SECTION SBC
SEAT BELT CONTROL SYSTEM

CONTENTS

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:0000000011489356

DETAILED FLOW

1.OBTAIN INFORMATION ABOUT SYMPTOM

Interview the customer to obtain as much malfunction information (conditions and environment when the malfunction occurred) as possible when the customer brings the vehicle in.

>> GO TO 2.

2.REPRODUCE THE MALFUNCTION INFORMATION

Check the malfunction on the vehicle that the customer describes.
Inspect the relation of the symptoms and the condition when the symptoms occur.

>> GO TO 3.

3.IDENTIFY THE MALFUNCTIONING SYSTEM WITH “SYMPTOM DIAGNOSIS”

Use “Symptom diagnosis” from the symptom inspection result in step 2 and then identify where to start performing the diagnosis based on possible causes and symptoms.

>> GO TO 4.

4.IDENTIFY THE MALFUNCTIONING PARTS WITH “COMPONENT DIAGNOSIS”

Perform the diagnosis with “Component diagnosis” of the applicable system.

>> GO TO 5.

5.REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 6.

6.FINAL CHECK

Check that the malfunction is not reproduced, referring to the symptom inspection result in step 2.

Are the malfunctions corrected?

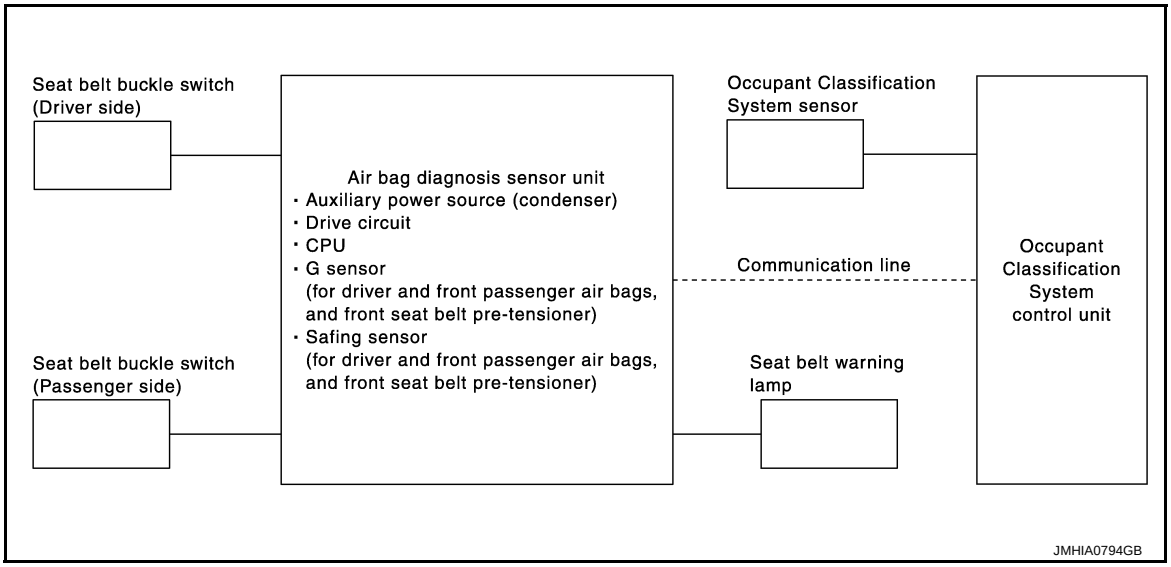
YES >> INSPECTION END
NO >> GO TO 3.

SYSTEM DESCRIPTION

SEAT BELT WARNING SYSTEM

System Diagram

INFOID:0000000011489357



System Description

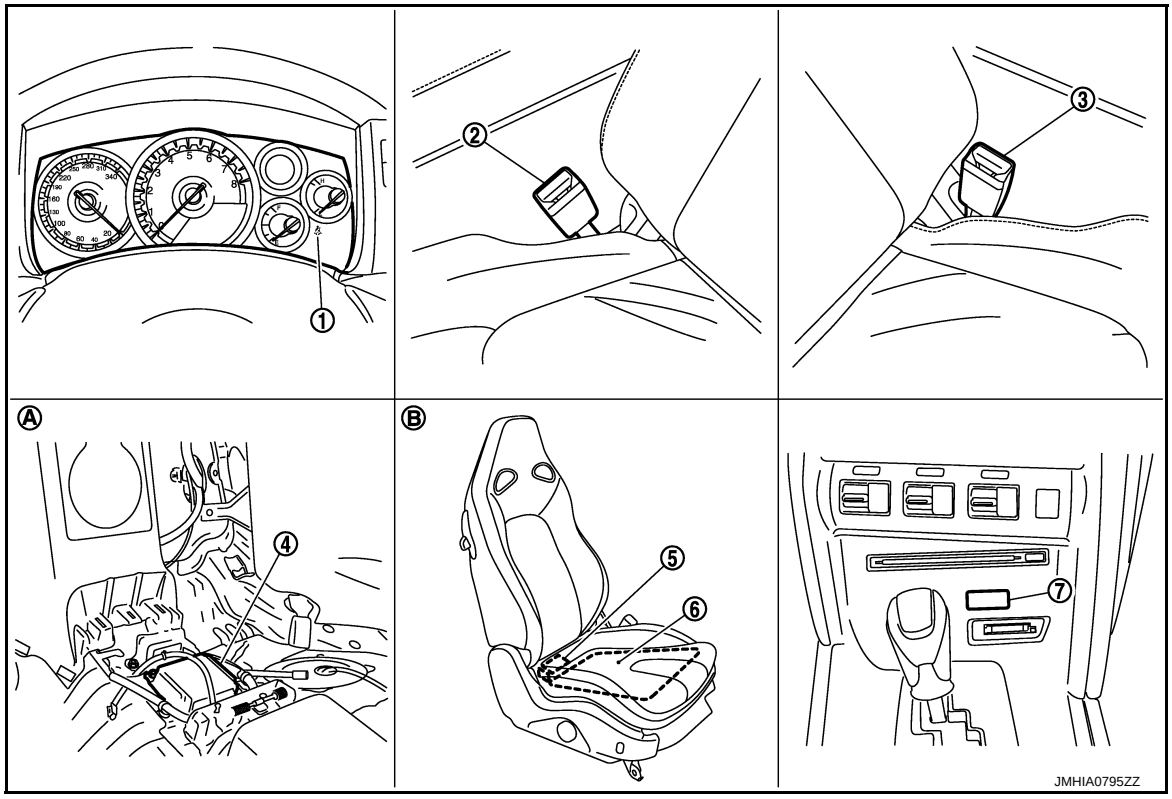
INFOID:0000000011489358

- Turns ON seat belt warning lamp, when the Occupant Classification System judges adult or child in the front passenger seat and the passenger seat belt buckle switch is OFF.
- Operation of air bag diagnosis sensor unit when air bag diagnosis sensor unit receives information from Occupant Classification System.
- In addition, seat belt warning lamp illuminates, when the driver side seat belt is not fasten. This does not relate to the air bag diagnosis sensor unit.
- For driver seat belt function, refer to MWI-7, "METER SYSTEM : System Diagram"

Status (front passenger seat)	**Seat belt warning lamp (When front passenger seat is unbuckled)**
Empty	OFF
An object	OFF
Child/ child-seat	ON
Adult	ON
Malfunction	OFF

Component Parts Location

INFOID:0000000011489359



1. Combination meter (Seat belt warning lamp)
2. Seat belt buckle switch (Driver side)
3. Seat belt buckle switch (Passenger side)
4. Air bag diagnosis sensor unit
5. Occupant Classification System control unit
6. Occupant Classification System seat sensor
7. Front passenger air bag OFF indicator
- A. View with rear console assembly removed
- B. Front passenger seat

Component Description

INFOID:0000000011489360

Component parts	Outline of function
Seat belt buckle switch (Driver side)	Detects if the seat belt buckle switch (driver side) is fastened or unfastened
Seat belt buckle switch (Passenger side)	Detects if the seat belt buckle switch (passenger side) is fastened or unfastened
Seat belt warning lamp	Turns the seat belt warning lamp ON when the seat belt is unfastened
Occupant Classification System control unit	Judges the passenger seat condition based on the information from Occupant Classification System control unit
Occupant Classification System seat sensor	Detects if the passenger seat is empty or occupied
Air bag diagnosis sensor unit	Turns ON seat belt warning lamp based on the information from Occupant Classification System control unit
Front passenger air bag OFF indicator	Turns the front passenger air bag OFF indicator lamp ON when the front passenger seat is occupied by a child or a child seat

DTC/CIRCUIT DIAGNOSIS

SEAT BELT BUCKLE SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000011489361

- Performs the control of tension reducer according to the seat belt buckle switch ON/OFF.
- Detects whether or not the seat belt is fastened when the ignition switch turns ON. If the seat belt is not fastened, illuminates the seat belt warning lamp on the combination meter.
- The seat belt buckle switch is installed in the seat belt buckle.

DRIVER SIDE : Component Function Check

INFOID:0000000011489362

1.CHECK SEAT BELT BUCKLE SWITCH

When checking “BUCKLE SW” in DATA MONITOR in METER/M&A, check that ON/OFF display changes synchronized with the insertion operation to the seat belt buckle.

Monitor item	Condition
BUCKLE SW	When driver side seat belt is not fastened: ON
	When driver side seat belt is fastened: OFF

Is the inspection result normal?

YES >> Seat belt buckle switch (driver side) circuit is normal.
NO >> Refer to SBC-5, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000011489363

1.CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE) CIRCUIT

1. Turn ignition switch ON.
2. Check voltage between seat belt buckle switch (driver side) harness connector and ground.

(+)		(–)	Condition	Voltage (V) (Approx.)
Seat belt buckle switch (driver side)				
Connector	Terminal			
B12	3	Ground	When driver side seat belt is fastened	Battery voltage
			When driver side seat belt is not fastened	0

Is the inspection result normal?

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

2.CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE) CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect combination meter and seat belt buckle switch (driver side) connector.
3. Check continuity between combination meter harness connector and seat belt buckle switch (driver side) harness connector.

Combination meter		Seat belt buckle switch (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M53	30	B12	3	Existed

4. Check continuity between combination meter harness connector and ground.

Combination meter		Ground	Continuity
Connector	Terminal		
M53	30		Not existed

Is the inspection result normal?

YES >> Repair or replace combination meter.
NO >> Repair or replace harness between combination meter and seat belt buckle switch (driver side).

3.CHECK SEAT BELT BUCKLE SWITCH GROUND CIRCUIT

Check continuity between seat belt buckle switch (driver side) harness connector and ground.

Seat belt buckle switch (driver side)		Ground	Continuity
Connector	Terminal		
B12	2		Existed

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace harness between seat belt buckle switch and ground.

4.CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

Check seat belt buckle switch (driver side). Refer to SBC-6, "DRIVER SIDE : Component Inspection (Belt Buckle Switch)".

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace seat belt buckle switch (driver side).

DRIVER SIDE : Component Inspection (Belt Buckle Switch)

INFOID:0000000011489364

1.CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

1. Turn ignition switch OFF
2. Disconnect seat belt buckle switch connector.
3. Check continuity of seat belt buckle (driver side).

Seat belt buckle switch (driver side)		Condition	Continuity
Terminal			
2	3	When driver side seat belt is not fastened	Existed
		When driver side seat belt is fastened	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace seat belt buckle switch (driver side).

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000011489365

- Performs the control of tension reducer according to the seat belt buckle switch ON/OFF.
- Detects whether or not the seat belt is fastened when the ignition switch turns ON. If the seat belt switch is not fastened, illuminates the seat belt warning lamp on the combination meter.
- The seat belt buckle switch is installed in the seat belt buckle.

PASSENGER SIDE : Component Function Check

INFOID:0000000011489366

1.CHECK SEAT BELT WARNING FUNCTION

1. Sit down to passenger seat.
2. Check that seat belt warning lamp turns OFF when passenger seat belt is fastened, and then turns ON when passenger seat belt is unfastened.

Is the inspection result normal?

YES >> Seat belt buckle switch (passenger side) circuit is normal.
NO >> Refer to SBC-7, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000011489367

1.CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE) CIRCUIT

1. Turn ignition switch ON.
2. Check that voltage between seat belt buckle switch (passenger side) and ground.

(+)		(–)	Condition	Voltage (V) (Approx.)
Seat belt buckle switch (passenger side)				
Connector	Terminal			
B212	3	Ground	When passenger side seat belt is fastened	2.0 or more
			When passenger side seat belt is not fastened	0

Is the inspection result normal?

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

2.CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE) CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect air bag diagnosis sensor unit connector and seat belt buckle switch (passenger side) connector.
3. Check continuity between air bag diagnosis sensor unit harness connector and seat belt buckle switch (passenger side) harness connector.

Air bag diagnosis sensor unit		Seat belt buckle switch (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
B268	29	B212	3	Existed

4. Check continuity between air bag diagnosis sensor unit harness connector and ground.

Air bag diagnosis sensor unit		Ground	Continuity
Connector	Terminal		
B268	29		Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Repair or replace harness between air bag diagnosis sensor unit and seat belt buckle switch (passenger side).

3.CHECK SEAT BELT BUCKLE SWITCH GROUND CIRCUIT

Check continuity between seat belt buckle switch (passenger side) harness connector and ground.

Seat belt buckle switch (passenger side)		Ground	Continuity
Connector	Terminal		
B212	2		Existed

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace harness between seat belt buckle switch and ground.

4.CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)

Check seat belt buckle switch (passenger side). Refer to SBC-8, "PASSENGER SIDE : Component Inspection (Belt Buckle Switch)".

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace seat belt buckle switch (passenger side).

PASSENGER SIDE : Component Inspection (Belt Buckle Switch)

INFOID:0000000011489368

1.CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)

1. Turn ignition switch OFF.
2. Disconnect seat belt buckle switch connector.
3. Check continuity of seat belt buckle (passenger side).

Seat belt buckle switch (passenger side)		Condition	Continuity
Terminal			
2	3	When driver side seat belt is not fastened	Existed
		When driver side seat belt is fastened	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace seat belt buckle switch (passenger side).

SEAT BELT WARNING LAMP

Diagnosis Procedure

INFOID:0000000011489369

1.CHECK COMBINATION METER GROUND CIRCUIT

1. Turn the ignition switch OFF.
2. Disconnect air bag diagnosis sensor unit connector.
3. Driver seat belt is fastened.
4. Turn the ignition switch ON.
5. Check that voltage between air bag diagnosis sensor unit harness connector and ground.

(+)		(–)	Voltage (V) (Approx.)
Air bag diagnosis sensor unit			
Connector	Terminal		
M157	24	Ground	Battery voltage

Is the inspection result normal?

YES >> Replace air bag diagnosis sensor unit.
NO >> GO TO 2.

2.CHECK COMBINATION METER GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect combination meter connector.
3. Check continuity between combination meter harness connector and air bag diagnosis sensor unit harness connector.

Combination meter		Air bag diagnosis sensor unit		Continuity
Connector	Terminal	Connector	Terminal	
M53	29	M157	24	Existed

4. Check continuity between combination meter and ground.

Combination meter		Ground	Continuity
Connector	Terminal		
M53	29		Not existed

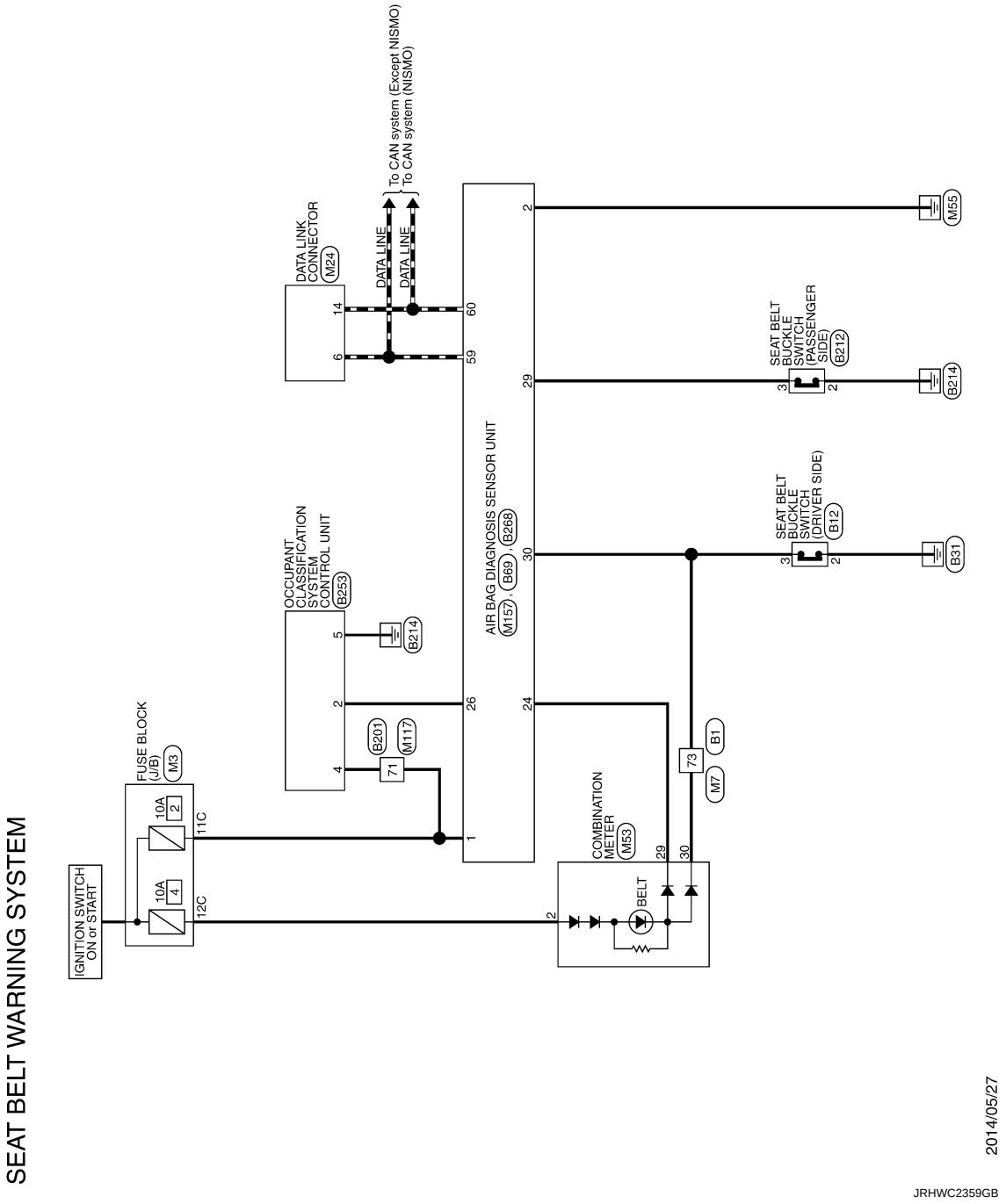
Is the inspection result normal?

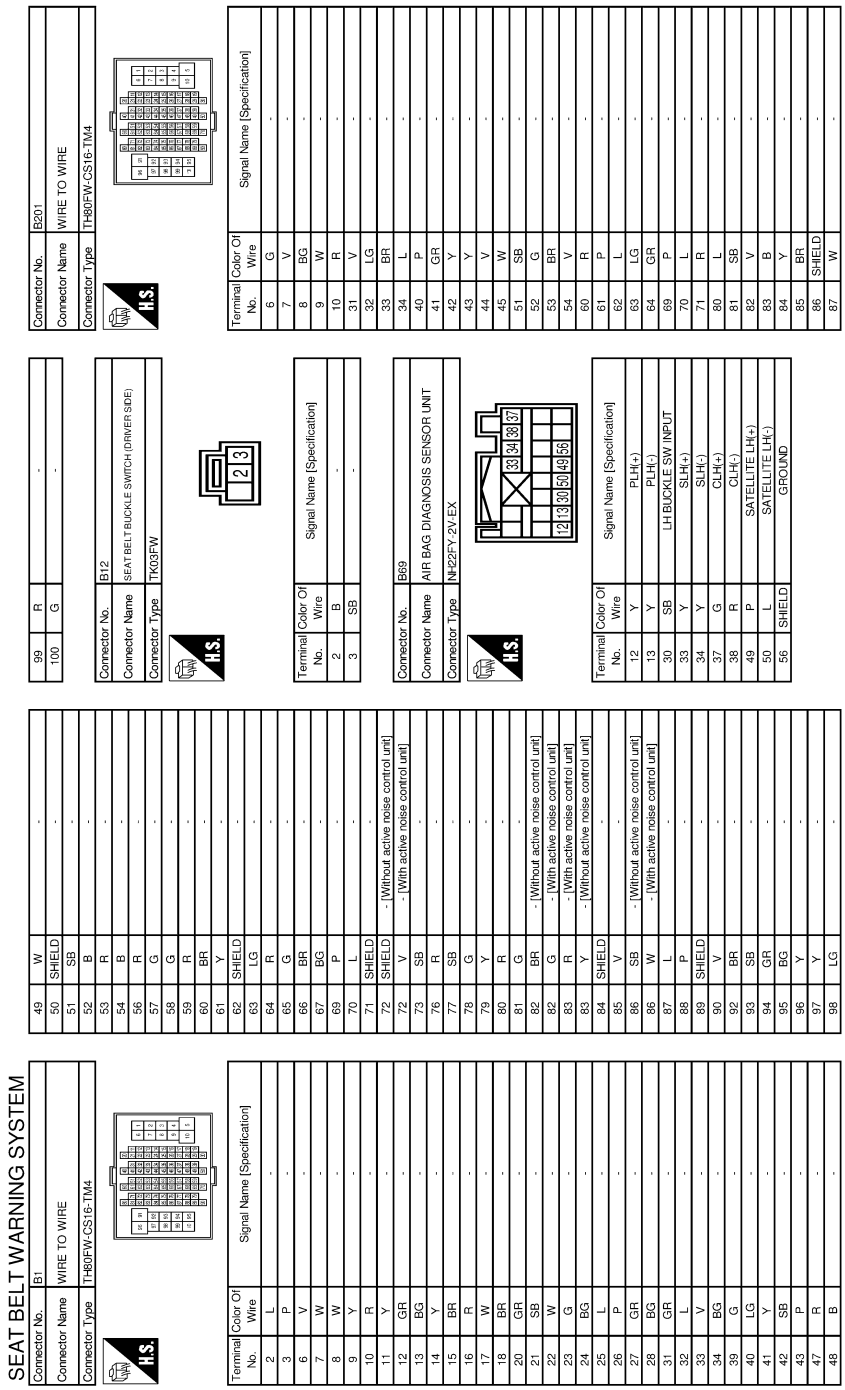
YES >> Replace combination meter.
NO >> Repair or replace harness between combination meter and air bag diagnosis sensor unit.

SEAT BELT WARNING SYSTEM

Wiring Diagram - SEAT BELT WARNING SYSTEM -

INFOID:0000000011489370





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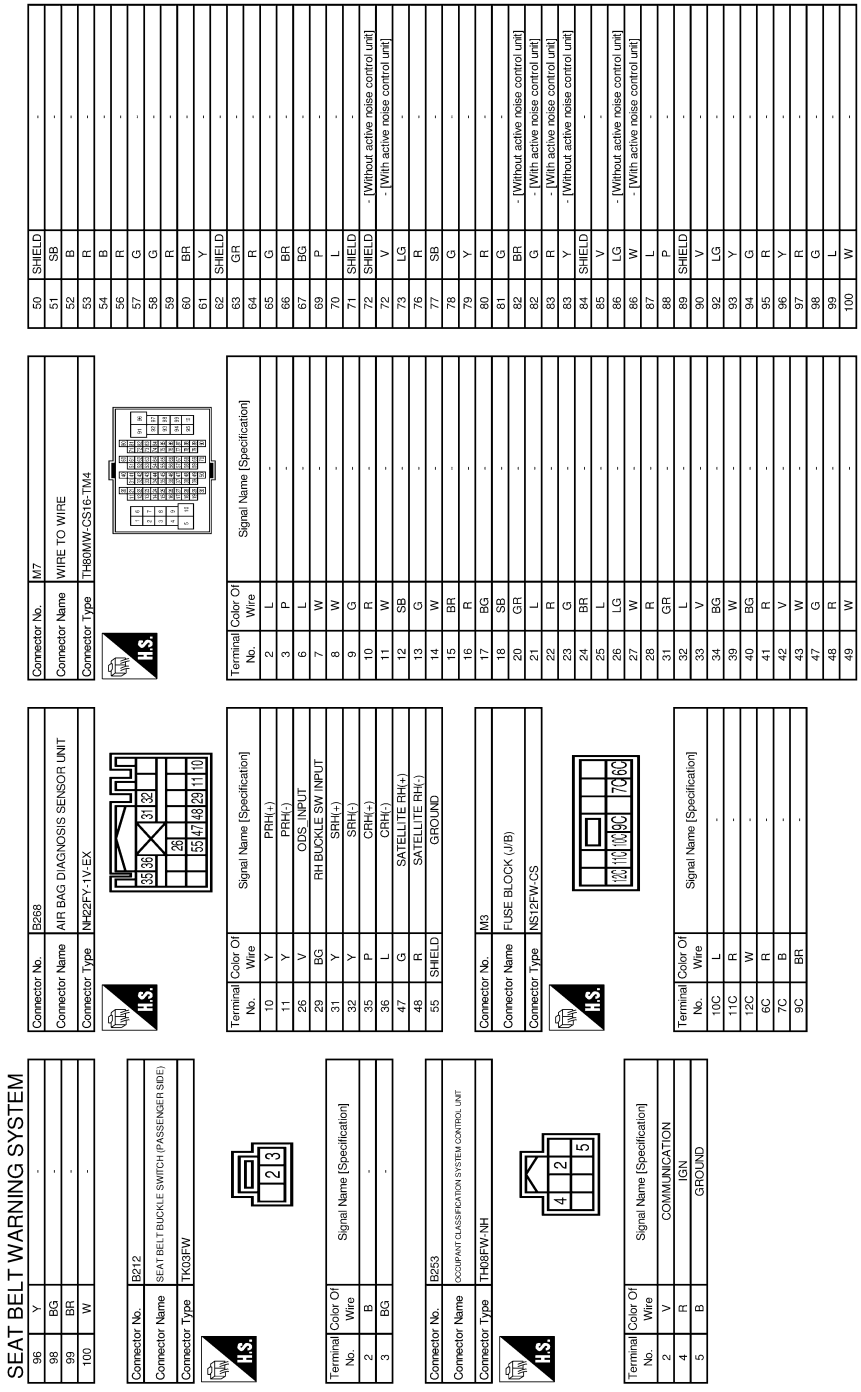

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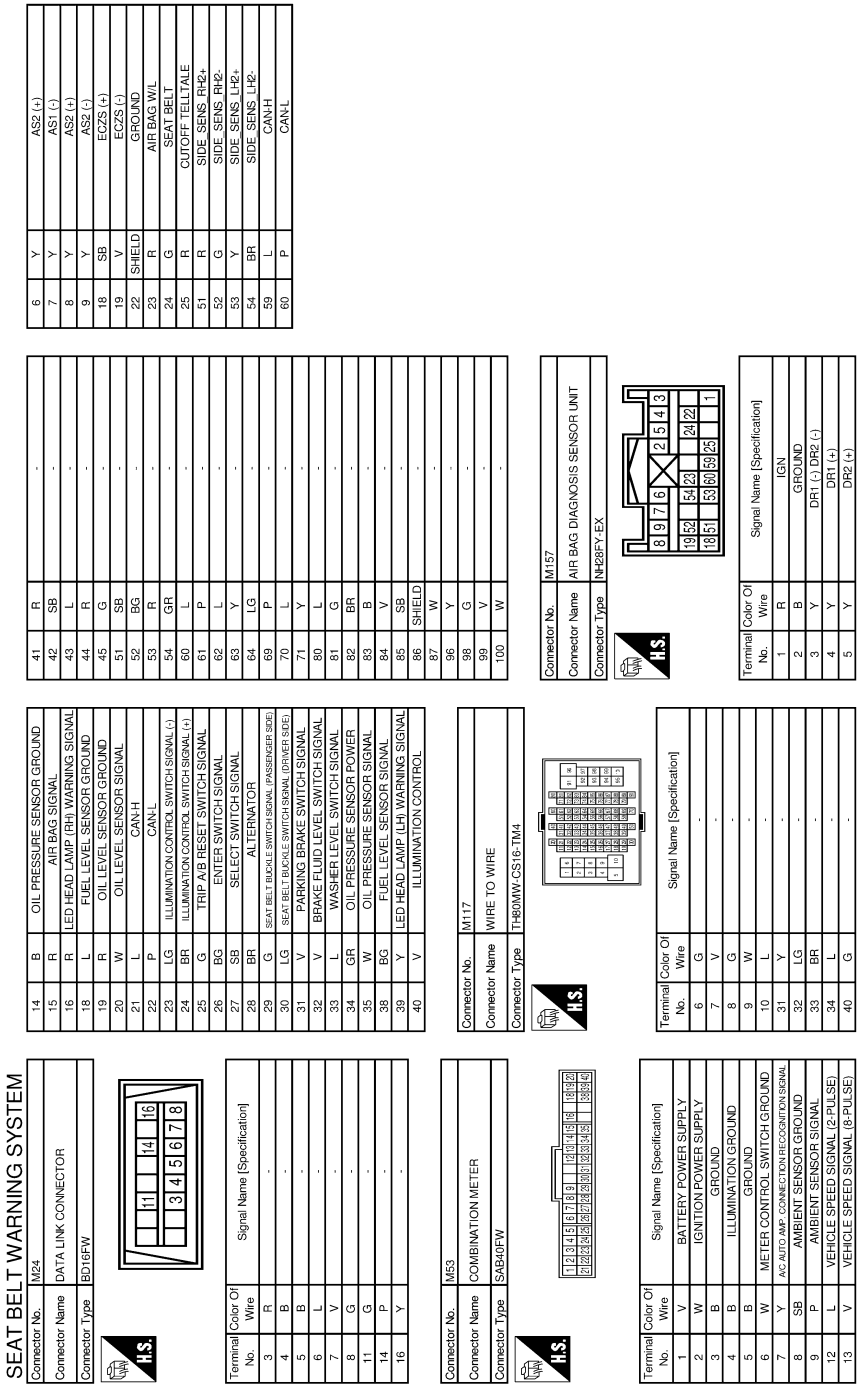

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ECU DIAGNOSIS INFORMATION

DIAGNOSIS SENSOR UNIT

DTC Index

INFOID:0000000011867263

Diagnostic item	Explanation		Reference page
NO DTC IS DETECTED	When malfunction is indicated by the “AIR BAG” warning lamp in User mode	Low battery voltage (Less than 9 V)	
		• Self-diagnosis result “SELF-DIAG [PAST]” (previously stored in the memory) might not be erased after repair • Intermittent malfunction has been detected in the past	SRC-13, "Diagnosis Description"
	No malfunction is detected		—
CONTROL UNIT [B1001-B1015]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification		• SRC-19, "DTC Logic" • SRC-21, "DTC Logic" • SRC-23, "DTC Logic"
OCCUPANT SENS C/U [UNIT FAIL] [B1017] [B1020] [B1021]	Trouble occurs in occupant classification system control unit		SRC-25, "DTC Logic"
OCCUPANT SENS [UNIT FAIL] [B1018]	Trouble occurs in occupant classification system sensor		SRC-27, "DTC Logic"
OCCUPANT SENS C/U [COMM FAIL] [B1022]	Trouble occurs in occupant classification system control unit, circuit of occupant classification system control unit air bag diagnosis sensor unit, or air bag diagnosis sensor unit		SRC-29, "DTC Logic"
PASS A/B INDCTR CKT [B1023]	Front passenger air bag OFF indicator circuit is open or shorted to ground or the circuits are shorted each other		SRC-31, "DTC Logic"
CONTROL UNIT [B1026-B1031]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification		SRC-33, "DTC Logic"
CRASH ZONE SEN [UNIT FAIL] [B1033] [B1034]	Crash zone sensor is malfunctioning		SRC-35, "DTC Logic"
CRASH ZONE SEN [COMM FAIL] [B1035] [UNMATCH] [B1036]	Crash zone sensor is malfunctioning or out of the specified specification		SRC-37, "DTC Logic"
CONTROL UNIT [B1042-B1047]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification		SRC-39, "DTC Logic"
DRIVER AIRBAG MODULE [OPEN] [B1049] [B1054]	Driver air bag module circuit is open (including the spiral cable)		SRC-41, "DTC Logic"
DRIVER AIRBAG MODULE [VB-SHORT] [B1050] [B1055]	Driver air bag module circuit is shorted to some power supply circuit (including the spiral cable)		SRC-43, "DTC Logic"

Diagnostic item	Explanation	Reference page
DRIVER AIRBAG MODULE [GND-SHORT] [B1051] [B1056]	Driver air bag module circuit is shorted to ground (including the spiral cable)	SRC-45, "DTC Logic"
DRIVER AIRBAG MODULE [SHORT] [B1052] [B1057]	Driver air bag module circuits are shorted to each other (including spiral cable)	SRC-47, "DTC Logic"
CONTROL UNIT [B1058-B1063]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	SRC-49, "DTC Logic"
ASSIST A/B MODULE [OPEN] [B1065] [B1070]	Front passenger air bag module circuit is open	SRC-51, "DTC Logic"
ASSIST A/B MODULE [VB-SHORT] [B1066] [B1071]	Front passenger air bag module circuit is shorted to some power supply circuit	SRC-53, "DTC Logic"
ASSIST A/B MODULE [GND-SHORT] [B1067] [B1072]	Front passenger air bag module circuit is shorted to ground	SRC-55, "DTC Logic"
ASSIST A/B MODULE [SHORT] [B1068] [B1073]	Front passenger air bag module circuits are shorted to each other	SRC-57, "DTC Logic"
CONTROL UNIT [B1074-B1079]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	SRC-59, "DTC Logic"
PRE-TEN FRONT RH [OPEN] [B1081]	Front RH seat belt pre-tensioner circuit is open	SRC-61, "DTC Logic"
PRE-TEN FRONT RH [VB-SHORT] [B1082]	Front RH seat belt pre-tensioner circuit is shorted to some power supply circuit	SRC-63, "DTC Logic"
PRE-TEN FRONT RH [GND-SHORT] [B1083]	Front RH seat belt pre-tensioner circuit is shorted to ground	SRC-65, "DTC Logic"
PRE-TEN FRONT RH [SHORT] [B1084]	Front RH seat belt pre-tensioner circuits are shorted to each other	SRC-67, "DTC Logic"
PRE-TEN FRONT LH [OPEN] [B1086]	Front LH seat belt pre-tensioner circuit is open	SRC-69, "DTC Logic"
PRE-TEN FRONT LH [VB-SHORT] [B1087]	Front LH seat belt pre-tensioner circuit is shorted to some power supply circuit	SRC-71, "DTC Logic"
PRE-TEN FRONT LH [GND-SHORT] [B1088]	Front LH seat belt pre-tensioner circuit is shorted to ground	SRC-73, "DTC Logic"
PRE-TEN FRONT LH [SHORT] [B1089]	Front LH seat belt pre-tensioner circuits are shorted to each other	SRC-75, "DTC Logic"
CONTROL UNIT [B1091] [B1093]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	SRC-77, "DTC Logic"

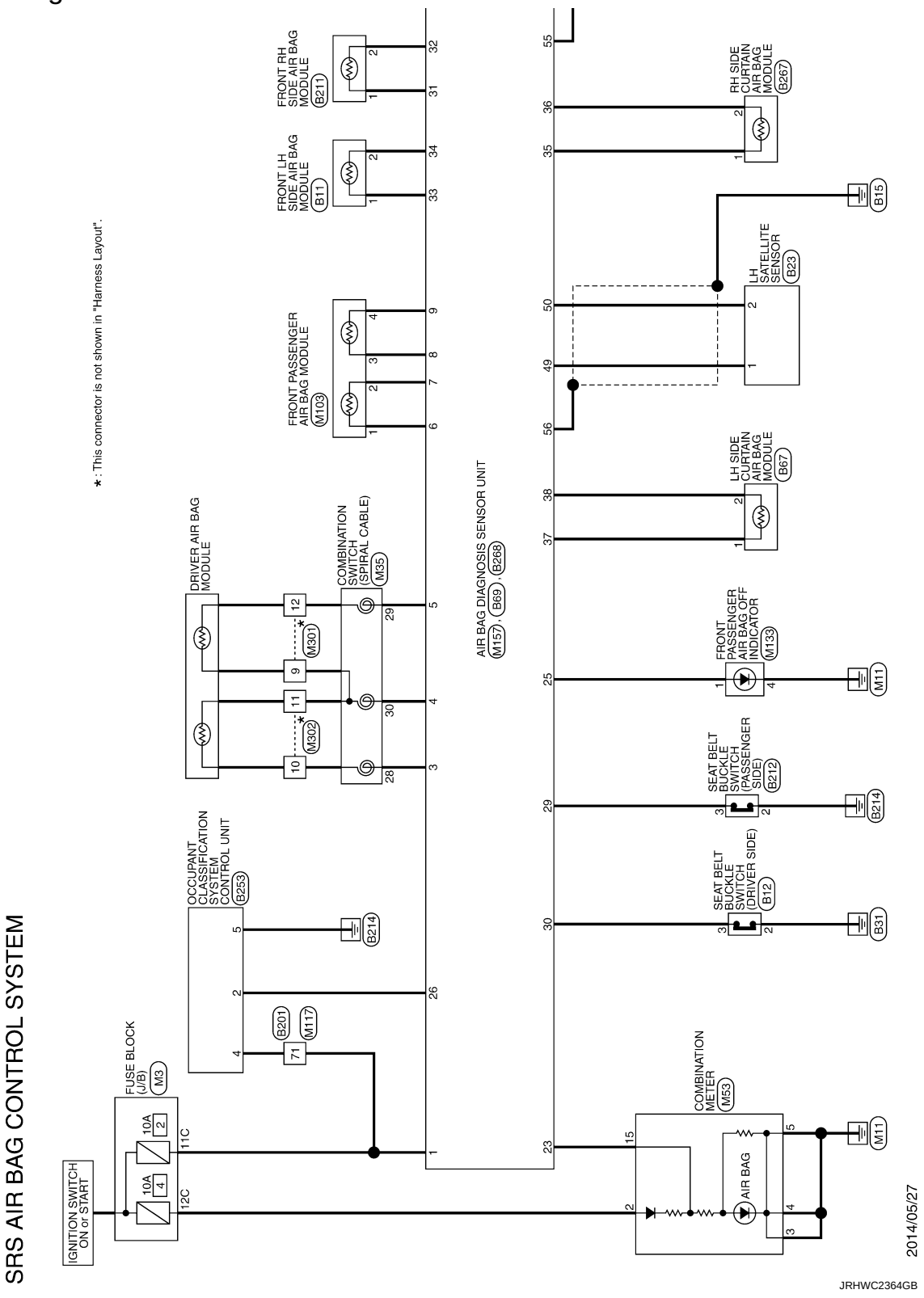
Diagnostic item	Explanation	Reference page
CONTROL UNIT [B1106-B1111]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	SRC-79, "DTC Logic"
SATELLITE SENS RH [UNIT FAIL] [B1113] [B1114]	RH satellite sensor is out of order	SRC-81, "DTC Logic"
SATELLITE SENS RH [COMM FAIL] [B1115] [UNMATCH] [B1116]	RH satellite sensor is out of order or mis-installation	SRC-83, "DTC Logic"
SATELLITE SENS LH [UNIT FAIL] [B1118] [B1119]	LH satellite sensor is out of order	SRC-85, "DTC Logic"
SATELLITE SENS LH [COMM FAIL] [B1120] [UNMATCH] [B1121]	LH satellite sensor is out of order or mis-installation	SRC-87, "DTC Logic"
CONTROL UNIT [B1122-B1127]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	SRC-89, "DTC Logic"
SIDE MODULE RH [OPEN] [B1129]	Front RH side air bag module circuit is open	SRC-91, "DTC Logic"
SIDE MODULE RH [VB-SHORT] [B1130]	Front RH side air bag module circuit is shorted to some power supply circuit	SRC-93, "DTC Logic"
SIDE MODULE RH [GND-SHORT] [B1131]	Front RH side air bag module circuit is shorted to ground	SRC-95, "DTC Logic"
SIDE MODULE RH [SHORT] [B1132]	Front LH seat belt pre-tensioner circuits are shorted to each other	SRC-97, "DTC Logic"
SIDE MODULE LH [OPEN] [B1134]	Front LH side air bag module circuit is open	SRC-99, "DTC Logic"
SIDE MODULE LH [VB-SHORT] [B1135]	Front LH side air bag module circuit is shorted to some power supply circuit	SRC-101, "DTC Logic"
SIDE MODULE LH [GND-SHORT] [B1136]	Front LH side air bag module circuit is shorted to ground	SRC-103, "DTC Logic"
SIDE MODULE LH [SHORT] [B1137]	Front LH side air bag module circuits are shorted to each other	SRC-105, "DTC Logic"
CURTAIN MODULE RH [OPEN] [B1145]	RH side curtain air bag module circuit is open	SRC-109, "DTC Logic"
CURTAIN MODULE RH [VB-SHORT] [B1146]	RH side curtain air bag module circuit is shorted to some power supply circuit	SRC-111, "DTC Logic"
CURTAIN MODULE RH [GND-SHORT] [B1147]	RH side curtain air bag module circuit is shorted to ground	SRC-113, "DTC Logic"

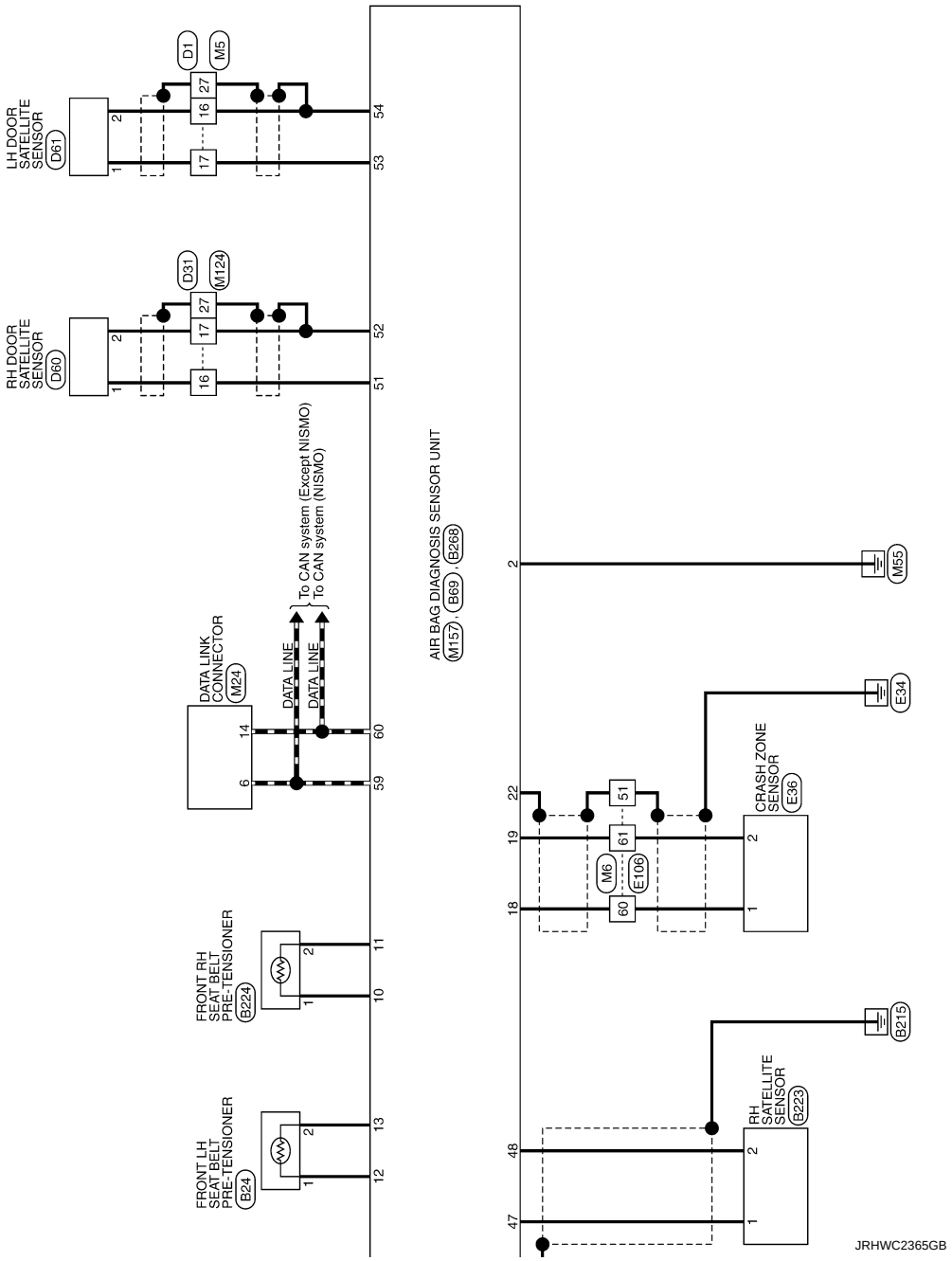
Diagnostic item	Explanation	Reference page
CURTAIN MODULE RH [SHORT] [B1148]	RH side curtain air bag module circuits are shorted to each other	SRC-115, "DTC Logic"
CURTAIN MODULE LH [OPEN] [B1150]	LH side curtain air bag module circuit is open	SRC-117, "DTC Logic"
CURTAIN MODULE LH [VB-SHORT] [B1151]	LH side curtain air bag module circuit is shorted to some power supply circuits	SRC-119, "DTC Logic"
CURTAIN MODULE LH [GND-SHORT] [B1152]	LH side curtain air bag module circuit is shorted to ground	SRC-121, "DTC Logic"
CURTAIN MODULE LH [SHORT] [B1153]	LH side curtain air bag module circuits are shorted to each other	SRC-123, "DTC Logic"
CONTROL UNIT [B1154-B1157]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	SRC-125, "DTC Logic"
CONTROL UNIT [B1202-B1207]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	SRC-127, "DTC Logic"
FRONTAL COLLISION DETECTION [B1209]	Front seat belt pre-tensioner and front air bag is deployed	SRC-129, "DTC Logic"
SIDE COLLISION DETECTION [B1210]	Front side air bag and side curtain air bag are deployed	SRC-131, "DTC Logic"
FR-RH DOOR SATEL SENS [SENSOR MALFUNCTION] [B1336] [B1337]	RH door satellite sensor is malfunctioning	SRC-132, "DTC Logic"
FR-RH DOOR SATEL SENS [COMM MALFUNCTION] [B1338] [B1340-B1342]	RH door satellite sensor is malfunctioning	SRC-134, "DTC Logic"
FR-RH DOOR SATEL SENS [MIS-INSTALLATION] [B1339]	RH door satellite sensor is out of the specified specification	SRC-136, "DTC Logic"
FR-LH DOOR SATEL SENS [SENSOR MALFUNCTION] [B1343] [B1344]	LH door satellite sensor is malfunctioning	SRC-137, "DTC Logic"
FR-LH DOOR SATEL SENS [COMM MALFUNCTION] [B1345] [B1347-B1349]	LH door satellite sensor is malfunctioning	SRC-139, "DTC Logic"

Diagnostic item	Explanation	Reference page
FR-LH DOOR SATEL SENS [MIS-INSTALLATION] [B1346]	LH door satellite sensor is out of the specified specification	SRC-141, "DTC Logic"
FR DOOR SATEL SENS [B1350-] [B1351]	Door satellite sensor is malfunctioning	SRC-142, "DTC Logic"

Wiring Diagram - SRS AIR BAG CONTROL SYSTEM -

INFOID:0000000011867264




LH DOOR SATELLITE SENSOR D61
D1
M5
RH DOOR SATELLITE SENSOR D60
D31
M124
DATA LINK CONNECTOR M24
DATA LINE
DATA LINE
To CAN system (Except NISMO)
To CAN system (NISMO)
FRONT RH SEAT BELT PRE-TENSIONER B224
FRONT LH SEAT BELT PRE-TENSIONER B24
AIR BAG DIAGNOSIS SENSOR UNIT M157, B69, B268
CRASH ZONE SENSOR E36
M6
E106
RH SATELLITE SENSOR B223
M55
E34
B215
JRHWC2365GB

SRS AIR BAG CONTROL SYSTEM

Connector No.	B11
Connector Name	FRONT LH SIDE AIR BAG MODULE
Connector Type	TK02FY-EX-1V

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	Y	-

Connector No.	B12
Connector Name	SEAT BELT BUCKLE SWITCH (DRIVER SIDE)
Connector Type	TK03FW

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
2	B	-
3	SB	-

Connector No.	B23
Connector Name	LH SATELLITE SENSOR
Connector Type	HK02FY-1V-EX-LC

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	L	-

Connector No.	B24
Connector Name	FRONT LH SEAT BELT PRE-TENSIONER
Connector Type	ACB02FY

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	Y	-

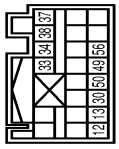
Connector No.	B67
Connector Name	LH SIDE CURTAIN AIR BAG MODULE
Connector Type	ACB02FY

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	R	-

Connector No.	B69
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	NH22FY-2V-EX

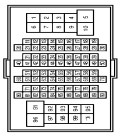
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
12	Y	PLH(+)
13	Y	PLH(-)
30	SB	LH BUCKLE SW INPUT
33	Y	SLH(+)
34	Y	SLH(-)
37	G	CLH(+)
38	R	CLH(-)
49	P	SATELLITE LH(+)
50	L	SATELLITE LH(-)
56	SHIELD	GROUND

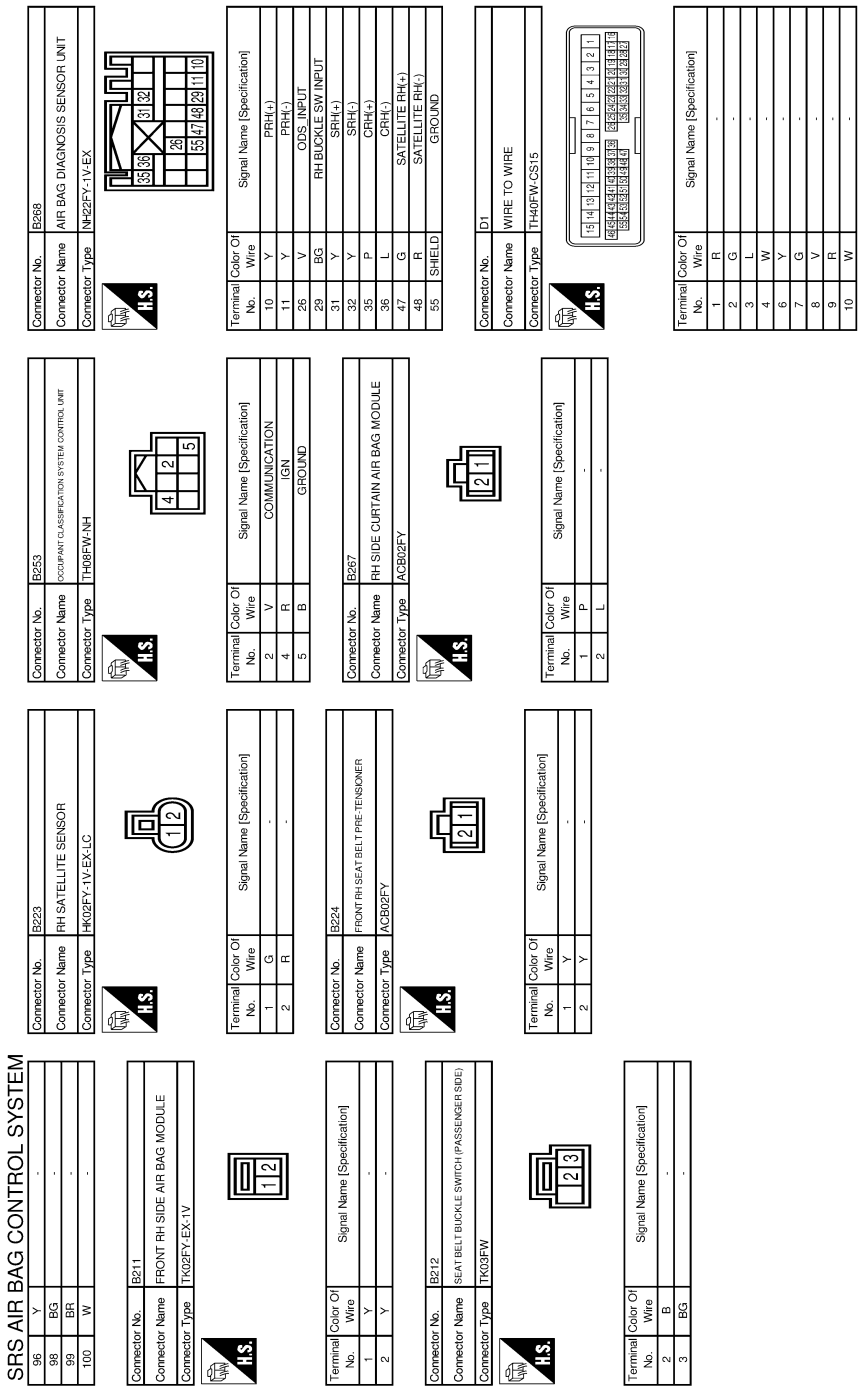
Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
6	G	-
7	V	-
8	BG	-
9	W	-
10	R	-
31	V	-
32	LG	-
33	BR	-
34	L	-
40	P	-
41	GR	-
42	Y	-
43	Y	-
44	V	-
45	W	-
51	SB	-
52	G	-
53	BR	-
54	V	-
60	R	-
61	P	-
62	L	-
63	LG	-
64	GR	-
69	P	-
70	L	-
71	R	-
80	L	-
81	SB	-
82	V	-
83	B	-
84	Y	-
85	BR	-
86	SHIELD	-
87	W	-

JRHWC3266GB



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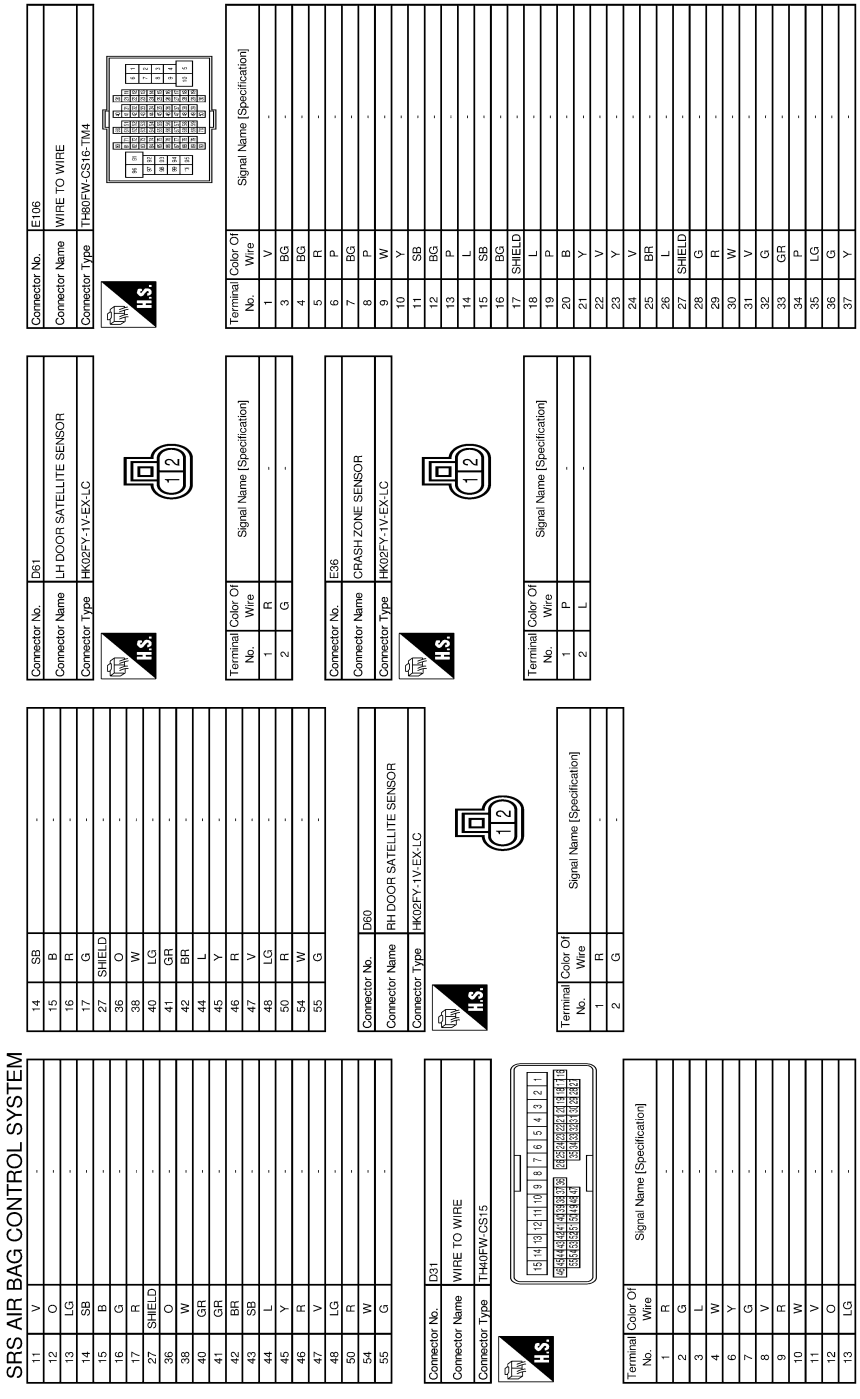

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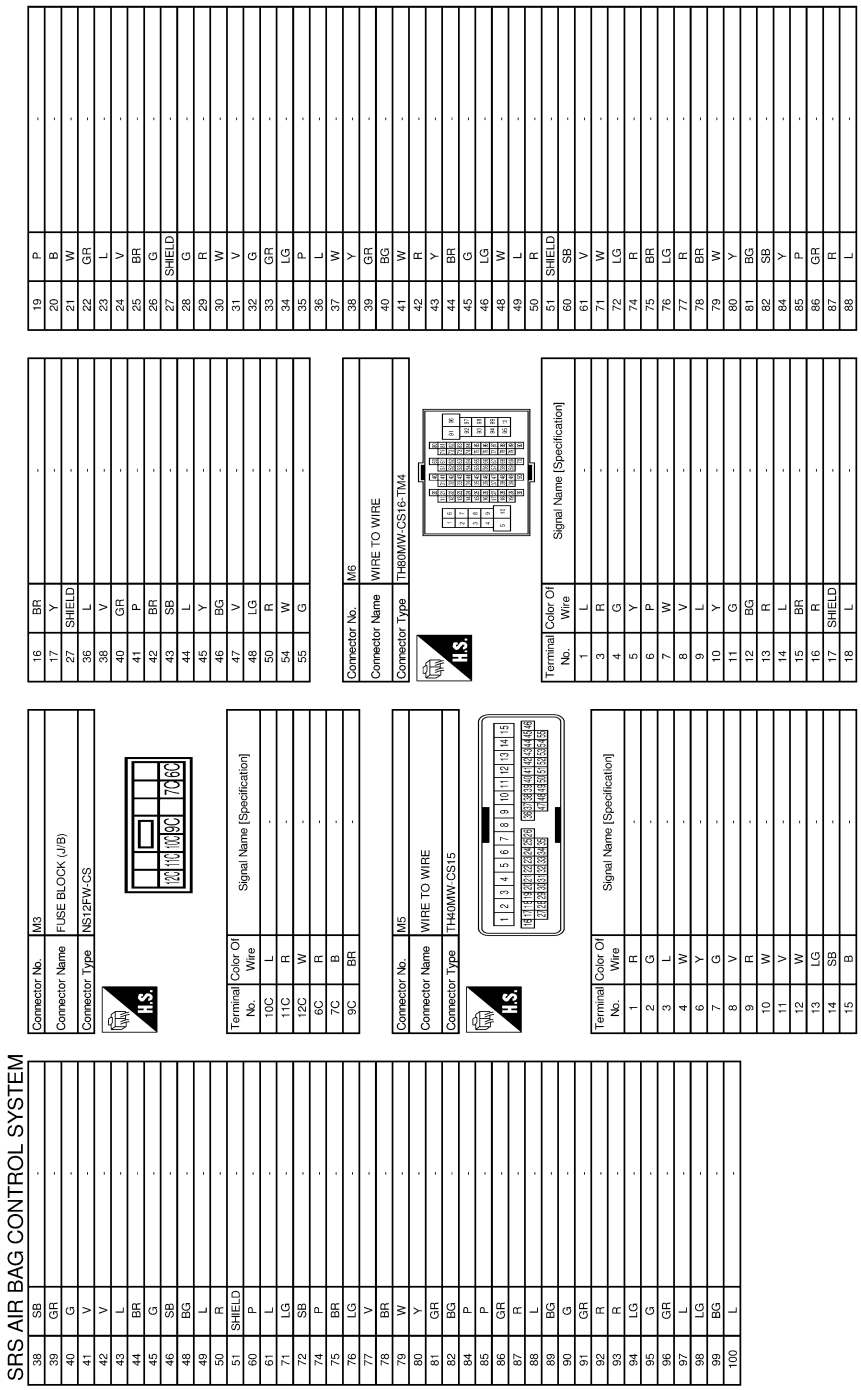

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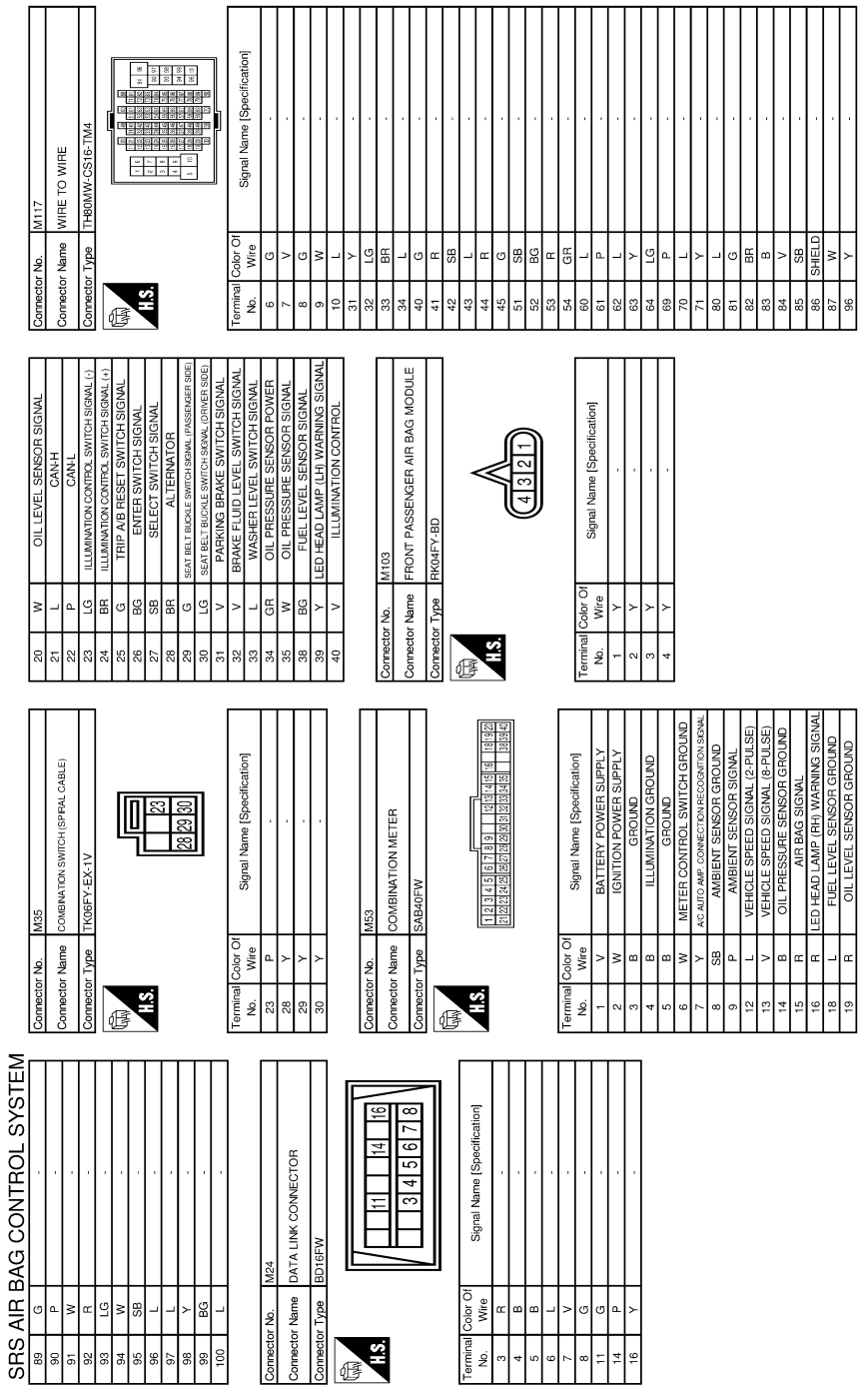

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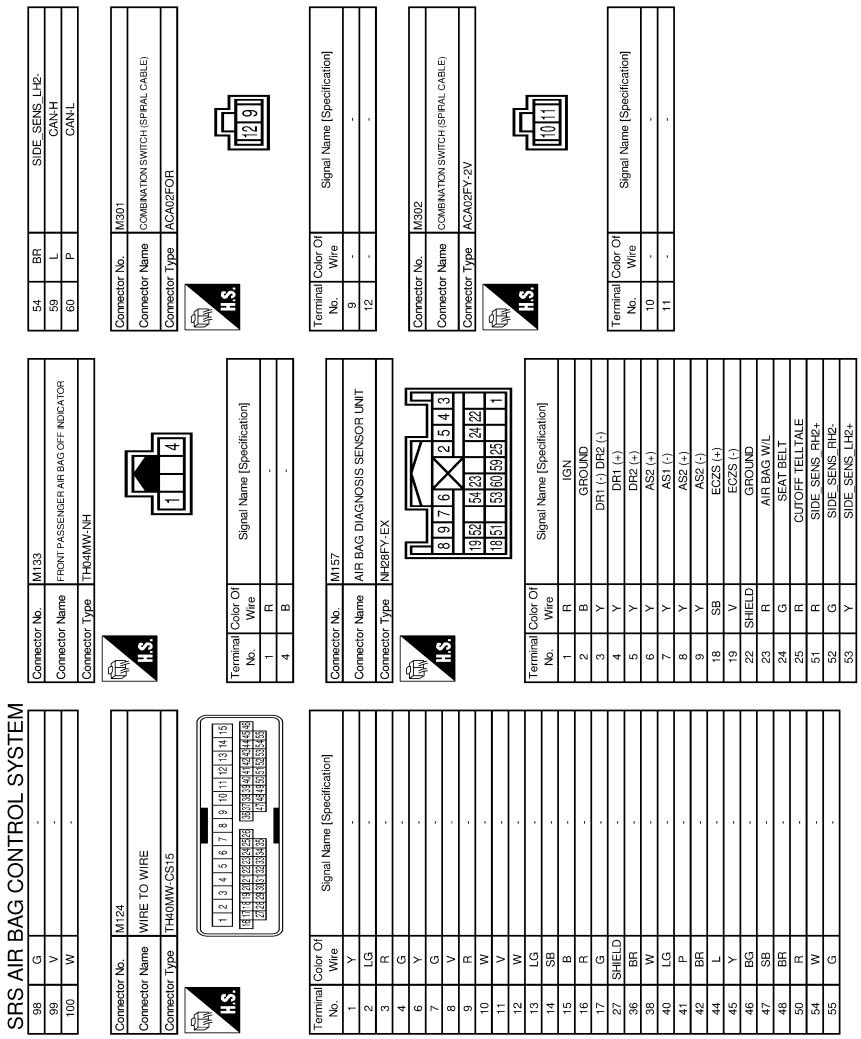


JRHWC3271GB

SYMPTOM DIAGNOSIS

SEAT BELT WARNING LAMP DOES NOT TURN OFF

Diagnosis Procedure

INFOID:0000000011489373

1. CHECK SEAT BELT BUCKLE SWITCH CIRCUIT (DRIVER SIDE)

Check seat belt buckle switch circuit (driver side). Refer to SBC-5, "DRIVER SIDE : Component Function Check"

Is the inspection result normal?

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

2. .CHECK SEAT BELT BUCKLE SWITCH CIRCUIT (PASSENGER SIDE)

Check seat belt buckle switch circuit (passenger side). Rer to SBC-6, "PASSENGER SIDE : Component Function Check"

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3. .CHECK SEAT BELT WARNING LAMP CIRCUIT

Check seat belt warning lamp circuit. Rer to SBC-9, "Diagnosis Procedure"

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

4. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> GO TO 1.

SEAT BELT WARNING LAMP DOES NOT TURN ON

Diagnosis Procedure

INFOID:0000000011489374

1.CHECK SELF DIAGNOSIS RESULT

Perform “COMBINATION METER” self diagnostic result. Refer to MWI-55, "CONSULT Function (METER/M&A)"

Is DTC detected?

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

2.CHECK POWER SUPPLY

Check fuse are not blown.
Check ignition power supply of combination meter. Refer to MWI-68, "COMBINATION METER : Diagnosis Procedure"

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3.CHECK SEAT BELT BUCKLE SWITCH CIRCUIT (DRIVER SIDE)

Check seat belt buckle switch circuit (driver side). Refer to SBC-5, "DRIVER SIDE : Component Function Check"

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

4..CHECK SEAT BELT BUCKLE SWITCH CIRCUIT (PASSENGER SIDE)

Check seat belt buckle switch circuit (passenger side). Rer to SBC-6, "PASSENGER SIDE : Component Function Check"

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace the malfunctioning parts.

5..CHECK SEAT BELT WARNING LAMP CIRCUIT

Check seat belt warning lamp circuit. Rer to SBC-9, "Diagnosis Procedure"

Is the inspection result normal?

YES >> GO TO 6.
NO >> Repair or replace the malfunctioning parts.

6.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> GO TO 1.

PRECAUTION

PRECAUTIONS

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

INFOID:0000000011807026

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.**

Precautions Necessary for Steering Wheel Rotation After Battery Disconnection

INFOID:0000000011804393

CAUTION:

Comply with the following cautions to prevent any error and malfunction.

- **Before removing and installing any control units, first turn the ignition switch to the LOCK position, then disconnect both battery cables.**
- **After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.**
- **Always use CONSULT to perform self-diagnosis as a part of each function inspection after finishing work. If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.**

For vehicle with steering lock unit, if the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.
If turning the steering wheel is required with the battery disconnected or discharged, follow the operation procedure below before starting the repair operation.

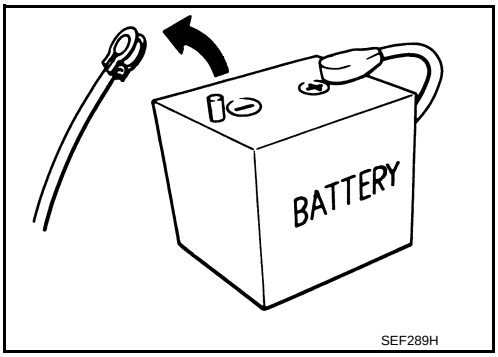
OPERATION PROCEDURE

1. Connect both battery cables.
   NOTE:
   Supply power using jumper cables if battery is discharged.
2. Turn the ignition switch to ACC position.
   (At this time, the steering lock will be released.)
3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.

4. Perform the necessary repair operation.
5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the ignition switch is turned to LOCK position.)
6. Perform self-diagnosis check of all control units using CONSULT.

Precautions for Removing Battery Terminal

INFOID:0000000011804395



- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
  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.
- 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.