—	Should be lubricated with grease. Un indicated, use recommended multi-pr		11 (M)	Apply molybdenum added petroleum jelly.
7	Should be lubricated with oil.		(ATF)	Apply ATF.
2	Sealing point		*	Select with proper thickness.
	Sealing point with locking sealant.		☆	Adjustment is required.
	Checking point			

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HOW TO FOLLOW TROUBLE DIAGNOSES

< HOW TO USE THIS MANUAL >

HOW TO FOLLOW TROUBLE DIAGNOSES

Description INFOID:000000001235343S

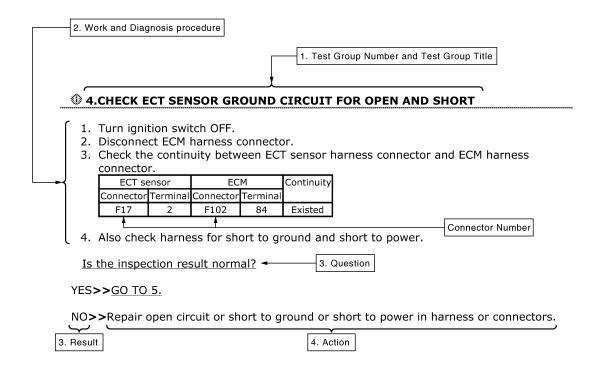
NOTICE:

Trouble diagnoses indicate work procedures required to diagnose problems effectively. Observe the following instructions before diagnosing.

- Before performing trouble diagnoses, read the "Work Flow" in each section.
- After repairs, re-check that the problem has been completely eliminated.
- Refer to Component Parts and Harness Connector Location for the Systems described in each section for identification/location of components and harness connectors.
- When checking circuit continuity, ignition switch should be OFF.
- Refer to the Circuit Diagram for quick pinpoint check.
 - If you need to check circuit continuity between harness connectors in more detail, such as when a sub-harness is used, refer to Wiring Diagram in each individual section and Harness Layout in PG section for identification of harness connectors.
- · Before checking voltage at connectors, check battery voltage.
- After accomplishing the Diagnosis Procedures and Electrical Components Inspection, check that all harness connectors are reconnected as they were.

How to Follow Test Groups in Trouble Diagnosis

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- 1. Test group number and test group title
 - Test group number and test group title are shown in the upper portion of each test group.
- 2. Work and diagnosis procedure
 - Start to diagnose a problem using procedures indicated in enclosed test groups.
- 3. Questions and results
 - Questions and required results are indicated in test group.
- Action
 - Next action for each test group is indicated based on result of each guestion.

HOW TO FOLLOW TROUBLE DIAGNOSES

< HOW TO USE THIS MANUAL >

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
€Ð	Check after disconnecting the connector to be measured.	®	Procedure with Generic Scan Tool. (GST, OBD-II scan tool)
€	Check after connecting the connector to be measured.	TOOLS	Procedure without CONSULT or GST
C	Insert key into ignition switch.	A/C OFF	A/C switch is "OFF".
	Remove key from ignition switch.	A/C ON	A/C switch is "ON".
C+	Insert and remove key repeatedly.		REC switch is "ON".
	Turn ignition switch to "OFF" position.		REC switch is "OFF".
©	Turn ignition switch to "ACC" position.		Fan switch is "ON". (At any position except for "OFF" position)
	Turn ignition switch to "ON" position.		Fan switch is "OFF".
	Turn ignition switch to "START" position.	FUSE	Apply fuse.
© FF ACC	Turn ignition switch from "OFF" to "ACC" position.	(FUSE)	
(Co) ON	Turn ignition switch from "ACC" to "ON" position.	BAT	Apply positive voltage from battery with fuse directly to components.
(ACC) OFF	Turn ignition switch from "ACC" to "OFF" position.	j. ••••••••••••••••••••••••••••••••••••	

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SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
— ON	Turn ignition switch from "OFF" to "ON" position.		Drive vehicle.
OFF OFF	Turn ignition switch from "ON" to "OFF" position.		
	Do not start engine, or check with engine stopped.	BAT	Disconnect battery negative cable.
	Start engine, or check with engine running.		Depress brake pedal.
	Apply parking brake.		Release brake pedal.
	Release parking brake.		Depress accelerator pedal.
СФР	Check after engine is warmed up sufficiently.		Release accelerator pedal.
V ⊕ ⊖	Voltage should be measured with a voltmeter.	H.S.	Pin terminal check for SMJ type ECM or TCM connectors. For details regarding the terminal
Ω Ω ⊕ Θ	Circuit resistance should be measured with an ohmmeter.		arrangement, refer to the "ELECTRICAL UNITS" electrical reference page at the end of the manual.
A ⊕ ⊖	Current should be measured with an ammeter.		
₽ Θ	Pulse signal should be checked with an oscilloscope.	÷	
	Procedure with CONSULT		
	Procedure without CONSULT		
	Place selector lever in "P" position.		
	Place selector lever in "N" position.		
	Jack up front portion.		
	Jack up rear portion.		
_	Inspect under engine room.		
	Inspect under floor.		
	Inspect rear under floor.		

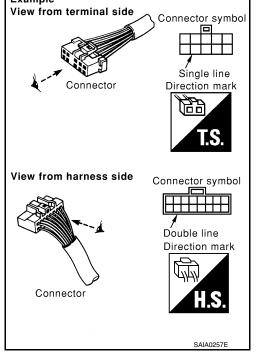
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Connector Symbols

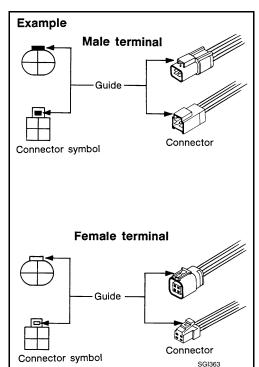
Most of connector symbols in wiring diagrams are shown from the terminal side.

- Connector symbols shown from the terminal side are enclosed by a single line and followed by the direction mark.

 Example View from
- Connector symbols shown from the harness side are enclosed by a double line and followed by the direction mark.
- Certain systems and components, especially those related to OBD, may use a new style slide-locking type harness connector.
 For description and how to disconnect, refer to PG section, "Description", "HARNESS CONNECTOR".



Male and female terminals
 Connector guides for male terminals are shown in black and female terminals in white in wiring diagrams.



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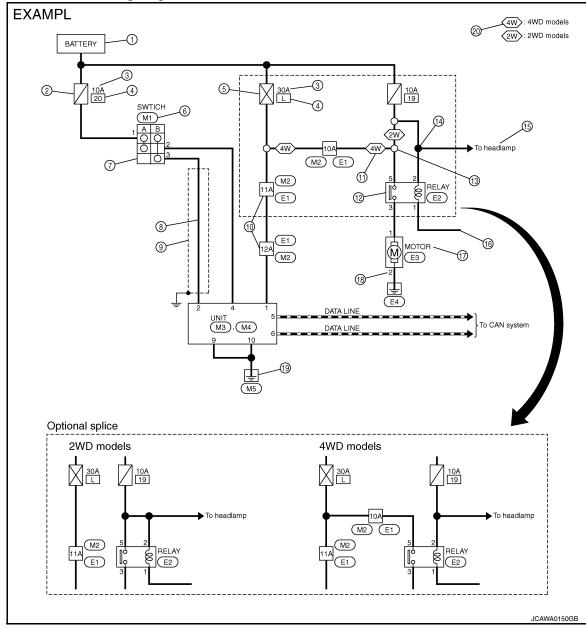
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Sample/Wiring Diagram -Example-

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Each section includes wiring diagrams.



Description		
Number	Item	Description
1	Power supply	This means the power supply of fusible link or fuse.
2	Fuse	"/" means the fuse.
3	Current rating of fusible link/fuse	This means the current rating of the fusible link or fuse.
4	Number of fusible link/ fuse	This means the number of fusible link or fuse location.
5	Fusible link	"X" means the fusible link.
6	Connector number	 Alphabetic characters show to which harness the connector is placed. Numeric characters show the identification number of connectors.
7	Switch	This shows that continuity exists between terminals 1 and 2 when the switch is in the A position. Continuity exists between terminals 1 and 3 when the switch is in the B position.
8	Circuit (Wiring)	This means the wiring.

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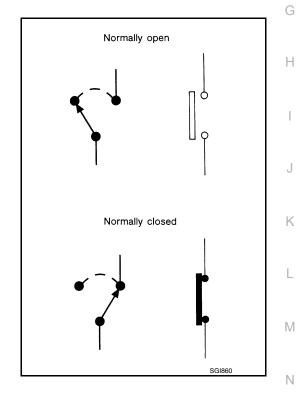
Number	Item	Description	
9	Shielded line	The line enclosed by broken line circle shows shield wire.	GI
10	Connectors	This means that a transmission line bypasses two connectors or more.	
11	Option abbreviation	This means the vehicle specifications which layouts the circuit between "O".	В
12	Relay	This shows an internal representation of the relay.	
13	Optional splice	The open circle shows that the splice is optional depending on vehicle application.	
14	Splice	The shaded circle " means the splice.	
15	System branch	This shows that the circuit is branched to other systems.	
16	Page crossing	This circuit continues to an adjacent page.	D
17	Component name	This shows the name of a component.	
18	Terminal number	This means the terminal number of a connector.	
19	Ground (GND)	This shows the ground connection.	
20	Explation of option description	This shows a description of the option abbreviation used on the page.	F

SWITCH POSITIONS

Switches are shown in wiring diagrams as if the vehicle is in the "normal" condition.

A vehicle is in the "normal" condition when:

- ignition switch is "OFF"
- · doors, hood and trunk lid/back door are closed
- · pedals are not depressed
- · parking brake is released



MULTIPLE SWITCH

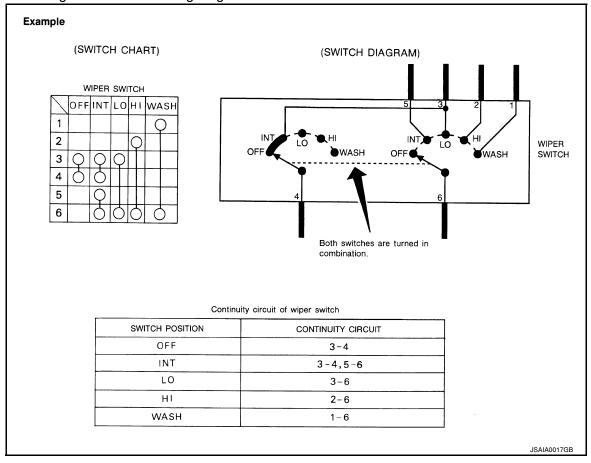
The continuity of multiple switch is described in two ways as shown below.

• The switch chart is used in schematic diagrams.

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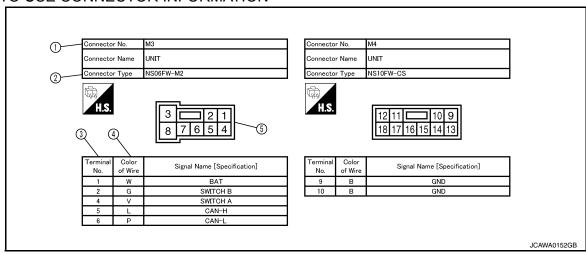
· The switch diagram is used in wiring diagrams.



Connector Information

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HOW TO USE CONNECTOR INFORMATION



< HOW TO USE THIS MANUAL >

lumber	Item		Description
1	Connector number	 Alphabetic characters show to which harness the connector is placed. Numeric characters show the identification number of connectors. 	
2	Connector type	1: Connector model 2: Cavity 3: Male (M) and female (F) terminals 4: Connector color 5: Special type	Example: RS 04 F G - GY 1 2 3 4 5
3	Terminal number	This means the terminal number of a continuous con	connector.
4	Wire color	This shows a code for the color of the state of the stat	BR = Brown OR or O = Orange P = Pink PU or V (Violet) = Purple GY or GR = Gray SB = Sky Blue CH = Dark Brown DG = Dark Green e color is given first, followed by the stripe color as
5	Connector	This means the connector information. This unit-side is described by the connector.	

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Abbreviation List

The following **ABBREVIATIONS** are used:

<u> </u>		
	ABBREVIATION	DESCRIPTION
	A/C	Air conditioner
	A/C	Air conditioning
	A/F sensor	Air fuel ratio sensor
	A/T	Automatic transaxle/transmission
	ABS	Anti-lock braking system
	ACCS	Advance climate control system
	ACL	Air cleaner
	AP	Accelerator pedal
	APP	Accelerator pedal position
	ATF	Automatic transmission fluid
	AV	Audio visual
	AWD	All wheel drive
В		
	ABBREVIATION	DESCRIPTION
	BARO	Barometric pressure
	BCM	Body control module
	BLSD	Brake limited slip differential
	BPP	Brake pedal position
	BSI	Blind spot intervention
	BSW	Blind spot warning
С		
	ABBREVIATION	DESCRIPTION
	CKP	Crankshaft position
	CL	Closed loop
	CMP	Camshaft position
	CPP	Clutch pedal position
	CTP	Closed throttle position
	CVT	Continuously variable transaxle/transmission
D		
	ABBREVIATION	DESCRIPTION
	D1	Drive range first gear
	D2	Drive range second gear
	D3	Drive range third gear
	D4	Drive range fourth gear
	DCA	Distance control assist
	DDS	Downhill drive support
	DFI	Direct fuel injection system
	DLC	Data link connector
	DTC	Diagnostic trouble code

ABBREVIATION	DESCRIPTION	
E/T	Exhaust temperature	- 1
EBD	Electric brake force distribution	-
EC	Engine control	-
ECL	Engine coolant level	_
ECM	Engine control module	_
ECT	Engine coolant temperature	-
ECV	Electrical control valve	_
EEPROM	Electrically erasable programmable read only memory	_
EFT	Engine fuel temperature	-
EGR	Exhaust gas recirculation	_
EGRT	Exhaust gas recirculation temperature	_
EGT	Exhaust gas temperature	_
EOP	Engine oil pressure	_
EP	Exhaust pressure	_
EPR	Exhaust pressure regulator	_
EPS	Electronically controlled power steering	_
ESP	Electronic stability program system	_
EVAP canister	Evaporative emission canister	_
EXC	Exhaust control	_
		-
ABBREVIATION	DESCRIPTION	_
FC	Fan control	_
FCW	Forward collision warning	_
FIC	Fuel injector control	_
FP	Fuel pump	_
FR	Front	_
FRP	Fuel rail pressure	_
FRT	Fuel rail temperature	_
FTP	Fuel tank pressure	_
FTT	Fuel tank temperature	_
		-
ABBREVIATION	DESCRIPTION	-
GND	Ground	_
GPS	Global positioning system	_
GST	Generic scan tool	_
		_
ABBREVIATION	DESCRIPTION	_
НВМС	Hydraulic body-motion control system	_
HDD	Hard disk drive	_
	Heated oxygen sensor	_
HO2S	70	
HO2S HOC	Heated oxidation catalyst	_

<u>< </u>	HOW TO USE TH	HIS MANUAL >
<u> </u>	ABBREVIATION	DESCRIPTION
		DESCRIPTION
	I/M	Inspection and maintenance
	IA .	Intake air
	IAC	Idle air control
	IAT	Intake air temperature
	IBA	Intelligent brake assist
	IC	Ignition control
	ICC	Intelligent cruise control
	ICM	Ignition control module
	IPDM E/R	Intelligent power distribution module engine room
	ISC	Idle speed control
	ISS	Input shaft speed
K	ADDDEVATION	DECORIDATION
	ABBREVIATION	DESCRIPTION
	KS	Knock sensor
<u>L</u>	ABBREVIATION	DESCRIPTION
	LBC	Li-ion battery controller
	LCD	Liquid crystal display
	LCU	Local control unit
	LDP	
	LDW	Lane departure prevention
	LED	Lane departure warning Light emitting diode
	LED	Left-hand
	LIN	Local interconnect network
	LIIV	Local interconnect network
М	ABBREVIATION	DESCRIPTION
	M/T	Manual transaxle/transmission
	MAF	Mass airflow
	MAP	Manifold absolute pressure
	MDU	Multi display unit
	MI	Malfunction indicator
	MIL	Malfunction indicator lamp
N		
IN	ABBREVIATION	DESCRIPTION
	NOX	Nitrogen oxides
0		
	ABBREVIATION	DESCRIPTION
	O2	Oxygen
	O2S	Oxygen sensor
	OBD	On board diagnostic
-	OC	Oxidation catalytic converter
_	OD	Overdrive
	OL	Open loop
	OSS	Output shaft speed

ABBREVIATION	DESCRIPTION	GI
P/S	Power steering	
PBR	Potentio balance resistor	
PCV	Positive crankcase ventilation	E
PNP	Park/Neutral position	
PSP	Power steering pressure	
PTC	Positive temperature coefficient	
PTO	Power takeoff	
PWM	Pulse width modulation	
₹		
ABBREVIATION	DESCRIPTION	
RAM	Random access memory	
RAS	Rear active steer	
RH	Right-hand	F
ROM	Read only memory	
RPM	Engine speed	
RR	Rear	
3		
ABBREVIATION	DESCRIPTION	-
SAE	Society of Automotive Engineers, Inc.	
SCK	Serial clock	
SDS	Service Data and Specifications	
SRT	System readiness test	
SST	Special Service Tools	
-		
ABBREVIATION	DESCRIPTION	
TC	Turbocharger	<u> </u>
TCM	Transmission control module	
TCS	Traction control system	
TCU	Telematics communication unit	
TP	Throttle position	
TPMS	Tire pressure monitoring system	
TSS	Turbine shaft speed	
TWC	Three way catalytic converter	
J		N
ABBREVIATION	DESCRIPTION	
USS	Uphill start support	
/		
ABBREVIATION	DESCRIPTION	
VCM	Vehicle control module	F
VDC	Vehicle dynamics control system	
VIN	Vehicle identification number	
VSS	Vehicle speed sensor	

_	IOW TO USE II	IIO MANOAL >		
W				
	ABBREVIATION		DESCRIPTION	
	WOT	Wide open throttle		
1				
	ABBREVIATION		DESCRIPTION	
	11	1st range first gear		
	12	1st range second gear		
	1GR	First gear		
2				
	ABBREVIATION		DESCRIPTION	
	21	2nd range first gear		
	22	2nd range second gear		
	2GR	Second gear		
	2WD	2-wheel drive		
3				
	ABBREVIATION		DESCRIPTION	
	3GR	Third gear		
4				
	ABBREVIATION		DESCRIPTION	
	4GR	Fourth gear		
	4WAS	Four wheel active steer		
	4WD	Four wheel drive		
5				
	ABBREVIATION		DESCRIPTION	
	5GR	Fifth gear		
6				
	ABBREVIATION		DESCRIPTION	
	6GR	Sixth gear		
7				
	ABBREVIATION		DESCRIPTION	
_	7GR	Seventh gear		

TIGHTENING TORQUE OF STANDARD BOLTS

< HOW TO USE THIS MANUAL >

TIGHTENING TORQUE OF STANDARD BOLTS

Description INFOID:000000012353446

This vehicle has both new standard based on ISO* and previous standard bolts/nuts. There are some differences between these two types of bolts/ nuts; shape of the head, grade of strength, hexagonal width across flats and the standard tightening torque.

- For guidance in discriminating, refer to GI-19, "Tightening Torque Table (New Standard Included)".
- The new standard machine screws and tapping screws have a head of ISO standard torx recess.
- If the tightening torque is not described in the description or figure, refer to GI-19, "Tightening Torque Table (New Standard Included)".
- *ISO: International Organization for Standardization

Tightening Torque Table (New Standard Included)

INFOID:0000000012353447

CAUTION:

- The special parts are excluded.
- The bolts/nuts in these tables have a strength (discrimination) number/symbol assigned to the head or the like. As to the relation between the strength grade in these tables and the strength (discrimination) number/symbol, refer to "DISCRIMINATION OF BOLTS AND NUTS".

PREVIOUS STANDARD

Tightening torque (Without lubricant) Hexagonal Bolt di-Grade Bolt Pitch width Hexagon head bolt (Strength ameter Hexagon flange bolt size across flats mm grade) mm ft-lb N·m kg-m in-lb $N \cdot m$ kg-m ft-lb in-lb mm M6 6.0 10 1.0 5.5 0.56 4 49 7 0.71 5 62 10 17 1.25 13.5 1.4 1.7 13 8.0 **M8** 12 1.0 13.5 1.4 10 17 1.7 13 2.9 26 1.5 28 21 35 3.6 4T M10 10.0 14 2.9 1.25 28 21 35 3.6 26 1.75 4.6 45 33 55 5.6 41 12.0 M12 17 45 1.25 4.6 33 65 66 48 M14 14.0 19 1.5 80 8.2 59 100 10 74 M6 6.0 10 1.0 9 0.92 7 80 11 1.1 8 97 1.25 22 2.2 16 28 2.9 21 8.0 **M8** 12 2.2 1.0 22 16 28 2.9 21 1.5 45 4.6 33 55 5.6 41 7T M10 10.0 14 1.25 4.6 33 5.6 41 45 55 8.2 100 74 1.75 80 59 10 M12 12.0 17 1.25 80 8.2 59 100 10 74 M14 14.0 19 1.5 130 13 96 170 17 125 M6 6.0 10 1.0 11 1.1 8 13.5 1.4 10 2.9 1.25 28 21 35 3.6 26 **M8** 8.0 12 1.0 28 2.9 21 35 3.6 26 55 5.6 80 8.2 59 1.5 41 9T 10.0 M10 14 1.25 55 5.6 41 80 8.2 59 1.75 100 74 130 96 10 13 M12 12.0 17 1.25 100 10 74 130 13 96 M14 14.0 170 125 210

CAUTION:

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TIGHTENING TORQUE OF STANDARD BOLTS

< HOW TO USE THIS MANUAL >

The parts with aluminum or the cast iron washer surface/thread surface are excluded.

NEW STANDARD BASED ON ISO

Grade		Bolt di-	Hexagonal					Tighteni	ng torque			
(Strength	Bolt size	ameter	width across flats mm	Pitch mm		Hexagon	head bolt	t		Hexagon	flange bo	lt
grade)	0.20	mm			N·m	kg-m	ft-lb	in-lb	N·m	kg-m	ft-lb	in-lb
	M6	6.0	10	1.0	5.5	0.56	4	49	7	0.71	5	62
	MAO	8.0	13	1.25	13.5	1.4	10	_	17	1.7	13	_
	M8	0.0	13	1.0	13.5	1.4	10	_	17	1.7	13	_
4.8	N440	10.0	16	1.5	28	2.9	21	_	35	3.6	26	_
(Without lubricant)	M10	10.0	16	1.25	28	2.9	21	_	35	3.6	26	_
	M12	12.0	18	1.75	45	4.6	33	_	55	5.6	41	_
	IVIIZ	12.0	10	1.25	45	4.6	33	_	65	6.6	48	_
	M14	14.0	21	1.5	80	8.2	59	_	100	10	74	_
	M6	6.0	10	1.0	4	0.41	3	35	5.5	0.56	4	49
	MAO	9.0	12	1.25	11	1.1	8	_	13.5	1.4	10	_
	M8	8.0	13	1.0	11	1.1	8	_	13.5	1.4	10	_
4.8 (With lu-	M10 10	10.0	16	1.5	22	2.2	16	_	28	2.9	21	_
bricant)		10.0		1.25	22	2.2	16	_	28	2.9	21	_
	M12 12.0	12.0	18	1.75	35	3.6	26	_	45	4.6	33	_
		12.0	10	1.25	35	3.6	26	_	45	4.6	33	_
	M14	14.0	21	1.5	65	6.6	48	_	80	8.2	59	_
	M6	6.0	10	1.0	8	0.82	6	71	10	1.0	7	89
	M8 8.0	0.0	40	1.25	21	2.1	15	_	25	2.6	18	_
		8.0	13	1.0	21	2.1	15	_	25	2.6	18	_
8.8	M10 10.0	10.0	16	1.5	40	4.1	30	_	50	5.1	37	_
(With lu- bricant)		10.0		1.25	40	4.1	30	_	50	5.1	37	_
	M12	12.0	18	1.75	70	7.1	52	_	85	8.7	63	_
	IVI I Z	12.0	10	1.25	70	7.1	52	_	85	8.7	63	_
	M14	14.0	21	1.5	120	12	89	_	140	14	103	_
	M6	6.0	10	1.0	10	1.0	7	89	12	1.2	9	106
	MO	0.0	40	1.25	27	2.8	20	_	32	3.3	24	_
	M8	8.0	13	1.0	27	2.8	20	_	32	3.3	24	_
10.9	N40	10.0	16	1.5	55	5.6	41	_	65	6.6	48	_
(With lu- bricant)	M10	10.0	16	1.25	55	5.6	41	_	65	6.6	48	_
,	M42	12.0	10	1.75	95	9.7	70	_	110	11	81	_
	M12	12.0	18	1.25	95	9.7	70	_	110	11	81	_
	M14	14.0	21	1.5	160	16	118	_	180	18	133	_

CAUTION:

- 1. Use tightening torque with lubricant for the new standard bolts/nuts in principle. Friction coefficient stabilizer is applied to the new standard bolts/nuts.
- 2. However, use tightening torque without lubricant for the following cases. Friction coefficient stabilizer is not applied to the following bolts/nuts.
- Grade 4.8, M6 size bolt, Conical spring washer installed
- Paint removing nut (Size M6 and M8) for fixing with weld bolt

TIGHTENING TORQUE OF STANDARD BOLTS

< HOW TO USE THIS MANUAL >

DISCRIMINATION OF BOLTS AND NUTS

BOLTS

	Grade (Strength)	Discrimination			
	4T (392N/mm²)	4	(No number/ symbol)		
Previous standard	7T (686N/mm²)	7			
	9T (883N/mm²)	9			
	4.8 (420N/mm²)	4.8	(No number/symbol)		
New Standard	8.8 (800N/mm²)	8.8			
	10.9 (1040N/mm²)	10.9			

NUTS

	Grade (Proof load stress)	Discrimination				
Previous	7N (686N/mm²)	(No number/symbol)				
standard	9N (883N/mm²)					
New	8 (800N/mm²)			(No number/symbol)		
Standard	10 (1040N/mm²)	(TO)				

NOTICE:

- A number is assigned on the side of the nuts in some cases.
- A number or symbol is assigned on the upper surface of the flange for the nut with flange.



MACHINE SCREWS AND TAPPING SCREWS

Shape of the head:

Cross recess for the previous standard Torx recess for the new standard

Screw	Screw	Torx size	
size	diameter		
M4	4.0	T20	
M5	5.0	T20	
M6	6.0	T30	

NOTICE:

Use torx size T20 (united with M4 screw) for M5 screw although ISO standard specifies T25.

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RECOMMENDED CHEMICAL PRODUCTS AND SEALANTS

< HOW TO USE THIS MANUAL >

RECOMMENDED CHEMICAL PRODUCTS AND SEALANTS

Recommended Chemical Products and Sealants

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Refer to the following chart for help in selecting the appropriate chemical product or sealant.

	Product Description	Purpose	Nissan North America Part No. (USA)	Nissan Canada Part No. (Canada)	Aftermarket Cross- reference Part Nos.
1	Rear View Mirror Adhesive	Used to permanently remount rear view mirrors to windows.	999MP-AM000P	99998-50505	Permatex 81844
2	Anaerobic Liquid Gas- ket	For metal-to-metal flange sealing. Can fill a 0.38 mm (0.015 inch) gap and provide instant sealing for most powertrain applications.	999MP-AM001P	99998-50503	Permatex 51813 and 51817
3	High Performance Thread Sealant	Provides instant sealing on any threaded straight or parallel threaded fitting. (Thread sealant only, no locking ability.) • Do not use on plastic.	999MP-AM002P	999MP-AM002P	Permatex 56521
4	Silicone RTV	Gasket Maker	999MP-AM003P (Ultra Grey)	99998-50506 (Ultra Grey)	Permatex Ultra Grey 82194; Three Bond 1207,1215, 1216, 1217F, 1217G and 1217H Nissan RTV Part No. 999MP-A7007
		Gasket Maker for Maxima/ Quest 5-speed automatic transmission (RE5F22A)	_	_	Three Bond 1281B or exact equivalent in its quality
5	High Temperature, High Strength Thread Locking Sealant (Red)	Threadlocker	999MP-AM004P	999MP-AM004P	Permatex 27200; Three Bond 1360, 1360N, 1305 N&P, 1307N, 1335, 1335B, 1363B, 1377C, 1386B, D&E and 1388 Loctite 648
6	Medium Strength Thread Locking Seal- ant (Blue)	Threadlocker (service tool removable)	999MP-AM005P	999MP-AM005P	Permatex 24200, 24206, 24240, 24283 and 09178; Three Bond 1322, 1322N, 1324 D&N, 1333D, 1361C, 1364D, 1370C and 1374

PRECAUTION

PRECAUTIONS

Description INFOID:0000000012353449

Observe the following precautions to ensure safe and proper servicing. These precautions are not described in each individual section.

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

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. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, 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 "SRS AIR BAG".
- Never 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

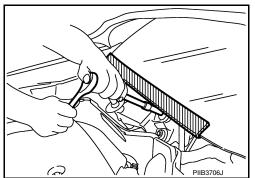
WARNING:

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never 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, and wait at least 3 minutes before performing any service.

Precaution for Procedure without Cowl Top Cover

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



Precautions for Removing Battery Terminal

When disconnecting the battery terminal, pay attention to the following.

- Always use a 12V battery as power source.
- Never disconnect battery terminal while engine is running.

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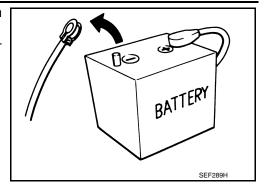
PRECAUTIONS

< PRECAUTION >

- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:

D4D engine : 20 minutes YS23DDT : 4 minutes HRA2DDT : 12 minutes YS23DDTT : 4 minutes K9K engine : 4 minutes ZD30DDTi : 60 seconds ZD30DDTT : 60 seconds M9R engine : 4 minutes

R9M engine : 4 minutes
V9X engine : 4 minutes
YD25DDTi : 2 minutes



NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

• After high-load driving, if the vehicle is equipped with the V9X engine, turn the ignition switch OFF and wait for at least 15 minutes to remove the battery terminal.

NOTE:

- Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
- · Example of high-load driving
- Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
- Driving for 30 minutes or more on a steep slope.
- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

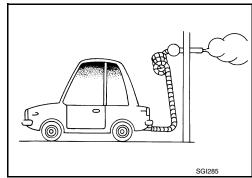
NOTE

The removal of 12V battery may cause a DTC detection error.

General Precautions

 Do not operate the engine for an extended period of time without proper exhaust ventilation.

Keep the work area well ventilated and free of any inflammable materials. Special care should be taken when handling any inflammable or poisonous materials, such as gasoline, refrigerant gas, etc. When working in a pit or other enclosed area, be sure to properly ventilate the area before working with hazardous materials. Do not smoke while working on the vehicle.



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 Before jacking up the vehicle, apply wheel chocks or other tire blocks to the wheels to prevent the vehicle from moving. After jacking up the vehicle, support the vehicle weight with safety stands at the points designated for proper lifting before working on the vehicle

These operations should be done on a level surface.

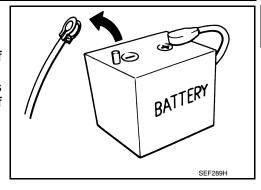
 When removing a heavy component such as the engine or transaxle/transmission, be careful not to lose your balance and drop them. Also, do not allow them to strike adjacent parts, especially the brake tubes and master cylinder.



PRECAUTIONS

< PRECAUTION >

- Before starting repairs which do not require battery power: Turn off ignition switch.
 - Disconnect the negative battery terminal.
- If the battery terminals are disconnected, recorded memory of radio and each control unit is erased.
- For vehicles with two batteries, be sure to remove both batteries when instructed to remove 12V battery in the service manual. If specified as main battery or sub battery, then do as instructed.

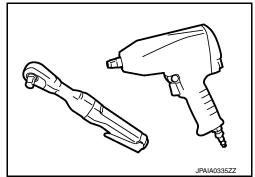


To prevent serious burns:

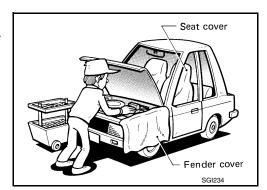
Avoid contact with hot metal parts.

Do not remove the radiator cap when the engine is hot.

- Dispose of drained oil or the solvent used for cleaning parts in an appropriate manner.
- Do not attempt to top off the fuel tank after the fuel pump nozzle shuts off automatically.
 - Continued refueling may cause fuel overflow, resulting in fuel spray and possibly a fire.
- Clean all disassembled parts in the designated liquid or solvent prior to inspection or assembly.
- Replace oil seals, gaskets, packings, O-rings, locking washers, cotter pins, self-locking nuts, etc. with new ones.
- · Replace inner and outer races of tapered roller bearings and needle bearings as a set.
- Arrange the disassembled parts in accordance with their assembled locations and sequence.
- Do not touch the terminals of electrical components which use microcomputers (such as ECM).
 Static electricity may damage internal electronic components.
- After disconnecting vacuum or air hoses, attach a tag to indicate the proper connection.
- Use only the fluids and lubricants specified in this manual.
- Use approved bonding agent, sealants or their equivalents when required.
- Use hand tools, power tools (disassembly only) and recommended special tools where specified for safe and efficient service repairs.
- When repairing the fuel, oil, water, vacuum or exhaust systems, check all affected lines for leakage.



Before servicing the vehicle:
 Protect fenders, upholstery and carpeting with appropriate covers.
 Take caution that keys, buckles or buttons do not scratch paint.



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WARNING:

To prevent ECM from storing the diagnostic trouble codes, never carelessly disconnect the harness connectors which are related to the engine control system and TCM (transmission control module)

system. The connectors should be disconnected only when working according to the WORK FLOW of TROUBLE DIAGNOSES in EC and TM sections.

Three Way Catalyst

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If a large amount of unburned fuel flows into the catalyst, the catalyst temperature will be excessively high. To prevent this, follow the instructions.

- Use unleaded gasoline only. Leaded gasoline will seriously damage the three way catalyst.
- When checking for ignition spark or measuring engine compression, make tests quickly and only when necessary.
- Do not run engine when the fuel tank level is low, otherwise the engine may misfire, causing damage to the catalyst.

Do not place the vehicle on flammable material. Keep flammable material off the exhaust pipe and the three way catalyst.

Multiport Fuel Injection System or Engine Control System

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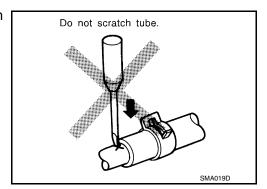
- Before connecting or disconnecting any harness connector for the multiport fuel injection system or ECM:
 - Turn ignition switch to "OFF" position.
 - Disconnect negative battery terminal.
 - Otherwise, there may be damage to ECM.
- Before disconnecting pressurized fuel line from fuel pump to injectors, be sure to release fuel pressure.
- Be careful not to jar components such as ECM and mass air flow sensor.



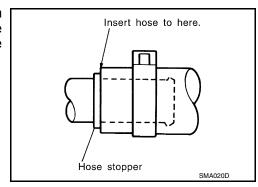
Hoses

HOSE REMOVAL AND INSTALLATION

• To prevent damage to rubber hose, do not pry off rubber hose with tapered tool or screwdriver.



 To reinstall the rubber hose securely, check that hose insertion length and orientation is correct. (If tube is equipped with hose stopper, insert rubber hose into tube until it butts up against hose stopper.)

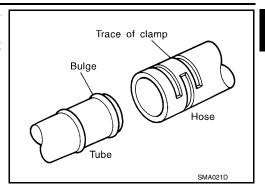


HOSE CLAMPING

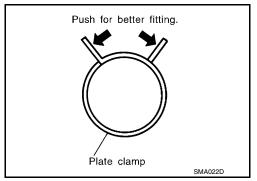
PRECAUTIONS

< PRECAUTION >

- · If old rubber hose is re-used, install hose clamp in its original position (at the indentation where the old clamp was). If there is a trace of tube bulging left on the old rubber hose, align rubber hose at that position.
- Discard old clamps; replace with new ones.



 After installing plate clamps, apply force to them in the direction of the arrow, tightening rubber hose equally all around.



Engine Oils

Prolonged and repeated contact with used engine oil may cause skin cancer. Try to avoid direct skin contact with used oil.

If skin contact is made, wash thoroughly with soap or hand cleaner as soon as possible.

HEALTH PROTECTION PRECAUTIONS

- Avoid prolonged and repeated contact with oils, particularly used engine oils.
- Wear protective clothing, including impervious gloves where practicable.
- Do not put oily rags in pockets.
- Avoid contaminating clothes, particularly underpants, with oil.
- Heavily soiled clothing and oil-impregnated footwear should not be worn. Overalls must be cleaned regu-
- First aid treatment should be obtained immediately for open cuts and wounds.
- Use barrier creams, applying them before each work period, to help the removal of oil from the skin.
- Wash with soap and water to ensure all oil is removed (skin cleansers and nail brushes will help). Preparations containing lanolin replace the natural skin oils which have been removed.
- Do not use gasoline, kerosene, diesel fuel, gas oil, thinners or solvents for cleaning skin.
- If skin disorders develop, obtain medical advice without delay.
- · Where practical, degrease components prior to handling.
- Where there is a risk of eye contact, eye protection should be worn, for example, chemical goggles or face shields; in addition an eye wash facility should be provided.

ENVIRONMENTAL PROTECTION PRECAUTIONS

Dispose of used oil and used oil filters through authorized waste disposal contractors to licensed waste disposal sites, or to the waste oil reclamation trade. If in doubt, contact the local authority for advice on disposal facilities.

It is illegal to pour used oil on to the ground, down sewers or drains, or into water sources.

The regulations concerning pollution vary between regions.

Air Conditioning

Use an approved refrigerant recovery unit any time the air conditioning system must be discharged. Refer to HA section "REFRIGERANT" for specific instructions.

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PRECAUTIONS

< PRECAUTION >

Fuel (INFOID:000000012353459

FOR USA AND CANADA

Use unleaded premium gasoline with an octane rating of at least 91 AKI (Anti-Knock index) number (Research octane number 96).

If premium gasoline is not available, unleaded regular gasoline with an octane rating of 87 AKI number (Research octane number 91) may be temporarily used, but only under the following precautions:

- Have the fuel tank filled only partially with unleaded regular gasoline, and fill up with unleaded premium gasoline as soon as possible.
- · Avoid full throttle driving and abrupt acceleration.

Use unleaded premium gasoline for maximum vehicle performance.

CAUTION:

- Using a fuel other than that specified could adversely affect the emission control system, and may also affect warranty coverage.
- Under no circumstances should a leaded gasoline be used, because this will damage the three-way catalyst.
- Do not use E-15 or E-85 fuel in the vehicle. The vehicle is not designed to run on E-15 or E-85 fuel.
 Using E-15 or E-85 fuel in a vehicle not specifically designed for E-15 or E-85 fuel can adversely
 affect the emission control devices and systems of the vehicle. Damage caused by such fuel is not
 covered by the INFINITI new vehicle limited warranty.
- Do not use fuel that contains the octane booster methylcyclopentadienyl manganese tricarbonyl (MMT). Using fuel containing MMT may adversely affect vehicle performance and vehicle emissions. Not all fuel dispensers are labeled to indicate MMT content, so you may have to consult your gasoline retailer for more details. Note that Federal and California laws prohibit the use of MMT in reformulated gasoline.
- U.S. government regulations require ethanol dispensing pumps to be identified by a small, square, orange and black label with the common abbreviation or the appropriate percentage for that region.

FOR MEXICO

Use unleaded premium gasoline with an octane rating of at least 91 AKI (Anti-Knock index) number (Research octane number 96).

If premium gasoline is not available, unleaded regular gasoline with an octane rating of 87 AKI number (Research octane number 91) may be temporarily used, but only under the following precautions:

- Have the fuel tank filled only partially with unleaded regular gasoline, and fill up with unleaded premium gasoline as soon as possible.
- Avoid full throttle driving and abrupt acceleration.

Use unleaded premium gasoline for maximum vehicle performance.

LIFTING POINT

Commercial Service Tools

INFOID:0000000012353460

Tool name	Description
Board on attachment	S-NT001
Safety stand attachment	S-NT002

CAUTION:

- Every time the vehicle is lifted up, maintain the complete vehicle curb condition.
- Since the vehicle's center of gravity changes when removing main parts on the front side (engine, transmission, suspension etc.), support a jack up point on the rear side garage jack with a mission jack or equivalent.
- Since the vehicle's center of gravity changes when removing main parts on the rear side (rear axle, suspension, etc.), support a jack up point on the front side garage jack with a mission jack or equivalent.
- Be careful not to smash or never do anything that would affect piping parts.

Garage Jack and Safety Stand and 2-Pole Lift

WARNING:

- Park the vehicle on a level surface when using the jack. Check to avoid damaging pipes, tubes, etc. under the vehicle.
- Never get under the vehicle while it is supported only by the jack. Always use safety stands when you have to get under the vehicle.
- Place wheel chocks at both front and back of the wheels on the ground.
- When lifting the vehicle, open the lift arms as wide as possible and ensure that the front and rear of the vehicle are well balanced.
- When setting the lift arm, never allow the arm to contact the brake tubes, brake cable, fuel lines and sill spoiler.

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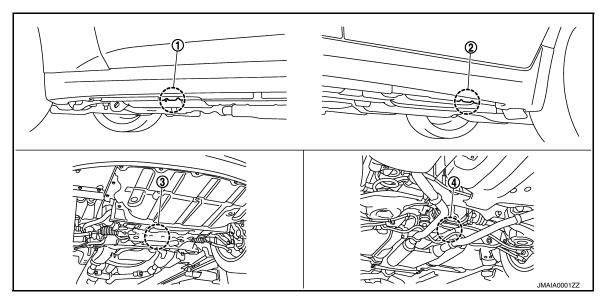
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- 1. Safety stand point and lift up point (front) 2. Safety stand point and lift up point 3. Garage jack point (front) (rear)
- 4. Garage jack point (rear)

CAUTION:

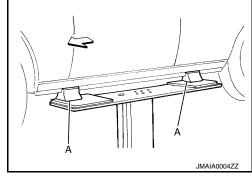
There is canister just behind Garage jack point rear. Jack up carefully.

Board-On Lift

CAUTION:

Check that vehicle is empty when lifting.

- The board-on lift attachment (A) set at front end of vehicle should be set on the front of the sill under the front door opening.
- · Position attachments at front and rear ends of board-on lift.



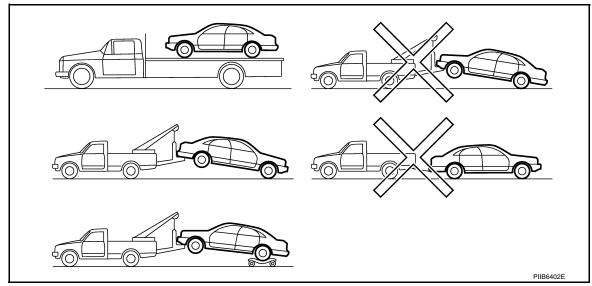
TOW TRUCK TOWING

Tow Truck Towing INFOID:0000000012353463

CAUTION:

- · All applicable state or Provincial (in Canada) laws and local laws regarding the towing operation must be obeyed.
- · It is necessary to use proper towing equipment to avoid possible damage to the vehicle during towing operation. Towing is in accordance with Towing Procedure Manual at dealer.
- Always attach safety chains before towing.
- When towing, check that the transmission, steering system and powertrain are in good order. If any unit is damaged, dollies must be used.
- Never tow an automatic transmission model from the rear (that is backward) with four wheels on the ground. This may cause serious and expensive damage to the transmission.

2WD MODELS



INFINITI recommends that vehicle be towed with the driving (rear) wheels off the ground or that a dolly be used as illustrated.

CAUTION:

 Never tow automatic transmission models with the rear wheels on the ground or four wheels on the ground (forward or backward), as this may cause serious and expensive damage to the transmission.

If it is necessary to tow the vehicle with the front wheels raised, always use towing dollies under the rear wheels.

- When towing rear wheel drive models with the front wheels on the ground or on towing dollies:
- Turn the ignition switch to the OFF position, and secure the steering wheel in a straight ahead position with a rope or similar device. Never secure the steering wheel by turning the ignition switch to the LOCK position. This may damage the steering lock mechanism.
- Move the selector lever to the N (Neutral) position.
- When the battery of vehicle equipped with the Intelligent Key system is discharged, your vehicle should be towed with the front wheels on towing dollies or place the vehicle on a flat bed truck.

If the speed or distance must necessarily be greater, remove the propeller shaft before towing to prevent damage to the transmission.

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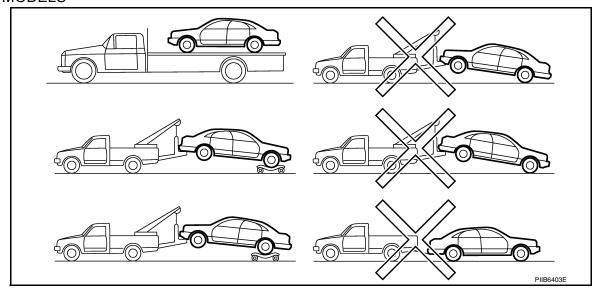
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AWD MODELS



INFINITI recommends that a dolly be used as illustrated when towing AWD models.

CAUTION

Never tow AWD models with any of the wheels on the ground as this may cause serious and expensive damage to the powertrain.

Vehicle Recovery (Freeing a Stuck Vehicle)

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FRONT

Securely install the vehicle recovery hook stored with jacking tools. Check that the hook is properly secured in the stored place after use.

WARNING:

- · Stand clear of a stuck vehicle.
- Never spin your tires at high speed. This could cause them to explode and result in serious injury. Parts of your vehicle could also overheat and be damaged.

CAUTION:

- Tow chains or cables must be attached only to the vehicle recovery hooks or main structural members of the vehicle. Otherwise, the vehicle body will be damaged.
- Never use the vehicle tie downs to free a vehicle stuck in sand, snow, mud, etc. Never tow the vehicle using the vehicle tie downs or recovery hooks.
- Always pull the cable straight out from the front of the vehicle. Never pull on the hook at an angle.
- Pulling devices should be routed so they never touch any part of the suspension, steering, brake or cooling systems.
- Pulling devices such as ropes or canvas straps are not recommended for use in vehicle towing or recovery.

REAR

WARNING:

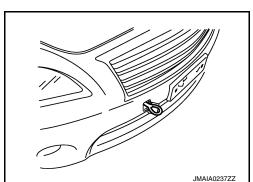
· Rear hook is not available.

AUTOMATIC TRANSMISSION

To tow a vehicle equipped with an automatic transmission, an appropriate vehicle dolly **MUST** be placed under the towed vehicle's drive wheels. **Always** follow the dolly manufacture's recommendations when using their product.

If the vehicle is stuck in sand, snow, mud, etc., use the following procedure:

- 1. Turn off the Vehicle Dynamic Control System.
- Check the area in front and behind the vehicle is clear of obstructions.



TOW TRUCK TOWING

< PRECAUTION >

- 3. Turn the steering wheel right and left to clear an area around the front tires.
- 4. Slowly rock the vehicle forward and backward. Shift back and forth between R (reverse) and D (drive). Apply the accelerator as little as possible to maintain the rocking motion. Release the accelerator pedal before shifting between R and D. Do not spin the tires above 35 mph (55 km/h).
- 5. If the vehicle can not be freed after a few tries, contact a professional towing service to remove the vehicle.

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IDENTIFICATION INFORMATION

< VEHICLE INFORMATION >

VEHICLE INFORMATION

IDENTIFICATION INFORMATION

Model Variation

FOR USA AND CANADA

IDENTIFICATION INFORMATION

< VEHICLE INFORMATION >

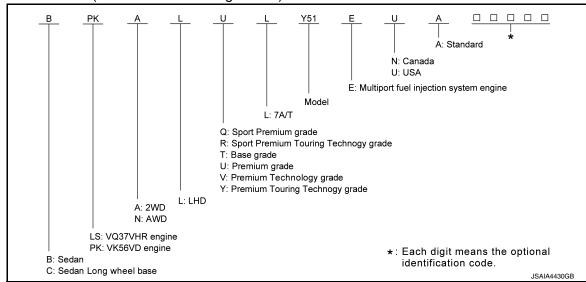
Destination	Body	Engine	Axle	Handle	Transmission	Grade	Model
						Premium	BPKALUL-EUA
			2WD			Premium Touring Technology	BPKALYL-EUA
		VIVECVID	2000			Sport Premium Touring Technology	BPKALRL-EUA
		VK56VD				Premium	BPKNLUL-EUA
			AWD			Premium Touring Technology	BPKNLYL-EUA
			AWD			Sport Premium Touring Technology	BPKNLRL-EUA
						Base	BLSALTL-EUA
	Sedan					Premium	BLSALUL-EUA
	Sedan		2WD			Premium Technology	BLSALVL-EUA
			ZVVD			Sport Premium	BLSALQL-EUA
		VQ37VHR				Sport Premium Touring Technology	BLSALRL-EUA
		VQ3/VTK				Base	BLSNLTL-EUA
USA					D 7A/T	Premium	BLSNLUL-EUA
			AWD			Premium Technology	BLSNLVL-EUA
			7,775			Sport Premium	BLSNLQL-EUA
						Sport Premium Touring Technology	BLSNLRL-EUA
	Sedan Long wheel base	0	2WD AWD			Premium	CPKALUL-EUA
						Premium Touring Technology	CPKALYL-EUA
				LHD		Premium	CPKNLUL-EUA
						Premium Touring Technology	CPKNLYL-EUA
			2WD			Base	CLSALTL-EUA
				_		Premium	CLSALUL-EUA
		\(\(\O\O\O\O\O\O\O\O\O\O\O\O\O\O\O\O\O\				Premium Technology	CLSALVL-EUA
		VQ37VHR	AWD			Base	CLSNLTL-EUA
						Premium	CLSNLUL-EUA
						Premium Technology	CLSNLVL-EUA
			2WD			5 .	BPKALUL-ENA
						Premium	BPKNLUL-ENA
		VK56VD	AWD			Premium Touring Technology	BPKNLYL-ENA
			AVVD			Sport Premium Touring Technology	BPKNLRL-ENA
	Sedan		2WD			Page	BLSALTL-ENA
Canada						Base	BLSNLTL-ENA
Canada		VQ37VHR				Premium	BLSNLUL-ENA
		. 201 1111				Premium Touring Technology	BLSNLYL-ENA
			AWD			Sport Premium Touring Technology	BLSNLRL-ENA
		VIVEO VD				Premium	CPKNLUL-ENA
	Sedan Long wheel base	VK56VD				December Territor Territoria	CPKNLYL-ENA
	Wilcoi Dase	VQ37VHR				Premium Touring Technology	CLSNLYL-ENA

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IDENTIFICATION INFORMATION

< VEHICLE INFORMATION >

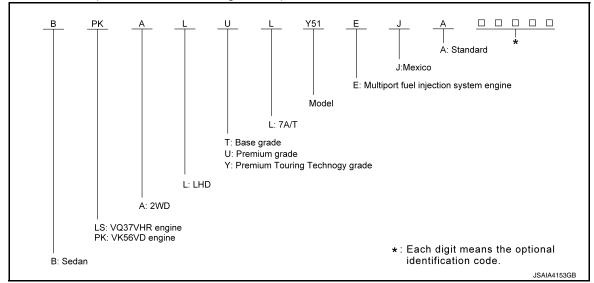
Model variation code (Prefix and suffix designations)



FOR MEXICO

Destination	Body	Engine	Axle	Handle	Transmission	Grade	Model
		VK56VD				Premium Touring Technology	BPKALYL-EJA
Mexico	Sedan	dan VQ37VHR	2WD	LHD	7A/T	Base	BLSALTL-EJA
		VQ3/VIIK				Premium	BLSALUL-EJA

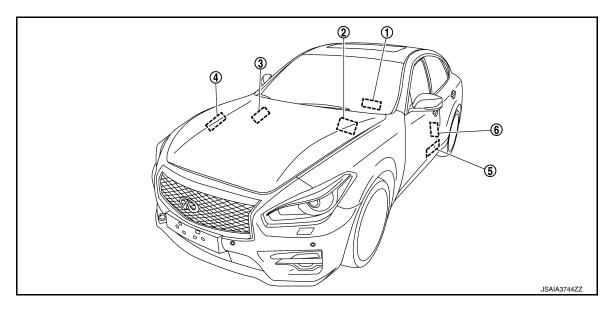
Model variation code (Prefix and suffix designations)



Information About Identification or Model Code

INFOID:0000000012353466

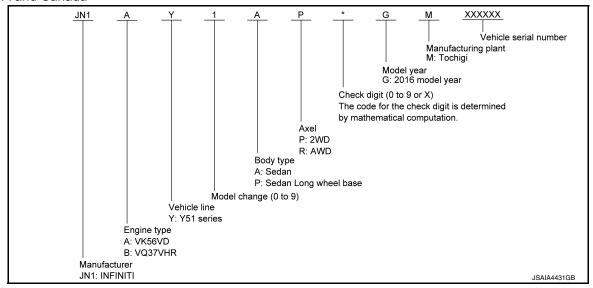
IDENTIFICATION NUMBER



- 1. Vehicle identification number plate
- 2. Air conditioner specification label
- 4. Emission control information label
- FMVSS certification label (For USA and Mexico) CMVSS certification label (For Canada)
- 3. Vehicle identification number (Chassis number)
- Tire and loading information label (For USA and Canada)
 Tire placade (For Mexico)

VEHICLE IDENTIFICATION NUMBER ARRANGEMENT

For USA and Canada



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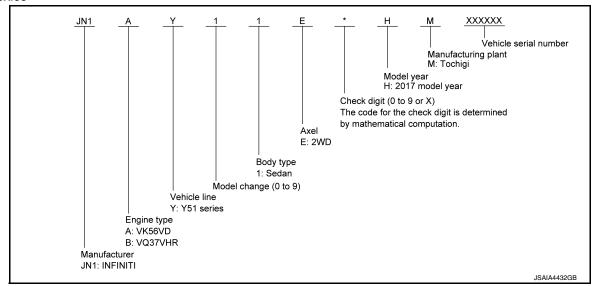
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IDENTIFICATION INFORMATION

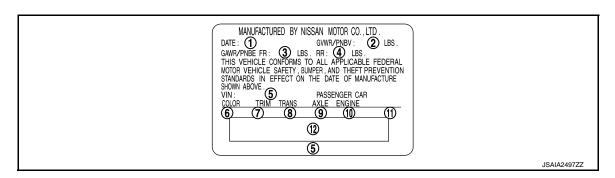
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For Mexico



CERTIFICATION LABEL

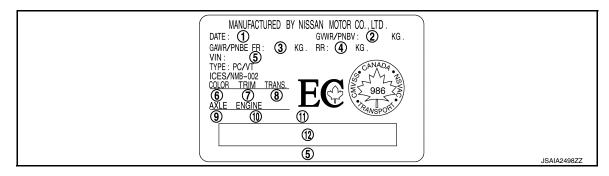
For USA and Mexico



- MFR Month/Year
- 4. Gross axle weight rating (Rear)
- 7. Trim color code
- 10. Engine model

- 2. Gross vehicle weight rating
- 5. Vehicle identification number
- 8. Transmission model
- 11. Engine displacement
- 3. Gross axle weight rating (Front)
- 6. Body color code
- 9. Axle model
- 12. Vin bar code

For Canada



- 1. MFR Month/Year
- 4. Gross axle weight rating (Rear)
- 7. Trim color code
- 10. Engine model

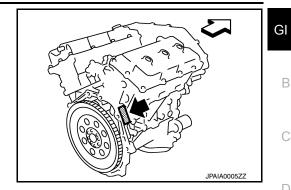
- 2. Gross vehicle weight rating
- 5. Vehicle identification number
- 8. Transmission model
- 11. Engine displacement
- 3. Gross axle weight rating (Front)
- 6. Body color code
- 9. Axle model
- 12. Vin bar code

ENGINE SERIAL NUMBER

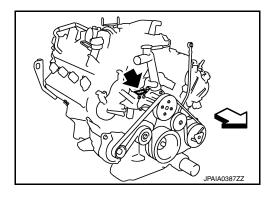
VQ37VHR

IDENTIFICATION INFORMATION

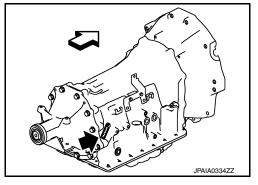
< VEHICLE INFORMATION >



VK56VD



AUTOMATIC TRANSMISSION NUMBER



Dimensions INFOID:0000000012353467

	Unit: mm (in
Overall length (with front license plate)	4,980 (196.1) ^{*1}
Overall length (with nont license plate)	5,130 (202.0) ^{*2}
Overall length (without front license plate)	4,970 (195.7) ^{*1}
Overall length (without front license plate)	5,120 (201.6) ^{*2}
Overall width	1,845 (72.6)
Overall height	1,500 (59.1) ^{*3}
Overall height	1,515 (59.6) ^{*4}
Front tread	1,575 (62.0)
Rear tread	1,570 (61.8) ^{*3}
Real treat	1,565 (61.6) ^{*4}
Wheelbase	2,900 (114.2) ^{*1}
Wheelbase	3,050 (120.1)* ²

^{*1:} Except for long wheelbase models

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^{*2:} Long wheelbase models

^{*3:} Two-Wheel Drive (2WD) models

IDENTIFICATION INFORMATION

< VEHICLE INFORMATION >

Wheels & Tires

		Tire		P245/50R18 99V
18 inch	Road wheel	Size	18 × 8J	
		(Aluminum)	Inset	43 mm (1.69 in)
Conventional		Tire		245/40R20 95W 245/40R20 95V
20 inch	20 inch	Road wheel	Size	20 × 9J
		(Aluminum)	Inset	43 mm (1.69 in)
Spare 18 inch	Tire		T165/80D17 104M	
	17 inch	Road wheel	Size	17 × 4T
		(Steel)	Inset	30 mm (1.18 in)
		Tire		T155/80D18 102M
	18 inch	Road wheel	Size	18 × 4T
		(Aluminum)	Inset	0 mm (0 in)

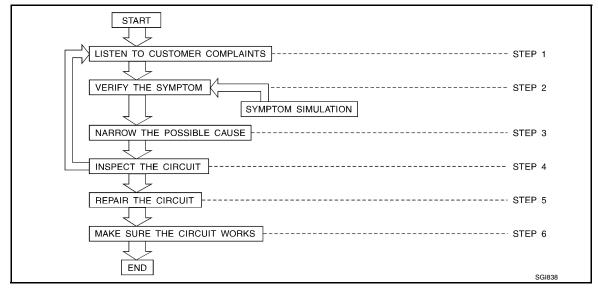
^{*4:} Intelligent All-Wheel Drive (AWD) models

BASIC INSPECTION

SERVICE INFORMATION FOR ELECTRICAL INCIDENT

Work Flow

WORK FLOW



STEP	DESCRIPTION								
	Get detailed information about the conditions and the environment when the incident occurred. The following are key pieces of information required to make a good analysis:								
	WHAT	Vehicle Model, Engine, Transmission/Transaxle and the System (i.e. Radio).							
STEP 1	WHEN	Date, Time of Day, Weather Conditions, Frequency.							
	WHERE	Road Conditions, Altitude and Traffic Situation.							
	HOW	System Symptoms, Operating Conditions (Other Components Interaction). Service History and if any After Market Accessories have been installed.							
STEP 2	Operate the system, road test if necessary. Verify the parameter of the incident. If the problem cannot be duplicated, refer to "Incident Simulation Tests".								
STEP 3	Get the proper diagnosis materials together including: Power Supply Routing System Operation Descriptions Applicable Service Manual Sections Check for any Service Bulletins Identify where to begin diagnosis based upon your knowledge of the system operation and the customer comments.								
STEP 4	Inspect the system for mechanical binding, loose connectors or wiring damage. Determine which circuits and components are involved and diagnose using the Power Supply Routing and Harness Layouts.								
STEP 5	Repair or replace the incident circuit or component.								
STEP 6	Operate the system in all modes. Verify the system works properly under all conditions. check you have not inadvertently created a new incident during your diagnosis or repair steps.								

Control Units and Electrical Parts

PRECAUTIONS

- · Never reverse polarity of battery terminals.
- Install only parts specified for a vehicle.
- Before replacing the control unit, check the input and output and functions of the component parts.
- Do not apply excessive force when disconnecting a connector.

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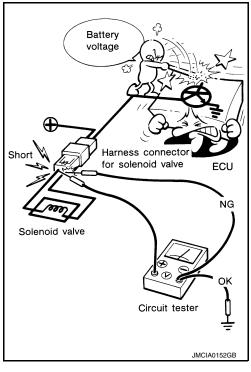
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< BASIC INSPECTION >

- Do not apply excessive shock to the control unit by dropping or hitting it.
- Be careful to prevent condensation in the control unit due to rapid temperature changes and do not let water or rain get on it. If water is found in the control unit, dry it fully and then install it in the vehicle
- Be careful not to let oil to get on the control unit connector.
- Avoid cleaning the control unit with volatile oil.
- Do not disassemble the control unit, and do not remove the upper and lower covers.



- When using a DMM, be careful not to let test probes get close to each other to prevent the power transistor in the control unit from damaging battery voltage because of short circuiting.
- When checking input and output signals of the control unit, use the specified check adapter.



How to Check Terminal

INFOID:0000000012353471

CONNECTOR AND TERMINAL PIN KIT

- Use the connector and terminal pin kits listed below when replacing connectors or terminals.
- The connector and terminal pin kits contain some of the most commonly used NISSAN/INFINITI connectors and terminals. For detailed connector and terminal pin replacement procedures, refer to the latest NISSAN/ INFINITI CONNECTOR AND TERMINAL PIN SERVICE MANUAL.

< BASIC INSPECTION >

Tool number (TechMate No.) Tool name	Description									
- (J38751-95NI) Connector and terminal pin kit (NISSAN) - (J38751-95INF) Connector and terminal pin kit (INFINITI) - (J42992-98KIT) OBD and terminal repair kit - (J42992-2000UPD)	J38751-95NI	J38751-95INF	J42992-98KIT	J42992-2000UPD						
OBD-II Connector Kit Up- date		WAIA0004E		WAIA0005E						

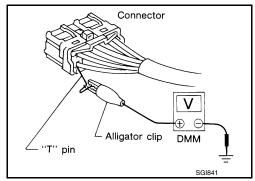
HOW TO PROBE CONNECTORS

- Connector damage and an intermittent connection can result from improperly probing of the connector during circuit checks.
- The probe of a digital multimeter (DMM) may not correctly fit the connector cavity. To correctly probe the connector, follow the procedures below using a "T" pin. For the best contact grasp the "T" pin using an alligator clip.

Probing from Harness Side

Standard type (not waterproof type) connector should be probed from harness side with "T" pin.

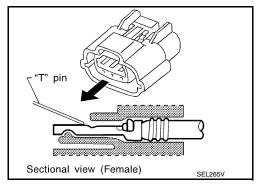
- If the connector has a rear cover such as a ECM connector, remove the rear cover before probing the terminal.
- Do not probe waterproof connector from harness side. Damage to the seal between wire and connector may result.



Probing from Terminal Side

FEMALE TERMINAL

 There is a small notch above each female terminal. Probe each terminal with the "T" pin through the notch.
 Do not insert any object other than the same type male terminal into female terminal.



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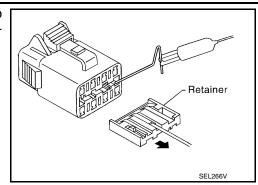
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 Some connectors do not have a notch above each terminal. To probe each terminal, remove the connector retainer to make contact space for probing.

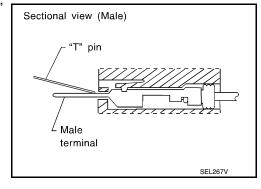


MALE TERMINAL

 Carefully probe the contact surface of each terminal using a "T" pin.

CAUTION:

Never bend terminal.

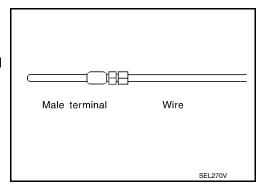


How to Check Enlarged Contact Spring of Terminal

- An enlarged contact spring of a terminal may create intermittent signals in the circuit.
- If the intermittent open circuit occurs, follow the procedure below to inspect for open wires and enlarged contact spring of female terminal.
- 1. Assemble a male terminal and approx. 10 cm (3.9 in) of wire. **NOTE:**

Use a male terminal which matches the female terminal.

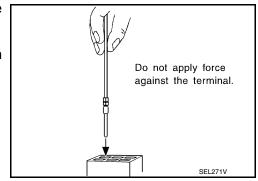
2. Disconnect the suspected faulty connector and hold it terminal side up.



3. While holding the wire of the male terminal, try to insert the male terminal into the female terminal.

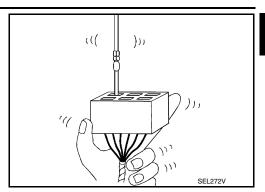
CAUTION:

Never force the male terminal into the female terminal with your hands.



< BASIC INSPECTION >

4. While moving the connector, check whether the male terminal can be easily inserted or not.



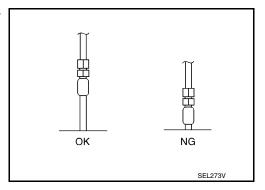
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If the male terminal can be easily inserted into the female terminal, replace the female terminal.



Waterproof Connector Inspection

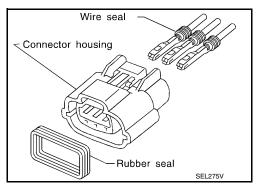
If water enters the connector, it can short interior circuits. This may lead to intermittent problems. Check the following items to maintain the original waterproof characteristics.

RUBBER SEAL INSPECTION

- Most waterproof connectors are provided with a rubber seal between the male and female connectors. If the seal is missing, the waterproof performance may not meet specifications.
- The rubber seal may come off when connectors are disconnected.
 Whenever connectors are reconnected, check the rubber seal is properly installed on either side of male or female connector.

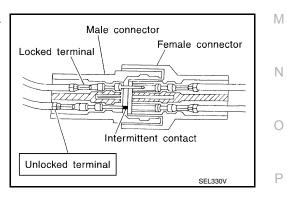
WIRE SEAL INSPECTION

 The wire seal must be installed on the wire insertion area of a waterproof connector. Be sure that the seal is installed properly.



Terminal Lock Inspection

Check for unlocked terminals by pulling wire at the end of connector. An unlocked terminal may create intermittent signals in the circuit.



Intermittent Incident

INFOID:0000000012353472

DESCRIPTION

Sometimes the symptom is not present when the vehicle is brought in for service. If possible, re-create the conditions present at the time of the incident. Doing so may help avoid a No Trouble Found Diagnosis. The fol-

< BASIC INSPECTION >

lowing section illustrates ways to simulate the conditions/environment under which the owner experiences an electrical incident.

The section is broken into the six following topics:

- Vehicle vibration
- Heat sensitive
- Freezing
- · Water intrusion
- · Electrical load
- Cold or hot start up

Get a thorough description of the incident from the customer. It is important for simulating the conditions of the problem.

VEHICLE VIBRATION

The problem may occur or become worse while driving on a rough road or when engine is vibrating (idle with A/C on). In such a case, you will want to check for a vibration related condition. Refer to the following illustration.

Connector & Harness

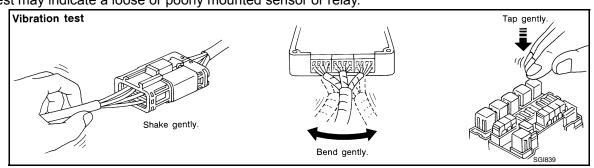
Determine which connectors and wiring harness would affect the electrical system you are inspecting. Gently shake each connector and harness while monitoring the system for the incident you are trying to duplicate. This test may indicate a loose or poor electrical connection.

Hint

Connectors can be exposed to moisture. It is possible to get a thin film of corrosion on the connector terminals. A visual inspection may not reveal this without disconnecting the connector. If the problem occurs intermittently, perhaps the problem is caused by corrosion. It is a good idea to disconnect, inspect and clean the terminals on related connectors in the system.

Sensor & Relay

Gently apply a slight vibration to sensors and relays in the system you are inspecting. This test may indicate a loose or poorly mounted sensor or relay.



Engine Compartment

There are several reasons a vehicle or engine vibration could cause an electrical complaint. Some of the things to check for are:

- · Connectors not fully seated.
- · Wiring harness not long enough and is being stressed due to engine vibrations or rocking.
- Wires laying across brackets or moving components.
- · Loose, dirty or corroded ground wires.
- Wires routed too close to hot components.

To inspect components under the hood, start by verifying the integrity of ground connections. (Refer to Ground Inspection described later.) First check that the system is properly grounded. Then check for loose connection by gently shaking the wiring or components as previously explained. Using the wiring diagrams inspect the wiring for continuity.

Behind the Instrument Panel

An improperly routed or improperly clamped harness can become pinched during accessory installation. Vehicle vibration can aggravate a harness which is routed along a bracket or near a screw.

Under Seating Areas

< BASIC INSPECTION >

An unclamped or loose harness can cause wiring to be pinched by seat components (such as slide guides) during vehicle vibration. If the wiring runs under seating areas, inspect wire routing for possible damage or pinching.

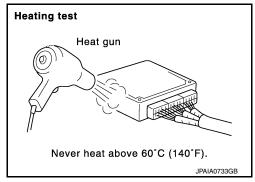
HEAT SENSITIVE

- The customer's concern may occur during hot weather or after car has sat for a short time. In such cases you will want to check for a heat sensitive condition.
- To determine if an electrical component is heat sensitive, heat the component with a heat gun or equivalent.

CAUTION:

Never heat components above 60°C (140°F).

 If incident occurs while heating the unit, either replace or properly insulate the component.



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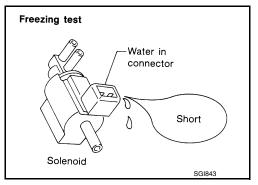
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FREEZING

- The customer may indicate the incident goes away after the car warms up (winter time). The cause could be related to water freezing somewhere in the wiring/electrical system.
- There are two methods to check for this. The first is to arrange for the owner to leave his car overnight. Check it will get cold enough to demonstrate his complaint. Leave the car parked outside overnight. In the morning, do a quick and thorough diagnosis of those electrical components which could be affected.
- The second method is to put the suspect component into a freezer long enough for any water to freeze. Reinstall the part into the car and check for the reoccurrence of the incident. If it occurs, repair or replace the component.

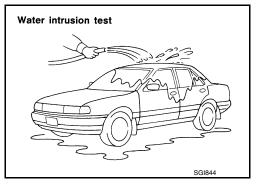


WATER INTRUSION

The incident may occur only during high humidity or in rainy/snowy weather. In such cases the incident could be caused by water intrusion on an electrical part. This can be simulated by soaking the car or running it through a car wash.

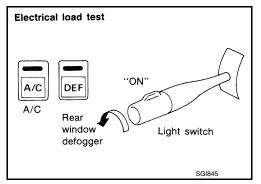
CAUTION:

Never spray water directly on any electrical components.



ELECTRICAL LOAD

The incident may be electrical load sensitive. Perform diagnosis with all accessories (including A/C, rear window defogger, radio, fog lamps) turned on.



COLD OR HOT START UP

On some occasions an electrical incident may occur only when the car is started cold, or it may occur when the car is restarted hot shortly after being turned off. In these cases you may have to keep the car overnight to make a proper diagnosis.

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< BASIC INSPECTION >

Circuit Inspection

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DESCRIPTION

- In general, testing electrical circuits is an easy task if it is approached in a logical and organized method. Before beginning it is important to have all available information on the system to be tested. Also, get a thorough understanding of system operation. Then you will be able to use the appropriate equipment and follow the correct test procedure.
- You may have to simulate vehicle vibrations while testing electrical components. Gently shake the wiring harness or electrical component to do this.

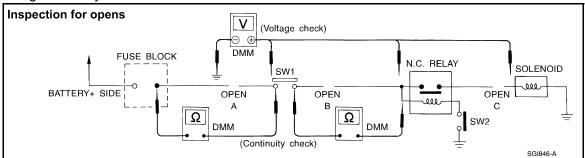
OPEN	A circuit is open when there is no co	ntinuity through a section of the circuit.
Т	There are two types of shorts.	
SHORT	SHORT CIRCUIT	When a circuit contacts another circuit and causes the normal resistance to change.
	SHORT TO GROUND	When a circuit contacts a ground source and grounds the circuit.

NOTE:

Refer to GI-42, "How to Check Terminal" to probe or check terminal.

TESTING FOR "OPENS" IN THE CIRCUIT

Before you begin to diagnose and test the system, you should rough sketch a schematic of the system. This will help you to logically walk through the diagnosis process. Drawing the sketch will also reinforce your working knowledge of the system.



Continuity Check Method

The continuity check is used to find an open in the circuit. The digital multimeter (DMM) set on the resistance function will indicate an open circuit as over limit (no beep tone or no ohms symbol). Check to always start with the DMM at the highest resistance level.

To help in understanding the diagnosis of open circuits, please refer to the previous schematic.

- Disconnect the battery negative cable.
- Start at one end of the circuit and work your way to the other end. (At the fuse block in this example)
- Connect one probe of the DMM to the fuse block terminal on the load side.
- Connect the other probe to the fuse block (power) side of SW1. Little or no resistance will indicate that portion of the circuit has good continuity. If there were an open in the circuit, the DMM would indicate an over limit or infinite resistance condition. (point A)
- Connect the probes between SW1 and the relay. Little or no resistance will indicate that portion of the circuit has good continuity. If there were an open in the circuit, the DMM would indicate an over limit or infinite resistance condition. (point B)
- Connect the probes between the relay and the solenoid. Little or no resistance will indicate that portion of the circuit has good continuity. If there were an open in the circuit, the DMM would indicate an over limit or infinite resistance condition. (point C)

Any circuit can be diagnosed using the approach in the previous example.

Voltage Check Method

To help in understanding the diagnosis of open circuits please refer to the previous schematic.

In any powered circuit, an open can be found by methodically checking the system for the presence of voltage. This is done by switching the DMM to the voltage function.

- Connect one probe of the DMM to a known good ground.
- Begin probing at one end of the circuit and work your way to the other end.
- With SW1 open, probe at SW1 to check for voltage. voltage: open is further down the circuit than SW1.

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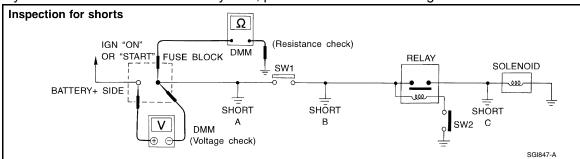
no voltage: open is between fuse block and SW1 (point A).

- Close SW1 and probe at relay.
 voltage: open is further down the circuit than the relay.
 no voltage: open is between SW1 and relay (point B).
- Close the relay and probe at the solenoid.
 voltage: open is further down the circuit than the solenoid.
 no voltage: open is between relay and solenoid (point C).

Any powered circuit can be diagnosed using the approach in the previous example.

TESTING FOR "SHORTS" IN THE CIRCUIT

To simplify the discussion of shorts in the system, please refer to the following schematic.



Resistance Check Method

- · Disconnect the battery negative cable and remove the blown fuse.
- Disconnect all loads (SW1 open, relay disconnected and solenoid disconnected) powered through the fuse.
- Connect one probe of the DMM to the load side of the fuse terminal. Connect the other probe to a known good ground.
- With SW1 open, check for continuity.
 continuity: short is between fuse terminal and SW1 (point A).
 no continuit: short is further down the circuit than SW1.
- Close SW1 and disconnect the relay. Put probes at the load side of fuse terminal and a known good ground.
 Then, check for continuity.
- continuity: short is between SW1 and the relay (point B).
- no continuity: short is further down the circuit than the relay.
- Close SW1 and jump the relay contacts with jumper wire. Put probes at the load side of fuse terminal and a known good ground. Then, check for continuity. continuity: short is between relay and solenoid (point C).

no continuity: check solenoid, retrace steps.

Voltage Check Method

- Remove the blown fuse and disconnect all loads (i.e. SW1 open, relay disconnected and solenoid disconnected) powered through the fuse.
- Turn the ignition switch to the ON or START position. Verify battery voltage at the battery + side of the fuse terminal (one lead on the battery + terminal side of the fuse block and one lead on a known good ground).
- With SW1 open and the DMM leads across both fuse terminals, check for voltage.
 voltage: short is between fuse block and SW1 (point A).
 no voltage: short is further down the circuit than SW1.
- With SW1 closed, relay and solenoid disconnected and the DMM leads across both fuse terminals, check for voltage.
 - voltage: short is between SW1 and the relay (point B).
 - no voltage: short is further down the circuit than the relay.
- With SW1 closed, relay contacts jumped with fused jumper wire check for voltage.
 voltage: short is down the circuit of the relay or between the relay and the disconnected solenoid (point C).
 no voltage: retrace steps and check power to fuse block.

GROUND INSPECTION

- Ground connections are very important to the proper operation of electrical and electronic circuits. Ground
 connections are often exposed to moisture, dirt and other corrosive elements. The corrosion (rust) can
 become an unwanted resistance. This unwanted resistance can change the way a circuit works.
- Electronically controlled circuits are very sensitive to proper grounding. A loose or corroded ground can drastically affect an electronically controlled circuit. A poor or corroded ground can easily affect the circuit. Even when the ground connection looks clean, there can be a thin film of rust on the surface.

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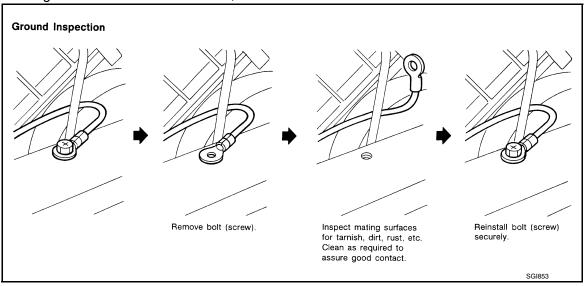
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< BASIC INSPECTION >

- When inspecting a ground connection follow these rules:
- Remove the ground bolt or screw.
- Inspect all mating surfaces for tarnish, dirt, rust, etc.
- Clean as required to assure good contact.
- Reinstall bolt or screw securely.
- Inspect for "add-on" accessories which may be interfering with the ground circuit.
- If several wires are crimped into one ground eyelet terminal, check for proper crimps. Check all of the wires are clean, securely fastened and providing a good ground path. If multiple wires are cased in one eyelet check no ground wires have excess wire insulation.
- For detailed ground distribution information, refer to "Ground Distribution" in PG section.



VOLTAGE DROP TESTS

- Voltage drop tests are often used to find components or circuits which have excessive resistance. A voltage
 drop in a circuit is caused by a resistance when the circuit is in operation.
- Check the wire in the illustration. When measuring resistance with DMM, contact by a single strand of wire will give reading of 0 ohms. This would indicate a good circuit. When the circuit operates, this single strand of wire is not able to carry the current. The single strand will have a high resistance to the current. This will be picked up as a slight voltage drop.
- Unwanted resistance can be caused by many situations as follows:
- Undersized wiring (single strand example)
- Corrosion on switch contacts
- Loose wire connections or splices.
- If repairs are needed always use wire that is of the same or larger gauge.

Measuring Voltage Drop — Accumulated Method

- Connect the DMM across the connector or part of the circuit you want to check. The positive lead of the DMM should be closer to power and the negative lead closer to ground.
- Operate the circuit.
- The DMM will indicate how many volts are being used to "push" current through that part of the circuit.

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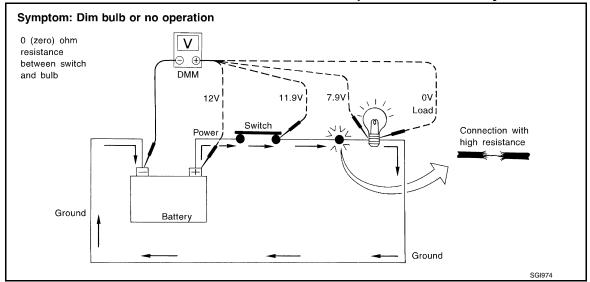
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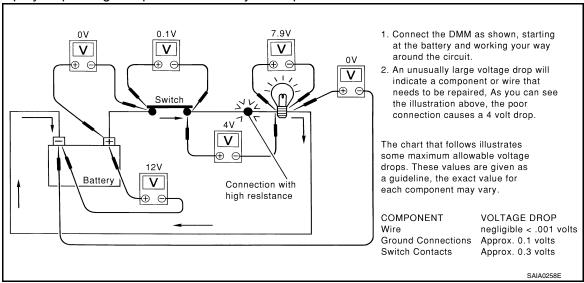
< BASIC INSPECTION >

Note in the illustration that there is an excessive 4.1 volt drop between the battery and the bulb.



Measuring Voltage Drop — Step-by-Step

- The step-by-step method is most useful for isolating excessive drops in low voltage systems (such as those in "Computer Controlled Systems").
- Circuits in the "Computer Controlled System" operate on very low amperage.
- The (Computer Controlled) system operations can be adversely affected by any variation in resistance in the system. Such resistance variation may be caused by poor connection, improper installation, improper wire gauge or corrosion.
- The step by step voltage drop test can identify a component or wire with too much resistance.

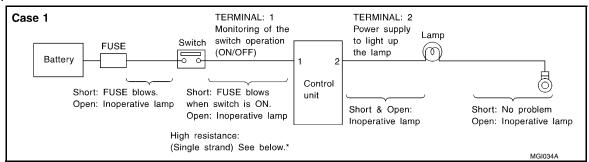


CONTROL UNIT CIRCUIT TEST

System Description

When the switch is ON, the control unit lights up the lamp.

CASE 1



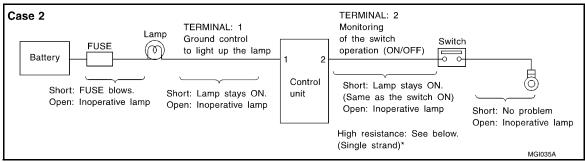
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< BASIC INSPECTION >

INPUT-OUTPUT VOLTAGE CHART Terminal No. Description In case of high resistance such as single Condition Value (Approx.) Input/ strand (V) * + Signal name Output Lower than battery voltage Approx. 8 (Ex-Switch ON Battery voltage Body ample) 1 Switch Input ground Switch OFF 0 V Approx. 0 Switch ON Battery voltage Approx. 0 (Inoperative lamp) Body 2 Lamp Output ground Switch OFF 0 V Approx. 0

- · The voltage value is based on the body ground.
- *: If high resistance exists in the switch side circuit (caused by a single strand), terminal 1 does not detect battery voltage. Control unit
 does not detect the switch is ON even if the switch does not turn ON. Therefore, the control unit does not supply power to light up the
 lamp.

CASE 2



INPUT-OUTPUT VOLTAGE CHART

Terr	ninal No.	Descrip	tion			In case of high resistance such as single
+	_	Signal name	Input/ Output	Condition	Value (Approx.)	strand (V) *
1	Body	Lamn	Output	Switch ON	0 V	Battery voltage (Inoperative lamp)
'	1 ground Lamp Outp		Output	Switch OFF	Battery voltage	Battery voltage
2	Body	Switch	Input	Switch ON	0 V	Higher than 0 Approx. 4 (Example)
	ground		прис	Switch OFF	5 V	Approx. 5

- · The voltage value is based on the body ground.
- *: If high resistance exists in the switch side circuit (caused by a single strand), terminal 2 does not detect approx. 0 V. Control unit does not detect the switch is ON even if the switch does not turn ON. Therefore, the control unit does not control ground to light up the lamp.

CONSULT/GST CHECKING SYSTEM

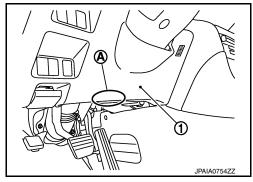
< BASIC INSPECTION >

CONSULT/GST CHECKING SYSTEM

Description INFOID:0000000012353474

 When CONSULT/GST is connected with a data link connector (A) equipped on the vehicle side, it will communicate with the control unit equipped in the vehicle and then enable various kinds of diagnostic tests.

- 1 : Instrument lower panel LH
- · Refer to "CONSULT Software Operation Manual" for more information.



INFOID:0000000012353475

CONSULT Function and System Application*1

FUNCTION

Mode	Function
All DTC Reading	Display all DTCs or diagnostic items that all ECUs are recording and judging.
Work Support	This mode enables a technician to adjust some devices faster and more accurately.
Self Diagnostic Results	Retrieve DTC from ECU and display diagnostic items.
Data Monitor	Monitor the input/output signal of the control unit in real time.
CAN Diagnosis	This mode displays a network diagnosis result about CAN by diagram.
CAN Diagnosis Support Monitor	It monitors the status of CAN communication.
Active Test	Send the drive signal from CONSULT to the actuator. The operation check can be performed.
ECU Identification	Display the ECU identification number (part number etc.) of the selected system.
Configuration	Function to READ/WRITE vehicle configuration.
SRT&P-DTC Confirmation	The state of System Readiness Test (SRT) items, the presence or absence of permanent DTC*, and driving conditions can be checked.
DTC work support	DTC reproduction procedure can be performed speedily and precisely.
Others	Other results or histories, etc. that are recorded in ECU are displayed.

^{*:} Permanent DTC is not applied for regions where it is not mandated.

SYSTEM APPLICATION*1

System	All DTC Reading	Work Support	Self Diagnostic Results	Data Monitor	CAN Diagnosis	CAN Diagnosis Support Monitor	Active Test	ECU Identification	Configuration	SRT&P-DTC Confirmation	DTC work support	Others
ENGINE	х	х	х	х	х	х	х	х	-	x*2	х	-
TRANSMISSION	х	х	х	х	х	х	-	х	-	-	х	CALIB DATA
AIR BAG	х	-	х	-	х	-	-	х	-	-	-	TROUBLE DIAG RECORD CAUSE OF WARNING LAMP
METER / M&A	х	-	х	х	х	х	-	-	-	-	-	Warning History

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System	All DTC Reading	Work Support	Self Diagnostic Results	Data Monitor	CAN Diagnosis	CAN Diagnosis Support Monitor	Active Test	ECU Identification	Configuration	SRT&P-DTC Confirmation	DTC work support	Others
AVM	Х	Х	Х	Х	Х	Х	-	Х	Х	-	-	-
ВСМ	Х	Х	Х	Х	Х	Х	Х	Х	Х	-	-	-
AUTO DRIVE POS.	Х	Х	Х	Х	Х	Х	Х	Х	-	-	-	-
ABS	Х	Х	Х	Х	Х	Х	Х	Х	-	-	-	-
IPDM E/R	Х	-	Х	Х	Х	Х	Х	Х	-	-	-	-
ICC/ADAS	Х	Х	Х	Х	х	Х	Х	х	Х	-	-	-
BSW/BUZZER	Х	-	Х	Х	Х	Х	Х	Х	-	-	-	-
AIR PRESSURE MONITOR	Х	Х	Х	Х	Х	Х	Х	Х	-	-	-	-
ALL MODE AWD/4WD	Х	-	х	х	х	Х	Х	х	-	-	-	-
MULTI AV	-	Х	Х	Х	х	Х	-	Х	Х	-	-	-
TELEMATICS	Х	Х	Х	Х	Х	х	-	Х	-	-	-	-
SONAR	Х	Х	Х	Х	Х	х	Х	Х	Х	-	-	-
PRECRASH SEAT BELT	Х	-	Х	Х	Х	х	-	Х	-	-	-	-
ADAPTIVE LIGHT	х	Х	х	Х	х	х	Х	Х	Х	-	-	-
HVAC	-	Х	Х	Х	Х	х	Х	Х	Х	-	-	-
SIDE RADAR LEFT	Х	-	х	х	х	х	Х	х	-	-	-	-
SIDE RADAR RIGHT	х	-	х	х	х	х	х	х	-	-	-	-
CAN GATEWAY	Х	-	х	-	х	х	-	х	х	-	-	-
LASER/RADAR	Х	х	х	х	х	х	-	х	-	-	-	-
LANE CAMERA	Х	х	х	х	х	х	-	х	-	-	-	-
ACCELE PEDAL ACT	Х	-	Х	х	х	х	Х	Х	-	-	-	-

x: Applicable

CONSULT/GST Data Link Connector (DLC) Circuit

INFOID:0000000012353476

INSPECTION PROCEDURE

If the CONSULT/GST cannot diagnose the system properly, check the following items.

Symptom	Check item
CONSULT/GST cannot access any system.	CONSULT/GST DLC power supply circuit (Terminal 8 and 16) and ground circuit (Terminal 4 and 5)
CONSULT cannot access individual system. (Other systems can be accessed.)	 Power supply and ground circuit for the control unit of the system (For detailed circuit, refer to wiring diagram for each system.) Open or short circuit between the system and CONSULT DLC (For detailed circuit, refer to wiring diagram for each system.) Open or short circuit CAN communication line. Refer to LAN-27, "Trouble Diagnosis Flow Chart".

NOTE:

The DDL1 and DDL2 circuits from DLC pins 12, 13, 14 and 15 may be connected to more than one system. A short in a DDL circuit connected to a control unit in one system may affect CONSULT access to other systems.

^{*1:} If GST application is equipped, functions in accordance with SAE J1979 and ISO 15031-5 can be used.

^{*2:} Permanent DTC is not applied for regions where it is not mandated.

CONSULT/GST CHECKING SYSTEM

< BASIC INSPECTION >

If the GST cannot operate properly, check the circuit based on the information of SAE J1962 and ISO 15031-3.

Wiring Diagram - CONSULT/GST CHECKING SYSTEM -

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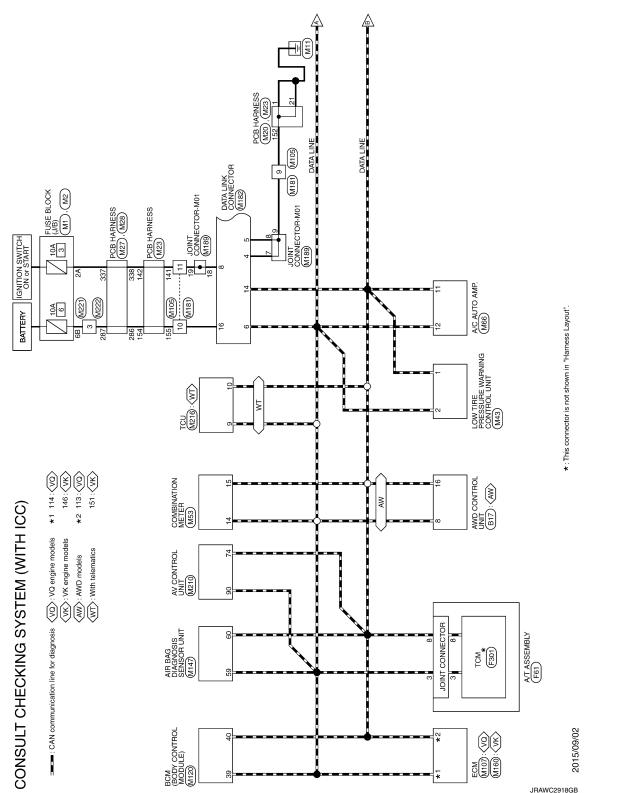
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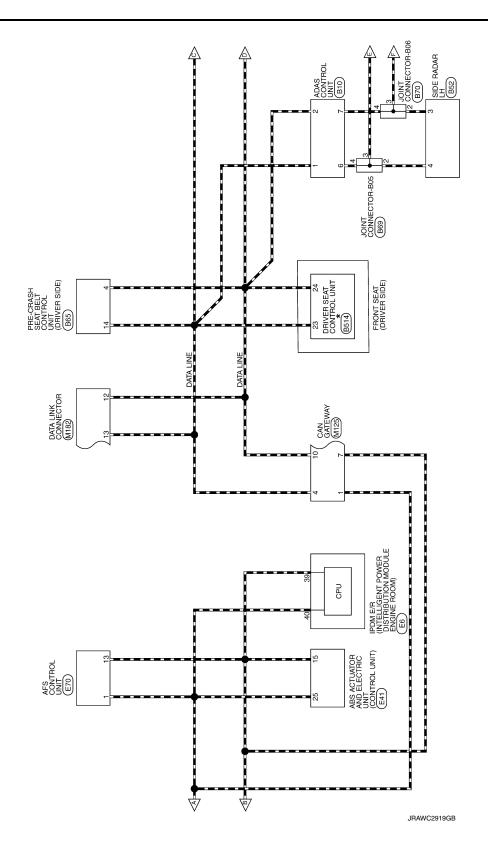
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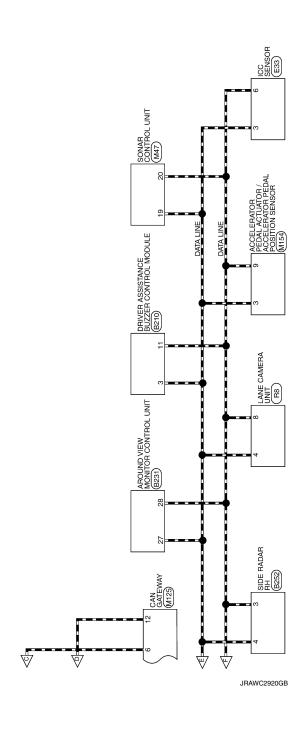
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Connector No. B10 Connector Name ADAS CONTROL UNIT	16	G BATTERY POWER SUPPLY Connector No. B69 P CAN-L Connector Name JOINT CON	B69 JOINT CONNECTOR-B05	Connector No.	ě	B210 DRIVER ASSISTANCE BUZZER CONTROL MODULE
Connector Type TH24FW-NH		Connector Type TK04FW-J	7	Connector Type	П	TH16FW-NH
	Connector No.	Connector No. B52		Œ		
H.S. [12] [7] 6 5 2 1	Connect	П	1 4 3 2 1	E		8 2 3 1
	修					\exists
lar C	4	Terminal C	Signal Name (Specification)	la	Color Of	Signal Name [Specification]
No. Wire		No. Wire		V	Wire	NOLING
2 R CAN-L		3 2		- 6	D _	ITS COMM-H
5 B/R GROUND	Terminal	כ	-	S	B/R	GROUND
6 L ITS COMM-H	No.	Wire		œ <u>:</u>	œ >	WARNING BUZZER SIGNAL
12 GR IGNITION	3 6			13	B/R	GROUND
17 SB BRAKE HOLD RLY DRIVE SIGNAL	4	ITS COMM-H	OINT CONNECTOR-BOG	16	g	WARNING BUZZER SIGNAL GROUND
18 Y WARNING SYSTEMS SW 19 O WARNING SYSTEMS ON IND	u e	VENTION INDICATOR Connector Type				
BB o	,			Connector No.	4o. B231	31
	Connector No.	To less		Connector Name		AROUND VIEW MONITOR CONTROL UNIT
Connector No. 817	Connect	٩	1 4 3 2 1	Connector Type	П	TH40FW-NH
Connector Name AWD CONTROL UNIT	Connect	1		E		
Connector Type TH16FW-NH	ą			Į.	L	
E	- F	la l	Signal Name (Specification)		1	3 28 30 32 8 30 30 30 30 30 30 30 30 30 30 30 30 30
		2 4 6	,]	
		19 10 12 14 1617 20				
9 10 11 13 15 16		4 P		Terminal C	Color Of Wire	Signal Name [Specification]
	Terminal	al Color Of Sinnal Mama (Snavification)		1	B/R	GROUND
) al	No.	Wire ognorwanie (specimeatori)		2	>	BATTERY POWER SUPPLY
	2	G 0UT1		E	×	IGNITION SIGNAL
1 BR AWD SOL (+) 2 R AWD SOL (-)	4 9	R CAN LO		4 11	> 8S	AV COMMUNICATION SIGNAL (H)
3 W FLUID TEMP (-)	10			20	91	AV COMMUNICATION SIGNAL (L)
7 Y IGN	12	B 0UT2		25	В	REVERSE SIGNAL
-	14	L CAN HI		27	_	CAN-H
9 SB AWD SOL BAT	19	Y LOCAL_COMM_1		28	α >	CAN-L [Without ADAS]
8/4	19			8	SB	RETRACT MOTOR OPERATION SIGNAL (OPEN)
LG FLUI	50	B MOTOR GND		32	П	RETRACT MOTOR OPERATION SIGNAL (CLOSE)

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Connector No.	No. 8252		25	0/9	IND 1	Conne	Connector No.	E33	20	0	Fr-LH SEN(POWER)	
Connector Name	He dy dy d 2013		56	0/1	IND 2	1	Connector Masso	dO3N23331	52	7	CAN-H	
COILLECTO			27	^	ADDRESS 1		allipa ion	ICC 3EI/3OR	28	^	VAC SEN(POWER)	
Connector Type	Type AAC06FB-WP		28	N/N	ADDRESS 2	Conne	Connector Type	AAZ08FB	30	В	VDC OFF SW	
(29	1	SETSW				32	SHIELD	VAC SEN(GND)	
ß			30	BR	PULSE(TILT)	B	_		34	9	IGN(POWER)	
Ě	9	لِ	31	BR/W	PULSE(TELESCOPIC)	, I	,					
2		٤	32	W/L	UART (TX/RX)		5					
	1 2 3 4	<u> </u>	33	М	POWER SUPPLY (ENCODER)			9 8	Connector No.	o. E70		
)							Connector Name		AFS CONTROL UNIT	
			Conne	Connector No	33				Connector Tuno	Ť	THE PERSON NAMED OF THE PE	
			5	CCO INC.	99				COLLIGERIO	1	LW-WI	
No	Wire Signal Name [Specification]	oecification]	Conne	Connector Name	IPDM E/R-(INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	lermina No	Wire	Signal Name [Specification]	Œ			
-	BIGHT/JEFT SWITCHING SIGNAL	CHINGSIGNAL	Conne	Connector Type	THOREW-NH	-	t	NOILINGI	卖	Į	/ / \ 	
,	-	No.				"	-	ITS COMM'H	2	-	0 2 2	
			ą <u>E</u>	•		,	,	- ANNOO SE		<u> </u>	0	
1	T. IIS COMMIN-E	J-IMI-F	季		K	٩	+	IIS CONINGE		13	10 21222324	
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٥,	IGNI I I ON	ON		3	42 41 40 39							
۵	BR BLIND S/OI WARNING/BLIND S/OI	DI INTERVENTION INDICATOR			04 77 67				-			
					40 42 44 43	Conne	Connector No.	E41	le (Color Of	Signal Name [Specification]	
						Conne	Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)	No.	Wire		
Connector No.	No. B514								1	٦	CAN-H	
Connector Name	Name DBIVER SEAT CONTROL LINIT	±II.	Termina	nal Color Of	Simple Manuel Consideration	Conne	Connector Type	SAZ30FB-SJZ4-U	е	GR	AFS SWITCH SIGNAL	
			No.	Wire	officer realise (obscurrence)	C			9	٨	HEIGHT SENSOR SIGNAL	
Connector Type	Type TH32FW-NH		39	Ь	CAN-L	B	_		00	*	SWIVEL ACTUATOR LIN SIGNAL	
			40	_	CAN-H			7 25 28 30 32 34 4 T	11	8	GROUND	
E			41	8	S-GND	1	á	15 16 17 18 19 20	12	g	IGNITION POWER SUPPLY	
Į	<u> </u>	17	42	>	MOTOR_FAN_RLY_CONT [With VK56 engine]			, ·	13	Ь	CAN-L	
Ż.	Ш	20 25	42	>	MOTOR FAN RLY CONT [With VO37 engine]			5 6 7 8 9 10 13 3	19	BR	SWIVEL ACTUATOR GROUND	
	23 32 20 31 28 26 11 13 17 15 33	27 / 15 33	43	- BS	DETENT SW				21	>	HEIGHT SENSOR POWER SUPPLY	
	24 19 22 21 30 27 25 12 14 18 16 29	1 18 16 29	44	╁	HORN RLY [With VK56 engine]				22	SB	AIMING MOTOR DRIVE SIGNAL	
			44	╀	HORN BLY [With VO37 engine]	Terminal	nal Color Of		23	9	HEIGHT SENSOR GROUND	
			45	╁	HORN SW	S		Signal Name [Specification]	24		AIMING MOTOR GROUND	
Terminal	Color Of		46	ł	START CONT	-	BAW	ECHIGNDI				
	Wire Signal Name [Specification]	oecification]		1		1		MOTORIGND				
11	G/B SLIDE SW / BACKWARD	CKWARD)				6	>	SOLENOID/POWER)				
12		/URW/ARD				4		MOTOR/POW/FR				
1 5	2	3ACKWARD)				4	95	WS dWB I dULS				
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ž !		LOVERNO)					- -	CARINIZ(*)				
13	*	DOWNWARD)				1	> <	Rr-LH SEN(SIGNAL)				
16	4	V (UPWARD)				00	+	Rr-LH SEN(POWER)				
17	Ξ.	(DOWNWARD)				o o	ä	Fr-RH SEN(SIGNAL)				
18	LG/R FRONT LIFTER SW (UPWARD)	W (UPWARD)				10	8	Fr-RH SEN(POWER)				
19	G/Y PULSE (SLIDE)	(IDE)				13	PT	VAC SEN(SIGNAL)				
20	R/Y PULSE (RECLINER)	CLINER)				15	d	CAN-L				
21	Y PULSE (REAR LIFTER)	R LIFTER)				16	8	CANM2(+)				
22	R PULSE (FRONT LIFTER)	JT LIFTER)				17	٨	Rr-RH SEN(SIGNAL)				
23	P CAN-H	Ξ.				18	BR	Rr-RH SEN(POWER)				
24	P/L CAN-L					19	┞	Fr-LH SEN(SIGNAL)				

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CONSULT CHECKING SYSTEM (WITH ICC) Connector No. F61	C) Connector No. M1	Connector No.	M20	Connector No.	M23
Connector Name A/T ASSEMBLY	Connector Name FUSE BLOCK (J/B)	Connector Name PC	PCB HARNESS	Connector Name	PCB HARNESS
Connector Type RK10FG-DGY	Connector Type NS06FW+M2	Connector Type Th	TH40FB-NH	Connector Type	TH40FW-NH
1		1		Œ	
11.5 (10.9) 8 7 6	34 <u>22</u> 41A 84 <u>64584A</u>	S.		E.S.	
Ferminal Color Of Signal Name [Specification]	Terminal Color Of Signal Name [Specification]	Terminal Color Of	Signal Name [Specification]	Terminal Color Of	Of Signal Name [Specification]
- ×	+	+		121 R	
2 R POWER SUPPLY (BACK UP)	2A W	2 B		122 V	
3 L CAN:H	3A Y .	з у		Н	
4 V K-LINE	4A W	4 6		124 BG	
	+	+		+	
1		+	,	+	
SB BACK-UP LAMIP RELAY	%A →	11 BK		132 [6	
9 BB P/NSIGNAL		15 B		134	
╁	Connector No. M2	16 SHIELD		135 P	,
	(a) 1) X2O (a 33113 comply and a comply a comply and a comply a comply and a comply	17 R		136 P	
		18 P		137 Y	
Connector No. F301	Connector Type NS10FW-CS	19 W		138 L	
Connector Name TCM	ģ	21 B		Н	
┑		22 R	- [With ICC]	+	
Connector Type SP10FG	I BISING THE	22 Y	- [Without ICC]	4	
€	₽	+	- [With ICC]	+	
Artin Artin	88 88 78 68 58	23 SB	- [Without ICC]	146 LG	
		1 #7		+	
((1 2 3 4 5))		31 ^		+	
(0) 8 8 2 10	Terminal Color Of	33 ^		151 L	
	No. Wire Signal Name (Specification)	35 1		152 B	
	18 R	36 P		153 W	
lal C	38 Р	38		154 W	
No. Wire	48 G	40 Y		155 W	
1 - VIGN	88			157 W	
2 - BATT	68 W - [With VQ37 engine]			158 R	•
3 . CAN-H	6B Y - [With VK56 engine]			159 R	
4 - KLINE	78 Y -			160 SB	
5 - GND	88 R				
e - vign	98 R				
-					
START RLY					
10 - GND					

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CONSULT CHECKING SYSTEM (WITH ICC)
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		12 24 28 10 12 24 28 10 12 28 28 28 28 28 28 28	В
	SONAR CONTROL UNIT	Signal Name (Spe Signal	С
onnector No. 10147	nector Name	Connector Type Th242479 Terminal Color Of No. Wire No.	D
1			Е
	LOW TIRE PRESSURE WARNING CONTROL UNIT		F
NO. IN43	\neg		G
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	-	M728 H4ARW H4ARW HAD BEE BEE BEE BEE BEE BEE BEE BEE BEE BE	J
370		Connector No. Connector Name Connector Type Connector Type Sample Samp	K
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O 8 6 0 1	JSULT C	CONSULT CHECKING SYSTEM (WITH ICC) 3	13 17 23 24	> 8 3 -	ACC POWER SUPPLY EVEC YORWING JEGNAL DRIVE MODE SELECT SW (SNOW) DRIVE MODE SELECT SW (SNOW)	Connector No. Connector Name		M107 ECM RH24FGY-R28-R-RH-Z	Connector No. Connector Name		M120 BCM (BODY CONTROL MODULE) TH40FB-NH
11 14 14	- 8 - 6	TRIP RESET SWITCH SIGNAL GROUND CAN-H CAN-H CAN-I	25	Ø >-	DRIVE MODE SELECT SW (STANDARD) DRIVE MODE SELECT SW (SPORT)	₽ HS.	1	00 100 180 180 1 1 1 1 1 1 1 1 1 1 1 1 1	優 SH		
16 17 18 23	. « O > m	AIR BAG SIGNAL LED HEADLAMP (RH) WARNING SIGNAL LED HEADLAMP (LH) WARNING SIGNAL GROUND	Connector No. Connector Name Connector Type	r No. r Name	MJOS WIRE TO WIRE TH40FW-NH			128 127 114 115 118 118 118 118 118 118 118 118 118		. [6]	1 2 3 4 5 5 8 9 11 1 14 16 17 18 18 20 11 12 18 18 20 18 18 18 18 18 18 18 18 18 18 18 18 18
24	8 ×	FUEL LEVEL SENSOR GROUND ALTERNATOR SIGNAL	E			Terminal No.	Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]
26	> >	PARKING BRAKE SWITCH SIGNAL BRAKE FLUID LEVEL SWITCH SIGNAL	HS			98	œ >-	ACCELERATOR PEDAL POSITION SENSOR 1 ACCELERATOR PEDAL POSITION SENSOR 2	1 2	98	RR WINDOW DEFG RLY CONT COMBI SW INPUT 5
28	o -	SECURITY SIGNAL WASHER LEVEL SWITCH SIGNAL			40 39 38 37 38 38 34 33 32 31 30 28 38 75 28 58 42 22 21	96	o ≥	STINSOR POWER SUPPLY (ACCELERATOR PEDAL POSITION SENSOR 1) SENSOR GROUND LACCEL PRATOR PEDAL POSITION SENSOR 11	Е 4	8 -	COMBLSW INPUT 4
32	ی د	PADDLE SHIFTER SHIFT DOWN SIGNAL				101	. 8s	ASCD STEERING SWITCH		ט	COMBI SW INPUT 2
33	BG	PADDLE SHIFTER SHIFT UP SIGNAL	Termina	Color Of		102	۵ -	FUEL TANK PRESSURE SENSOR STINGUE FOUNDER SUPERIOR BRATCH BRATCH FRANCE POLITION STREEDS	9 8	d A	COMBI SW INPUT 1
32	*	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)	No.		Signal Name [Specification]	104	, 8	SENSOR GROUND [Without ICC]	0	۵.	STOP LAMP SW 1
36	9	PASSENGER SEAT BELT WARNING SIGNAL	2	Я		104	BR	SENSOR GROUND [With ICC]	11	Я	RAIN SENSOR SERIAL LINK
37	σ >	NON-MANUAL MODE SIGNAL MANUAL MODE SHET DOWN SIGNAL	m ir	an 😉	, ,	105	9 0	FILEL TANK TEMPERATI IRE SENSOR	14	> 5	OPTICAL SENSOR
3 8	-	MANUAL MODE SHIFT UP SIGNAL	9	3 -		107	- 8	AVCC2 PDPRES/FTPRES	17	3 >	SENSOR PWR SPLY
40	Α	MANUAL MODE SIGNAL	7	۔		108	٨	GND ASCD SW	18	8	RECEIVER / SENSOR GND
			∞	۵		109	BR	TRANSMISSION RANGE SWITCH	19	>	TURN SIG RH OUTPUT (FRONT)
			6	œ	-	110	>	ENGINE SPEED SIGNAL OUTPUT	20	9	TURN SIG LH OUTPUT (FRONT)
Connector No.	tor No.	M66	10	> 3		112	> 0	GNDA PDPRES/FTPRES	21	3 م	NATS ANT AMP.
Connec	Connector Name	A/C AUTO AMP.	12	× 88		114	۰ ـ	CAN COMMUNICATION LINE	23	¥ 0	SECURITY IND CONT
Connec	Connector Type	TH20FW-TB6	14	SB		117	>	DATA LINK CONNECTOR	24	7	DONGLE LINK
þ			15	BR		121	9	EVAP CANISTER VENT CONTROL VALVE	25	9	NATS ANT AMP.
图			16	>		122	۵	STOP LAMP SWITCH	26	9	I-KEY IDENTIFICATION
7.10			18	o		123		ECM GROUND	29	9	HAZARD SW
	•	6 7	23	98 a		124	m 95	POWER SUIPPLY FOR FOM	30	0 >	DR DOOR LINK SEW
		07 07 67 67 1	25	*		126	BR	ASCD BRAKE SWITCH	32	BR	COMBI SW OUTPUT 5
			30	œ		127	8	ECM GROUND	33	æ	COMBI SW OUTPUT 4
			31	BR	•	128	8	ECM GROUND	34	۸	COMBI SW OUTPUT 3
Termin	- e	Simal Nama (Specification)	32	_					35	>	COMBI SW OUTPUT 2
No.	Wire	ognativanie jopecinicationi	33	Ь	•				36	91	COMBI SW OUTPUT 1
1	٦	BATTERY POWER SUPPLY	34	91					37	Я	P POSITION
2	W	IGNITION POWER SUPPLY	32	W	•				39	٦	CAN-H
9	В	BLOWER MOTOR F/B SIGNAL	36	97					40	d	CAN-L
7	7	POWER TRANSISTOR CONTROL SIGNAL	37	٦							
9 ;	4	GROUND									
4	٠.	CAN-L									
12	_	CAN-H									

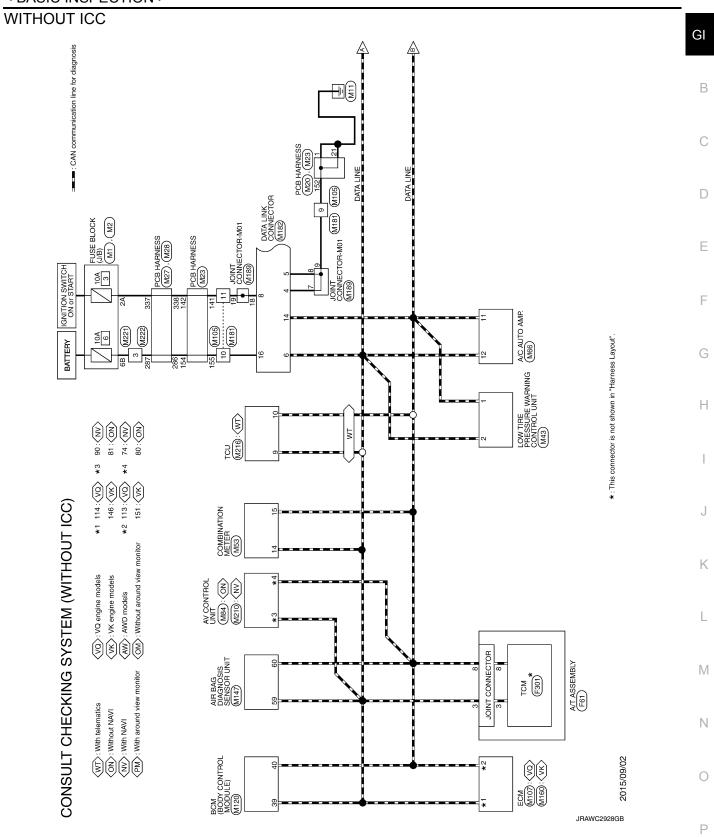
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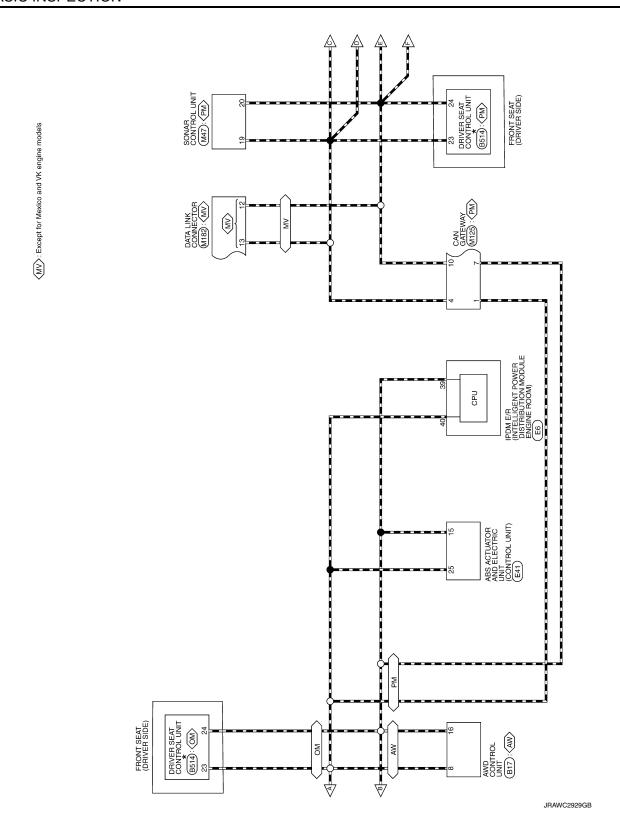
CONSULT CHECKING SYSTEM (WITH ICC)

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### ECAG GROUND ###################################	С
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	Е
MIRECTOR BOWER SUPPLY FOR RECOMMUNICATION IN PRESSURE SENDING MONTHS AND SUPPLY	F
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23 8 8 5 5 5 5 5 5 5 5	K
Signal Name (Specification) Signal Name (Spe	L
MATAPANANA MATAPANANANA MATAPANANA MATAPANANANANA MATAPANANA MATAPANANANA MATAPANANANA MATAPANANANA MATAPANANA	M
Connector Name Colonector Type Connector Type Con	N
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Connector No. M222 Connector Name WIRE TO WIRE			H.S.	6 6	الالكا		Terminal Color Of Signal Name [Specification]	$^{+}$	2 R	3 ү		ſ	Т	Connector Name LANE CAMERA UNIT	Connector Type TH08FW-NH	1			4	0 0	,		Terminal Color Of	e	8		5 B GROUND	១ >											
Connector No. M216 Connector Name TCU		•	115.	13579 19213 35			Terminal Color Of Signal Name [Specification]	+	2 B GROUND	7 88	M .	S V ACCOUTPUT		GNOONS - 6	, a	9	В	SHIELD	. c	+	34 G SOSCALL SWITCH SIGNAL	88	-		Connector No. M221	Connector Name WIRE TO WIRE	┰	7			13.	3 3	76			Terminal Color Of Signal Name [Specification]	+	2 R	3 W
H	+	19 LG		Connector No. M210	Connector Name AV CONTROL UNIT	Connector Type TH32FW-NH	Œ		5.1. Set S	82 83 84 87 88	╢		Tourstool		t	w W	W		d. 1111	7	73 BB COMM (CONTSDISP)	d.	75 LG AV COMM (L)	91	SB	×	81 BG REVERSE SIGNAL	2000	B COMPOSITE	В	SHIELD	89 Y COMM (DISP->CONT)		SB	92 SB AV COMM (H)				
CONSULT CHECKING SYSTEM (WITH ICC) Connector No. M182 Connector Name DATALINK CONNECTOR			H.S.		100		Terminal Color Of Signal Name [Specification]	91		8		> :	91 0	12 B CAN-1	╀	-	16 W POWER		1	CONTINUE IND.	Connector Name JOINT CONNECTOR-M01	Connector Type NH20FL-DC	1		Ė	C / 8 8	20 19 18 15 13 12 11 10			Terminal Color Of Simual Nama (Spacification)	No. Wire agnativante [aprecincation]	1 8	2 B .	3 B	. 8 s	7 BB	+	╀	11 B ·

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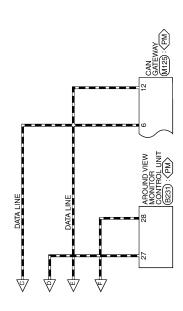
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CONSULT	CONSULT CHECKING SYSTEM (WITHOUT ICC)	()).									
Connector No.	817	28	В	CAN-L [Without ADAS]	Connector No.	No. E6		10	В	Fr-RH SEN(POWER)	
Connector Name	AWD CONTROL LINIT	28	>	CAN-L [With ADAS]	Connector Name		IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE	13	PI	VAC SEN(SIGNAL)	
		30	SB	RETRACT MOTOR OPERATION SIGNAL (OPEN)			DM)	15	Ь	CAN-L	
Connector Type	TH16FW-NH	32	Ь	RETRACT MOTOR OPERATION SIGNAL (CLOSE)	Connector Type		TH08FW-NH	16	В	CANM2(+)	
4					4			17	^	Rr-RH SEN(SIGNAL)	
B					修		K	18	BR	Rr-RH SEN(POWER)	
٦.	<u></u>	Connector No.		B514	ě		1	19	SB	Fr-LH SEN(SIGNAL)	
Ĉ.	1 2 3 7 8	Connector Name		DRIVER SEAT CONTROL LINIT	2		42 41 40 39	20	0	Fr-LH SEN(POWER)	
	٥ 7	COLLIECTO		DINACIO CONTROCTORIO			2000	52	7	CAN-H	
	9 10 11 13 15 16	Connector Type		TH32FW-NH			46 45 44 43	28	۸	VAC SEN(POWER)	
		ı						30	œ	VDC OFF SW	_
								32	SHIELD	VAC SEN(GND)	
Terminal Color Of	Signal Name (Specification)	Ę			Terminal	Color Of	Signal Name (Specification)	34	9	IGN(POWER)	
No. Wire	ognania lopecincanoni	2		23 29 30 34 34 34 34 34 34 34 34	No.	Wire	olgia ivanie Ispecintationi				
1 BR	AWD SOL (+)			24 40 22 24 30 27 35 42 44 48 48 30	39	۵	CAN-L				
2 R	AWD SOL (-)		-1	41 10 EST 10 EST 20 EST 20 EST 10 EST	40	_	CAN-H	Connector No.		F61	
3	FLUID TEMP (-)				41	<u>-</u>	S-GND	Connect	Connector Name	A/T ASSEMBLY	
۷ .	IGN				42	>	MOTOR_FAN_RLY_CONT [With VK56 engine]		П	,	
8	CAN-H	Terminal Color Of	Color Of	Signal Name [Specification]	42	\dashv	MOTOR_FAN_RLY_CONT [With VQ37 engine]	Connector Type	٦	RK10FG-DGY	
9 SB	AWD SOL BAT	No.	Wire		43	SB	DETENT_SW	þ		<	
10 B/Y	GND	11	G/B	SLIDE SW (BACKWARD)	44	GR	HORN_RLY [With VK56 engine]	B		≪	
11 B/Y	GND	12	M/9	SLIDE SW (FORWARD)	44	97	HORN_RLY [With VQ37 engine]	Ę			
13 LG	FLUID TEMP (+)	13	B/G	RECLINER SW (BACKWARD)	45	9	HORN_SW	?	_	6/13/2	
15 6	BATTERY POWER SUPPLY	14	R/W	RECLINER SW (FORWARD)	46	HB.	START_CONT			7	
16 P	CAN-L	15	8/A	REAR LIFTER SW (DOWNWARD)						10 2 8 4 6 0 2	
		16	Y/R	REAR LIFTER SW (UPWARD)							
		17	16/8	FRONT LIFTER SW (DOWNWARD)	Connector No.	No. E41	1				
Connector No.	B231	18	LG/R	FRONT LIFTER SW (UPWARD)	Connector Name	Г	ANS ACTIVATOR AND SISCIPLIC HANT COOMFOUL HAND	Terminal	Il Color Of	Signal Name [Specification]	_
Connector Name	TIMI 108DMCO GOTIMON MEDIN ON LOGA	19	K/9	PULSE (SLIDE)				No.	Wire	organization (openication)	
Collifector Mallie	ANODAIO VIEW INCINITOR CONTROL OWIL	20	Ϋ́	PULSE (RECLINER)	Connector Type		SAZ30FB-SJZ4-U	-	>	POWER SUPPLY (BACK UP)	_
Connector Type	TH40FW-NH	21	٨	PULSE (REAR LIFTER)	ľ			2	œ	POWER SUPPLY (BACK UP)	
		22	æ	PULSE (FRONT LIFTER)	E			9	_	CAN-H	
ß		23	Ь	CAN-H	·	_	, 25 28 30 32 34	4	^	K-LINE	
¥		24	1/d	CAN-L	Ċ		2 15 16 17 18 19 20 T	s	8	GND	
Ŝ	20 20 20 20 20 20 20 20 20 20 20 20 20 2	25	0/9	IND 1		۷		9	9	POWER SUPPLY (IGN)	_
	20 20 20 20 20 20 20 20 20 20 20 20 20 2	56	0/1	IND 2			5 6 7 8 9 10 13 3	7	S.	BACK-UP LAMP RELAY	_
		27	>	ADDRESS 1				80	а	CAN-L	
		28	W/N	ADDRESS 2				n	HB.	P/N SIGNAL	_
		59	_	SET SW	Terminal	Color Of	[10	8	GROUND	
Terminal Color Of		30	BR	PULSE(TILT)	No.	Wire	Signal Name [Specification]				
No. Wire	ognal Name [opecification]	31	BR/W	PULSE(TELESCOPIC)	1	B/W	ECU(GND)				
1 B/R	GROUND	32	W/L	UART (TX/RX)	2	8	MOTOR(GND)				
2 Y	BATTERY POWER SUPPLY	33	Α	POWER SUPPLY (ENCODER)	8	>	SOLENOID(POWER)				
3 W	IGNITION SIGNAL				4	9	MOTOR(POWER)				
4	ACC POWER SUPPLY				2	SB	STOP LAMP SW				
19 SB	AV COMMUNICATION SIGNAL (H)				9	٨	CANM2(+)				
20 LG	AV COMMUNICATION SIGNAL (L)				7	W	Rr-LH SEN(SIGNAL)				
25 B	REVERSE SIGNAL				8	9	Rr-LH SEN(POWER)				
27 L	CAN-H				6	BR	Fr-RH SEN(SIGNAL)				

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CONSULT CHECKING SYSTEM (WITHOUT ICC)	T ICC)									
Connector No. F301	Connector No.	or No. M2		18	Ь		149	В		П
Commontant Masson Trible	Connocte	2112	(0) 1) 750 10 25111	19	W		150	۵		
	CONTRACT		E BLOCK (J/B)	2.1	8		151	1		
Connector Type SP10FG	Connecto	Connector Type NS1	NS10FW-CS	22	В	- [With ICC]	152	8		
	٥			22	٨	- [Without ICC]	153	Μ		
■	B			23	1	- [With ICC]	154	8		
	ŧ			23	SB	- [Without ICC]	155	8		Г
113 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1		48 38 18	24	_		157	>		Г
0 4 0 7 1			0B 8B 7B 6B 5B	27	۵		158	~		г
01 6 8 2 8 9 10			ac ac ac ac	31	>		159	œ		Т
				33	>		160	L		Т
				32	_					1
Terminal Color Of	Terminal	Color Of	Lange of the second	36	۵					
No. Wire Signal Name [Specification]	No.	Wire	olgnai Name [opecification]	38	_		Connect	Connector No.	M27	г
1 - VIGN	18	æ		40	>				DO LA DATE OF THE PARTY OF THE	Г
2 . ВАПТ	38	۵						all Mallie	PCB HARINESS	
3 - CAN-H	48	9					Connect	Connector Type	TH40FB-NH	
4 - KUNE	28	SB		Connector No.	o. M23					1
S - GND	89	*	- [With VQ37 engine]		Ι.	111111111111111111111111111111111111111	Œ			
NBIN - 9	89	>	- [With VK56 engine]	Connector Name		PUB HAKNESS				
7 - REV LAMP RLY	78	>		Connector Type	Г	TH40FW-NH	?	-	control by the desired and by the last by the desired by the desir	ı
8 - CAN-L	88	æ								12
9 - START RLY	96	ď		Œ					the basilities for less than the bird for bird basilities and broken	51
10 - GND				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		[
				Ź	103 133	TO CONTRIBUTE OF THE PROPERTY				ı
	Connector No.	or No. M20	0		32		Terminal	_	Signal Name [Specification]	
Connector No. M1	Connecto	Connector Name PCB	PCB HARNESS]		Ñ.	Wire	9	_
Connector Name FUSE BLOCK (J/B)		T					281	0		Т
Т	Connecto	Connector Type TH4	TH40FB-NH				282	+		Т
Connector Type NS06FW-M2	ą	_		E E	olor Of	Signal Name [Specification]	283	+		_
á	季			┪	Wire		284	4		_
	¥.		<u>[</u>	121	ď		286	≥		_
34 7 5	2	18	1817 1615 1413 1211 10 9 8 7 6 5 4 3 2 1	122	>		287	>		_
-1		9	9837 3635 3433 3231 30 39 28 27 28 25 28 23 22 21	123	BG		288			
84 64 54 44		1		124	BG		289	SHIELD		
1.				126	8		290	8		
]				131	SB	•	291	SHIELD		
	Terminal	Color Of	Cinnal Nama [Connification]	132	97		292	8		
Terminal Color Of Sirgal Name (Specification)	No.	Wire	office regime (Sheeringarou)	133	٦		293	8	•	
No. Wire Specification)	1	8		134			294	В		
1A R	2	8		135	۵		295	α		Г
2A W	m	>	,	136	۵		296	ag.		т
3A Y .	4	9		137	>		297			г
4A W	S	æ		138	٦	1	298	8		
	و	W		141	W		599	_		г
	11	BR		142	W		300	Μ		$\overline{}$
8A Y .	12	В		144	Ь		301	œ		$\overline{}$
	15	8		145	8		302	ч		П
	16	SHIELD		146	FIG		303			$\overline{}$
	17	œ		147	8		304	SHIELD		г

Revision: September 2015

CONSULT	CONSULT CHECKING SYSTEM (WITHOUT ICC)	T ICC)	_						
305 P		3,5	350 LG		Connector No.	M47	_	SB	ENTER SWITCH SIGNAL
306 V		35	351 P		Connector Name	TIMIT LOGENOUS GANOS	00	ΓC	SELECT SWITCH SIGNAL
309 6		35	352 R		all by the same		6	9	ILLUMINATION CONTROL SWITCH SIGNAL (+)
310 R		3,	353 P		Connector Type	TH24FW-NH	10	GR	ILLUMINATION CONTROL SWITCH SIGNAL (-)
311 W		Ě	358 W		ľ		11	-	TRIP RESET SWITCH SIGNAL
312 B		3,6	359 W		E		12	В	GROUND
313 B		ľ	9 098		É		14	_	CAN-H
314 Y					<u> 2</u>	3 4 5 6 7 8 9 10 12	15	۵	CAN-L
315 G							16	œ	AIR BAG SIGNAL
316 R		Conn	Connector No.	M43		13 19 20 24	17	9	LED HEADLAMP (RH) WARNING SIGNAL
317 W		1 8	Conclusion Monaco	TIMI I DOTINO DINIMONNI DO 1920 DOTINO			18	>	LED HEADLAMP (LH) WARNING SIGNAL
318 SHIELD	- a	9	nector indine	LOW THE PRESSURE WARMING CONTROL UNIT			23	80	GROUND
319 V		Conn	Connector Type	TH32FW:NH	Terminal Color Of)t	24	8	FUEL LEVEL SENSOR GROUND
320 W					No. Wire		25	Μ	ALTERNATOR SIGNAL
		B	•		3 R	CORNER SENSOR SIGNAL FRONT LH	56	۸	PARKING BRAKE SWITCH SIGNAL
		7	Ŀ		4 W	CORNER SENSOR SIGNAL FRONT RH	27	۸	BRAKE FLUID LEVEL SWITCH SIGNAL
Connector No.	M28	1	2	1 2 3 4 5 6 7 8 0 10	. N	CORNER SENSOR SIGNAL REAR LH	28	9	SECURITY SIGNAL
Consider Mano	33 NG VTI GUO			0 2	9 9	CORNER SENSOR SIGNAL REAR RH	53	٦	WASHER LEVEL SWITCH SIGNAL
connector idame				13/20/21/23/23/24/20/20 33/ 32/	7 6	CENTER SENSOR SIGNAL REAR LH	32	U	PADDLE SHIFTER SHIFT DOWN SIGNAL
Connector Type	TH40FW-NH				8	CENTER SENSOR SIGNAL REAR RH	33	BG	PADDLE SHIFTER SHIFT UP SIGNAL
١					۸	CENTER SENSOR SIGNAL FRONT LH	34	U	FUEL LEVEL SENSOR SIGNAL
E		Tern	erminal Color Of	JC	10 6	CENTER SENSOR SIGNAL FRONT RH	32	Μ	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
¥.	[ž	No. Wire		12 B	GROUND	36	ŋ	PASSENGER SEAT BELT WARNING SIGNAL
Ĉ.	an real market sed seal seal tent tent tent tent seal content tent tent tent tent tent tent ten	Ľ	1 P	CAN-L	13 16	IGNITION POWER SUPPLY	37	ø	NON-MANUAL MODE SIGNAL
	25 CAN CASH AND THE CASH AND TH		2 L	CAN-H	19 L	CAN-H	38	>	MANUAL MODE SHIFT DOWN SIGNAL
	The first has been feel from the first has been feel from the free free from the first from the first first from the first first from the first first first from the first first first from the first	Ľ	9 8	RR TUNER (SIG)	20 R	CAN-L [Without ICC]	39	-	MANUAL MODE SHIFT UP SIGNAL
		Ľ	4 B	RL TUNER (SIG)	20 Y	CAN-L [With ICC]	40	>	MANUAL MODE SIGNAL
			5 B	FR TUNER (SIG)	24 B	GROUND			
Terminal Color Of	Of Simul Mamo [Specification]		9 9						
No. Wire			7 R	RR TUNER (VCC)			Connec	Connector No.	M66
321 V			W 8	RL TUNER (VCC)	Connector No.	M53	2000	Connector Mamo	A/C ALITO AND
322 V		Ľ	M 6	FR TUNER (VCC)		CONTRACTOR AND ADDRESS OF THE PERSON OF THE P	5	allie O	ACAOLO AME.
324 B		_	10 W	FL TUNER (VCC)	Connector Name	COMBINATION WEIGH	Connec	Connector Type	TH20FW-TB6
325 L		1	15 Y	IGN	Connector Type	TH40FW-NH	٥		
326 L		1	19 G	RR TUNER (RSSI)			ß		
327 P		2	20 G	RL TUNER (RSSI)	B		ŧ		
328 P		2	21 G	FR TUNER (RSSI)	ě	K	2	7	1 2 6 7 10 11 12
330 B		2	22 R	FL TUNER (RSSI)	5	1 2 2 4 5 6 7 8 9 10 10 11 10 14 15 16 17 18			13 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18
331 V		2	23 W			1			
332 V		2	24 R	RL TUNER (GND)					
335 B			25 R	FR TUNER (GND)					
337 W		2	26 B	FL TUNER (GND)			Terminal	al Color Of	Control Name (Control of
338 W			30 G	BCM FLASHER	Terminal Color Of	PC	No.	Wire	oignai ivame [opecification]
343 L		3	32 B	GND	No. Wire		1	٦	BATTERY POWER SUPPLY
344 B					1 W	BATTERY POWER SUPPLY	2	W	IGNITION POWER SUPPLY
345 Y					2 BG	IGNITION SIGNAL	9	В	BLOWER MOTOR F/B SIGNAL
346 L					3 GR	VEHICLE SPEED SIGNAL (2-PULSE)	7	٦	POWER TRANSISTOR CONTROL SIGNAL
4					4 R	VEHICLE SPEED SIGNAL (8-PULSE)	10	œ	GROUND
348 GR					5 8	ILLUMINATION CONTROL SIGNAL	11	а	CAN-L
349 V					9 9	METER CONTROL SWITCH GROUND	12	_	CAN-H

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CONSULT CHECKING SYSTEM (WITHOUT ICC)

13 | v | ACCPOWER SUPPLY [Connections]

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	(E)	S S S S S S S S S S	RLY CONT	В
071	BCM (BODY CONTROL MODULE) TH40FB-NH	1 2 3 4 5 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Signal Name (Specification) RR WINDOW DEGG RIV CONT COMBI SW HIPPUT S COMBI SW CUITPUT (FRONT) TURN SIG RIV CUITPUT S FOOD MAN SW HIPPUT S COMBI SW CUITPUT S COMB S COMBI SW CUITPUT S COMBI SW CUITPUT S COMBI SW CUITPUT S	C
Connector No. IVI	Connector Name BC Connector Type TH	S. E	Color Of Terminal	D
				E
	-RZ8-R-RH-Z	128 124 112 108 104 101 101 101 101 101 101 101 101 101	Signal Name (Specification) ACCELERATOR PEDAL POSITION SERSOR 1 ACCULERATOR PEDAL SERSOR SERSOR 1 ACCULARATOR PEDAL SERS	F
CTOL IND. INITO/	Connector Name ECM Connector Type RH24FGY	H.S.	10 a 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1	G
Sonne	Conne		Terminal	Н
		18 18 18 18 18 18 18 18 18 18 18 18 18 1	Sgnal Name (Specification)	I
MIUS	WIRE TO WIRE TH40FW-NH	20 19 15 15 15 14 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15		J
Connector No.	Connector Name	E S.H	Terrified Choicy Office Terrified Choicy	K
SUPPLY	L SIGNAL CT SW (SNOW) ECT SW (ECO)	SW (STANDARD)		L
ACL POWER	ECV CONTROL SIGNAL DRIVE MODE SELECT SW (SNOW) DRIVE MODE SELECT SW (ECO)	DRIVE MODE SELECT DRIVE MODE SELECT M84 AV CONTROL UNIT TH32FW-NH		N
+	17 BG 23 W 24 L	tor No.		N
				O
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CONSUL	CONSULT CHECKING SYSTEM (WITHOUT ICC)	<u></u>								
Connector No.	M125	15	>	ECZS (-)	142	GR	FUEL PUMP CONTROL MODULE (FPCM) CHECK	25	Ν	
		22	2 SHIELD	QND QND	143	4	FUEL TANK PRESSURE SENSOR	30	В	
Connector Name		23	œ	AIR BAG W/L	144	91	REFRIGERANT PRESSURE SENSOR	31	BR	
Connector Type	TH12FW-NH	24	5	SEAT BELT	146	_	CAN COMMUNICATION LINE	32	٦	
		25	20	CUTOFF TELLTALE	147	88	ASCD BRAKE SWITCH	33	Ь	
Œ		51	1 6	SATELLITE RH2 (+)	150	>	SENSOR GROUND	34	91	
	/	52	8 8	SATELLITE RH2 (-)	151	۵	CAN COMMUNICATION LINE	35	Α	
2	ŀ	23	~	SATELLITE RH2 (+)	156	>	POWER SUPPLY FOR ECM (BACK-UP)	36	91	
	3 4 3 0	55	-	SATELUTE RH2 (-)	158		STOP LAMP SWITCH	37	_	
	7 9 10 11 12	57		IVCS	161	>	ENG COMMUNICATION LINE			
		29	-	CAN-H	163	>	ECM RELAY (SELF SHUT-OFF)			
		9	0	CAN-L	166	BG	ENG COMMUNICATION LINE	Connector No.		M182
Tarminal Color Of	L				169	>	FIGURE OPER CIGNAL DUTPLIT		Ī	
	Signal Name [Specification]				121	. g	POWER SUPPLY FOR FCM	Connector Name	. Name	DATA LINK CONNECTOR
-	LAN-H	Conné	Connector No.	M160	172	g	POWER SLIPPLY FOR FOM	Connector Type	- Tvoe	BD16FW
	GR BATTERY			Т	173	~	THROTTLE CONTROL MOTOR POWER SUPPLY			
4		Conn	Connector Name	ECM	174	-	FOM GROUND	Œ		
2	B GND	Conn	Connector Type	MAB55FB-MEB10-LH-Z	175	89	ECM GROUND	ţ		100 100 100 100
9	L CAN-H	[[?		11 12 13 14 10
7	P CAN-L	ľ	_							0 2 2 3 4 6 7 0
6	W IGNITION	•	į		Connector No.	or No.	M181			4 0 0 /
10	P CAN-L	1	Ź.	20 日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日	Jonno	Connector Manne	adiw CT adiw			
11	B GND					OI Mairie	WINE IO WINE			
12	P CAN-L				Connect	Connector Type	TH40MW-NH	Terminal	Color Of	[mileting] omely leaving
					¢			No.	Wire	orginal value (operincation)
					B			3	FIG	M-CAN_L
Connector No.	M147	Terminal	inal Color Of	Of Signal Namo (Specification)	ť			4	В	EARTH
Connector Name	TINIT BOOD INCOME SENSOR INIT	No.	. Wire		4		1121213151315131515151515151515151515151	S	В	EARTH
		111	1 W	FUEL INJECTOR DRIVER POWER SUPPLY			2127 2324 25 28 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	9	1	CAN-H
Connector Type	B NH28FY-EX	112	2 W	FUEL INJECTOR DRIVER POWER SUPPLY				7	۸	KLINE
ľ		114	4 B	ECM GROUND				00	91	WS_N81
E	7	115	8 5	ECM GROUND				11	SB	M-CAN_H
Į	0 0 1 2 6 7 3 7 10 0	120	0	EVAP CANISTER VENT CONTROL VALVE	Terminal	II Color Of		12	Ь	CAN-L
2		122	2 ^	WELACTUATOR MOTOR RELAY ABORT SIGNAL (WEL CONTROL MODULE)	No.	Wire	olgnar ivame [opecification]	13	٦	CAN-H
	10/10/10/10/10/10/10/10/10/10/10/10/10/1	123	3 BG	THROTTLE CONTROL MOTOR RELAY	2	~		14	۵	CAN-L
	19 52 54 23 24 22	125	5 P	FUEL PUMP CONTROL MODULE (FPCM)	m			16	W	POWER
	18 51 53 60 59 25 57 1	126	۸ و	ACCELERATOR PEDAL POSITION SENSOR 2	2	œ				
		128	8 8	ASCD STEERING SWITCH	9	æ				
Terminal Colo	Color Of Color Of	129	9 B	SENSOR GROUND [Without ICC]	7	_				
No. Wi	Wire Signal value [Specification]	129	9 BR	SENSOR GROUND [With ICC]	80	Ы				
1	NSI IGN	130	۸ م	SENSOR GROUND	6	8				
2	B GND	131	1 L	SENSOR POWER SUPPLY	10	>				
E	Y DR1 (+)	133	3 86	SENSOR POWER SUPPLY	11	97				
4	Y DR1 (-) DR2 (-)	134	4 P	FUEL TANK TEMPERATURE SENSOR	12	SB				
S	Y DR2 (+)	136	9 R	ACCELERATOR PEDAL POSITION SENSOR 1	14	88				
9	Y AS1 (+)	137	7 6	SENSOR POWER SUPPLY	15	BR				
7	Y AS1 (-)	138	8	BATTERY CURRENT SENSOR	16	>				
80	y AS2 (+)	139	9 BG	BATTERY TEMPERATURE SENSOR	18	g				
6	Y AS2 (-)	140	L	SENSOR GROUND	22	BG	,			
18 5	SB ECZS (+)	141	1 6	IGNITION SWITCH	23	8				

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SOS SWITCH LED SIGNAL MA21 WIRE TO WIRE MA3EVA.LC MA222 WIRE TO WIRE MA3MAV.CC MA3			
BR Name Color of Were Were Were Were Were Were Were Were			
Connecto Con	ı		
MICROPHONE SHIELD MICROPHONE SHIELD MICROPHONE SUBMA AV COMMI (1) AV COMM (1) AV COMM (1) AV COMM (1) DIMMES SIGNAL IGHITON SIGNAL SHIELD COMM (1) AV COMM (1) Signal Name (Specification) AV COMMI (1) AV COMI (1) AV COMMI (1) AV COMI (1) AV COMMI (1) AV COMMI (1) AV COMI	GROUND CAN-H CAN-L	MICROPHONE VCC MICROPHONE SIGNAL MICROPHONE SHIELD	MICROPHONE VCC MICROPHONE SIGNAL MICROPHONE SHIELD
	a 8 - a	G R SHIELD	G R SHIELD
Connector Name Color Name	6 9 10	18 19 20	21 22 23
## CTOR-M01 ECTOR-M01 1	8	Signal Name [Specification] PARKING BRAKE SIGNAL	COMPOSITE IMAGE SIGNAL GND COMPOSITE IMAGE SIGNAL I-KEY IDENTIFICATION SIGNAL
CONSULT Connector Name Connector Name Connector Name Name Name Name Name Name Name Name		<u></u>	w ≥ 0
CONSULT Connector 76, Connector 76, Connector 76, Connector 75, Connector 75, Connector 75, Connector 76, Connector 76, Connector 78, Connecto		Terminal No. 65	69

INSPECTION AND ADJUSTMENT

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Required Procedure After Battery Disconnection

SYSTEM	ITEM	REFERENCE
	Temperature setting trimmer	-
	Foot position setting trimmer	_
	Inlet port memory function*	_
	Inlet port memory function (FRE)	_
Automatic air conditioning system	Inlet port memory function (REC)	_
	Exhaust gas/outside odor detecting gas sensor sensitivity adjustment function*	_
	Auto intake switch interlocking movement change*	_
	Clean switch interlocking movement change*	_
Automatic drive positioner	Automatic drive positioner system	ADP-58, "ADDITIONAL_ SERVICE WHEN REMOV- ING BATTERY NEGATIVE TERMINAL: Description"
Power window control	Power window control system	PWC-32, "Description"
Sunroof system	Sunroof system	_
Sunshade system	Sunshade system	_
Rear view monitor	Rear view monitor predictive course line center position adjustment	_
Around view monitor	Predictive course line center position adjustment	_
Automatic back door system*	Automatic back door system	_
Engine oil level read*	Engine oil level read	_

^{*:} Not equipped.