

ACCESSORIES & EQUIPMENT

Seat Belt Warning System (Diagnostics & Symptom Tests) - Sienna

SEAT BELT WARNING SYSTEM

PRECAUTION

PRECAUTION

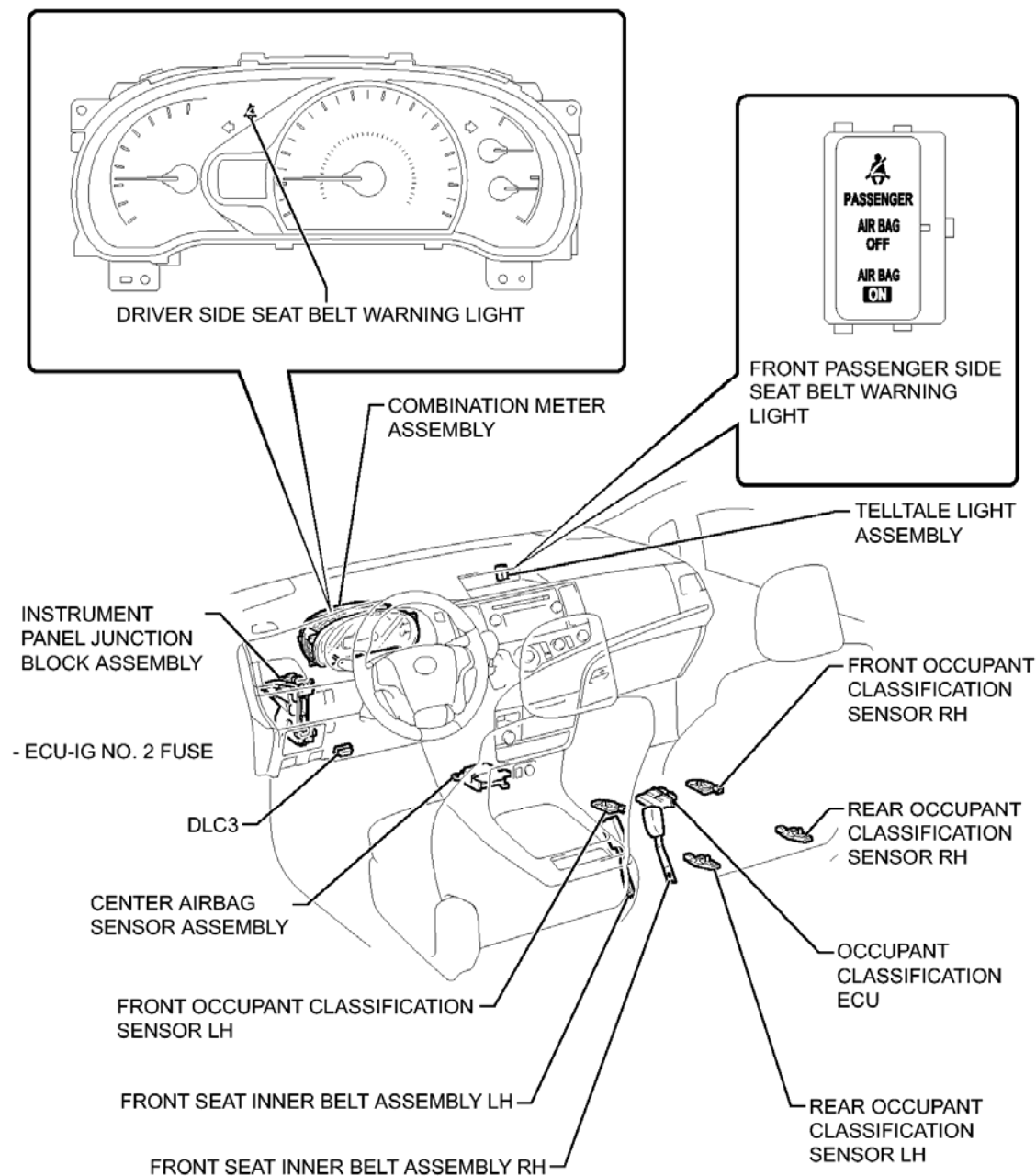
1. IGNITION SWITCH EXPRESSIONS

- a. The type of ignition switch used on this model differs according to the specifications of the vehicle. The expressions listed in the table below are used in this information.

Expression	Ignition Switch (Position)	Engine Switch (Condition)
Ignition switch off	LOCK	Off
Ignition switch ACC	ACC	On (ACC)
Ignition switch ON	ON	On (IG)
Engine start	START	Start

PARTS LOCATION

ILLUSTRATION



P

Fig. 1: Seat Belt Warning System Components Location
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

SYSTEM DIAGRAM

SYSTEM DIAGRAM

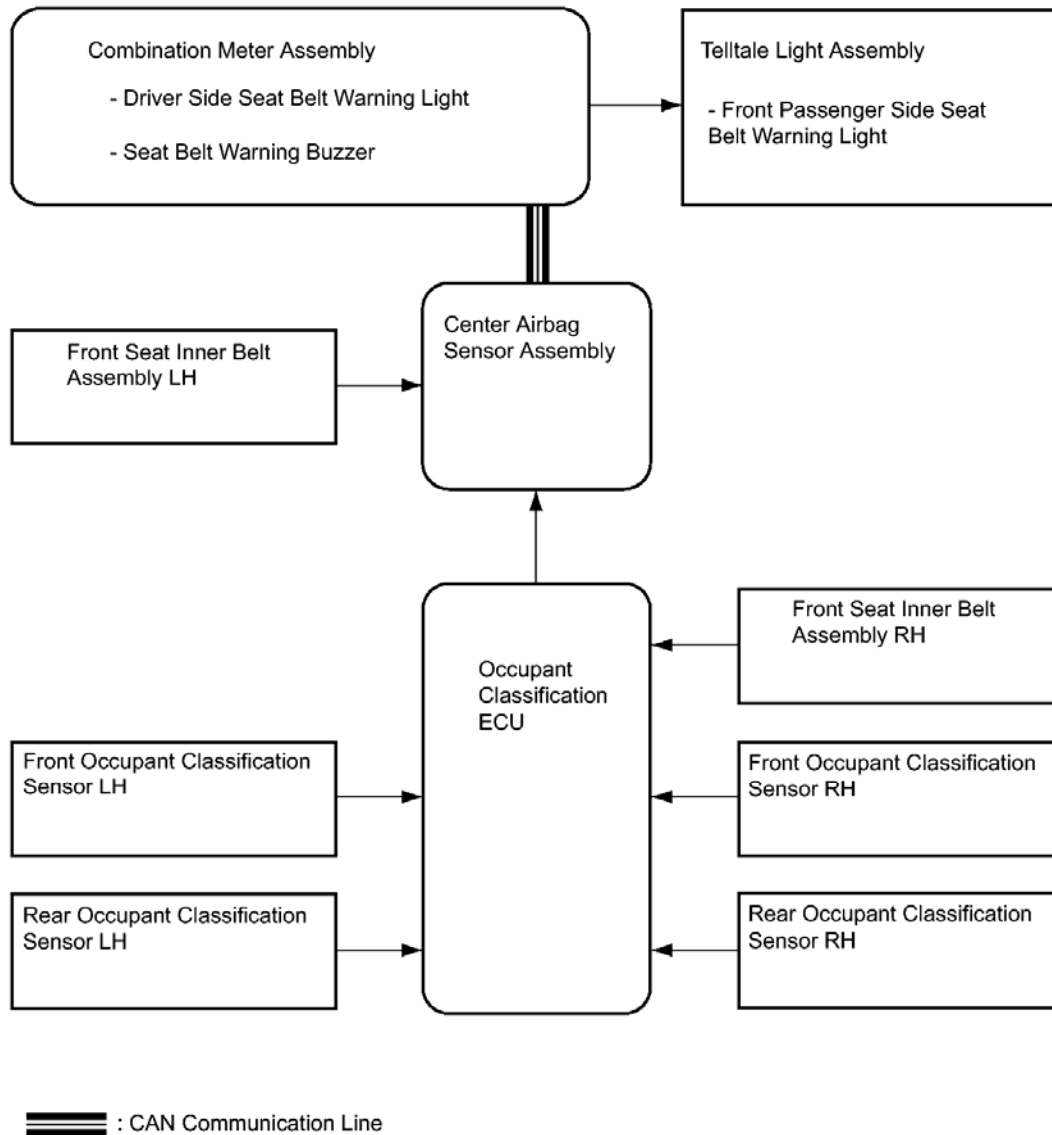


Fig. 2: Seat Belt Warning System Diagram
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

COMMUNICATION TABLE

Sender	Receiver	Signal	Communication Method
Center airbag sensor assembly	Combination meter assembly	- Front seat inner belt buckle switch signal (for driver side) - Front seat inner belt buckle switch signal (for front passenger side)	CAN

		• Occupant detection signal	
--	--	---	--

SYSTEM DESCRIPTION

SYSTEM DESCRIPTION

1. SEAT BELT WARNING SYSTEM DESCRIPTION

If a seat belt is not fastened, this system flashes the seat belt warning light or sounds the seat belt warning buzzer as a reminder.

a. Driver side seat belt warning light:

When the driver side seat belt is not fastened with the ignition switch ON, the driver side seat belt warning light on the combination meter assembly blinks to inform the driver. The center airbag sensor assembly detects the driver side seat belt status and sends signals to the combination meter assembly via CAN communication.

b. Front passenger side seat belt warning light:

When the front passenger side seat belt is not fastened with the ignition switch ON and the front passenger seat occupied, the front passenger side seat belt warning light on the telltale light assembly blinks. The telltale light assembly displays the front passenger side seat belt status and whether the front passenger side seat is occupied.

c. Seat belt warning buzzer:

When the vehicle is driven at approximately 20 km/h (12.4 mph) or more while the driver or front passenger side seat belt is not fastened, the seat belt warning buzzer in the combination meter assembly sounds at an interval of 1.2 seconds for 9.6 seconds. After that, the buzzer sounds at an interval of 0.4 seconds for 20 seconds.

2. FUNCTION OF MAIN COMPONENTS

Component	Function
Front seat inner belt LH (driver side buckle switch)	Informs center airbag sensor of the driver side seat belt condition (fastened or unfastened).
Front seat	Informs center airbag

inner belt RH (front passenger side buckle switch)	sensor of the front passenger side seat belt condition (fastened or unfastened).
Occupant classification sensor	Informs center airbag sensor of the front passenger side seat condition (occupied or unoccupied).
Driver seat belt warning light	If driver side seat belt is unfastened and the ignition switch is ON, the meter ECU flashes the seat belt warning light of the combination meter assembly as a reminder.
Front passenger seat belt warning light	When front passenger side seat is occupied and the ignition switch is ON, if the front passenger side seat belt is unfastened, the meter ECU flashes

	the seat belt warning light on the telltale light assembly as a reminder.
Seat belt warning buzzer	If driver or front passenger side seat belt is unfastened and the ignition switch is ON, the meter ECU sounds the buzzer as a reminder.

HOW TO PROCEED WITH TROUBLESHOOTING

HOW TO PROCEED WITH TROUBLESHOOTING

HINT:

- Use these procedure to troubleshoot the seat belt warning system.
- *: Use the Techstream.

1. VEHICLE BROUGHT TO WORKSHOP

NEXT: Go to next step

2. CUSTOMER PROBLEM ANALYSIS

HINT:

- In troubleshooting, confirm that the problem symptoms have been accurately identified. Preconceptions should be discarded in order to make an accurate judgment. To clearly understand what the problem symptoms are, it is extremely important to ask the customer about the problem and the conditions at the time the malfunction occurred.
- Gather as much information as possible for reference. Past problems that seem unrelated may also help in some cases.
- The following 5 items are important points in the problem analysis:

--	--

What	Vehicle, system name
When	Date, time, occurrence frequency
Where	Road conditions
Under what conditions?	Driving conditions, weather conditions
How did it happen?	Problem symptoms

NEXT: Go to next step

3. INSPECT BATTERY VOLTAGE

- a. Measure the battery voltage.

Standard voltage

11 to 14 V

If the voltage is below 11 V, recharge or replace the battery before proceeding to the next step.

NEXT: Go to next step

4. CHECK COMMUNICATION FUNCTION OF CAN COMMUNICATION SYSTEM*

- a. Use the Techstream to check if the CAN communication system is functioning normally.

RESULT

Result	Proceed to
CAN DTC is not output	A
CAN DTC is output	B

B --> GO TO CAN COMMUNICATION SYSTEM. Refer to HOW TO PROCEED WITH TROUBLESHOOTING

A: Go to next step

5. CHECK FOR DTC (AIRBAG SYSTEM)*

- a. Clear the DTC. Refer to **DTC CHECK / CLEAR** .
- b. Recheck for DTCs.

RESULT

Result	Proceed to
DTC is not output	A
DTC is output	B

B --> GO TO AIRBAG SYSTEM. Refer to DIAGNOSTIC TROUBLE CODE CHART

A: Go to next step

6. CHECK FOR DTC (OCCUPANT CLASSIFICATION SYSTEM)*

- a. Clear the DTC. Refer to **DTC CHECK / CLEAR** .
- b. Recheck for DTCs.

RESULT

Result	Proceed to
DTC is not output	A
DTC is output	B

B --> GO TO OCCUPANT CLASSIFICATION SYSTEM. Refer to DIAGNOSTIC TROUBLE CODE CHART

A: Go to next step

7. PROBLEM SYMPTOMS TABLE

- a. Refer to **PROBLEM SYMPTOMS TABLE**.

RESULT

Result	Proceed to
--------	------------

Fault is not listed in Problem Symptoms Table	A
Fault is listed in Problem Symptoms Table	B

B --> GO TO STEP 9

A: Go to next step

8. OVERALL ANALYSIS AND TROUBLESHOOTING*

- Data List / Active Test. Refer to **DATA LIST / ACTIVE TEST**.
- Terminals of ECU. Refer to **TERMINALS OF ECU**.
- On-vehicle Inspection. Refer to **ON-VEHICLE INSPECTION**.

NEXT: Go to next step

9. REPAIR OR REPLACE

NEXT: Go to next step

10. CONFIRMATION TEST

NEXT --> END

CUSTOMIZE PARAMETERS

CUSTOMIZE PARAMETERS

1. CUSTOMIZE FUNCTION WITH TECHSTREAM

NOTE:

- Be sure to record the current settings before customizing.
- These buzzers should be ON for safe driving. Perform these procedure only if it is necessary to turn the buzzer OFF (disabled).

HINT:

The following items can be customized using the Techstream.

- Connect the Techstream to the DLC3.
- Turn the ignition switch to ON.
- Turn the Techstream on.
- Enter the following menus: Body Electrical / Combination Meter / Utility / Customize / Warning.
- Select the setting by referring to the table below.

COMBINATION METER

Tester Display	Default	Content	Setting
Driver Side Seatbelt Warning Buzzer	ON	Function to sound the seat belt warning buzzer	ON/OFF
Front Passenger Side Seatbelt Warning Buzzer	ON	Function to sound the seat belt warning buzzer	ON/OFF

HINT:

This setting is only valid for the buzzer which sounds at 20 km/h (12.4 mph) or more.

PROBLEM SYMPTOMS TABLE

PROBLEM SYMPTOMS TABLE

HINT:

Use the table below to help determine the cause of problem symptoms. If multiple suspected areas are listed, the potential causes of the symptoms are listed in order of probability in the "Suspected Area" column of the table. Check each symptom by checking the suspected areas in the order they are listed. Replace parts as necessary.

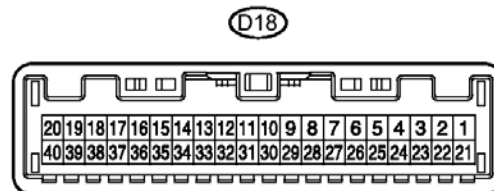
SEAT BELT WARNING SYSTEM

Symptom	Suspected Area	See
Driver side seat belt warning light does not operate	Refer to troubleshooting	Refer to <u>Driver Side Seat Belt Warning Light does not Operate</u>
Front passenger side seat belt warning light malfunction	Refer to troubleshooting	Refer to <u>Front Passenger Side Seat Belt Warning Light Malfunction</u>

TERMINALS OF ECU

TERMINALS OF ECU

1. CHECK COMBINATION METER ASSEMBLY



P

Fig. 3: ECU Connector Terminal Identification - Combination Meter Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- Measure the resistance and voltage according to the value(s) in the table below.

Terminal No. (Symbol)	Wiring Color	Terminal Description	Condition	Specified Condition
D18-1 (B) - Body ground	W - Body ground	Battery power supply	Always	11 to 14 V
D18-21 (IG+) - Body ground	GR - Body ground	Ignition switch power supply	Ignition switch ON	11 to 14 V
			Ignition switch off	Below 1 V
D18-39 (E1) - Body ground	W-B - Body ground	Ground	Always	Below 1 ohms
D18-20 (ES) - Body ground	BR - Body ground	Ground	Always	Below 1 ohms
D18-30 (CANH) - Body ground	P - Body ground	CAN communication line	Always	200 ohms or higher
D18-29 (CANL) - Body ground	W - Body ground	CAN communication line	Always	200 ohms or higher

D18-35 (P/SB) - Body ground	W - Body ground	Front passenger side seat belt warning light signal	Front passenger side seat occupied, seat belt fastened	11 to 14 V
			Front passenger side seat occupied, seat belt unfastened	Below 1 V

If the result is not as specified, the combination meter assembly may have a malfunction.

2. CHECK CENTER AIRBAG SENSOR ASSEMBLY

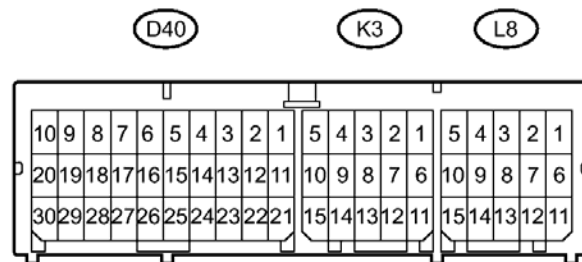
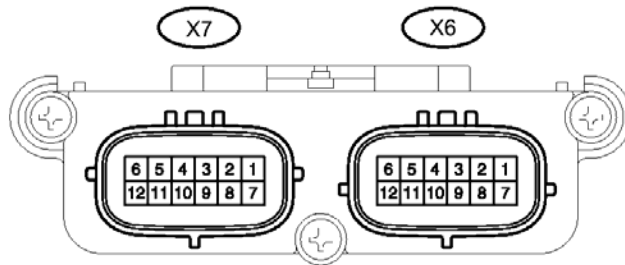


Fig. 4: ECU Connector Terminal Identification - Center Airbag Sensor Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Terminal No.	Terminal Symbol	Destination
L8-12	FSR+	Occupant classification ECU
L8-13	FSR-	Occupant classification ECU
K3-11	LBE+	Front seat inner belt assembly (for driver side)
		Front seat inner belt

K3-12	LBE-	assembly (for driver side)
-------	------	----------------------------------

3. CHECK OCCUPANT CLASSIFICATION ECU



P

Fig. 5: ECU Connector Terminal Identification - Occupant Classification ECU
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- Measure the voltage according to the value(s) in the table below.

Terminal No. (Symbol)	Wiring Color	Terminal Description	Condition	Specified Condition
X6-1 (+B) - X6-3 (GND)	W - W - B	Battery power supply	Always	11 to 14 V
X6-2 (DIA) - X6-3 (GND)	GR - W-B	Diagnosis (DLC3)	Ignition switch ON	Pulse generation
X6-3 (GND) - Body ground	W-B - Body ground	Ground	Always	Below 1 V
X6-7 (IG) - X6-3 (GND)	B - W - B	Ignition switch power supply	Ignition switch ON	11 to 14 V
X6-8 (FSR+) - X6-4 (FSR-)	L - LG	Center airbag sensor assembly communication line	Ignition switch ON	Pulse generation
X6-9 (BSW) - X6-5	G - P	Front passenger side buckle switch	Always	4 to 14 V

(BGND)		line		
X7-1 (SGD1) - X6-3 (GND)	G - W- B	Front occupant classification sensor LH ground line	Always	Below 1 V
X7-2 (SGD2) - X6-3 (GND)	LG - W-B	Front occupant classification sensor RH ground line	Always	Below 1 V
X7-3 (SGD3) - X6-3 (GND)	W - W- B	Rear occupant classification sensor LH ground line	Always	Below 1 V
X7-4 (SGD4) - X6-3 (GND)	BR - W-B	Rear occupant classification sensor RH ground line	Always	Below 1 V
X7-11 (SVC1) - X7-1 (SGD1)	R - G	Front occupant classification sensor LH power supply line	Ignition switch ON, a load applied to front occupant classification sensor LH	4.9 to 5.1 V
X7-12 (SVC2) - X7-2 (SGD2)	W - LG	Front occupant classification sensor RH power supply line	Ignition switch ON, a load applied to front occupant classification sensor RH	4.9 to 5.1 V
X7-5 (SVC3) - X7-3 (SGD3)	GR - W	Rear occupant classification sensor LH power supply line	Ignition switch ON, a load applied to rear occupant classification sensor LH	4.9 to 5.1 V
X7-6 (SVC4) - X7-4 (SGD4)	V - BR	Rear occupant classification sensor RH power supply line	Ignition switch ON, a load applied to rear occupant classification sensor RH	4.9 to 5.1 V
			Ignition	

X7-7 (SIG1) - X7-1 (SGD1)	P - G	Front occupant classification sensor LH signal line	switch ON, a load applied to front occupant classification sensor LH	0 to 5.1 V
X7-8 (SIG2) - X7-2 (SGD2)	L - LG	Front occupant classification sensor RH signal line	Ignition switch ON, a load applied to front occupant classification sensor RH	0 to 5.1 V
X7-9 (SIG3) - X7-3 (SGD3)	SB - W	Rear occupant classification sensor LH signal line	Ignition switch ON, a load applied to rear occupant classification sensor LH	0 to 5.1 V
X7-10 (SIG4) - X7-4 (SGD4)	B - BR	Rear occupant classification sensor RH signal line	Ignition switch ON, a load applied to rear occupant classification sensor RH	0 to 5.1 V

If the result is not as specified, the occupant classification ECU may have a malfunction.

DIAGNOSIS SYSTEM

DIAGNOSIS SYSTEM

1. CHECK DLC3

- Check the DLC3. Refer to **GENERAL INFORMATION** .

2. INSPECT BATTERY VOLTAGE

- Measure the battery voltage.

Standard voltage

11 to 14 V

If the voltage is below 11 V, recharge or replace the battery.

DATA LIST / ACTIVE TEST

DATA LIST / ACTIVE TEST

1. DATA LIST

HINT:

Using the Techstream to read the Data List allows the values or states of switches, sensors, actuators and other items to be read without removing any parts. This non-intrusive inspection can be very useful because intermittent conditions or signals may be discovered before parts or wiring is disturbed. Reading the Data List information early in troubleshooting is one way to save diagnostic time.

NOTE: In the following table, the values listed under "Normal Condition" are reference values. Do not depend solely on these reference values when deciding whether a part is faulty or not.

- Connect the Techstream to the DLC3.
- Turn the ignition switch to ON.
- Turn the Techstream on.
- Enter the following menus: Body Electrical / (desired system) / Data List.
- According to the display on the Techstream, read the Data List.

SRS AIRBAG

Tester Display	Measurement Item/Range	Normal Condition	Diagnostic Note
Passenger Classification	Front passenger side seat condition /NG, OFF, Child, AF05, AM50 or Fail	NG: Data not determined OFF: Vacant Child: Child seated AF05: Adult seated AM50: Adult seated Fail: A failure is detected	-
	Driver side seat belt	Unset: Driver side seat belt unfastened Set: Driver	

Left side Buckle SW	buckle switch/Unset, Set or NG	side seat belt fastened NG: Data not determined	-
Right side Buckle SW	Front passenger side seat belt buckle switch/Unset, Set or NG	Unset: Front passenger side seat belt unfastened Set: Front passenger side seat belt fastened NG: Data not determined	-

OCCUPANT DETECTION

Tester Display	Measurement Item/Range	Normal Condition	Diagnostic Note
Passenger Buckle SW	Front passenger side seat belt buckle switch/Unset, Set or NG	Unset: Front passenger side seat belt unfastened Set: Front passenger side seat belt fastened NG: Data not determined	-
Passenger Classification	Front passenger side seat condition/CRS, AM50, AF05,	CRS: Child restraint system AM50: Adult seated AF05: Adult	-

	Child or OFF	seated Child: Child seated OFF: Vacant	
--	--------------	---	--

COMBINATION METER

Tester Display	Measurement Item/Range	Normal Condition	Diagnostic Note
Driver Side Seatbelt Warning Buzzer	Driver side seat belt warning buzzer/ON or OFF	Customized value displayed	-
P-Seatbelt Warning Buzzer	Front passenger side seat belt warning buzzer/ON or OFF	Customized value displayed	-

2. ACTIVE TEST

Using the Techstream to perform Active Tests allows relays, VSVs, actuators and other items to be operated without removing any parts. This non-intrusive functional inspection can be very useful because intermittent operation may be discovered before parts or wiring is disturbed. Performing Active Tests early in troubleshooting is one way to save diagnostic time. Data List information can be displayed while performing Active Tests.

- Connect the Techstream to the DLC3.
- Turn the ignition switch to ON.
- Turn the Techstream on.
- Enter the following menus: Body Electrical / Combination Meter / Active Test.
- According to the display on the Techstream, perform the Active Test.

COMBINATION METER

Tester Display	Test Part	Control Range	Diagnostic Note
Front Passenger Side Seat Belt	Front passenger side seat belt warning light	OFF or ON	Confirm that the vehicle stopped with the engine

			idling.
Driver Side Seat Belt	Driver side seat belt warning light	OFF or ON	Confirm that the vehicle stopped with the engine idling.

ON-VEHICLE INSPECTION

ON-VEHICLE INSPECTION

1. INSPECT DRIVER SIDE SEAT BELT WARNING

- Turn the ignition switch to ON.
- When the driver side seat belt is not fastened, check that the driver side seat belt warning light on the combination meter assembly blinks.
- When the driver side seat belt is fastened, check that the driver side seat belt warning light on the combination meter assembly is off.

2. INSPECT FRONT PASSENGER SIDE SEAT BELT WARNING

- Turn the ignition switch to ON.
- When the front passenger side seat belt is not fastened with the front passenger side seat occupied, check that the front passenger side seat belt warning light on the telltale light assembly blinks.
- When the front passenger side seat belt is fastened with the front passenger side seat occupied, check that the front passenger side seat belt warning light on the telltale light assembly is off.

3. INSPECT SEAT BELT WARNING BUZZER

HINT:

The seat belt warning buzzer can be customized. Make sure that this function is ON. Refer to **CUSTOMIZE PARAMETERS**.

- Lift up the vehicle using a swing arm type lift. Refer to **VEHICLE LIFT AND SUPPORT LOCATIONS**.
- Place a weight of 20 kg (44.0 lb) on the front passenger side seat.

NOTE: Place the weight on the seat cushion and do not allow it to come into contact with the seatback.

- Start the engine.
- When the vehicle is driven at approximately 20 km/h (12.4 mph) or more while the driver or front passenger side seat belt is not being fastened, check that the buzzer in the combination meter assembly sounds at an interval of 1.2 seconds for 9.6 seconds.
- After previous step, check that the buzzer sounds at an interval of 0.4 seconds for 20 seconds.

- f. After the buzzer has stopped, turn the ignition switch off and then start the engine again. Drive the vehicle at approximately 20 km/h (12.4 mph) or more while the driver or front passenger side seat belt is not being fastened, and then check that the buzzer sounds again.
- g. After the buzzer has stopped, fasten the driver and front passenger seat belts. Drive the vehicle at approximately 20 km/h (12.4 mph) or more and unfasten the driver or front passenger side seat belt, and then check that the buzzer sounds again.
- h. After the buzzer has stopped, move the shift lever to R, and then move it to D. Drive the vehicle at approximately 20 km/h (12.4 mph) or more, and then check that the buzzer sounds again.

SYMPTOM TESTS

Driver Side Seat Belt Warning Light does not Operate

DESCRIPTION

When the ignition switch is ON, the center airbag sensor assembly transmits front seat inner belt status signals to the combination meter assembly through CAN. If the driver seat belt is not fastened, the combination meter assembly blinks the driver side seat belt warning light. If the seat belt is fastened, the warning light goes off.

WIRING DIAGRAM

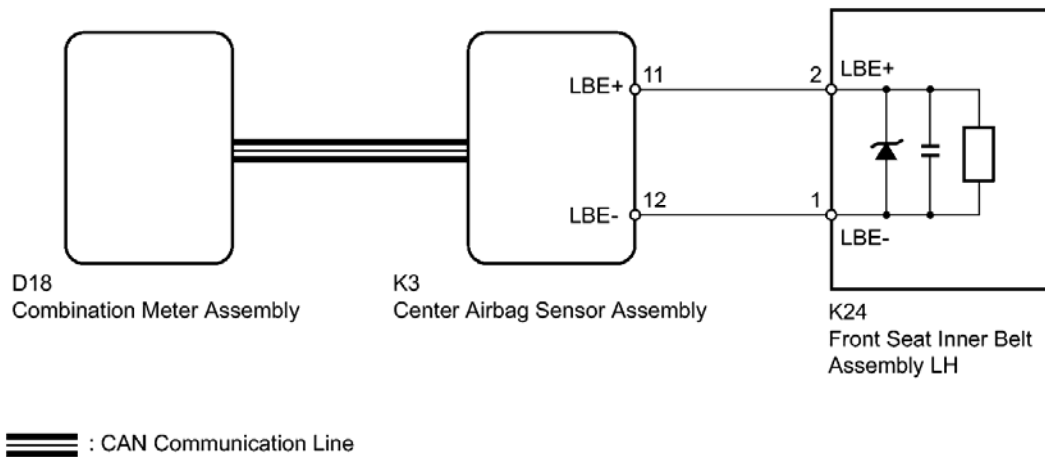


Fig. 6: Driver Side Seat Belt Warning Light - Wiring Diagram

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSPECTION PROCEDURE

PROCEDURE

1. CHECK DTC OUTPUT (CAN COMMUNICATION SYSTEM)

- a. Clear the DTC. Refer to **HOW TO PROCEED WITH TROUBLESHOOTING** .

- b. Recheck for DTCs.

RESULT

Result	Proceed to
DTC is not output	A
DTC is output	B

B --> See step 4

A: Go to next step

2. CHECK DTC OUTPUT (AIRBAG SYSTEM)

- a. Clear the DTC. Refer to **DTC CHECK / CLEAR**.
- b. Recheck for DTCs.

RESULT

Result	Proceed to
DTC is not output	A
DTC is output	B

B --> See step 5

A: Go to next step

3. PERFORM ACTIVE TEST USING TECHSTREAM (DRIVER SIDE SEAT BELT)

- a. Connect the Techstream to the DLC3.
- b. Turn the ignition switch to ON.
- c. Turn the Techstream on.
- d. Enter the following menus: Body Electrical / Combination Meter / Active Test.
- e. According to the display on the Techstream, perform the Active Test.

COMBINATION METER

Tester Display	Test Part	Control Range	Diagnostic Note
----------------	-----------	---------------	-----------------

Driver Side Seat Belt	Driver side seat belt warning light	OFF or ON	Confirm that the vehicle stopped with the engine idling
--------------------------------	--	--------------	---

OK

The driver side seat belt warning light on the combination meter assembly operates normally.

NG --> See step 6

OK --> See step 7

4. **GO TO CAN COMMUNICATION SYSTEM. Refer to HOW TO PROCEED WITH TROUBLESHOOTING**
5. **GO TO AIRBAG SYSTEM. Refer to DIAGNOSTIC TROUBLE CODE CHART**
6. **REPLACE COMBINATION METER ASSEMBLY. Refer to REMOVAL**
7. **USE SIMULATION METHOD TO CHECK. Refer to HOW TO PROCEED WITH TROUBLESHOOTING**

Front Passenger Side Seat Belt Warning Light Malfunction

DESCRIPTION

The occupant classification ECU detects the state of the front seat inner belt assembly RH and load sensor when the front passenger side seat is occupied with the ignition switch ON. If the front passenger side seat belt is not fastened, the front passenger side seat belt warning light on the telltale light assembly blinks. If the seat belt is fastened, the warning light goes off.

WIRING DIAGRAM

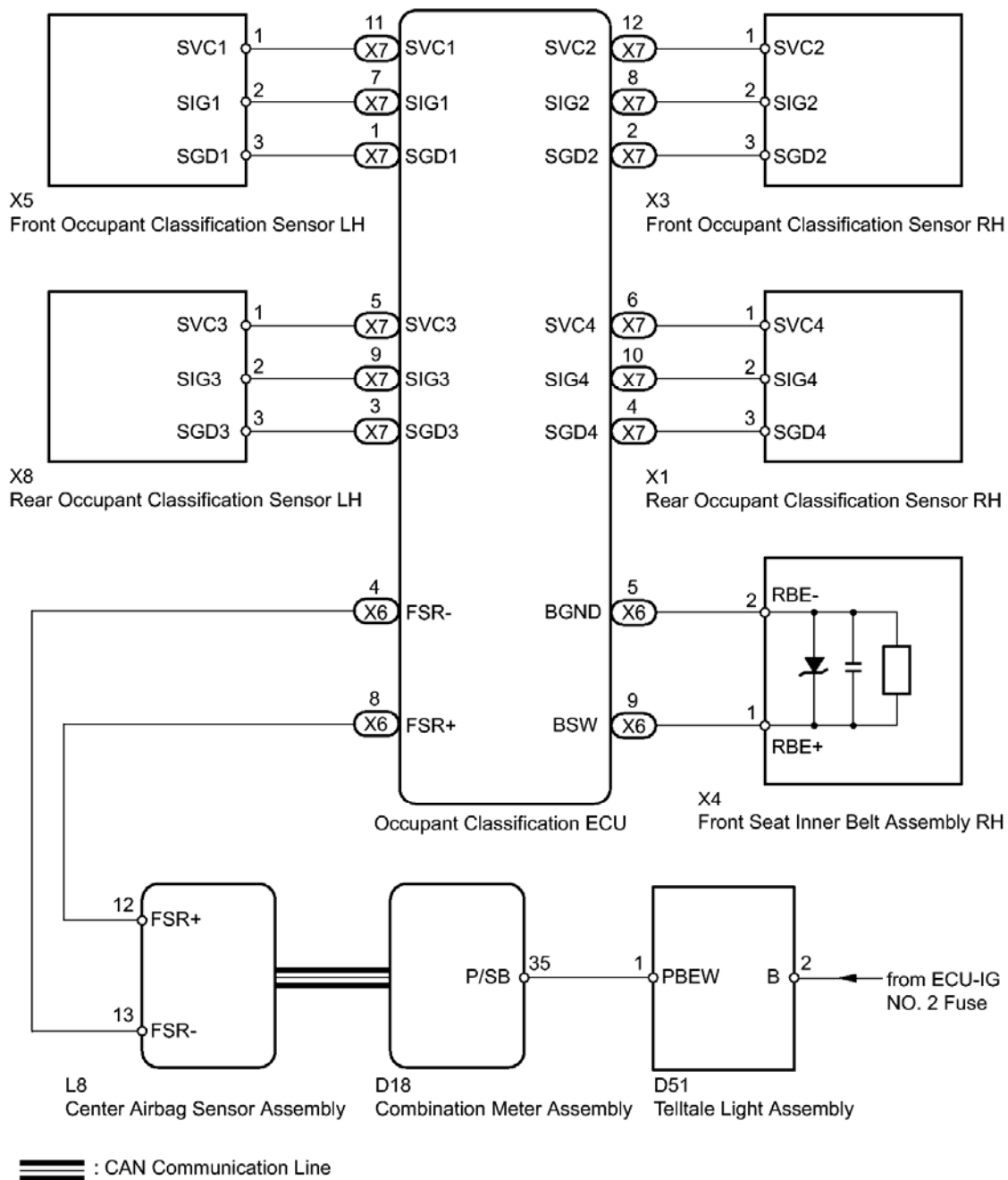


Fig. 7: Front Passenger Side Seat Belt Warning Light - Wiring Diagram
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSPECTION PROCEDURE

WARNING: Inspect the fuses for circuits related to this system before performing the following inspection procedure.

PROCEDURE

1. CHECK DTC OUTPUT (CAN COMMUNICATION SYSTEM)

- Clear the DTC. Refer to HOW TO PROCEED WITH TROUBLESHOOTING.
- Recheck for DTCs.

RESULT

Result	Proceed to
DTC is not output	A
DTC is output	B

B --> See step 9

A: Go to next step

2. CHECK DTC OUTPUT (OCCUPANT CLASSIFICATION SYSTEM)

- Clear the DTC. Refer to DTC CHECK / CLEAR.
- Recheck for DTCs.

RESULT

Result	Proceed to
DTC is not output	A
DTC is output	B

B --> See step 10

A: Go to next step

3. CHECK DTC OUTPUT (AIRBAG SYSTEM)

- Clear the DTC. Refer to DTC CHECK / CLEAR.
- Recheck for DTCs.

RESULT

Result	Proceed to
--------	------------

DTC is not output	A
DTC is output	B

B --> See step 12

A: Go to next step

4. PERFORM ACTIVE TEST USING TECHSTREAM (FRONT PASSENGER SIDE SEAT BELT)

- Connect the Techstream to the DLC3.
- Turn the ignition switch to ON.
- Turn the Techstream on.
- Enter the following menus: Body Electrical / Combination Meter / Active Test.
- According to the display on the Techstream, perform the Active Test.

COMBINATION METER

Tester Display	Test Part	Control Range	Diagnostic Note
Front Passenger Side Seat Belt	Front passenger side seat belt warning light	OFF or ON	Confirm that the vehicle stopped with the engine idling

OK

The front passenger side seat belt warning light on the telltale light assembly operates normally.

NG --> See step 5

OK --> See step 11

5. CHECK HARNESS AND CONNECTOR (TELLTALE LIGHT - BATTERY)

- Disconnect the D51 telltale light connector.

*a

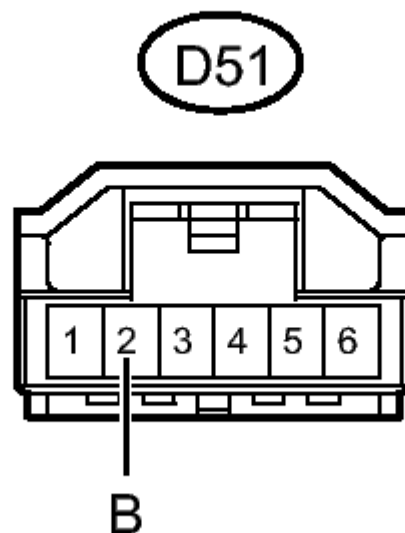


Fig. 8: Checking Harness And Connector (Telltale Light - Battery) With D51 Connector End View

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Measure the voltage according to the value(s) in the table below.

Standard Voltage

Tester Connection	Switch Condition	Specified Condition
D51-2 (B) - Body ground	Ignition switch ON	11 to 14 V
	Ignition switch off	Below 1 V

TEXT IN ILLUSTRATION

*a	Front view of wire harness connector (to Telltale Light Assembly)
----	---

- c. Reconnect the telltale light connector.

NG --> REPAIR OR REPLACE HARNESS OR CONNECTOR

OK: Go to next step

6. CHECK HARNESS AND CONNECTOR (COMBINATION METER - TELLTALE LIGHT)

- a. Disconnect the D18 combination meter assembly connector.
- b. Disconnect the D51 telltale light connector.
- c. Measure the resistance according to the value(s) in the table below.

Standard Resistance

Tester Connection	Condition	Specified Condition
D18-35 (P/SB) - D51-1 (PBEW)	Always	Below 1 ohms
D51-1 (PBEW) - Body ground	Always	10 kohms or higher

- d. Reconnect the telltale light connector.
- e. Reconnect the combination meter assembly connector.

NG --> REPAIR OR REPLACE HARNESS OR CONNECTOR

OK: Go to next step

7. REPLACE TELLTALE LIGHT ASSEMBLY

- a. Replace the telltale light assembly. Refer to **REMOVAL** .

NEXT: Go to next step

8. CHECK FRONT PASSENGER SIDE SEAT BELT WARNING LIGHT

- a. Check the front passenger side seat belt warning light operation. Refer to **ON-VEHICLE INSPECTION**.

NG --> See step 11

OK --> END (TELLTALE LIGHT ASSEMBLY WAS DEFECTIVE)

9. GO TO CAN COMMUNICATION SYSTEM. Refer to HOW TO PROCEED WITH

TROUBLESHOOTING

10. **GO TO OCCUPANT CLASSIFICATION SYSTEM. Refer to DIAGNOSTIC TROUBLE CODE CHART**
11. **REPLACE COMBINATION METER ASSEMBLY. Refer to REMOVAL**
12. **GO TO AIRBAG SYSTEM. Refer to DIAGNOSTIC TROUBLE CODE CHART**