SECTION SBC
SEAT BELT CONTROL SYSTEM

CONTENTS

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:0000000001279915

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 brought 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 between 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. Then identify where to start performing the diagnosis based on possible causes and symptoms.

>> GO TO 4.

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

Are all malfunctions crrected?

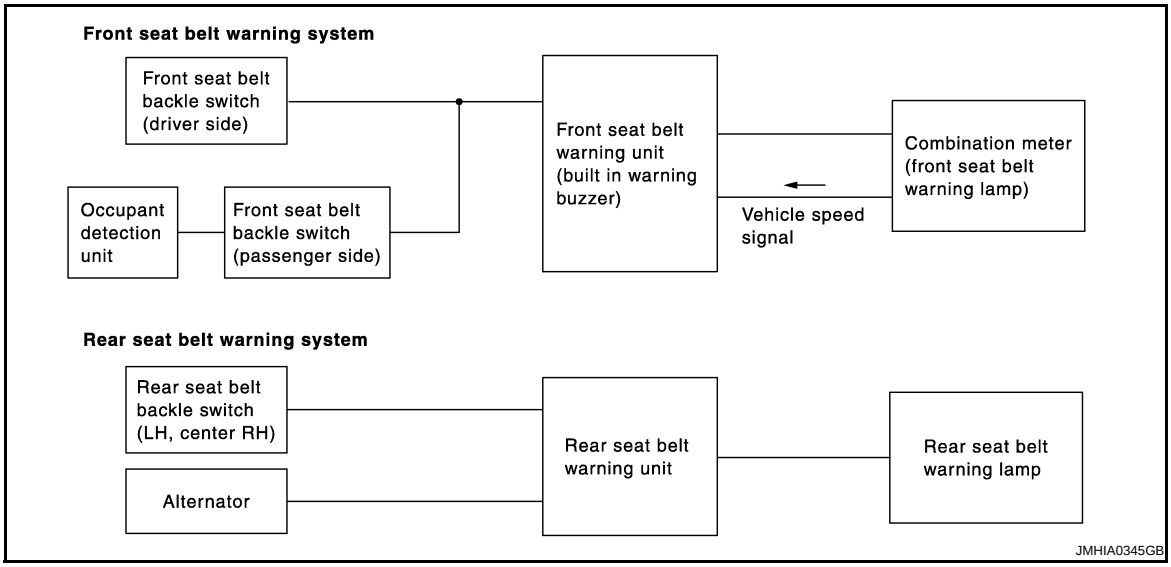
YES >> INSPECTION END
NO >> GO TO 3.

FUNCTION DIAGNOSIS

SEAT BELT WARNING LAMP

System Diagram

INFOID:0000000001279916



System Description

INFOID:0000000001279917

FRONT SEAT BELT WARNING LAMP

- The front seat belt warning lamp illuminates/blinks to warn the occupants when the seat belt is unfastened.
- Front seat belt warning lamp is built in combination meter.
- As there is one seat belt warning lamp for both driver seat and passenger seats, if both seat belts are unfastened, the warning lamp will remain ON.
- There is an occupant detection unit inside the passenger seat, which is connecting in series with the passenger seat belt buckle switch.
- The occupant detection unit detects if the seat is occupied or not.
- When the passenger seat is unoccupied, the front seat belt warning unit detects only the driver seat belt status.

Condition of operation

The front seat belt warning unit operates according to the following speed conditions by illuminating or blinking the lamp:

Vehicle speed less than 25 km/h

- Ignition switch in ON position while driver and passenger seat belts are unfastened. The seat belt warning lamp will light up.
- Passenger seat is occupied while both driver and passenger seat belts are unfastened, the warning lamp will remain ON.
- Passenger seat is unoccupied; the warning lamp goes out as soon as the driver will fasten his seat belt.

Vehicle speed more than 25 km/h

- While driving at more than 25 km/h with any of driver or passenger seats unfastened, the warning lamp will start blinking.

NOTE:

The warning lamp will continue blinking even after decreasing the vehicle speed under 25 km/h.

- When sitting on the passenger seat, the warning lamp will remain ON until both driver and passenger seat belts are fastened.
- When the passenger seat is unoccupied, the warning lamp goes out as soon as the seat belt is fastened.

REAR SEAT BELT WARNING LAMP

The rear seat belt warning lamps are located on the center console and alert the driver and front passenger if any of the rear passenger seat belts have not been securely fastened.

Condition of operation

- After the engine has been started, the rear seat belt warning lights up for approximately 35 seconds if the seat belt is unfastened.
- After the engine has been started for approximately 35 seconds, all the rear seat belts warning lamps will turn OFF regardless of the seat belts status. Therefore if any of the rear seat belts are fastened/unfastened, the unfastened warning lamps will illuminate for 35 seconds.

SEAT BELT WARNING CHIME

- When driving the vehicle with the driver or passenger's seat belt unfastened, the buzzer will sound to warn the driver or passenger.
- The buzzer is built in the front seat belt warning unit.

Condition of operation

The front seat belt warning unit sounds the buzzer for 90 seconds when all the following conditions are met:

- Ignition switch is in the ON position.
- Any of the driver or passenger seat belt is not fastened.
- Vehicle speed more than 25 km/h.

NOTE:

The buzzer continues sounding even after decreasing the vehicle speed under 25km/h but stops after fastening the seat belt.

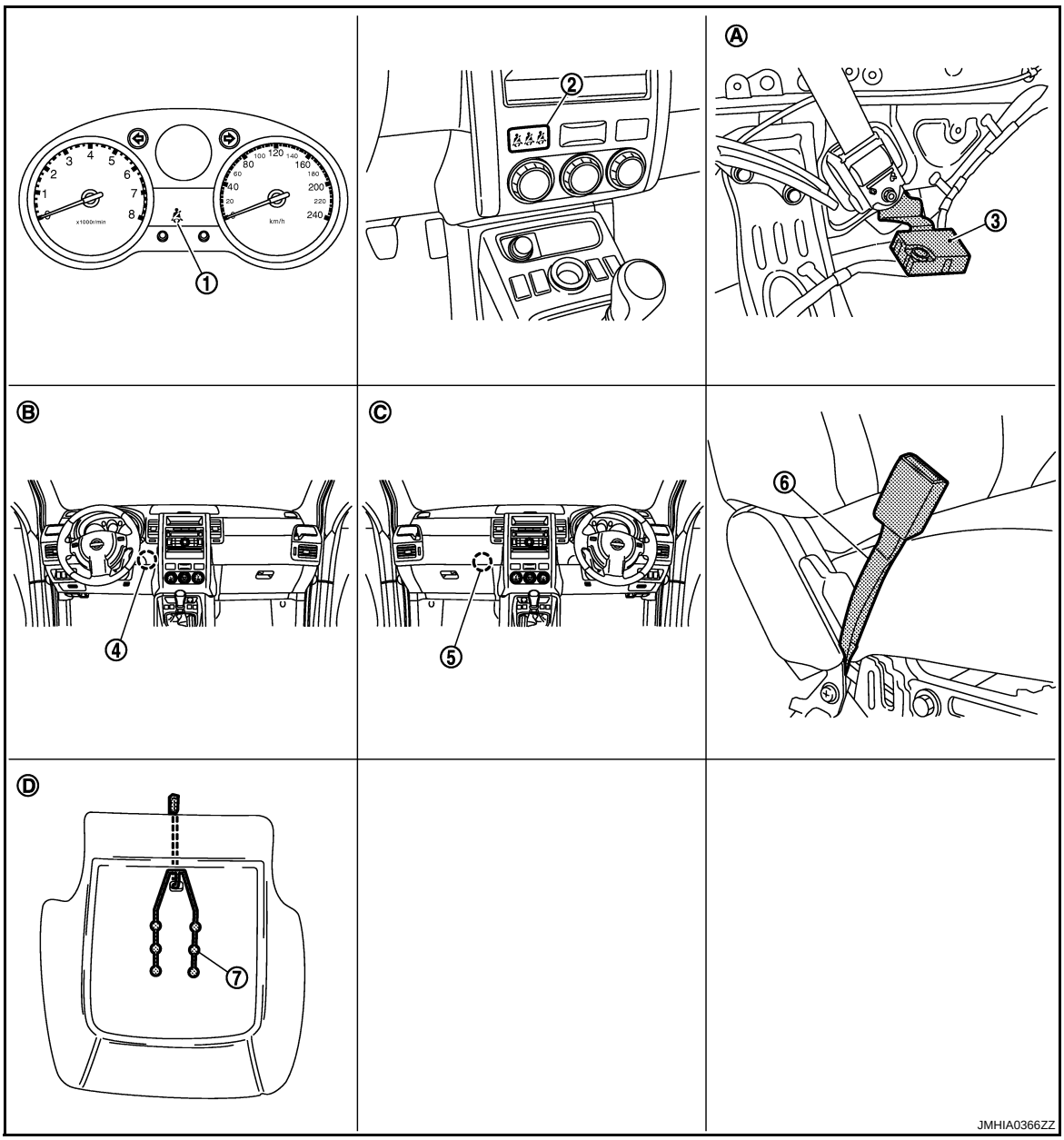
Stop the buzzer sound

The buzzer will stop sounding under the following conditions:

- After 90 seconds
- Ignition switch is turned to OFF.
- The driver and passenger have fastened their seat belts.

Component Parts Location

INFOID:0000000001279918



1.	Front seat belt warning lamp (built in combination meter M34)	2.	Rear seat belt warning lamp M87	3.	Rear seat belt warning unit B49
4.	Front seat belt warning unit M63, M64	5.	Front seat belt warning unit M63, M64	6.	Seat belt buckle switch (Driver side) B22
7.	Occupant detection unit				
A.	View with luggage side lower finisher removed	B.	LHD models	C.	RHD models
D.	Behind seat cushion trim				

Component Description

INFOID:0000000001279919

Item	Function
Combination meter	• Driver and passenger seat belt warning lamp is built in combination meter.
Rear seat belt warning 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.

Item	Function
Seat belt buckle switch (driver/passenger/rear)	Detects seat belt feature status transmits signal to front or rear seat belt warning unit.
Front seat belt warning unit	• Detects the status of driver and passenger seat buckle switch and controls warning lamp operation. • Judges the vehicle speed by detection of the signal transmitted by combination meter and performs the control of seat belt warning chime ON/OFF function.
Rear seat belt warning lamp Occupant detection unit	• Detects the seat status (occupied or unoccupied) and then transmits signal to combination meter or to indicator unit.

COMPONENT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

FRONT SEAT BELT WARNING UNIT

FRONT SEAT BELT WARNING UNIT : Diagnosis Procedure

INFOID:0000000001279921

1.CHECK FUSE

Check 10A fuse (No.1, located in the fuse and fusible link box).

Is the fuse fusing?

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

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect front seat belt warning unit connectors.
3. Turn ignition switch ON.
4. Check voltage between front seat belt warning unit harness connector and ground.

Front seat belt warning unit		Ground	Voltage (Approx.)
Connector	Terminal		
M64	17	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair harness or connector.

3.CHECK GROUND CIRCUIT

Check continuity between front seat belt warning unit harness connector and ground.

Front seat belt warning unit		Ground	Continuity
Connector	Terminal		
M63	16	Ground	Existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Repair harness or connector.

REAR SEAT BELT WARNING UNIT

REAR SEAT BELT WARNING UNIT : Diagnosis Procedure

INFOID:0000000001548700

1.CHECK FUSE

Check that the following fuse is not fusing.
10A fuse (No. 1, located in the fuse and fusible link box).

Is the fuse fusing?

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

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect rear seat belt warning unit connectors.
3. Turn ignition switch ON.
4. Check voltage between rear seat belt warning unit harness connector and ground.

BCM		Ground	Voltage (Approx.)
Connector	Terminal		
M64	17	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair harness or connector.

3. CHECK GROUND CIRCUIT

Check continuity between rear seat belt warning unit harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M63	16	Ground	Existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Repair harness or connector.

FRONT SEAT BELT BUCKLE SWITCH
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000001279922

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

DRIVER SIDE : Component Function Check

INFOID:0000000001559378

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

1. Turn ignition switch ON.
2. Sits in the passenger seat.
3. Front seat belt (passenger side) is fastened.
4. Check if the warning lamp turns OFF as soon as the seat belt (driver side) is fastened.

Is the inspection results normal?

YES >> Seat belt buckle switch (driver side) is OK.
NO >> Refer to SBC-10, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000001279924

1.INSPECTION START

Check which type of seat the vehicle is equipped with.

Which type of seat

Power seat>>GO TO 2.
Manual seat>>GO TO 7.

2.CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE) INPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between front seat belt warning unit harness connector and ground.

Front seat belt warning unit			Condition	Voltage (V) (Approx.)
connector	Terminal			
	(+)	(-)		
M64	21	Ground	Driver seat belt is unfastened	0
			Driver seat belt is fastened	5

Is the inspection result normal?

YES >> GO TO 12.
NO >> GO TO 3.

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

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

Front seat belt warning unit		Seat belt buckle switch (driver side)		Continuity
connector	Terminal	connector	terminal	
M64	21	B22	5	Existed

4. Check continuity between front seat belt warning unit harness connector and ground.

Front seat belt warning unit		Ground	Continuity
connector	Terminal		
M64	21	Ground	Not existed

Is the inspection result normal?

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

4. 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		
B22	6	Ground	Existed

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness.

5. CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

Check seat belt buckle switch (driver side).
Refer to SBC-12, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Replace seat belt buckle switch (driver side). Refer to SB-7, "SEAT BELT BUCKLE : Removal and Installation".

6. CHECK FRONT SEAT BELT WARNING UNIT OUTPUT SIGNAL

1. Turn ignition switch ON.
2. Connect front seat belt warning unit connector.
3. Check voltage between front seat belt warning unit harness connector and ground.

Front seat belt warning unit		Ground	Voltage (V) (Approx.)
connector	Terminal		
M34	35	Ground	5

Is the inspection result normal?

YES >> GO TO 12.
NO >> Replace front seat belt warning unit.

7. CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

1. Turn ignition switch ON.
2. Check voltage between front seat belt warning unit connector and ground.

Combination meter		Ground	Condition	Voltage (V) (Approx.)
connector	Terminal			
M64	21	Ground	Driver seat belt is unfastened	0
			Driver seat belt is fastened	5

Is the inspection result normal?

YES >> GO TO 12.
NO >> GO TO 8.

8. CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE) CIRCUIT HARNESS

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

Front seat belt warning unit		Seat belt buckle switch (driver side)		Continuity
connector	Terminal	connector	terminal	
M64	21	B22	1	Existed

4. Check continuity between front seat belt warning unit harness connector and ground.

Front seat belt warning unit		Ground	Continuity
connector	Terminal		
M64	21	Ground	Not existed

Is the inspection result normal?

YES >> GO TO 9.
NO >> Repair or replace harness.

9.CHECK SEAT BELT BUCKLE SWTCH 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		
B22	2	Ground	Existed

Is the inspection result normal?

YES >> GO TO 10.
NO >> Repair or replace harness.

10.CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

Check seat belt buckle switch (driver side).
Refer to SBC-12, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 11.
NO >> Replace seat belt buckle switch (driver side). Refer to SB-7, "SEAT BELT BUCKLE : Removal and Installation".

11.CHECK FRONT SEAT BELT WARNING UNIT OUTPUT SIGNAL

1. Turn ignition switch ON.
2. Connect front seat belt warning unit connector.
3. Check voltage between front seat belt warning unit harness connector and ground.

Combination meter			Voltage (V) (Approx.)
connector	Terminal		
M64	(+)	(-)	
	21	Ground	5

Is the inspection result normal?

YES >> GO TO 12.
NO >> Replace front seat belt warning unit.

12.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000001279925

1.CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

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

Seat belt buckle switch (driver side)		Condition	Continuity
connector	Terminal		

B22	5	6	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 (driver side). Refer to SB-7, "SEAT BELT BUCKLE : Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000001279926

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

PASSENGER SIDE : Component Function Check

INFOID:0000000001279927

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

1. Turn ignition switch ON.
2. Front seat belt (driver side) is fastened.
3. Sits in the passenger seat.
4. Check if the warning lamp turns OFF as soon as the seat belt (passenger side) is fastened.

Is the inspection results normal?

YES >> Seat belt buckle switch (passenger side) is OK.
NO >> Refer to SBC-13, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000001279928

1.INSPECTION START

Check which type of seat the vehicle is equipped with

Which type of seat

Power seat>>GO TO 2.
Manual seat>>GO TO 7.

2.CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE) INPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between front seat belt warning unit harness connector and ground.

Front seat belt warning unit			Condition	Voltage (V) (Approx.)
connector	Terminal			
	(+)	(-)		
M64	21	Ground	Passenger seat belt is unfastened	0
			Passenger seat belt is fastened	5

Is the inspection result normal?

YES >> GO TO 12.
NO >> GO TO 3.

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

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

Front seat belt warning unit		Seat belt buckle switch (passenger side)	terminal	Continuity
connector	Terminal	connector		
M64	21	B22	5	Existed

4. Check continuity between front seat belt warning unit harness connector and ground.

Front seat belt warning unit		Ground	Continuity
connector	Terminal		
M64	21	Ground	Not existed

Is the inspection result normal?

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

4. 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		
B22	6	Ground	Existed

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness.

5. CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)

Check seat belt buckle switch (passenger side).
Refer to SBC-15, "PASSENGER SIDE : Component Inspection (Passenger side seat belt buckle switch)".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Replace seat belt buckle switch (passenger side). Refer to SB-7, "SEAT BELT BUCKLE : Removal and Installation".

6. CHECK FRONT SEAT BELT WARNING UNIT OUTPUT SIGNAL

1. Turn ignition switch ON.
2. Connect front seat belt warning unit connector.
3. Check voltage between front seat belt warning unit harness connector and ground.

Front seat belt warning unit		Ground	Voltage (V) (Approx.)
connector	Terminal		
M34	35	Ground	5

Is the inspection result normal?

YES >> GO TO 12.
NO >> Replace front seat belt warning unit.

7. CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE) INPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between front seat belt warning unit harness connector and ground.

Combination meter		Ground	Condition	Voltage (V) (Approx.)
connector	Terminal			
M64	21	Ground	Passenger seat belt is unfastened	0
			Passenger seat belt is fastened	5

Is the inspection result normal?

YES >> GO TO 12.
NO >> GO TO 8.

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

1. Turn ignition switch OFF.
2. Disconnect front seat belt warning unit and seat belt buckle switch (passenger side) connector.

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

Front seat belt warning unit		Seat belt buckle switch (passenger side)		Continuity
connector	Terminal	connector	terminal	
M64	21	B22	1	Existed

4. Check continuity between front seat belt warning unit harness connector and ground.

Front seat belt warning		Ground	Continuity
unit connector	Terminal		
M64	21	Ground	Not existed

Is the inspection result normal?

YES >> GO TO 9.
NO >> Repair or replace harness.

9.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		
B22	2	Ground	Existed

Is the inspection result normal?

YES >> GO TO 10.
NO >> Repair or replace harness.

10.CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)

Check seat belt buckle switch (passenger side).
Refer to SBC-15, "PASSENGER SIDE : Component Inspection (Passenger side seat belt buckle switch)".

Is the inspection result normal?

YES >> GO TO 11.
NO >> Replace seat belt buckle switch (passenger side). Refer to SB-7, "SEAT BELT BUCKLE : Removal and Installation".

11.CHECK FRONT SEAT BELT WARNING UNIT OUTPUT SIGNAL

1. Turn ignition switch ON.
2. Connect front seat belt warning unit connector.
3. Check voltage between front seat belt warning unit harness connector and ground.

Combination meter		Ground	Voltage (V) (Approx.)
connector	Terminal		
M64	21	Ground	5

Is the inspection result normal?

YES >> GO TO 12.
NO >> Replace front seat belt warning unit.

12.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE : Component Inspection (Passenger side seat belt buckle switch)

INFOID:0000000001279929

1.CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)

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

Seat belt buckle switch (passenger side)			Condition	Continuity
connector	Terminal			
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-7, "SEAT BELT BUCKLE : Removal and Installation".

PASSENGER SIDE : Component Inspection (Occupant detection unit)

INFOID:0000000001521453

1. CHECK OCCUPANT DETECTION UNIT

1. Turn ignition switch OFF.
2. Disconnect occupant detection unit connector.
3. Check continuity between occupant detection unit terminal.

Occupant detection unit			Condition	Continuity
connector	Terminal			
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-36, "Disassembly and Assembly".

REAR SEAT BELT BUCKLE SWITCH
REAR LH

REAR LH : Description

INFOID:0000000001279931

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

REAR LH : Component Function Check

INFOID:0000000001279932

1.CHECK REAR SEAT BELT BUCKLE SWITCH FUNCTION

1. Start the engine.
2. Check if the warning lamp turns OFF as soon as the rear seat belt LH is fastened.

Is the inspection results normal?

YES >> Rear seat belt buckle switch is OK.
NO >> Refer to SBC-17, "REAR LH : Diagnosis Procedure".

REAR LH : Diagnosis Procedure

INFOID:0000000001279933

1.CHECK REAR SEAT BELT WARNING UNIT OUTPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between rear seat belt warning unit harness connector and ground.

Rear seat belt buckle switch		Ground	Condition	Voltage (V) (Approx.)
Connector	Terminal			
B49	7	Ground	Rear seat belt (LH) is fastened	Battery voltage
			Rear seat belt (LH) is unfastened	0

Is the inspection result normal?

YES >> GO TO 6.
NO >> GO TO 2.

2.CHECK REAR SEAT BELT BUCKLE SWITCH CIRCUIT

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

Rear seat belt warning unit		Rear seat belt buckle switch		Continuity
Connector	Terminal	Connector	terminal	
M49	7	B63	1	Existed

4. Check continuity between rear seat belt warning unit connector and ground.

Rear seat belt warning unit		Ground	Continuity
Connector	Terminal		
M49	7	Ground	Not existed

Is the inspection result normal?

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

3.CHECK REAR LH SEAT BELT BUCKLE SWITCH GROUND CIRCUIT

Check continuity between rear LH sear belt buckle switch harness connector and ground.

Rear seat belt buckle switch		Ground	Continuity
connector	Terminal		
B63	2	Ground	Existed

Is the inspection result normal?

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

4.CHECK REAR LH SEAT BELT BUKLE SWITCH

Check rear seat belt buckle switch.
Refer to SBC-18, "REAR LH : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace rear LH seat belt buckle switch. Refer to SB-13, "SEAT BELT BUCKLE : Removal and Installation".

5.CHECK REAR LH SEAT BELT WARNING UNIT OUTPUT SIGANL

Check voltage between rear seat belt warning unit harness connector and ground.

Rear seat belt warning unit connector		Ground	Voltage (V) (Approx.)
Connector	Terminal		
M91	7	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 6.
NO >> Replace rear seat belt warning unit.

6.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

REAR LH : Component Inspection

INFOID:0000000001279934

1.CHECK SEAT BELT BUCKLE SWITCH

1. Turn ignition switch OFF.
2. Disconnect rear seat buckle switch connector.
3. Check continuity between rear seat belt buckle switch terminals.

Rear seat belt buckle switch			Condition	Continuity
Connector	Terminal			
B63	1	2	Rear seat belt (LH) is unfastened	Existed
			Rear seat belt (LH) is fastened	Not existed

Is the inspection result normal?

YES >> INSPECTION END.
NO >> Replace rear LH seat belt buckle switch. Refer to SB-13, "SEAT BELT BUCKLE : Removal and Installation".

REAR RH AND CENTER

REAR RH AND CENTER : Description

INFOID:0000000001524224

- Detects if the rear seat belt (Center or RH) is fastened or unfastened.
- Warning lamp turns OFF if the seat belt (Center or RH) is fastened.

REAR RH AND CENTER : Component Function Check

INFOID:0000000001524225

1.CHECK REAR SEAT BELT BUCKLE SWITCH FUNCTION

1. Start the engine.
2. Check if the warning lamp turns OFF as soon as the rear seat belt (Center or RH) is fastened.

Is the inspection results normal?

YES >> Rear seat belt buckle switch is OK.
NO >> Refer to .SBC-19, "REAR RH AND CENTER : Diagnosis Procedure".

REAR RH AND CENTER : Diagnosis Procedure

INFOID:0000000001524226

1.CHECK REAR SEAT BELT WARNING UNIT OUTPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between rear seat belt warning unit harness connector and ground.

Rear seat belt buckle switch			Ground	Condition	Voltage (V) (Approx.)
	Connector	Terminal			
Center	B49	6	Ground	Rear seat belt (RH) is fastened	Battery voltage
				Rear seat belt (RH) is unfastened	0
RH		1		Rear seat belt (center) is fastened	Battery voltage
				Rear seat belt (center) is unfastened	0

Is the inspection result normal?

YES >> GO TO 6.
NO >> GO TO 2.

2.CHECK REAR SEAT BELT BUCKLE SWITCH CIRCUIT

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

Rear seat belt warning unit		Rear seat belt buckle switch		Continuity
Connector	Terminal	Connector	terminal	
M49	6	B64 (RH and center)	1	Existed
	1		3	

4. Check continuity between rear seat belt warning unit connector and ground.

	Rear seat belt warning unit		Ground	Continuity
	Connector	Terminal		
Center	M49	6	Ground	Not existed
RH		1		

Is the inspection result normal?

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

3.CHECK GROUND CIRCUIT

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

	Rear seat belt buckle switch		Ground	Continuity
	connector	Terminal		
Center	B64	2	Ground	Existed
RH		4		

Is the inspection result normal?

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

4.CHECK REAR SEAT BELT BUKLE SWITCH

Check rear seat belt buckle switch.
Refer to SBC-20, "REAR RH AND CENTER : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace rear seat belt buckle switch. Refer to SB-13, "SEAT BELT BUCKLE : Removal and Installation".

5.CHECK REAR SEAT BELT WARNING UNIT OUTPUT SIGANL

Check voltage between rear seat belt warning unit harness connector and ground.

	Rear seat belt warning unit connector		Ground	Voltage (V) (Approx.)
	Connector	Terminal		
Center	M91	6	Ground	Battery voltage
RH		1		

Is the inspection result normal?

YES >> GO TO 6.
NO >> Replace rear seat belt warning unit.

6.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

REAR RH AND CENTER : Component Inspection

INFOID:0000000001524227

1.CHECK SEAT BELT BUCKLE SWITCH

1. Turn ignition switch OFF.
2. Disconnect rear seat buckle switch connector.
3. Check continuity between rear seat belt buckle switch terminals.

Rear seat belt buckle switch			Condition	Continuity
Connector	Terminal			
B64	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

Is the inspection result normal?

YES >> INSPECTION END.
NO >> Replace seat belt buckle switch. Refer to SB-13, "SEAT BELT BUCKLE : Removal and Installation".

FRONT SEAT BELT WARNING LAMP

Description

INFOID:0000000001534948

The front seat belt warning lamp is located in combination meter.
The combination meter illuminate front seat belt warning lamp when seat belts (driver side and passenger side) are fastened.

Component Function Check

INFOID:0000000001534949

1.SEAT BELT WARNING LAMP FUNCTION

1. Turn ignition switch ON.
2. Sits in the passenger seat.
3. Fasten the seat belt (passenger side).
4. Check front seat belt warning lamp function.

Condition	Front seat belt warning lamp
Seat belt (driver side) is fastened	Not illuminated
Seat belt (driver side) is unfastened	Illuminated

Is the inspection results normal?

YES >> Seat belt warning lamp is OK.
NO >> Refer toSBC-21, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001534953

1.CHECK SEAT BELT WARNING LAMP INPUT SIGNAL

1. Turn ignition switch ON.
2. Sits in the passenger seat.
3. Fasten the seat belt (passenger side).
4. Check signal between front seat belt warning unit harness connector and ground oscilloscope.

Front seat belt warning unit		Ground	Condition	Signal
Connector	Terminal			
M63	8	Ground	Seat belt (driver side) is fastened	Battery voltage
			Seat belt (driver side) is unfastened	0

Is the inspection results normal?

YES >> GO TO 4
NO >> GO TO 2

2.CHECK SEAT BELT WARNING LAMP CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect front seat belt warning unit connector and combination meter connector.
3. Check continuity between front seat belt warning unit harness connector and combination meter harness connector.

Front seat belt warning unit		Combination meter		Continuity
Connector	Terminal	Connector	Terminal	
M63	8	M34	35	Existed

4. Check continuity between front seat belt warning unit and ground.

Front seat belt warning unit		Ground	Continuity
Connector	Terminal		
M63	8	Ground	Not existed

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

3.CHECK COMBINATION METER

Refer to MWI-64, "DTC Index".

>> INSPECTION END

4.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

REAR SEAT BELT WARNING LAMP

Description

INFOID:0000000001308624

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

Component Function Check

INFOID:0000000001308625

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-23, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001308626

1.CHECK SEAT BELT WARNING LAMP POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect rear seat belt warning lamp connector.
3. Check voltage between rear seat belt warning lamp harness connector and ground.

Rear seat belt warning lamp		Ground	Condition	Voltage
Connector	Terminal			
M87	1	Ground	Ignition switch ON	Battery voltage

Is the inspection result normal?

YES >> GO TO 2.
NO >> Check harness open or short between rear seat belt warning lamp and fuse.

2.CHECK REAR SEAT BELT WARNING LAMP OUTPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between rear seat belt warning lamp harness connector and ground.

	Rear seat belt buckle switch		Ground	Condition	Voltage (V) (Approx.)
	Connector	Terminal			
LH	M87	4	Ground	Rear seat belt (LH) is fastened	Battery voltage
				Rear seat belt (LH) is unfastened	0
Center		3		Rear seat belt (center) is fastened	Battery voltage
				Rear seat belt (center) is unfastened	0
RH		2		Rear seat belt (RH) is fastened	Battery voltage
				Rear seat belt (RH) is unfastened	0

Is the inspection result normal?

YES >> GO TO 5.
NO >> GO TO 3.

3.CHECK REAR SEAT BELT WARNING UNIT OUTPUT SIGNAL

Check voltage between rear seat belt warning unit harness connector and ground.

Rear seat belt warning unit		Ground	Voltage (V) (Approx.)
connector	Terminal		
M91	3	Ground	Battery voltage
	4		
	5		

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace rear seat belt warning unit.

4. CHECK REAR SEAT BELT WARNING LAMP CIRCUIT

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

Rear seat belt warning unit		Rear seat belt warning unit		Continuity
Connector	Terminal	Connector	Terminal	
M87	3	B49	4	Existed
	4		3	
	5		2	

4. Check continuity between rear seat belt warning unit harness connector and ground.

Rear seat belt warning unit		Ground	Continuity
Connector	Terminal		
M87	2	Ground	Not existed
	3		
	4		

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

VEHICLE SPEED SIGNAL

Description

INFOID:0000000001534943

The front seat belt warning unit receives vehicle speed signal from combination meter.
The front seat belt warning unit use the signal for seat belt warning chime.

Component Function Check

INFOID:0000000001534944

1.CHECK VEHICLE SPEED SIGNAL

1. Lift up the vehicle.
2. Seat belt warning chime will sound, when seat belt is unfastened and vehicle speed is more than 25 km/h.

Is the inspection results normal?

YES >> Vehicle speed signal is OK.
NO >> Refer to SBC-25, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001534954

1.CHECK VEHICLE SPEED SIGNAL

1. Lift up the vehicle.
2. Check signal between front seat belt warning unit harness connector and ground oscilloscope.

Front seat belt warning unit		Ground	Condition	Signal
Connector	Terminal			
M64	36	Ground	Vehicle speed is at 40 km/h	PKIA1935E

Is the inspection results normal?

YES >> GO TO 4
NO >> GO TO 2

2.CHECK VEHICLE SPEED CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect front seat belt warning unit connector and combination meter connector.
3. Check continuity between front seat belt warning unit harness connector and combination meter harness connector.

Front seat belt warning unit		Combination meter		Continuity
Connector	Terminal	Connector	Terminal	
M64	36	M34	30	Existed

4. Check continuity between front seat belt warning unit and ground.

Front seat belt warning unit		Ground	Continuity
Connector	Terminal		
M64	36	Ground	Not existed

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

3.CHECK COMBINATION METER

Refer to MWI-64, "DTC Index".

>> INSPECTION END

4.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

ALTERNATOR SIGNAL CIRCUIT

Description

INFOID:0000000001279935

Transmits the “engine started” signal to indicator unit.

Component Function Check

INFOID:0000000001279936

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-27, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001279937

1.CHECK REAR SEAT BELT WARNING UNIT INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect rear seat belt warning unit connector.
3. Turn ignition switch ON.
4. Check voltage between rear seat belt warning unit harness connector and ground.

Rear seat belt warning unit		Ground	Condition	Voltage (V) (Approx.)
Connector	Terminal			
B49	6	Ground	Engine running	Battery voltage
			Other than above	0

Is the inspection result normal?

YES >> Replace rear seat belt warning unit.
NO >> GO TO 2.

2.CHECK ALTERNATOR CIRCUIT

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

Rear seat belt warning unit		Alternator		Continuity
Connector	Terminal	Connector	Terminal	
B49	2	F15*1	3	Existed
		F60*2		

*1 QR engine models

*2 Except QR engine models

4. Check continuity between rear seat belt warning unit harness connector and ground.

Rear seat belt warning unit		Ground	Continuity
Connector	Terminal		
B49	2	Ground	Not existed

Is the inspection result normal?

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

3.CHECK INTERMITTENT INCIDENT

Refer toGI-39, "Intermittent Incident".

>> INSPECTION END

ECU DIAGNOSIS

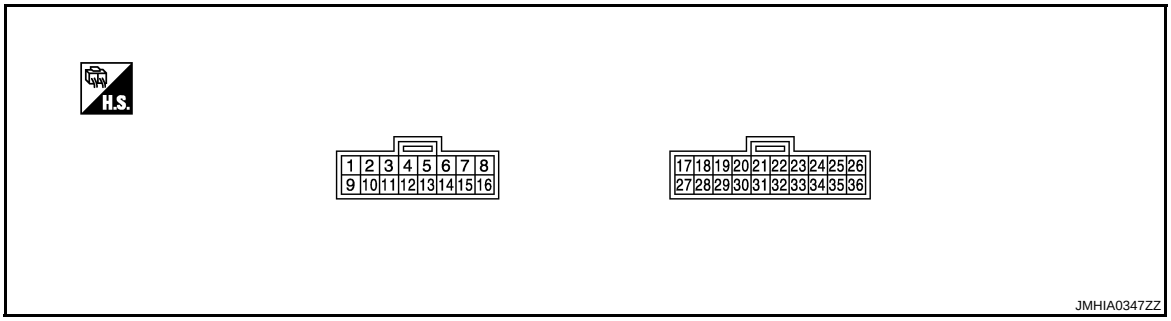
FRONT SEAT BELT WARNING UNIT

LHD MODELS

LHD MODELS : Reference Value

INFOID:0000000001279938

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Value
+	-	Signal name	Input/ Output			(Approx.)
8	Ground	Seat belt warning lamp signal	Output	Ignition switch ON	Seat belt warning lamp is illuminated.	0 V
					Seat belt warning lamp is not illuminated.	Battery voltage
16	Ground	Ground	—	—	—	0 V
17	Ground	IGN signal	Input	Ignition switch ON	—	Battery voltage
21	Ground	Seat belt backle switch signalInput	Input	Ignition switch ON	Seat belt bacle switch is fastened.	Battery voltage
					Seat belt bacle switch is unfastened.	0 V
36	Ground	Vehicle speed signal	Input	Ignition switch ON	When vehicle speed is approx. 40km (25MPH).	

LHD MODELS : Wiring Diagram - SEAT BELT WARNING LAMP CONTROL SYSTEM

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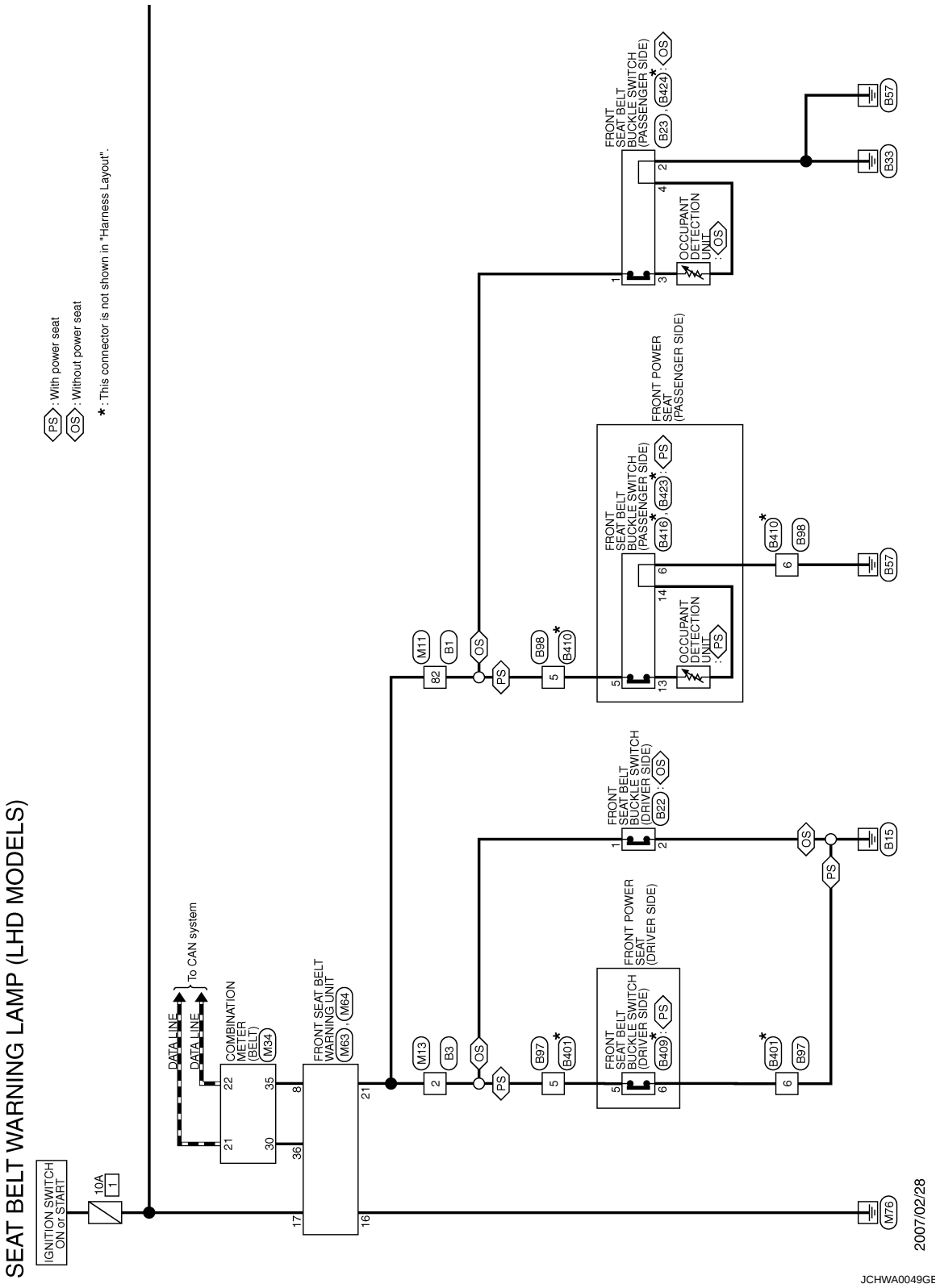
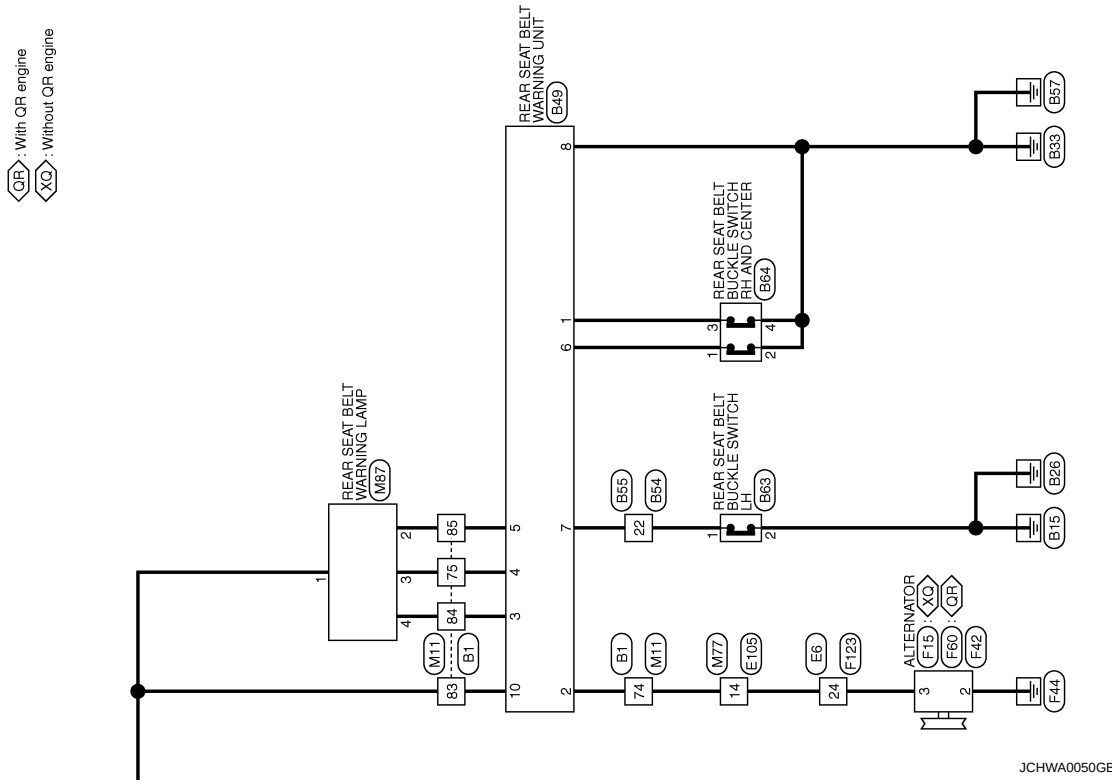
INFOID:0000000001279939



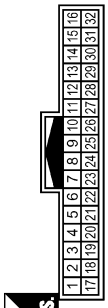

QR : With QR engine
XQ : Without QR engine
REAR SEAT BELT WARNING UNIT
B49
REAR SEAT BELT WARNING LAMP
M87
REAR SEAT BELT BUCKLE SWITCH RH AND CENTER
B64
REAR SEAT BELT BUCKLE SWITCH LH
B63
ALTERNATOR
F15
F60
F42
B57
B33
B26
B15
F44
B55
B54
M11
B1
M77
E105
E6
F123
JCHWA0050GE

SEAT BELT WARNING LAMP (LHD MODELS)

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
74	L	–
75	R	–
82	GR	–
83	W	–
84	G	–
85	O	–

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	–

Connector No.	B22
Connector Name	FRONT SEAT BELT BUCKLE SWITCH (DRIVER SIDE)
Connector Type	TK03FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
2	B	–

Connector No.	B23
Connector Name	FRONT SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)
Connector Type	TK03FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
2	B	–

Connector No.	B49
Connector Name	REAR SEAT BELT WARNING UNIT
Connector Type	TK10FGY

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	RR RH BUCKLE SW
2	L	CHARGE IN
3	G	RR LH IND OUT
4	R	RR CTR IND OUT
5	O	RR RH IND OUT
6	Y	RR CTR BUCKLE SW
7	V	RR LH BUCKLE SW
8	B	GND
10	W	IGN

Connector No.	B54
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
22	V	–

Connector No.	B55
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
22	V	–

Connector No.	B63
Connector Name	REAR SEAT BELT BUCKLE SWITCH LH
Connector Type	TK03FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	B	–

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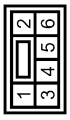
SEAT BELT WARNING LAMP (LHD MODELS)

Connector No.	B64
Connector Name	REAR SEAT BELT BUCKLE SWITCH RH AND CENTER
Connector Type	TK04FW

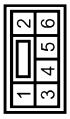
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	–
2	B	–
3	GR	–
4	B	–

Connector No.	B97
Connector Name	WIRE TO WIRE
Connector Type	NS06FW-CS



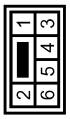
Terminal No.	Color of Wire	Signal Name [Specification]
5	GR	–
6	B	–

Connector No.	B98
Connector Name	WIRE TO WIRE
Connector Type	NS06FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
5	GR	–
6	B	–

Connector No.	B401
Connector Name	WIRE TO WIRE
Connector Type	NS06MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
5	R	–
6	O	–

Connector No.	B409
Connector Name	FRONT SEAT BELT BUCKLE SWITCH (DRIVER SIDE)
Connector Type	TK03FW

Terminal No.	Color of Wire	Signal Name [Specification]
5	R	–
6	O	–

Connector No.	B410
Connector Name	WIRE TO WIRE
Connector Type	NS06MW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
5	R	–
6	O	–

Connector No.	B416
Connector Name	FRONT SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)
Connector Type	TK03FW

Terminal No.	Color of Wire	Signal Name [Specification]
5	R	–
6	O	–

Connector No.	B423
Connector Name	OCCUPANT DETECTION UNIT
Connector Type	SUMITOMO DENSO:6098-2220

Terminal No.	Color of Wire	Signal Name [Specification]
13	L	–
14	B	–

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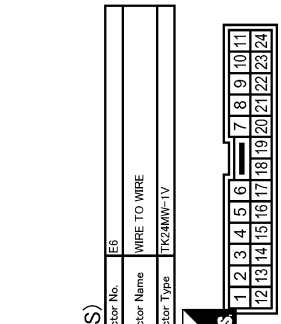
SEAT BELT WARNING LAMP (LHD MODELS)

Connector No.	B424
Connector Name	OCCUPANT DETECTION UNIT
Connector Type	SUMITOMO DENSO:6098-2220

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

Connector No.	E6
Connector Name	WIRE TO WIRE
Connector Type	TK24MW-1V



Terminal No.	Color of Wire	Signal Name [Specification]
24	O	–

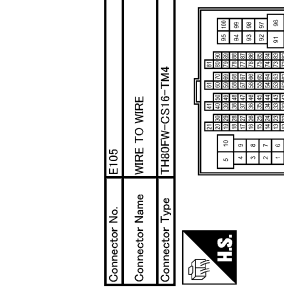
Connector No.	F42
Connector Name	ALTERNATOR
Connector Type	–

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

Connector No.	F60
Connector Name	ALTERNATOR
Connector Type	X02FW

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

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

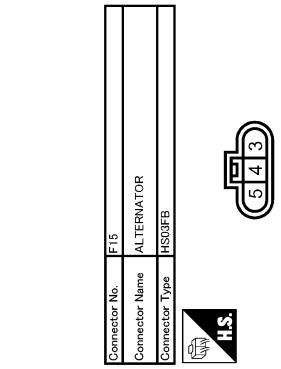


Terminal No.	Color of Wire	Signal Name [Specification]
14	O	–

Connector No.	F123
Connector Name	WIRE TO WIRE
Connector Type	TK24FW-1V

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

Connector No.	F15
Connector Name	ALTERNATOR
Connector Type	HS03FB



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

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
74	L	–
75	R	–
82	GR	–
83	W	–
84	G	–
85	O	–

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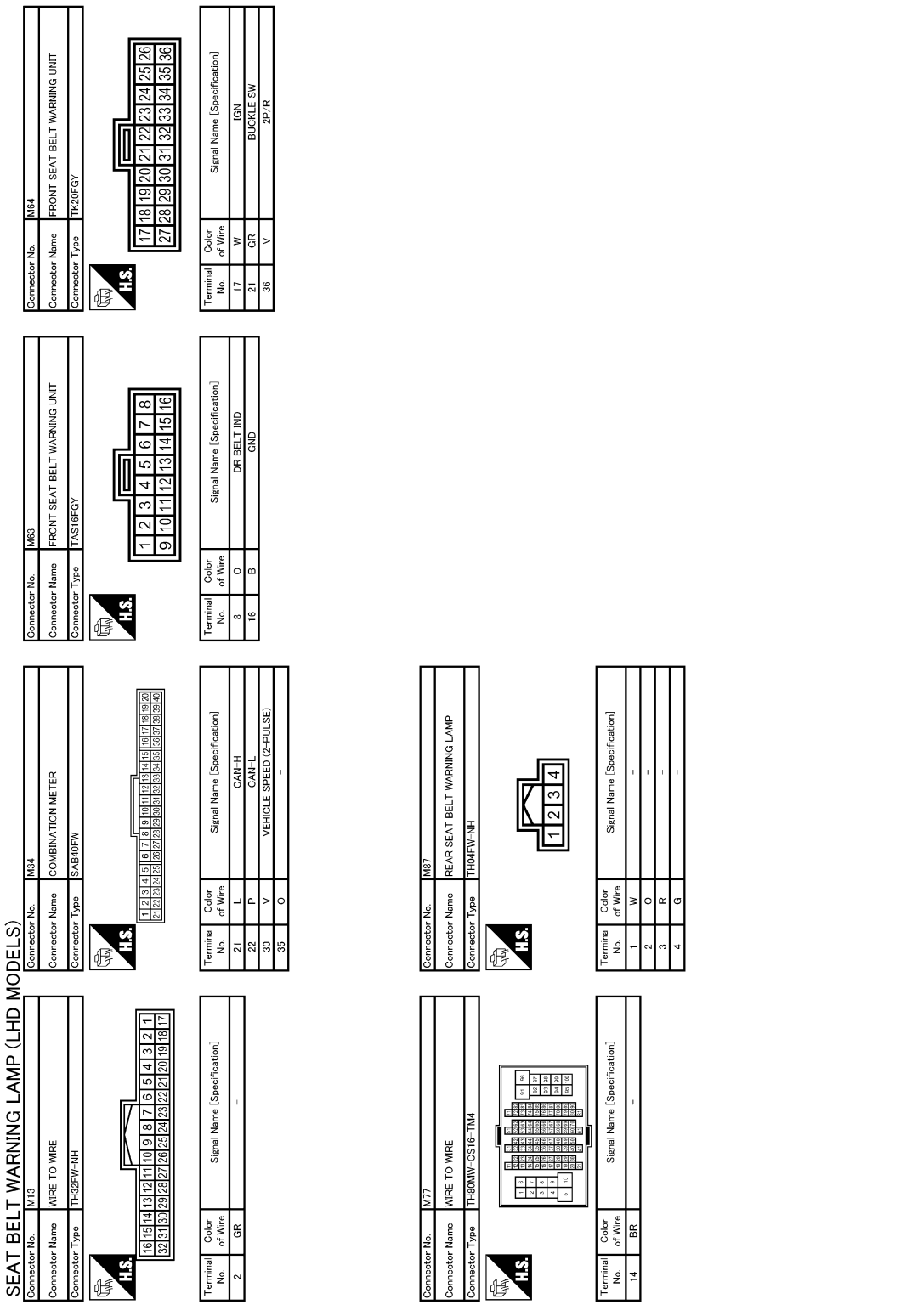
SEAT BELT WARNING LAMP (LHD MODELS)



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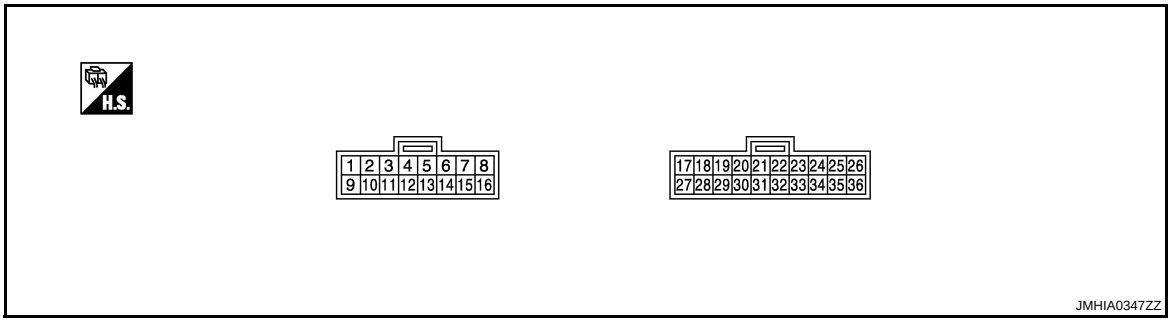
RHD MODELS

RHD MODELS : Reference Value

INFOID:0000000001551299

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Value
+	-	Signal name	Input/ Output			(Approx.)
8	Ground	Seat belt warning lamp signal	Output	Ignition switch ON	Seat belt warning lamp is illuminated.	0 V
					Seat belt warning lamp is not illuminated.	Battery voltage
16	Ground	Ground	—	—	—	0 V
17	Ground	IGN signal	Input	Ignition switch ON	—	Battery voltage
21	Ground	Seat belt backle switch signalInput	Input	Ignition switch ON	Seat belt bacle switch is fastened.	Battery voltage
					Seat belt bacle switch is unfastened.	0 V
36	Ground	Vehicle speed signal	Input	Ignition switch ON	When vehicle speed is approx. 40km (25MPH).	

RHD MODELS : Wiring Diagram - SEAT BELT WARNING LAMP CONTROL SYSTEM

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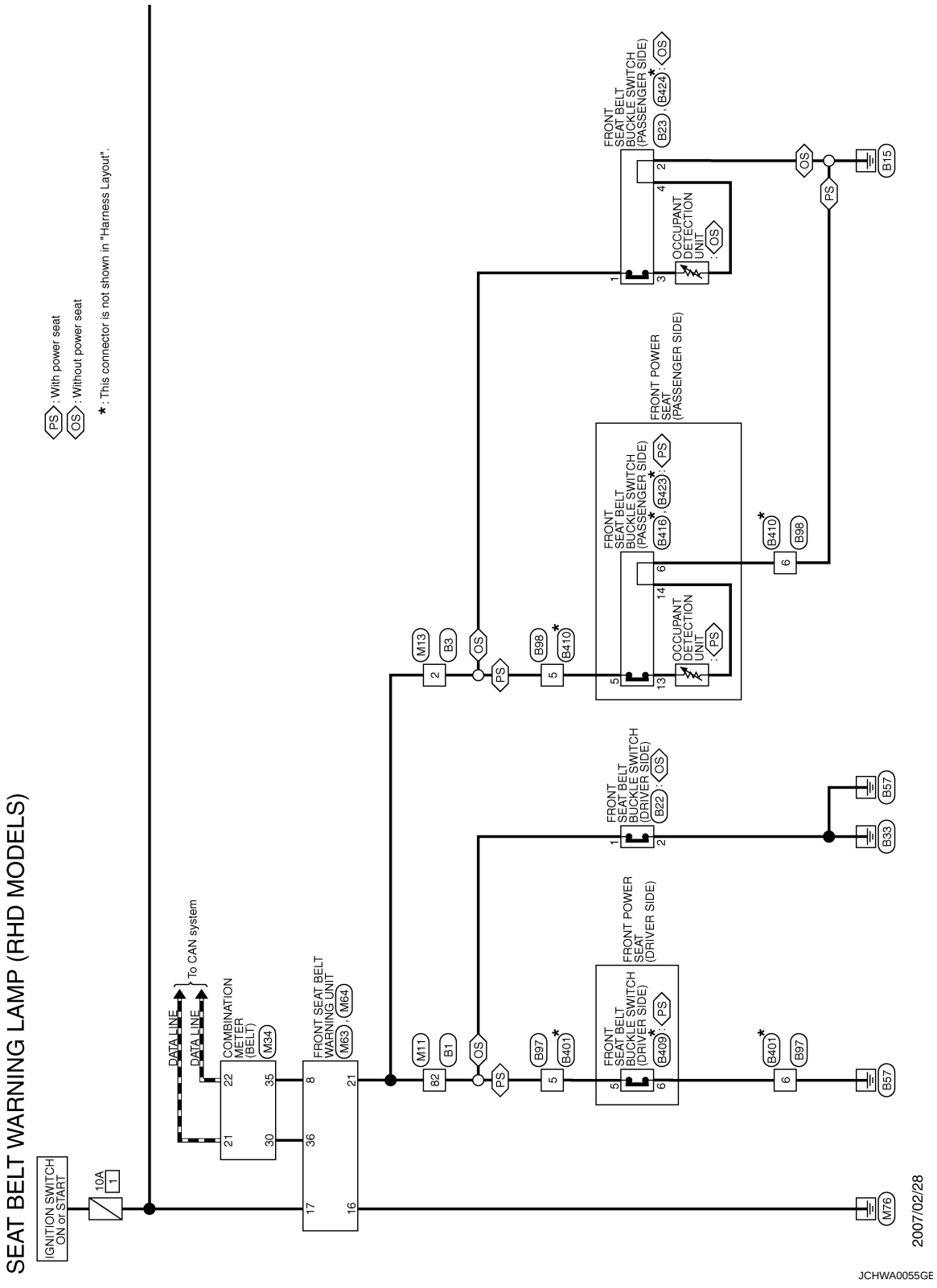
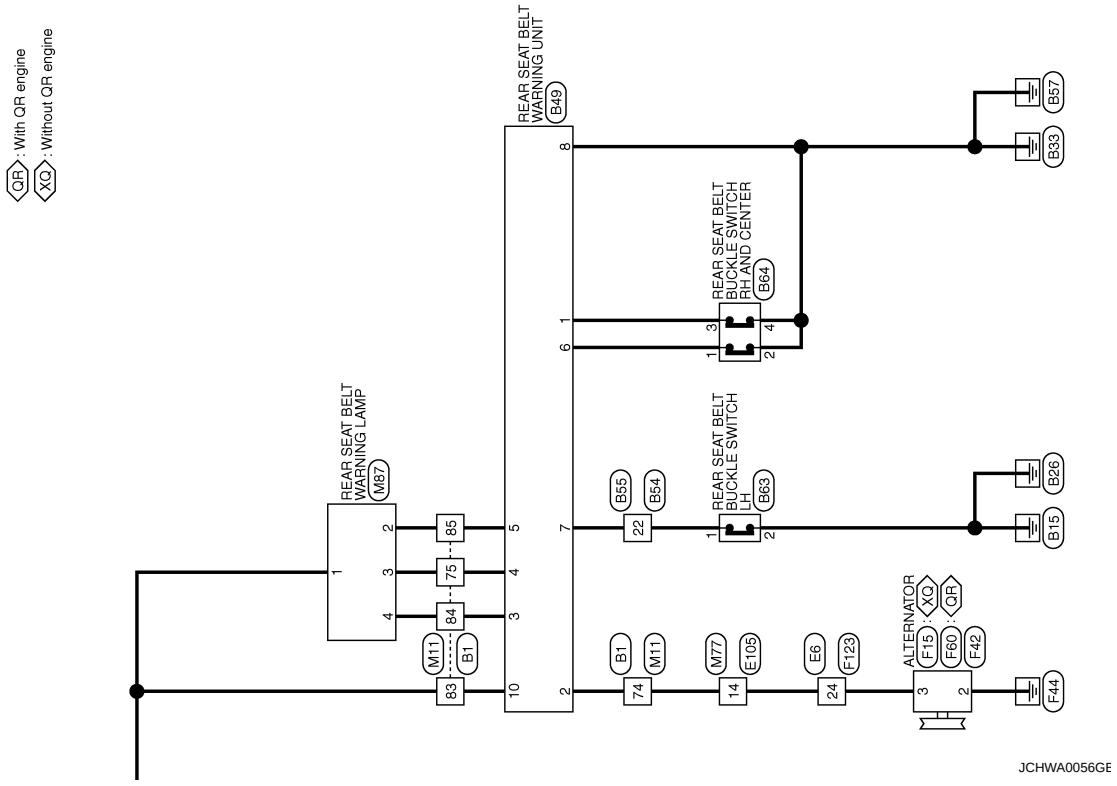
INFOID:0000000001551300



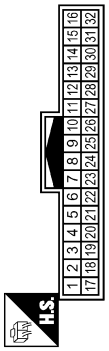

QR : With QR engine
XQ : Without QR engine
REAR SEAT BELT WARNING UNIT
B49
REAR SEAT BELT WARNING LAMP
M87
REAR SEAT BELT BUCKLE SWITCH RH AND CENTER
B64
REAR SEAT BELT BUCKLE SWITCH LH
B63
ALTERNATOR
F15
F60
F42
B57
B33
B26
B15
F44
B55
B54
M11
B1
E105
M77
E6
F123
JCHWA0056GE

SEAT BELT WARNING LAMP (RHD MODELS)

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
74	L	–
75	R	–
82	GR	–
83	W	–
84	G	–
85	O	–

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	–

Connector No.	B22
Connector Name	FRONT SEAT BELT BUCKLE SWITCH (DRIVER SIDE)
Connector Type	TK03FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
2	B	–

Connector No.	B23
Connector Name	FRONT SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)
Connector Type	TK03FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
2	B	–

Connector No.	B49
Connector Name	REAR SEAT BELT WARNING UNIT
Connector Type	TK10FGY

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	RR RH BUCKLE SW
2	L	CHARGE IN
3	G	RR LH IND OUT
4	R	RR CTR IND OUT
5	O	RR RH IND OUT
6	Y	RR CTR BUCKLE SW
7	V	RR LH BUCKLE SW
8	B	GND
10	W	IGN

Connector No.	B54
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
22	V	–

Connector No.	B55
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
22	V	–

Connector No.	B63
Connector Name	REAR SEAT BELT BUCKLE SWITCH LH
Connector Type	TK03FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	B	–

JCHWA0057GE

SEAT BELT WARNING LAMP (RHD MODELS)

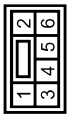
Connector No.	B64
Connector Name	REAR SEAT BELT BUCKLE SWITCH RH AND CENTER
Connector Type	TK04FW

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

Connector No.	B97
Connector Name	WIRE TO WIRE
Connector Type	NS06FW-CS

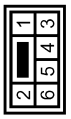
Terminal No.	Color of Wire	Signal Name [Specification]
5	GR	–
6	B	–

Connector No.	B98
Connector Name	WIRE TO WIRE
Connector Type	NS06FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
5	GR	–
6	B	–

Connector No.	B401
Connector Name	WIRE TO WIRE
Connector Type	NS06MW-CS

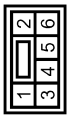


Terminal No.	Color of Wire	Signal Name [Specification]
5	R	–
6	O	–

Connector No.	B409
Connector Name	FRONT SEAT BELT BUCKLE SWITCH (DRIVER SIDE)
Connector Type	TK03FW

Terminal No.	Color of Wire	Signal Name [Specification]
5	R	–
6	O	–

Connector No.	B410
Connector Name	WIRE TO WIRE
Connector Type	NS06MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
5	R	–
6	O	–

Connector No.	B416
Connector Name	FRONT SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)
Connector Type	TK03FW

Terminal No.	Color of Wire	Signal Name [Specification]
5	R	–
6	O	–

Connector No.	B423
Connector Name	OCCUPANT DETECTION UNIT
Connector Type	SUMITOMO DENSO 6098-2220

Terminal No.	Color of Wire	Signal Name [Specification]
13	L	–
14	B	–

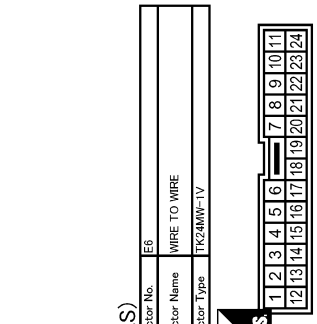
JCHWA0058GE

SEAT BELT WARNING LAMP (RHD MODELS)

Connector No.	B424
Connector Name	OCCUPANT DETECTION UNIT
Connector Type	SUMITOMO DENSO 6098-2220

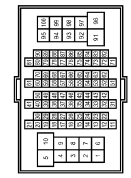
Terminal No.	Color of Wire	Signal Name [Specification]
3	L	–
4	B	–

Connector No.	E6
Connector Name	WIRE TO WIRE
Connector Type	TK24MW-1V



Terminal No.	Color of Wire	Signal Name [Specification]
24	O	–

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
14	O	–

Connector No.	F15
Connector Name	ALTERNATOR
Connector Type	HS03FB

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

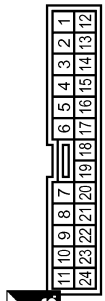
Connector No.	F42
Connector Name	ALTERNATOR
Connector Type	–

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

Connector No.	F60
Connector Name	ALTERNATOR
Connector Type	X02FW

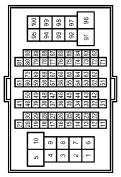
Terminal No.	Color of Wire	Signal Name [Specification]
3	L	L

Connector No.	F123
Connector Name	WIRE TO WIRE
Connector Type	TK24FW-1V



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

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
74	L	–
75	R	–
82	GR	–
83	W	–
84	G	–
85	O	–

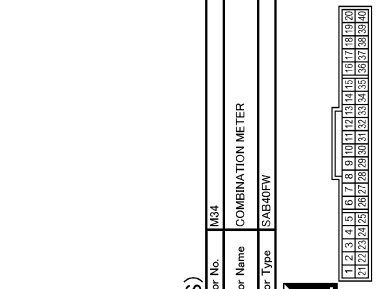
JCHWA0059GE

SEAT BELT WARNING LAMP (RHD MODELS)

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH

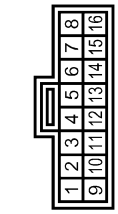
Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	–

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB40FW



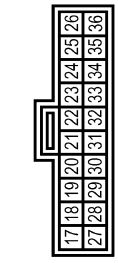
Terminal No.	Color of Wire	Signal Name [Specification]
21	L	CAN-H
22	P	CAN-L
30	V	VEHICLE SPEED (2-PULSE)
35	O	–

Connector No.	M63
Connector Name	FRONT SEAT BELT WARNING UNIT
Connector Type	TAS16FGY



Terminal No.	Color of Wire	Signal Name [Specification]
8	O	DR BELT IND
16	B	GND

Connector No.	M64
Connector Name	FRONT SEAT BELT WARNING UNIT
Connector Type	TK20FGY



Terminal No.	Color of Wire	Signal Name [Specification]
17	W	IGN
21	GR	BUCKLE SW
36	V	2P/R

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
14	BR	–

Connector No.	M87
Connector Name	REAR SEAT BELT WARNING LAMP
Connector Type	TH04FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
2	O	–
3	R	–
4	G	–

JCHWA0060GE

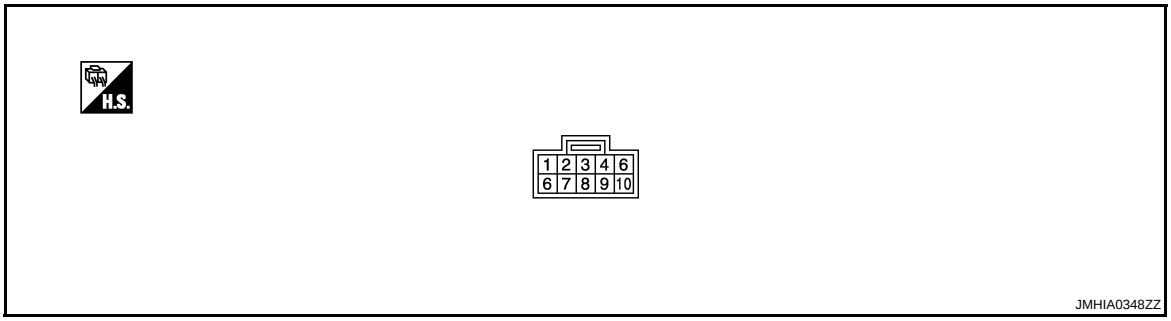
REAR SEAT BELT WARNING UNIT

LHD MODELS

LHD MODELS : Reference Value

INFOID:0000000001350920

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Value
+	-	Signal name	Input/ Output			(Approx.)
1	Ground	Rear seat belt buckle switch (RH) signal	Input	Ignition switch ON	Seat belt buckle switch is fastened.	Battery voltage
					Seat belt buckle switch is unfastened.	0 V
2	Ground	—	—	—	—	0 V
3	Ground	Seat belt warning lamp signal (LH)	Output	Ignition switch ON	Seat belt warning lamp is illuminated.	0 V
					Seat belt warning lamp is not illuminated.	Battery voltage
4	Ground	Seat belt warning lamp signal (Center)	Output	Ignition switch ON	Seat belt warning lamp is illuminated.	0 V
					Seat belt warning lamp is not illuminated.	Battery voltage
5	Ground	Seat belt warning lamp signal (RH)	Output	Ignition switch ON	Seat belt warning lamp is illuminated.	0 V
					Seat belt warning lamp is not illuminated.	Battery voltage
8	Ground	Ground	—	—	—	0 V
10	Ground	IGN signal	Input	Ignition switch ON	—	Battery voltage
7	Ground	Rear seat belt buckle switch (LH) signal	Input	Ignition switch ON	Seat belt buckle switch is fastened.	Battery voltage
					Seat belt buckle switch is unfastened.	0 V
6	Ground	Rear seat belt buckle switch (center) signal	Input	Ignition switch ON	Seat belt buckle switch is fastened.	Battery voltage
					Seat belt buckle switch is unfastened.	0 V

LHD MODELS : Wiring Diagram - SEAT BELT WARNING LAMP CONTROL SYSTEM

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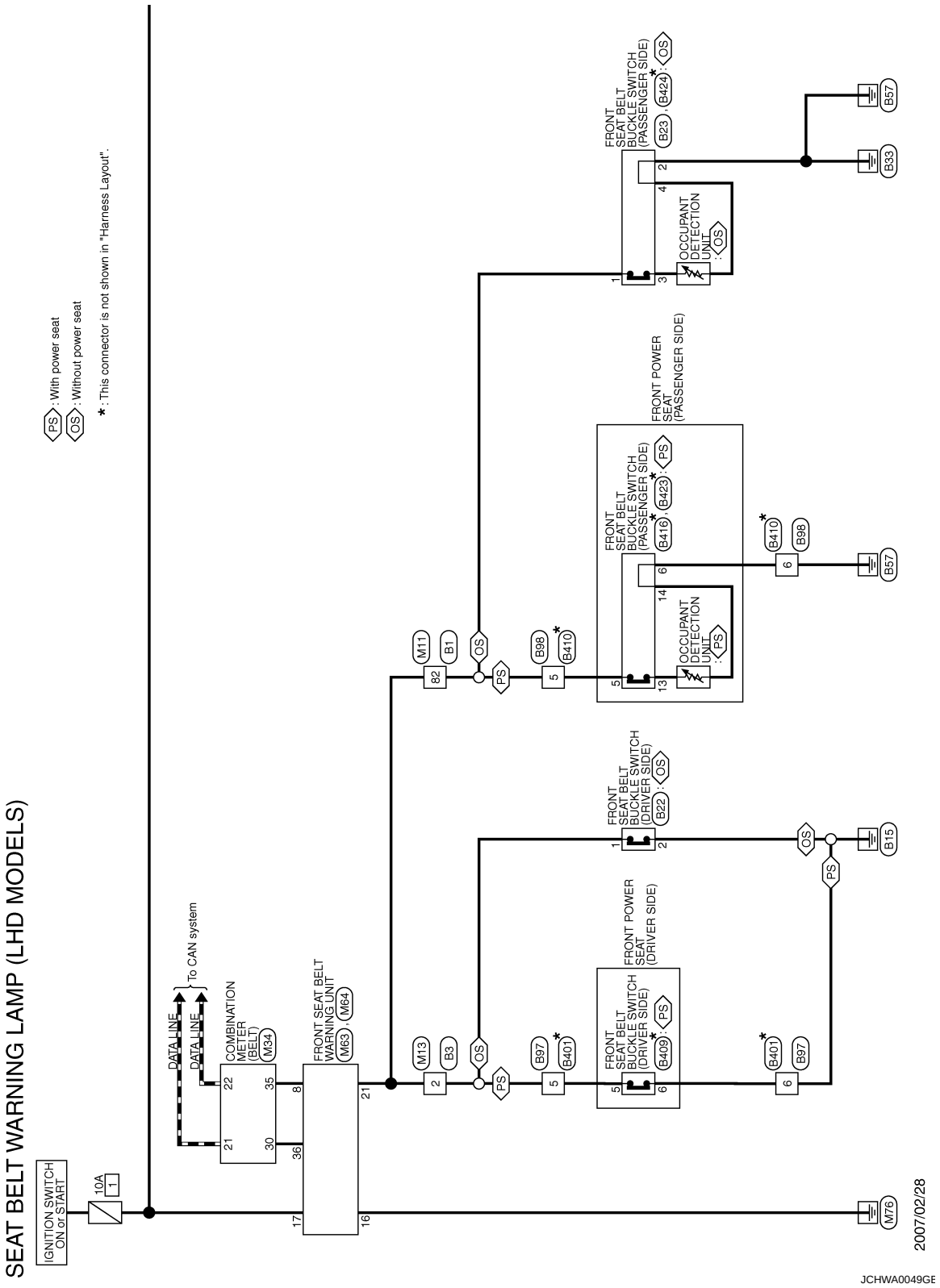
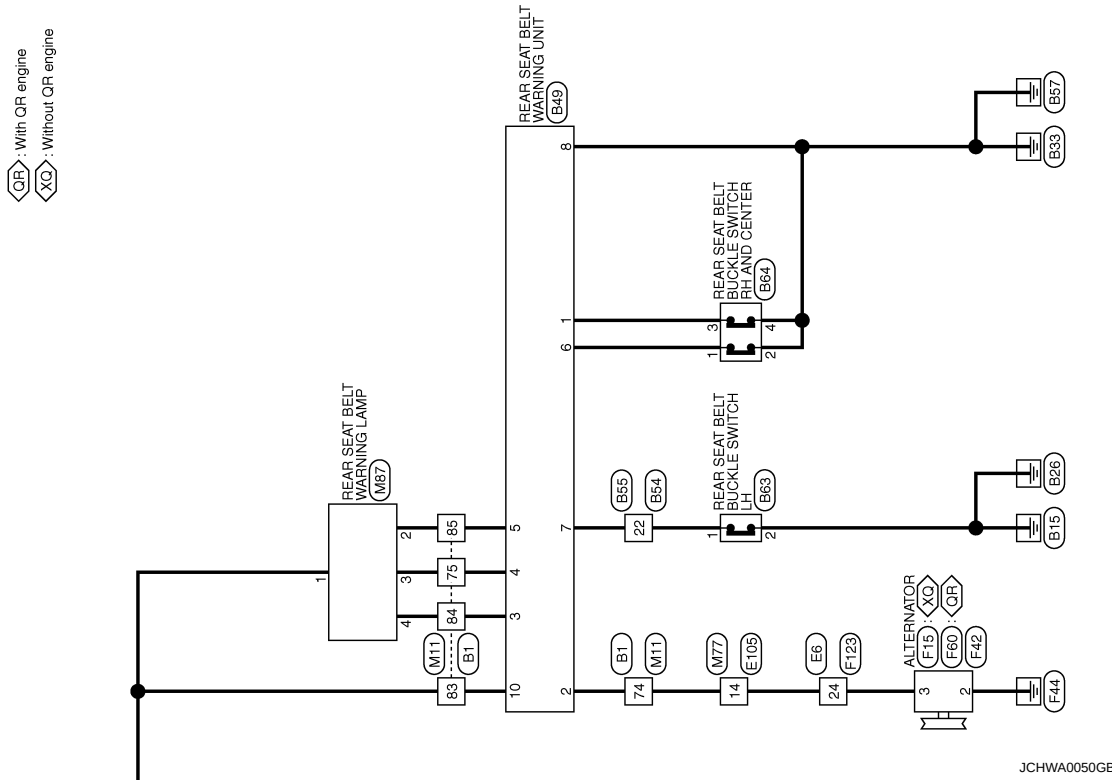
INFOID:0000000001551308



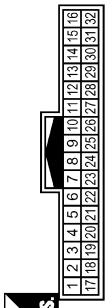

QR : With QR engine
XQ : Without QR engine
REAR SEAT BELT WARNING UNIT
B49
REAR SEAT BELT WARNING LAMP
M87
REAR SEAT BELT BUCKLE SWITCH RH AND CENTER
B64
REAR SEAT BELT BUCKLE SWITCH LH
B63
ALTERNATOR
F15
F60
F42
B57
B33
B26
B15
F44
B55
B54
M11
B1
M77
E105
E6
F123
JCHWA0050GE

SEAT BELT WARNING LAMP (LHD MODELS)

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
74	L	–
75	R	–
82	GR	–
83	W	–
84	G	–
85	O	–

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	–

Connector No.	B22
Connector Name	FRONT SEAT BELT BUCKLE SWITCH (DRIVER SIDE)
Connector Type	TK03FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
2	B	–

Connector No.	B23
Connector Name	FRONT SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)
Connector Type	TK03FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
2	B	–

Connector No.	B49
Connector Name	REAR SEAT BELT WARNING UNIT
Connector Type	TK10FGY

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	RR RH BUCKLE SW
2	L	CHARGE IN
3	G	RR LH IND OUT
4	R	RR CTR IND OUT
5	O	RR RH IND OUT
6	Y	RR CTR BUCKLE SW
7	V	RR LH BUCKLE SW
8	B	GND
10	W	IGN

Connector No.	B54
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
22	V	–

Connector No.	B55
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
22	V	–

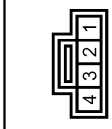
Connector No.	B63
Connector Name	REAR SEAT BELT BUCKLE SWITCH LH
Connector Type	TK03FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	B	–

JCHWA0051GE

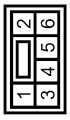
SEAT BELT WARNING LAMP (LHD MODELS)

Connector No.	B64
Connector Name	REAR SEAT BELT BUCKLE SWITCH RH AND CENTER
Connector Type	TK04FW



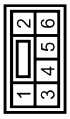
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	–
2	B	–
3	GR	–
4	B	–

Connector No.	B97
Connector Name	WIRE TO WIRE
Connector Type	NS06FW-CS



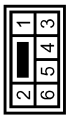
Terminal No.	Color of Wire	Signal Name [Specification]
5	GR	–
6	B	–

Connector No.	B98
Connector Name	WIRE TO WIRE
Connector Type	NS06FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
5	GR	–
6	B	–

Connector No.	B401
Connector Name	WIRE TO WIRE
Connector Type	NS06MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
5	R	–
6	O	–

Connector No.	B409
Connector Name	FRONT SEAT BELT BUCKLE SWITCH (DRIVER SIDE)
Connector Type	TK03FW

Terminal No.	Color of Wire	Signal Name [Specification]
5	R	–
6	O	–

Connector No.	B410
Connector Name	WIRE TO WIRE
Connector Type	NS06MW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
5	R	–
6	O	–

Connector No.	B416
Connector Name	FRONT SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)
Connector Type	TK03FW

Terminal No.	Color of Wire	Signal Name [Specification]
5	R	–
6	O	–

Connector No.	B423
Connector Name	OCCUPANT DETECTION UNIT
Connector Type	SUMITOMO DENSO 6098-2220

Terminal No.	Color of Wire	Signal Name [Specification]
13	L	–
14	B	–

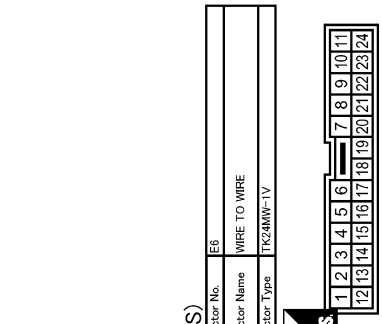
JCHWA0052GE

SEAT BELT WARNING LAMP (LHD MODELS)

Connector No.	B424
Connector Name	OCCUPANT DETECTION UNIT
Connector Type	SUMITOMO DENSO:6098-2220

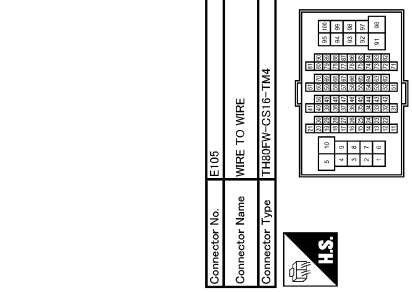
Terminal No.	Color of Wire	Signal Name [Specification]
3	L	–
4	B	–

Connector No.	E6
Connector Name	WIRE TO WIRE
Connector Type	TK24MW-1V



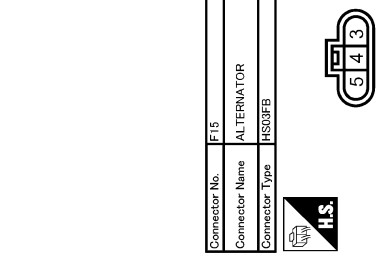
Terminal No.	Color of Wire	Signal Name [Specification]
24	O	–

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
14	O	–

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.	F60
Connector Name	ALTERNATOR
Connector Type	X02FW

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

Connector No.	F123
Connector Name	WIRE TO WIRE
Connector Type	TK24FW-1V

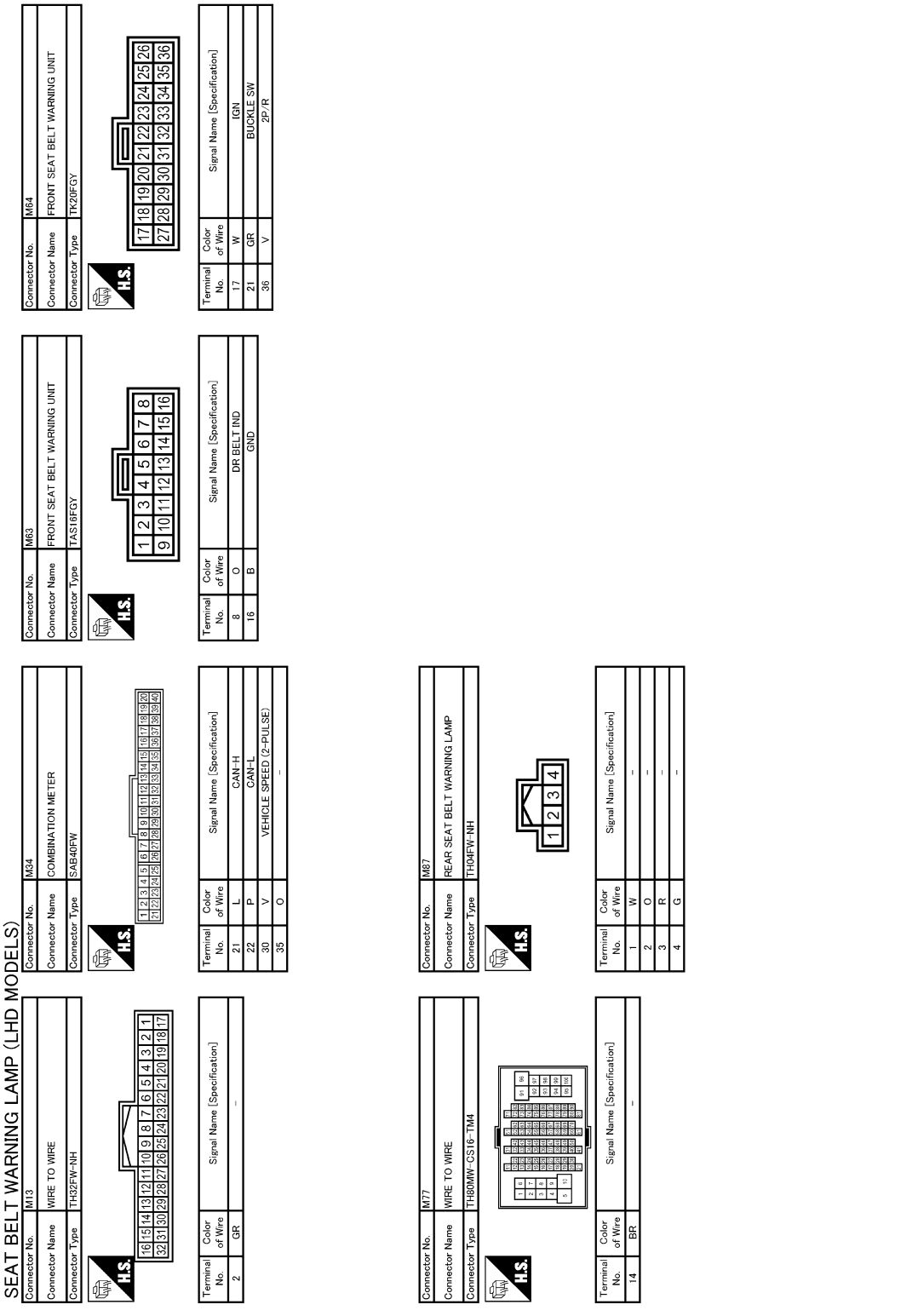
Terminal No.	Color of Wire	Signal Name [Specification]
24	L	–

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
74	L	–
75	R	–
82	GR	–
83	W	–
84	G	–
85	O	–

JCHWA0053GE

SEAT BELT WARNING LAMP (LHD MODELS)



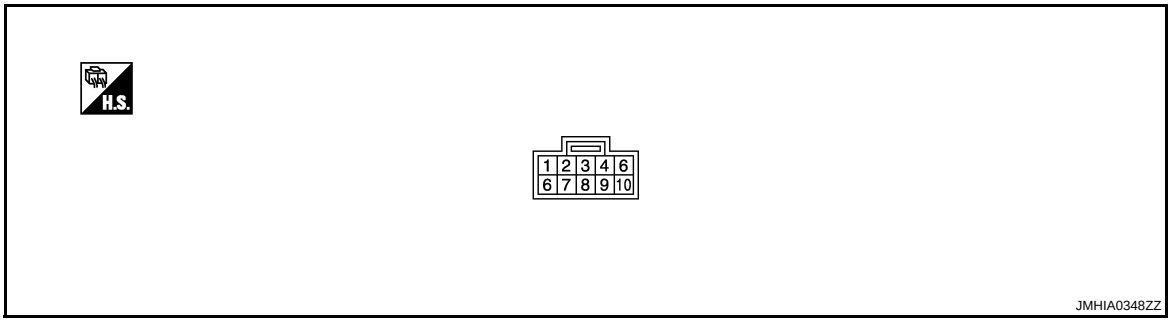
JCHWA0054GE

RHD MODELS

RHD MODELS : Reference Value

INFOID:0000000001551305

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Value
+	-	Signal name	Input/ Output			(Approx.)
1	Ground	Rear seat belt buckle switch (RH) signal	Input	Ignition switch ON	Seat belt buckle switch is fastened.	Battery voltage
					Seat belt buckle switch is unfastened.	0 V
2	Ground	—	—	—	—	0 V
3	Ground	Seat belt warning lamp signal (LH)	Output	Ignition switch ON	Seat belt warning lamp is illuminated.	0 V
					Seat belt warning lamp is not illuminated.	Battery voltage
4	Ground	Seat belt warning lamp signal (Center)	Output	Ignition switch ON	Seat belt warning lamp is illuminated.	0 V
					Seat belt warning lamp is not illuminated.	Battery voltage
5	Ground	Seat belt warning lamp signal (RH)	Output	Ignition switch ON	Seat belt warning lamp is illuminated.	0 V
					Seat belt warning lamp is not illuminated.	Battery voltage
8	Ground	Ground	—	—	—	0 V
10	Ground	IGN signal	Input	Ignition switch ON	—	Battery voltage
7	Ground	Rear seat belt buckle switch (LH) signal	Input	Ignition switch ON	Seat belt buckle switch is fastened.	Battery voltage
					Seat belt buckle switch is unfastened.	0 V
6	Ground	Rear seat belt buckle switch (center) signal	Input	Ignition switch ON	Seat belt buckle switch is fastened.	Battery voltage
					Seat belt buckle switch is unfastened.	0 V

RHD MODELS : Wiring Diagram - SEAT BELT WARNING LAMP CONTROL SYSTEM

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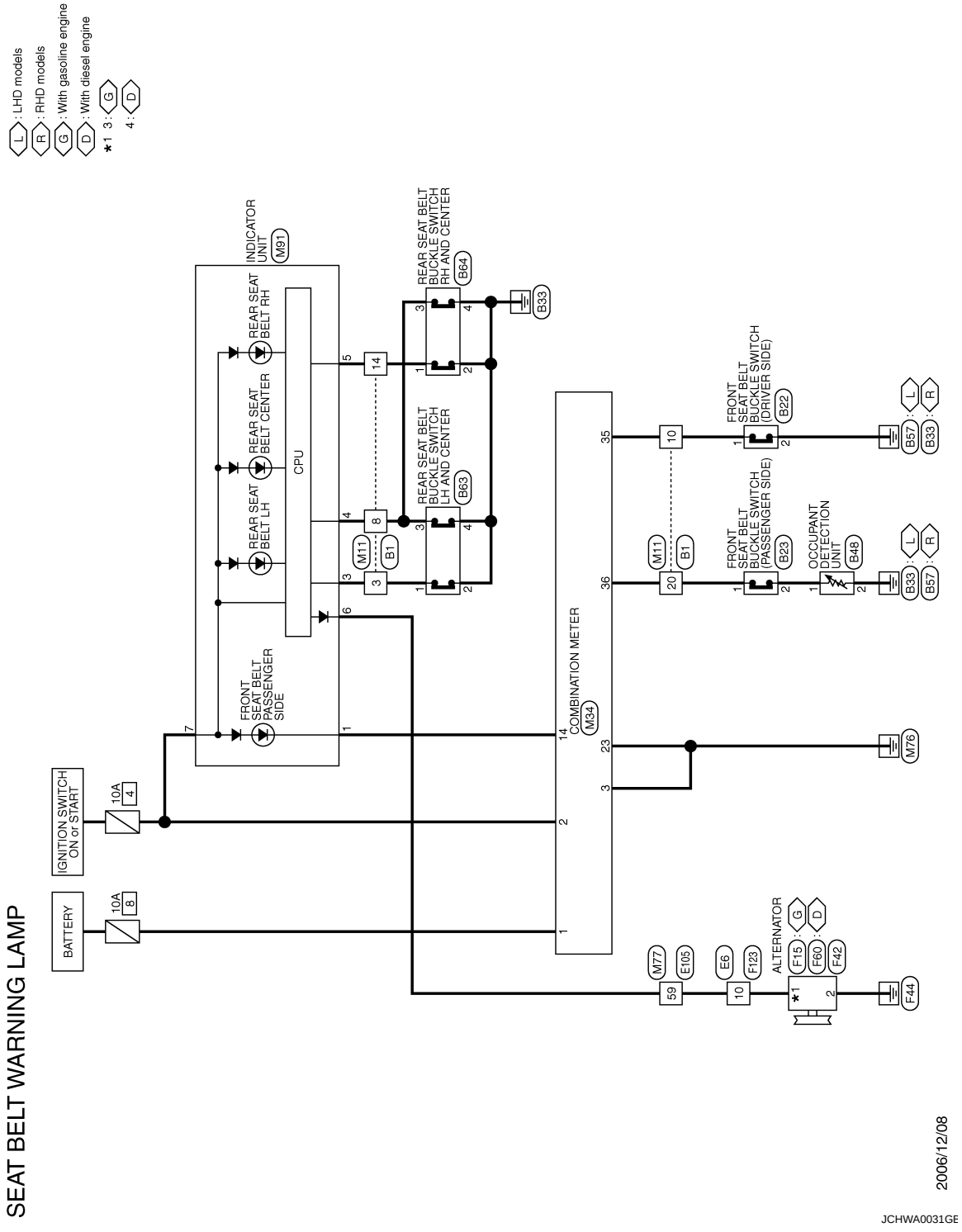
INFOID:0000000001551309

SEAT BELT WARNING LAMP



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	C02FW

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	C02FW

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

Connector No.	B48
Connector Name	OCCUPANT DETECTION UNIT
Connector Type	S02FW

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	TK24MW-1V

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	–

JCHWA0032GE

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.	F60
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-1V

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

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH24FW

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

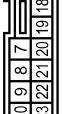
Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB40FW

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	TH80FW-NS16-TM4

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

Connector No.	M91
Connector Name	INDICATOR UNIT
Connector Type	TH08FW-1V



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

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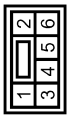
SEAT BELT WARNING LAMP (LHD MODELS)

Connector No.	B64
Connector Name	REAR SEAT BELT BUCKLE SWITCH RH AND CENTER
Connector Type	TK04FW

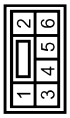
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	–
2	B	–
3	GR	–
4	B	–

Connector No.	B97
Connector Name	WIRE TO WIRE
Connector Type	NS06FW-CS



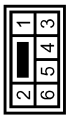
Terminal No.	Color of Wire	Signal Name [Specification]
5	GR	–
6	B	–

Connector No.	B98
Connector Name	WIRE TO WIRE
Connector Type	NS06FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
5	GR	–
6	B	–

Connector No.	B401
Connector Name	WIRE TO WIRE
Connector Type	NS06MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
5	R	–
6	O	–

Connector No.	B409
Connector Name	FRONT SEAT BELT BUCKLE SWITCH (DRIVER SIDE)
Connector Type	TK03FW

Terminal No.	Color of Wire	Signal Name [Specification]
5	R	–
6	O	–

Connector No.	B410
Connector Name	WIRE TO WIRE
Connector Type	NS06MW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
5	R	–
6	O	–

Connector No.	B416
Connector Name	FRONT SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)
Connector Type	TK03FW

Terminal No.	Color of Wire	Signal Name [Specification]
5	R	–
6	O	–

Connector No.	B423
Connector Name	OCCUPANT DETECTION UNIT
Connector Type	SUMITOMO DENSO 6098-2220

Terminal No.	Color of Wire	Signal Name [Specification]
13	L	–
14	B	–

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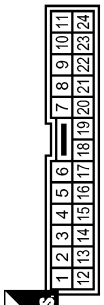
SEAT BELT WARNING LAMP (LHD MODELS)

Connector No.	B424
Connector Name	OCCUPANT DETECTION UNIT
Connector Type	SUMITOMO DENSO 6098-2220

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

Connector No.	E6
Connector Name	WIRE TO WIRE
Connector Type	TK24MW-1V



Terminal No.	Color of Wire	Signal Name [Specification]
24	O	–

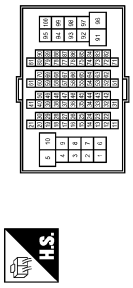
Connector No.	F42
Connector Name	ALTERNATOR
Connector Type	–

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

Connector No.	F60
Connector Name	ALTERNATOR
Connector Type	X02FW

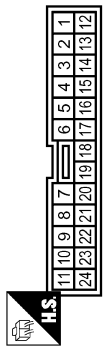
Terminal No.	Color of Wire	Signal Name [Specification]
3	L	L

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
14	O	–

Connector No.	F123
Connector Name	WIRE TO WIRE
Connector Type	TK24FW-1V

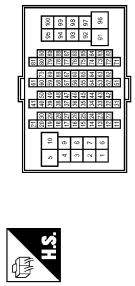


Terminal No.	Color of Wire	Signal Name [Specification]
24	L	–

Connector No.	F15
Connector Name	ALTERNATOR
Connector Type	HS03FB

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

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
74	L	–
75	R	–
82	GR	–
83	W	–
84	G	–
85	O	–

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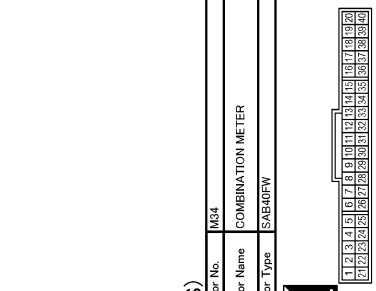
SEAT BELT WARNING LAMP (LHD MODELS)

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH

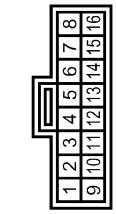
Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	–

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB40FW



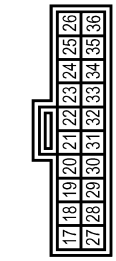
Terminal No.	Color of Wire	Signal Name [Specification]
21	L	CAN-H
22	P	CAN-L
30	V	VEHICLE SPEED (2-PULSE)
35	O	–

Connector No.	M63
Connector Name	FRONT SEAT BELT WARNING UNIT
Connector Type	TAS16FGY



Terminal No.	Color of Wire	Signal Name [Specification]
8	O	DR BELT IND
16	B	GND

Connector No.	M64
Connector Name	FRONT SEAT BELT WARNING UNIT
Connector Type	TK20FGY



Terminal No.	Color of Wire	Signal Name [Specification]
17	W	IGN
21	GR	BUCKLE SW
36	V	2P/R

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
14	BR	–

Connector No.	M87
Connector Name	REAR SEAT BELT WARNING LAMP
Connector Type	TH04FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
2	O	–
3	R	–
4	G	–

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SYMPTOM DIAGNOSIS

FRONT SEAT BELT WARNING LAMP DOES NOT ILLUMINATE

Diagnosis Procedure

INFOID:0000000001279942

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

Check font seat belt buckle switch.
Refer to SBC-10, "DRIVER SIDE : Component Function Check" or SBC-13, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

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

2. CHECK FRONT SEAT BELT WARNING LAMP

Check front seat belt warning lamp.
Refer to SBC-21, "Component Function Check".

Is the inspection result normal?

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

3. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check front seat belt warning unit power supply and ground circuit.
Refer to SBC-8, "FRONT SEAT BELT WARNING UNIT : 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 result normal?

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

REAR SEAT BELT WARNING LAMP DOES NOT ILLUMINATE

Diagnosis Procedure

INFOID:0000000001279944

1.CHECK REAR SEAT BELT BUCKLE SWITCH

Check rear seat belt buckle switch.
Refer to SBC-17, "REAR LH : Component Function Check" or SBC-19, "REAR RH AND CENTER : Component Function Check".

Is the inspection result normal?

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

2.CHECK REAR SEAT BELT WARNING LAMP

Check rear seat belt warning lamp circuit.
Refer to SBC-23, "Component Function Check".

Is the inspection result normal?

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

3.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check rear seat belt warning unit power supply and ground circuit.
Refer to SBC-8, "REAR SEAT BELT WARNING UNIT : 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 result normal?

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

FRONT SEAT BELT WARNING LAMP DOES NOT TURN OFF

Diagnosis Procedure

INFOID:0000000001279946

1.CHECK FRONT SEAT BELT BUCKLE SWITCH

Check font seat belt buckle switch.
Refer to SBC-10, "DRIVER SIDE : Component Function Check" or SBC-13, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

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

2.CHECK FRONT SEAT BELT WARNING LAMP

Check front seat belt warning lamp.
Refer to SBC-21, "Component Function Check".

Is the inspection result normal?

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

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

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

REAR SEAT BELT WARNING LAMP DOES NOT TURN OFF

Diagnosis Procedure

INFOID:0000000001279948

1.CHECK REAR SEAT BELT BUCKLE SWITCH

Check rear seat belt buckle switch.
Refer to SBC-17, "REAR LH : Component Function Check" or SBC-19, "REAR RH AND CENTER : Component Function Check".

Is the inspection result normal?

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

2.CHECK ALTERNATOR SIGNAL CIRCUIT

Check alternator signal circuit.
Refer to SBC-27, "Component Function Check".

Is the inspection result normal?

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

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

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

SEAT BELT WARNING CHIME DOES NOT SOUND

Diagnosis Procedure

INFOID:0000000001534878

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

Check font seat belt buckle switch.
Refer to SBC-10, "DRIVER SIDE : Component Function Check" or SBC-13, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

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

2.CHECK VEHICLE SPEED SIGNAL

Check vehicle speed signal circuit.
Refer to SBC-25, "Component Function Check".

Is the inspection result normal?

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

3.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check front seat belt warning unit power supply and ground circuit.
Refer to SBC-8, "FRONT SEAT BELT WARNING UNIT : Diagnosis Procedure".

Is the inspection result normal?

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

4.COMFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check internal 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:0000000001557118

The Supplemental Restraint System such as “AIR BAG” and “SEAT BELT PRE-TENSIONER”, used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the “SRS AIRBAG” and “SEAT BELT” 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 “SRS AIRBAG”.**
- **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.**