

SECTION

SBC

SEAT BELT CONTROL SYSTEM

CONTENTS

BASIC INSPECTION	3	ALTERNATOR SIGNAL CIRCUIT	15
DIAGNOSIS AND REPAIR WORKFLOW	3	Description	15
Work Flow	3	Component Function Check	15
FUNCTION DIAGNOSIS	4	Diagnosis Procedure	15
SEAT BELT WARNING LAMP	4	ECU DIAGNOSIS	16
System Diagram	4	COMBINATION METER	16
System Description	4	Reference Value	16
Component Parts Location	5	Wiring Diagram - SEAT BELT WARNING LAMP	
Component Description	5	CONTROL SYSTEM -	21
COMPONENT DIAGNOSIS	6	Fail Safe	23
INDICATOR UNIT POWER SUPPLY CIRCUIT	6	DTC Index	24
Component Function Check	6	SYMPTOM DIAGNOSIS	25
Diagnosis Procedure	6	DRIVER SIDE SEAT BELT WARNING LAMP	
FRONT SEAT BELT BUCKLE SWITCH (DRIVER SIDE)	7	DOES NOT OPERATE	25
Description	7	Diagnosis Procedure	25
Component Function Check	7	PASSENGER SIDE SEAT BELT WARNING	
Diagnosis Procedure	7	LAMP DOES NOT OPERATE	26
Component Inspection	8	Diagnosis Procedure	26
FRONT SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)	9	REAR SEAT BELT WARNING LAMP DOES	
Description	9	NOT OPERATE	27
Component Function Check	9	Diagnosis Procedure	27
Diagnosis Procedure	9	WARNING LAMP DOES NOT OPERATE EXCEPT FOR DRIVER SIDE	28
Component Inspection (seat belt buckle switch passenger side)	11	Diagnosis Procedure	28
Component Inspection (occupant detection unit)	11	DRIVER SIDE SEAT BELT WARNING LAMP	
REAR SEAT BELT BUCKLE SWITCH	12	DOES NOT TURN OFF	29
Description	12	Diagnosis Procedure	29
Component Function Check	12	PASSENGER SIDE SEAT BELT WARNING	
Diagnosis Procedure	12	LAMP DOES NOT TURN OFF	30
Component Inspection	13	Diagnosis Procedure	30
		REAR SEAT BELT WARNING LAMP DOES	
		NOT TURN OFF	31

Diagnosis Procedure	31	PRECAUTIONS	34
REAR SEAT BELT WARNING LAMP DOES NOT TURN OFF AFTER A LAPSE OF SPECIFIED TIME	32	Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"	34
Diagnosis Procedure	32	ON-VEHICLE MAINTENANCE	35
PASSENGER SEAT IS OCCUPIED BUT SEAT BELT WARNING LAMP DOES NOT LIGHT UP	33	PRE-INSPECTION FOR DIAGNOSTIC	35
Diagnosis Procedure	33	Basic Inspection	35
PRECAUTION	34	ON-VEHICLE REPAIR	36
		INDICATOR UNIT	36
		Exploded View	36
		Removal and Installation	36

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000001059495

DETAILED FLOW

1.OBTAIN INFORMATION ABOUT SYMPTOM

Interview the customer to obtain the malfunction information (conditions and environment when the malfunction occurred) as much 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.PERFORM "BASIC INSPECTION"

Perform the basic inspection.Refer to [SBC-35. "Basic Inspection"](#).

>> GO TO 4.

4.IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS"

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

>> GO TO 5.

5.IDENTIFY MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS"

Perform the diagnosis with "Component diagnosis" of the applicable system.

>> GO TO 6.

6.REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 7.

7.FINAL CHECK

Check that malfunctions are not reproduced when obtaining the malfunction information from the customer, referring to the symptom inspection result in step 2.

Is the malfunctioning part repaired or replaced?

- YES >> Trouble diagnosis is completed.
NO >> GO TO 3.

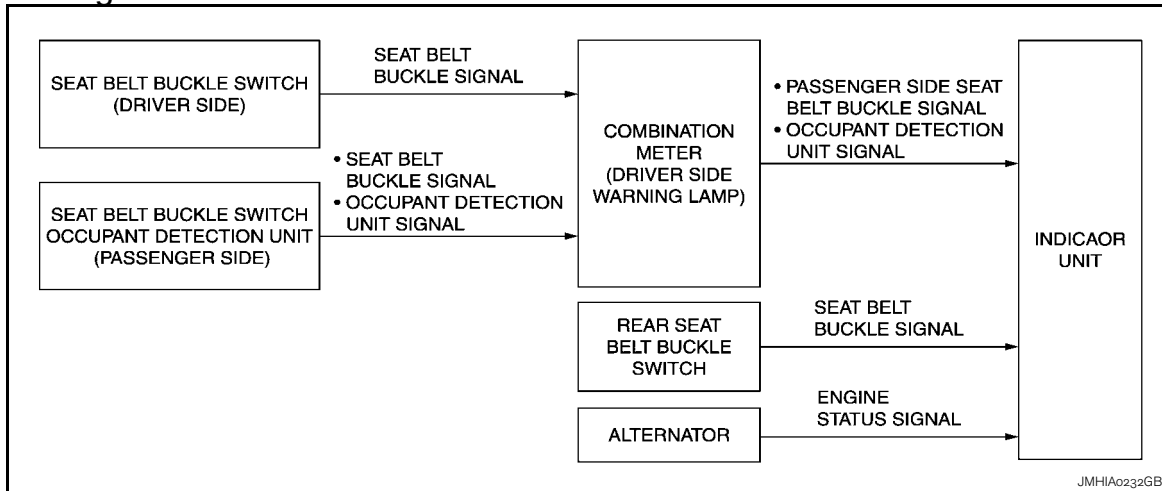
SEAT BELT WARNING LAMP

< FUNCTION DIAGNOSIS >

FUNCTION DIAGNOSIS

SEAT BELT WARNING LAMP

System Diagram



System Description

INFOID:000000001059500

Seat belt warning lamp will light up if the driver has started the engine or turned ignition switch to ON position.

DRIVER SIDE SEAT BELT WARNING LAMP OPERATION

- Driver side seat belt warning lamp is built in combination meter.
- Warning lamp lights up if seat belt buckle switch is in OFF position (unbuckled).
- Warning lamp turns off if seat belt buckle switch is in ON position (buckled).

PASSENGER SIDE SEAT BELT WARNING LAMP OPERATION

- Passenger side seat belt warning lamp is located on center consol indicator unit.
- There is an occupant detection unit situated inside passenger seat. Note that passenger seat belt warning lamp will not light up if the seat is unoccupied.
- If passenger seat is occupied and seat belt buckle is in OFF position warning lamp will light up.
- If passenger seat is occupied and seat belt buckle is in ON position warning lamp will turn off.

REAR SEAT BELT WARNING LAMP OPERATION

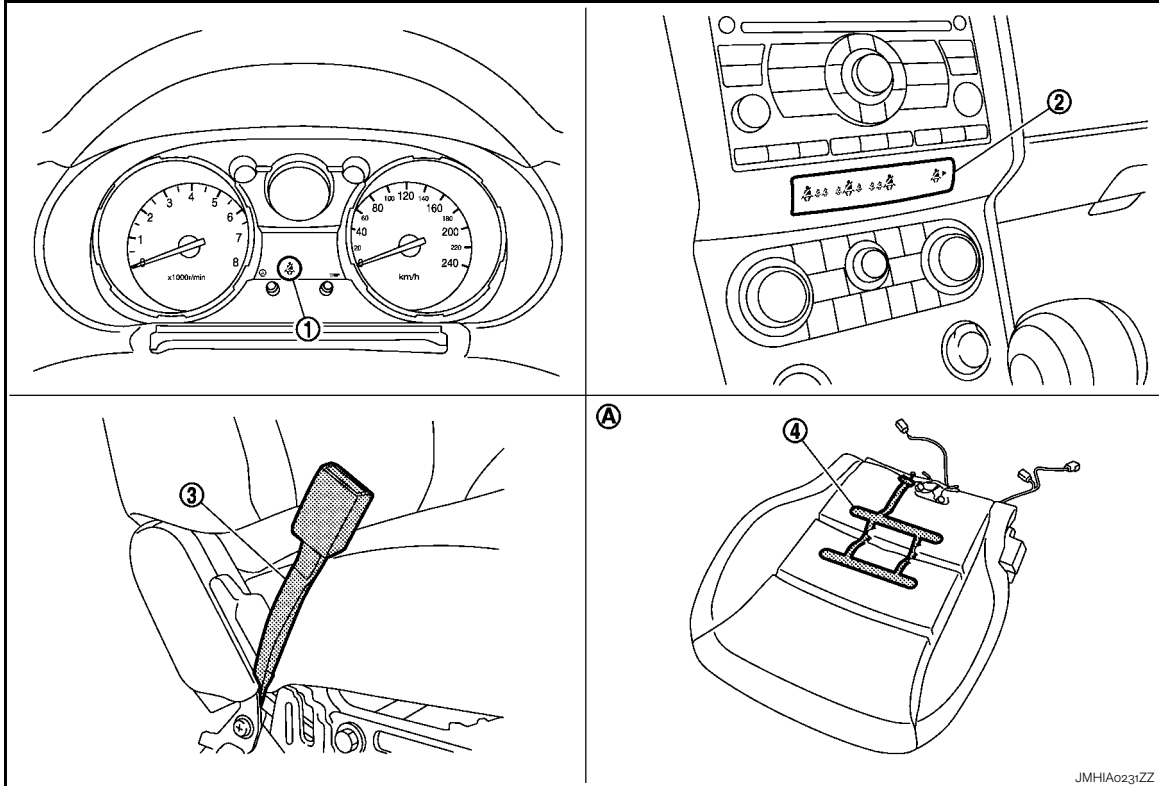
- Rear seat belt warning lamps are located on center consol indicator unit.
- Warning lamp lights up if seat belt buckle switch is in OFF position (unbuckled)
- Warning lamp turns off if seat belt buckle switch is in ON position (buckled).
- Regardless of rear seat belt status, warning lamp turns off approximately 35 seconds (the specified time) after the engine has started.

SEAT BELT WARNING LAMP

< FUNCTION DIAGNOSIS >

Component Parts Location

INFOID:000000001059501



1. Seat belt warning lamp (built in combination meter M34)
2. Indicator unit M91
3. Seat belt buckle switch (Driver side) B22
4. Occupant detection unit B48
- A. Behind seat cushion trim

Component Description

INFOID:000000001059502

Item	Function
Combination meter	• Driver seat belt warning lamp is built in combination meter. • Detects the status of driver side passenger side seat belt buckle switch and controls warning lamp operation.
Indicator unit	• Passenger side and rear seat belt warning lamps are built in indicator unit. • Detects the status of rear seat belt buckle switch and controls the warning lamp illumination. • Judges the status of engine by detection of the signal transmitted by alternator and performs the control of seat belt warning lamp ON/OFF function.
Seat belt buckle switch (driver/passenger/rear)	Detects seat belt feature status transmits signal to combination meter or to indicator unit.

INDICATOR UNIT POWER SUPPLY CIRCUIT

< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS

INDICATOR UNIT POWER SUPPLY CIRCUIT

Component Function Check

INFOID:000000001080161

1.CHECK INDICATOR UNIT FUNCTION

1. All seat belt buckle are unbuckle.
2. Turn ignition switch ON.
3. Check indicator unit operation.

Is the inspection results normal?

- YES >> Indicator unit power supply circuit is OK.
NO >> Refer to [SBC-6, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001080162

1.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect indicator unit connector.
3. Check voltage between indicator unit connector and ground.

Terminals		Voltage(V) (Approx.)
(+)	(-)	
Indicator unit connector	Terminal	
M91	7	Ground
		Battery voltage

Is the inspection result normal?

- YES >> Refer to [GI-39, "Intermittent Incident"](#).
NO >> Repair or replace power supply circuit.

FRONT SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

< COMPONENT DIAGNOSIS >

FRONT SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

Description

INFOID:000000001083098

- Detects if the seat belt is fastened or unfastened.
- Warning lamp turns OFF if the seat belt is fastened.

Component Function Check

INFOID:000000001083099

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

Check "SEAT BELT W/L" in DATA MONITOR mode with CONSULT-III

Driver seat belt is unfastened

SEAT BELT W/L : ON

Driver seat belt is fastened

SEAT BELT W/L : OFF

Is the inspection results normal?

YES >> Seat belt buckle switch (driver side) function is OK.

NO >> Refer to [SBC-7, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001083100

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

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

Combination meter connector	Terminal		Condition	Voltage (V) (Approx.)
	(+)	(-)		
M34	35	Ground	Driver seat belt is unfastened	0
			Driver seat belt is fastened	5

Is the inspection result normal?

YES >> Refer to [GI-39, "Intermittent Incident"](#)

NO >> GO TO 2.

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

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

Combination meter connector	Terminal	Seat belt buckle switch (driver side) connector	terminal	Continuity
M34	35	B22	1	Existed

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

Combination meter connector	Terminal	Ground	Continuity
M34	35		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK GROUND CIRCUIT

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

Seat belt buckle switch (driver side) connector	Terminal	Ground	Continuity
B22	2		Existed

Is the inspection result normal?

YES >> GO TO 4.

FRONT SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

< COMPONENT DIAGNOSIS >

NO >> Repair or replace harness.

4.CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

Check seat belt buckle switch (driver side).

Refer to [SBC-8. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace seat belt buckle switch (driver side). Refer to [SB-8. "SEAT BELT BUCKLE : Removal and Installation"](#).

5.CHECK COMBINATION METER OUTPUT SIGNAL

1. Turn ignition switch ON.
2. Connect combination meter connector.
3. Check voltage between combination meter connector and ground.

Combination meter connector	Terminal		Voltage (V) (Approx.)
	(+)	(-)	
M34	35	Ground	5

Is the inspection result normal?

YES >> Refer to [GI-39. "Intermittent Incident"](#).

NO >> Replace combination meter. Refer to [MWI-72. "Removal and Installation"](#).

Component Inspection

INFOID:0000000001083101

1.CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

Check continuity between seat belt buckle switch (driver side) while performing the insertion operation to the seat belt buckle.

Seat belt buckle switch connector (driver side)	Terminal		Condition	Continuity
	1	2	When seat belt is unfastened	Existed
B22			When seat belt is fastened	Not existed

Is the inspection result normal?

YES >> INSPECTION END.

NO >> Replace seat belt buckle switch (driver side). Refer to [SB-8. "SEAT BELT BUCKLE : Removal and Installation"](#).

FRONT SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)

< COMPONENT DIAGNOSIS >

FRONT SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)

Description

INFOID:000000001084939

- Detects if the seat belt is fastened or unfastened.
- Warning lamp turns OFF if the seat belt is fastened.

Component Function Check

INFOID:000000001083103

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

Check if the warning lamp turns OFF as soon as the seat belt is fastened.

Is the inspection results normal?

- YES >> Seat belt buckle switch (passenger side) is OK.
NO >> Refer to [SBC-9, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001085564

1.CHECK INDICATOR UNIT HARNESS

1. Turn ignition switch OFF.
2. Disconnect indicator unit and combination meter connector.
3. Check continuity between indicator unit and combination meter harness connector.

Indicator unit connector	Terminal	Combination meter connector	terminal	Continuity
M91	1	M34	14	Existed

4. Check continuity between indicator unit harness connector and ground.

Indicator unit connector	Terminal	Ground	Continuity
M91	1		Not existed

Is the inspection result normal?

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

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

1. Connect combination meter connector.
2. Turn ignition switch ON.
3. Sits in the passenger seat.
4. Check voltage between combination meter connector and ground.

Combination meter connector	Terminal		Condition	Voltage (V) (Approx.)
	(+)	(-)		
M34	36	Ground	Passenger seat belt is unfastened	0
			Passenger seat belt is fastened	Battery voltage

Is the inspection result normal?

- YES >> Refer to [GI-39, "Intermittent Incident"](#).
NO >> GO TO 3.

3.CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE) HARNESS

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

Combination meter connector	Terminal	Seat belt buckle switch (passenger side) connector	terminal	Continuity
M34	36	B23	1	Existed

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

FRONT SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)

< COMPONENT DIAGNOSIS >

Combination meter connector	Terminal	Ground	Continuity
M34	36		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK OCCUPANT DETECTION UNIT HARNESS

1. Disconnect occupant detection unit connector.
2. Check continuity between seat belt buckle switch (passenger side) and occupant detection unit harness connector.

Seat belt buckle switch (passenger side) connector	Terminal	Occupant detection unit connector	terminal	Continuity
B23	2	B48	1	Existed

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

Seat belt buckle switch (passenger side) connector	Terminal	Ground	Continuity
B23	2		Not existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. CHECK GROUND CIRCUIT

Check continuity between occupant detection unit harness connector and ground.

Occupant detection unit connector	Terminal	Ground	Continuity
B48	2		Existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6. CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)

Check seat belt buckle switch (passenger side).

Refer to [SBC-11. "Component Inspection \(seat belt buckle switch passenger side\)"](#).

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace seat belt buckle switch (passenger side). Refer to [SB-8. "SEAT BELT BUCKLE : Removal and Installation"](#).

7. CHECK OCCUPANT DETECTION UNIT

Check occupant detection unit.

Refer to [SBC-11. "Component Inspection \(occupant detection unit\)"](#).

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace occupant detection unit. Refer to [SE-25. "Disassembly and Assembly"](#).

8. CHECK COMBINATION METER OUTPUT SIGNAL

1. Connect combination meter connector.
2. Turn ignition switch ON.
3. Check voltage between combination meter and ground.

Combination meter connector	Terminal		Voltage (V) (Approx.)
	(+)	(-)	
M34	36	Ground	Battery voltage

FRONT SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)

< COMPONENT DIAGNOSIS >

Is the inspection result normal?

YES >> Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace combination meter. Refer to [MWI-72, "Removal and Installation"](#).

Component Inspection (seat belt buckle switch passenger side)

INFOID:0000000001085839

1.CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)

Check continuity between seat belt buckle switch (passenger side) while performing the insertion operation to the seat belt buckle.

Seat belt buckle switch connector (passenger side)	Terminal		Condition	Continuity
B23	1	2	When seat belt is unfastened	Existed
			When seat belt is fastened	Not existed

Is the inspection result normal?

YES >> INSPECTION END.

NO >> Replace seat belt buckle switch (passenger side). Refer to [SB-8, "SEAT BELT BUCKLE : Removal and Installation"](#).

Component Inspection (occupant detection unit)

INFOID:0000000001098099

1.CHECK OCCUPANT DETECTION UNIT

Check occupant detection unit.

Occupant detection unit connector	Terminal		Condition	Continuity
B48	1	2	When getting in the passenger seat	Existed
			Other than above	Not existed

Is the inspection result normal?

YES >> INSPECTION END.

NO >> Replace occupant detection unit. Refer to [SE-25, "Disassembly and Assembly"](#).

REAR SEAT BELT BUCKLE SWITCH

< COMPONENT DIAGNOSIS >

REAR SEAT BELT BUCKLE SWITCH

Description

INFOID:000000001094017

- Detects if the seat belt is fastened or unfastened.
- Warning lamp turns OFF if the seat belt is fastened.

Component Function Check

INFOID:000000001094018

1.CHECK REAR SEAT BELT BUCKLE SWITCH FUNCTION

Check if the warning lamp turns OFF as soon as the seat belt is fastened.

Is the inspection results normal?

YES >> Rear seat belt buckle switch is OK.

NO >> Refer to [SBC-12. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001085566

1.CHECK REAR SEAT BELT BUCKLE CIRCUIT

1. Turn ignition switch ON.
2. Check voltage between rear seat belt buckle switch and ground.

Rear seat belt buckle switch connector	Terminal		Condition	Voltage (V) (Approx.)
	(+)	(-)		
B63 (LH and center)	1	Ground	Rear seat belt (LH) is fastened	Battery voltage
			Rear seat belt (LH) is unfastened	0
	3		Rear seat belt (center) is fastened	Battery voltage
			Rear seat belt (center) is unfastened	0
B64 (RH and center)	1		Rear seat belt (RH) is fastened	Battery voltage
			Rear seat belt (RH) is unfastened	0
	3		Rear seat belt (center) is fastened	Battery voltage
			Rear seat belt (center) is unfastened	0

Is the inspection result normal?

YES >> Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 2.

2.CHECK INDICATOR UNIT OUTPUT SIGNAL

Check voltage between indicator unit connector and ground.

Indicator unit connector	Terminal	Ground	Voltage (V) (Approx.)
M91	3		Battery voltage
	4		
	5		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace indicator unit. Refer to [SBC-36. "Removal and Installation"](#).

3.CHECK REAR SEAT BELT BUCKLE SWITCH HARNESS

1. Turn ignition switch OFF.
2. Disconnect indicator unit and rear seat belt buckle switch connector.
3. Check continuity between indicator unit and rear seat belt buckle switch harness connector.

REAR SEAT BELT BUCKLE SWITCH

< COMPONENT DIAGNOSIS >

Indicator unit connector	Terminal	Rear seat belt buckle switch connector	terminal	Continuity
M91	3	B63 (LH and center)	1	Existed
	4		3	
	5	B64 (RH and center)	3	
			1	

4. Check continuity between indicator unit connector and ground.

Indicator unit connector	Terminal		Continuity
M91	3	Ground	Not existed
	4		
	5		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK GROUND CIRCUIT

Check continuity between rear seat belt buckle switch connector and ground.

Rear seat belt buckle switch connector	Terminal		Continuity
B63 (LH and center)	2	Ground	Existed
	4		
B64 (RH and center)	2		
	4		

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5.CHECK REAR SEAT BELT BUKLE SWITCH

Check rear seat belt buckle switch.

Refer to [SBC-13, "Component Inspection"](#).

Is the inspection result normal?

YES >> Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace rear seat belt buckle switch. Refer to [SB-17, "SEAT BELT BUCKLE : Removal and Installation"](#).

Component Inspection

INFOID:000000001088995

1.CHECK SEAT BELT BUCKLE SWITCH

Check continuity between rear seat belt buckle switch while performing the insertion operation to the rear seat belt buckle.

Rear seat belt buckle switch connector	Terminal		Condition	Continuity
B63 (LH and center)	1	2	Rear seat belt (LH) is unfastened	Existed
			Rear seat belt (LH) is fastened	Not existed
	3	4	Rear seat belt (center) is unfastened	Existed
			Rear seat belt (center) is fastened	Not existed
B64 (RH and center)	1	2	Rear seat belt (RH) is unfastened	Existed
			Rear seat belt (RH) is fastened	Not existed
	3	4	Rear seat belt (center) is unfastened	Existed
			Rear seat belt (center) is fastened	Not existed

REAR SEAT BELT BUCKLE SWITCH

< COMPONENT DIAGNOSIS >

Is the inspection result normal?

YES >> INSPECTION END.

NO >> Replace seat belt buckle switch. Refer to [SB-17, "SEAT BELT BUCKLE : Removal and Installation"](#).

ALTERNATOR SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

ALTERNATOR SIGNAL CIRCUIT

Description

INFOID:000000001080171

Transmits the "engine started" signal to indicator unit.

Component Function Check

INFOID:000000001080172

1.CHECK ALTERNATOR SIGNAL CIRCUIT

Check if the warning lamp turns OFF, approximately 35 seconds after the engine has started.

Is the inspection results normal?

- YES >> Alternator signal circuit is OK.
NO >> Refer to [SBC-15, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001080173

1.CHECK INDICATOR UNIT INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect indicator unit connector.
3. Turn ignition switch ON.
4. Check voltage between indicator unit harness connector and ground.

Indicator unit connector	Terminal		Condition	Voltage (V) (Approx.)
	(+)	(-)		
M91	6	Ground	Engine running	Battery voltage
			Other than above	0

Is the inspection result normal?

- YES >> Replace indicator unit. Refer to [SBC-36, "Removal and Installation"](#).
NO >> GO TO 2.

2.CHECK ALTERNATOR HARNESS

1. Turn ignition switch OFF.
2. Disconnect alternator connector.
3. Check continuity between indicator unit and alternator harness connector.

Indicator unit connector	Terminal	Alternator connector	terminal	Continuity
M91	6	R5 ^{*1}	3 ^{*1}	Existed
		F60 ^{*2}	4 ^{*2}	

^{*1} With gasoline engine

^{*2} With diesel engine

4. Check continuity between indicator unit harness connector and ground.

Indicator unit connector	Terminal	Ground	Continuity
M91	6		Not existed

Is the inspection result normal?

- YES >> Refer to [GI-39, "Intermittent Incident"](#).
NO >> Repair or replace harness.

COMBINATION METER

< ECU DIAGNOSIS >

ECU DIAGNOSIS

COMBINATION METER

Reference Value

INFOID:000000001102416

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition		Value/Status
SPEED METER [km/h]	Ignition switch ON	While driving	Equivalent to speedometer reading NOTE: 655.35 is displayed when the malfunction signal is received
SPEED OUTPUT [km/h]	Ignition switch ON	While driving	Equivalent to speedometer reading NOTE: 655.35 is displayed when the malfunction signal is received
TACHO METER [rpm]	Ignition switch ON	While driving	Equivalent to tachometer reading NOTE: 8191.875 is displayed when the malfunction signal is received
W TEMP METER [°C]	Ignition switch ON	—	Values according to engine coolant temperature NOTE: 215 is displayed when the malfunction signal is input
FUEL METER [lit]	Ignition switch ON	—	Values according to fuel level
DISTANCE [km]	Ignition switch ON	—	Possible driving distance calculated by combination meter
FUEL W/L	Ignition switch ON	Low-fuel warning lamp ON	On
		Low-fuel warning lamp OFF	Off
MIL	Ignition switch ON	Malfunction indicator lamp ON	On
		Malfunction indicator lamp OFF	Off
SEAT BELT W/L	Ignition switch ON	Seat belt warning lamp ON	On
		Seat belt warning lamp OFF	Off
BUZZER	Ignition switch ON	Buzzer ON	On
		Buzzer OFF	Off
C-ENG 2 W/L	Ignition switch ON	Malfunction indicator lamp 2 ON	On
		Malfunction indicator lamp 2 OFF	Off
GLOW IND	Ignition switch ON	Glow indicator lamp ON	On
		Glow indicator lamp OFF	Off
DOOR W/L	Ignition switch ON	Door warning lamp ON	On
		Door warning lamp OFF	Off
HI-BEAM IND	Ignition switch ON	High-beam indicator lamp ON	On
		High-beam indicator lamp OFF	Off
TURN IND	Ignition switch ON	Turn signal indicator lamp ON	On
		Turn signal indicator lamp OFF	Off
FR FOG IND	Ignition switch ON	Front fog lamp indicator lamp ON	On
		Front fog lamp indicator lamp OFF	Off
RR FOG IND	Ignition switch ON	Rear fog lamp indicator lamp ON	On
		Rear fog lamp indicator lamp OFF	Off

COMBINATION METER

< ECU DIAGNOSIS >

Monitor Item	Condition		Value/Status
OIL W/L	Ignition switch ON	Oil pressure warning lamp ON	On
		Oil pressure warning lamp OFF	Off
LIGHT IND	Ignition switch ON	Tail lamp indicator lamp ON	On
		Tail lamp indicator lamp OFF	Off
DPF W/L	Ignition switch ON	DPF warning lamp ON	On
		DPF warning lamp OFF	Off
VDC/TCS IND	Ignition switch ON	VDC OFF indicator lamp ON	On
		VDC OFF indicator lamp OFF	Off
ABS W/L	Ignition switch ON	ABS warning lamp ON	On
		ABS warning lamp OFF	Off
SLIP IND	Ignition switch ON	SLIP Indicator lamp ON	On
		SLIP indicator lamp OFF	Off
BRAKE W/L	Ignition switch ON	Brake warning lamp ON	On
		Brake warning lamp OFF	Off
OIL LEVEL IND	Ignition switch ON	Oil level 1 is detected	LEVEL1
		Oil level 2 is detected	LEVEL2
		Oil level 3 is detected	LEVEL3
		Oil level 4 is detected	LEVEL4
		Oil level 5 is detected	LEVEL5
		OIL LOW is detected	On
		Oil level is not detected	CR NG
KEY G W/L	Ignition switch ON	KEY warning lamp (green) ON	On
		KEY warning lamp (green) OFF	Off
KEY R W/L	Ignition switch ON	KEY warning lamp (red) ON	On
		KEY warning lamp (red) OFF	Off
KEY KNOB IND	Ignition switch ON	LOCK warning lamp ON	On
		LOCK warning lamp OFF	Off
M RANGE SW	Ignition switch ON	MANUAL MODE	On
		Other than the above	Off
NM RANGE SW	Ignition switch ON	MANUAL MODE	Off
		Other than the above	On
AT SFT UP SW	Ignition switch ON	Selector lever (+) position	On
		Other than the above	Off
AT SFT DWN SW	Ignition switch ON	Selector lever (-) position	On
		Other than the above	Off
P RANGE IND	Ignition switch ON	Selector lever in P position	On
		Other than the above	Off
R RANGE IND	Ignition switch ON	Selector lever in R position	On
		Other than the above	Off
N RANGE IND	Ignition switch ON	Selector lever in N position	On
		Other than the above	Off
D RANGE IND	Ignition switch ON	Selector lever in D position	On
		Other than the above	Off

COMBINATION METER

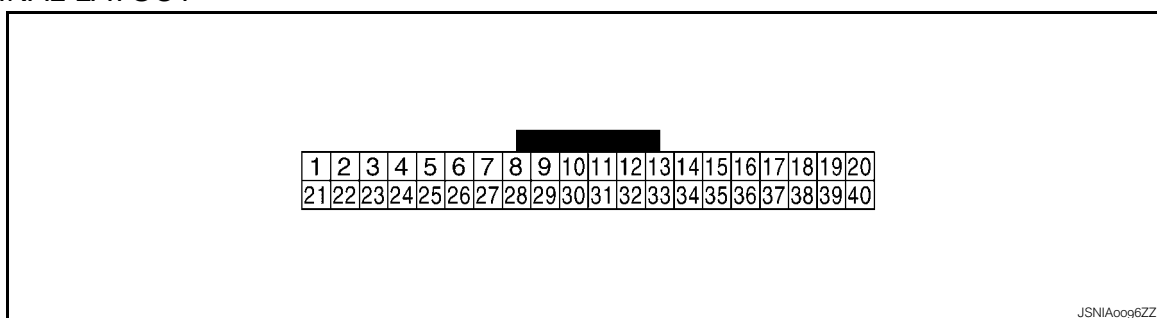
< ECU DIAGNOSIS >

Monitor Item	Condition		Value/Status
4 RANGE IND	Ignition switch ON	Shift indicator 4 is displayed	On
		Other than the above	Off
3 RANGE IND	Ignition switch ON	Shift indicator 3 is displayed	On
		Other than the above	Off
2 RANGE IND	Ignition switch ON	Shift indicator 2 is displayed	On
		Other than the above	Off
AT CHECK-W/L	Ignition switch ON	TCM electronic control system warning lamp ON	On
		TCM electronic control system warning lamp OFF	Off
CVT IND	Ignition switch ON	CVT warning lamp ON	On
		CVT warning lamp OFF	Off
CRUISE IND	Ignition switch ON	Cruise indicator lamp ON	On
		Cruise indicator lamp OFF	Off
SET IND	Ignition switch ON	SET indicator lamp ON	On
		SET indicator lamp OFF	Off
4WD LOCK SW	Ignition switch ON	4WD LOCK switch ON	On
		4WD LOCK switch OFF	Off
4WD LOCK IND	Ignition switch ON	4WD LOCK indicator lamp ON	On
		4WD LOCK indicator lamp OFF	Off
4WD W/L	Ignition switch ON	4WD warning lamp ON	On
		4WD warning lamp OFF	Off

NOTE:

Some items are not available according to vehicle specification.

TERMINAL LAYOUT

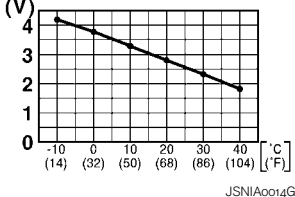
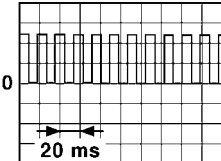


PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	—	Signal name	Input/ Output			
1 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
2 (GR)	Ground	IGN signal	Input	Ignition switch ON	—	Battery voltage
3 (B)	Ground	Ground	—	Ignition switch ON	—	0 V

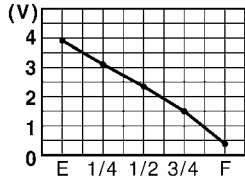
COMBINATION METER

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	—	Signal name	Input/ Output			
11 (B)*1 (R)*2	Ground	Steering switch (trip com- puter) signal	Input	Ignition switch ON	Press the steering switch (trip computer)	0 V
					Other than the above	5 V
15 (W)	Ground	Air bag signal	Input	Ignition switch ON	Air bag warning lamp ON	4 V
					Air bag warning lamp OFF	0 V
19 (V)	Ground	OAT sensor signal	Input	Ignition switch ON	—	 JSNIA0014GB
20 (SB)	Ground	OAT sensor ground	—	Ignition switch ON	—	0 V
21 (L)	—	CAN-H	—	—	—	—
22 (P)	—	CAN-L	—	—	—	—
23 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
24 (G)	Ground	Fuel level sensor signal ground	—	Ignition switch ON	—	0 V
25 (L)	Ground	Alternator signal	Input	Ignition switch ON	Charge warning lamp ON	0 V
					Charge warning lamp OFF	12 V
26 (V)	Ground	Parking brake switch signal	Input	Ignition switch ON	Parking brake ON	0 V
					Parking brake OFF	5 V
27 (BR)	Ground	Brake fluid level switch sig- nal	Input	Ignition switch ON	Brake fluid level is normal	5 V
					Brake fluid level is less than LOW level	0 V
28 (SB)	Ground	Security signal	Input	Ignition switch ON	Security warning lamp ON	0 V
					Security warning lamp OFF	12 V
31 (Y)	Ground	Vehicle speed signal (8 pulse)	Output	Ignition switch ON	Vehicle speed is approxi- mately 40 km/h (24.9 MPH)	NOTE: The maximum voltage varies de- pending on the specification (destination unit).  20 ms JSNIA0012GB

COMBINATION METER

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
32 (Y)	Ground	Oil level sensor signal	Input	Ignition switch ON	—	Refer to MWI-34, "Component Inspection" . NOTE: The measurement cannot be performed because the signal is input for a moment with the ignition switch ON.
33 (P)	Ground	Oil level sensor signal ground	—	Ignition switch ON	—	0 V
34 (B)	Ground	Fuel level sensor signal	Input	Ignition switch ON	—	 JSNIA0322GB
35 (O)	Ground	Seat belt buckle switch signal (driver side)	Input	Ignition switch ON	When driver seat belt is fastened	5 V
					When driver seat belt is unfastened	0 V
36 (GR)	Ground	Seat belt buckle switch signal (passenger side)	Input	Ignition switch ON	- When getting in the passenger seat - When passenger seat belt is fastened	12 V
					- When getting in the passenger seat - When passenger seat belt is not fastened	0 V
37 (R/Y)	Ground	Not manual mode signal	Input	Ignition switch ON	Manual mode	12 V
					Other than the above	0 V
38 (LG)	Ground	Manual mode shift down signal	Input	Ignition switch ON	Selector lever down operation	0 V
					Other than the above	12 V
39 (G/W)	Ground	Manual mode shift up signal	Input	Ignition switch ON	Selector lever up operation	0 V
					Other than the above	12 V
40 (L)	Ground	Manual mode signal	Input	Ignition switch ON	Manual mode	0 V
					Other than the above	12 V

*1 : With NAVI

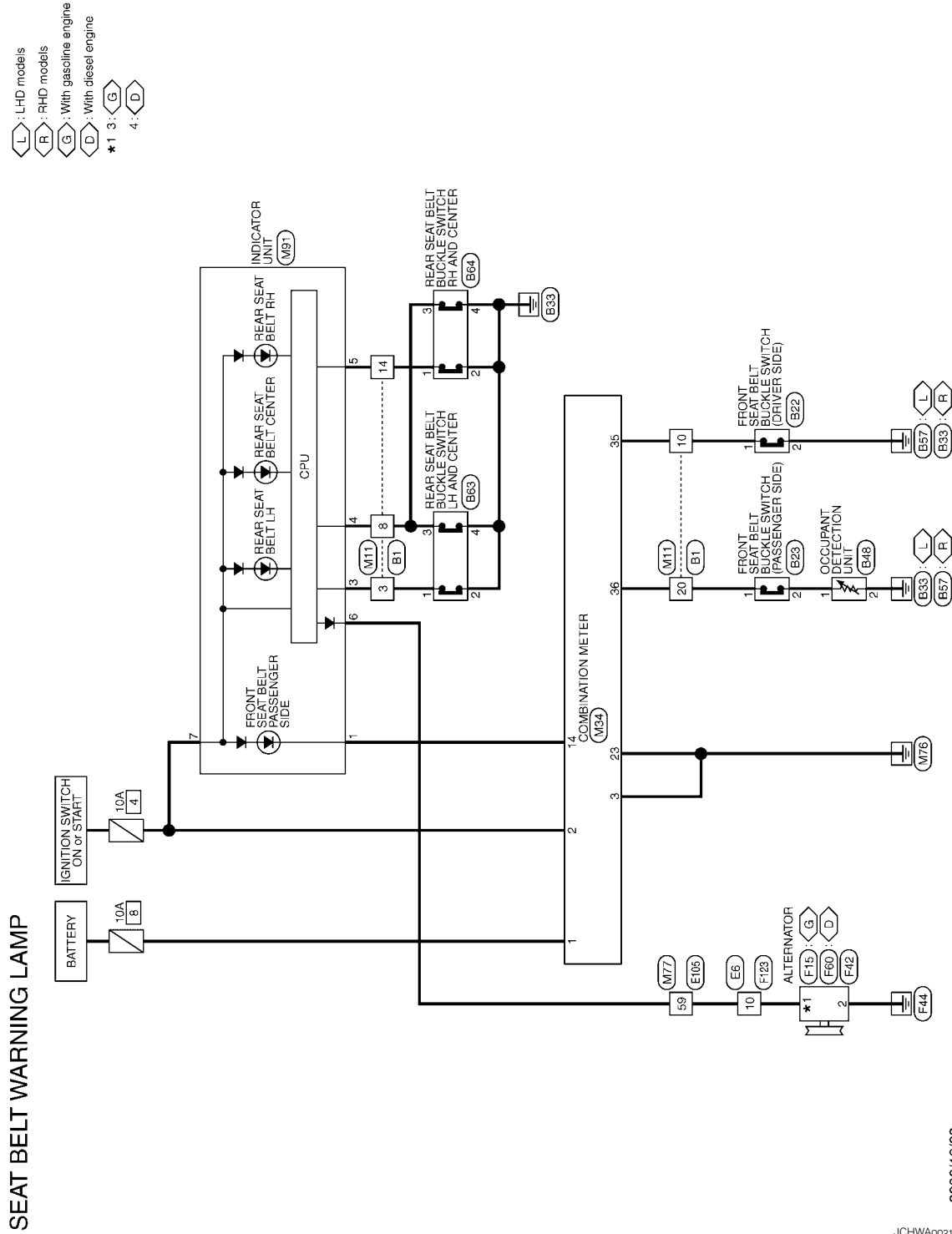
*2 : Without NAVI

COMBINATION METER

< ECU DIAGNOSIS >

Wiring Diagram - SEAT BELT WARNING LAMP CONTROL SYSTEM -

INFOID:000000001102417

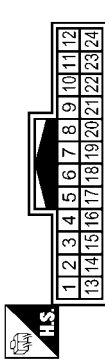


COMBINATION METER

< ECU DIAGNOSIS >

SEAT BELT WARNING LAMP

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH24MW



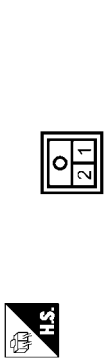
Terminal No.	Color of Wire	Signal Name [Specification]
3	O	-
8	Y	-
10	O	-
14	GR	-
20	GR	-

Connector No.	B22
Connector Name	FRONT SEAT BELT BUCKLE SWITCH (DRIVER SIDE)
Connector Type	CO2FW



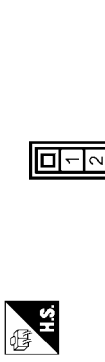
Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-
2	B	-

Connector No.	B23
Connector Name	FRONT SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)
Connector Type	CO2FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	LG	-

Connector No.	B48
Connector Name	OCCUPANT DETECTION UNIT
Connector Type	SO2FW



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

Connector No.	B63
Connector Name	REAR SEAT BELT BUCKLE SWITCH LH AND CENTER
Connector Type	TH04FW



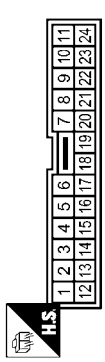
Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-
2	B	-
3	Y	-
4	B	-

Connector No.	B64
Connector Name	REAR SEAT BELT BUCKLE SWITCH RH AND CENTER
Connector Type	TH04FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	B	-
3	Y	-
4	B	-

Connector No.	E6
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-IV



Terminal No.	Color of Wire	Signal Name [Specification]
10	L	-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-NS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
59	L	-

JCHWA0032GB

COMBINATION METER

< ECU DIAGNOSIS >

SEAT BELT WARNING LAMP

Connector No.	F15
Connector Name	ALTERNATOR
Connector Type	HS03FB



Terminal No.	Color of Wire	Signal Name [Specification]
3	L	L

Connector No.	F42
Connector Name	ALTERNATOR
Connector Type	-



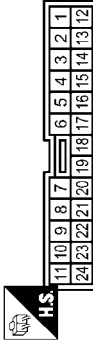
Terminal No.	Color of Wire	Signal Name [Specification]
2	-	GND

Connector No.	F80
Connector Name	ALTERNATOR
Connector Type	FEA02FB



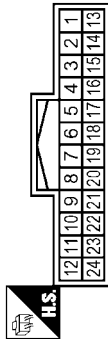
Terminal No.	Color of Wire	Signal Name [Specification]
4	L	S

Connector No.	F123
Connector Name	WIRE TO WIRE
Connector Type	TK24FW-IV



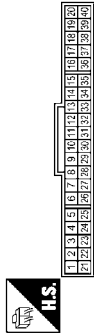
Terminal No.	Color of Wire	Signal Name [Specification]
10	L	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH124FW



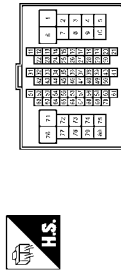
Terminal No.	Color of Wire	Signal Name [Specification]
3	O	-
8	Y	-
10	O	-
14	GR	-
20	GR	-

Connector No.	M24
Connector Name	COMBINATION METER
Connector Type	SA640FW



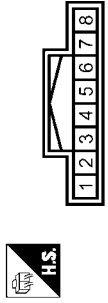
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	BAT
2	GR	IGN
3	B	GND
14	O	AS BELT REMIND
23	B	GND
35	O	SEAT BELT BUCKLE SW (DRIVER SIDE)
36	GR	SEAT BELT BUCKLE SW (PASSENGER SIDE)

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH60FW-NS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
59	L	-

Connector No.	M81
Connector Name	INDICATOR UNIT
Connector Type	TH08FW-IV



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-
3	O	-
4	Y	-
5	GR	-
6	GR	-
7	W/L	-

Fail Safe

The combination meter activates the fail-safe control if the CAN communication lines between each unit are malfunctioning.

JCHWA0033GB

INFOID:000000001102418

COMBINATION METER

< ECU DIAGNOSIS >

Function		Specifications
Speedometer		Reset to zero by suspending communication.
Tachometer		
Meter illumination control		Changed to nighttime mode.
Buzzer		Turned off by suspending communication.
Warning lamp/indicator lamp	ABS warning lamp	Turned on by suspending communication.
	Brake warning lamp	
	EPS OFF indicator lamp	
	VDC OFF indicator lamp	
	SLIP indicator lamp	
	CVT warning lamp	Turned off by suspending communication.
	Oil pressure warning lamp	
	Door warning lamp	
	Malfunction indicator lamp	
	CRUISE indicator lamp	
	Tail lamp indicator	
	Front fog indicator lamp	
	Rear fog indicator lamp	
	Glow indicator lamp	
	Malfunction indicator lamp 2	
	Trailer indicator lamp	
	Key R/G warning lamp	
	KEY LOCK warning lamp	
	High beam indicator lamp	
	Turn signal indicator lamp	

DTC Index

INFOID:000000001102419

Display contents of CONSULT-III	Time	Diagnostic item is detected when ...	Refer to
CAN COMM CIRCUIT [U1000]	CRNT, 1 - 39	Combination meter is not transmitting or receiving CAN communication signal for 2 seconds or more.	MWI-26
VEHICLE SPEED [B2205]	CRNT, 1 - 39	The abnormal vehicle speed signal is input from ABS actuator and electric unit (control unit) for 2 seconds or more.	MWI-27

DRIVER SIDE SEAT BELT WARNING LAMP DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

DRIVER SIDE SEAT BELT WARNING LAMP DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000001080184

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

Check front seat belt buckle switch (driver side).
Refer to [SBC-7, "Component Function Check"](#).

Is the inspection result normal?

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

2.CHECK COMBINATION METER

Check combination meter.
Refer to [MWI-3, "Work Flow"](#).

Is the inspection result normal?

- YES >> Refer to [GI-39, "Intermittent Incident"](#).
- NO >> Repair or replace the malfunctioning parts.

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P

SBC

PASSENGER SIDE SEAT BELT WARNING LAMP DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

PASSENGER SIDE SEAT BELT WARNING LAMP DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000001091054

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

Check front seat belt buckle switch (passenger side).

Refer to [SBC-9, "Component Function Check"](#).

Is the inspection result normal?

YES >> Refer to [GI-39, "Intermittent Incident"](#)

NO >> Repair or replace the malfunctioning parts.

REAR SEAT BELT WARNING LAMP DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

REAR SEAT BELT WARNING LAMP DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000001091055

1.CHECK REAR SEAT BELT BUCKLE SWITCH

Check rear seat belt buckle switch.

Refer to [SBC-12, "Component Function Check"](#).

Is the inspection result normal?

YES >> Refer to [GI-39, "Intermittent Incident"](#).

NO >> Repair or replace the malfunctioning parts.

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P

SBC

WARNING LAMP DOES NOT OPERATE EXCEPT FOR DRIVER SIDE

< SYMPTOM DIAGNOSIS >

WARNING LAMP DOES NOT OPERATE EXCEPT FOR DRIVER SIDE

Diagnosis Procedure

INFOID:0000000001091242

1. CHECK INDICATOR UNIT POWER SUPPLY CIRCUIT

Check indicator unit power supply circuit.

Refer to [SBC-6, "Component Function Check"](#).

Is the inspection result normal?

YES >> Refer to [GI-39, "Intermittent Incident"](#).

NO >> Repair or replace the malfunctioning parts.

DRIVER SIDE SEAT BELT WARNING LAMP DOES NOT TURN OFF

< SYMPTOM DIAGNOSIS >

DRIVER SIDE SEAT BELT WARNING LAMP DOES NOT TURN OFF

Diagnosis Procedure

INFOID:000000001091152

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

Check front seat belt buckle switch (driver side).

Refer to [SBC-7, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK COMBINATION METER

Check combination meter.

Refer to [MWI-3, "Work Flow"](#).

Is the inspection result normal?

YES >> Refer to [GI-39, "Intermittent Incident"](#).

NO >> Repair or replace the malfunctioning parts.

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P

SBC

PASSENGER SIDE SEAT BELT WARNING LAMP DOES NOT TURN OFF

< SYMPTOM DIAGNOSIS >

PASSENGER SIDE SEAT BELT WARNING LAMP DOES NOT TURN OFF

Diagnosis Procedure

INFOID:0000000001091236

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

Check front seat belt buckle switch (passenger side).

Refer to [SBC-9, "Component Function Check"](#).

Is the inspection result normal?

YES >> Refer to [GI-39, "Intermittent Incident"](#)

NO >> Repair or replace the malfunctioning parts.

REAR SEAT BELT WARNING LAMP DOES NOT TURN OFF

< SYMPTOM DIAGNOSIS >

REAR SEAT BELT WARNING LAMP DOES NOT TURN OFF

Diagnosis Procedure

INFOID:000000001091237

1.CHECK REAR SEAT BELT BUCKLE SWITCH

Check rear seat belt buckle switch.

Refer to [SBC-12, "Component Function Check"](#).

Is the inspection result normal?

YES >> Refer to [GI-39, "Intermittent Incident"](#).

NO >> Repair or replace the malfunctioning parts.

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P

SBC

REAR SEAT BELT WARNING LAMP DOES NOT TURN OFF AFTER A LAPSE OF SPECIFIED TIME

< SYMPTOM DIAGNOSIS >

REAR SEAT BELT WARNING LAMP DOES NOT TURN OFF AFTER A LAPSE OF SPECIFIED TIME

Diagnosis Procedure

INFOID:0000000001091060

1. CHECK ALTERNATOR SIGNAL CIRCUIT

Check alternator signal circuit.

Refer to [SBC-15, "Component Function Check"](#).

Is the inspection result normal?

YES >> Refer to [GI-39, "Intermittent Incident"](#).

NO >> Repair or replace the malfunctioning parts.

PASSENGER SEAT IS OCCUPIED BUT SEAT BELT WARNING LAMP DOES NOT LIGHT UP

< SYMPTOM DIAGNOSIS >

PASSENGER SEAT IS OCCUPIED BUT SEAT BELT WARNING LAMP DOES NOT LIGHT UP

Diagnosis Procedure

INFOID:0000000001091238

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

Check front seat belt buckle switch (passenger side).

Refer to [SBC-9, "Component Function Check"](#).

Is the inspection result normal?

- YES >> Refer to [GI-39, "Intermittent Incident"](#)
- NO >> Repair or replace the malfunctioning parts.

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P

SBC

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000001098109

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 SRC and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, 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 the SRC section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRE-INSPECTION FOR DIAGNOSTIC

< ON-VEHICLE MAINTENANCE >

ON-VEHICLE MAINTENANCE

PRE-INSPECTION FOR DIAGNOSTIC

Basic Inspection

INFOID:000000001059487

BASIC INSPECTION

1.INSPECTION START

1. Check the service history.
2. Check the following parts.
 - Fuse/circuit breaker blown.
 - Poor connection, open or short circuit of harness connector.
 - Battery voltage.

Is the inspection result normal?

- YES >> INSPECTION END.
NO >> Repair or replace the malfunctioning parts.

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P

SBC

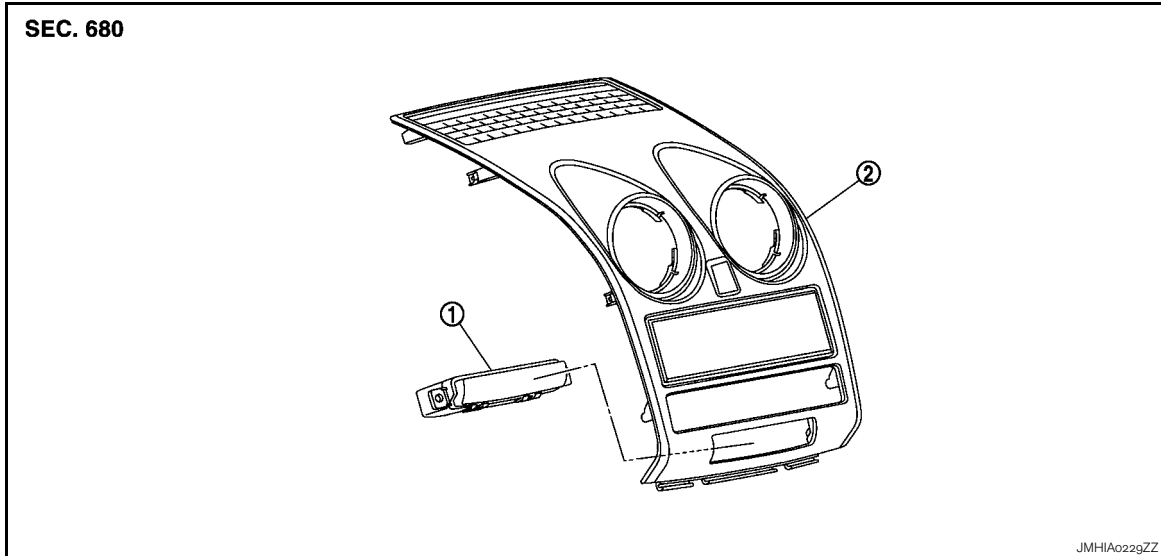
INDICATOR UNIT

< ON-VEHICLE REPAIR >

ON-VEHICLE REPAIR

INDICATOR UNIT

Exploded View



1. Indicator unit

2. Cluster lid C

Removal and Installation

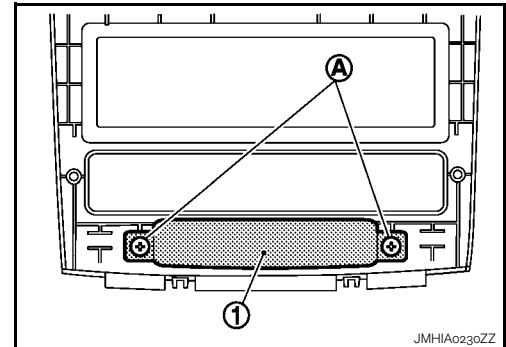
INFOID:000000001059513

REMOVAL

CAUTION:

When removing and installing, use shop cloths to protect parts from damage.

1. Remove the battery negative terminal.
2. Remove the cluster lid C. Refer to [IP-12, "Removal and Installation"](#).
3. Remove the screws (A).
4. Remove indicator unit (1).



INSTALLATION

Install in the reverse order of removal.