

REGISTRATION

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NOTICE:

- **If any DTCs related to the occupant classification ECU are output, troubleshoot those DTCs by referring to the DIAGNOSTIC TROUBLE CODE CHART.**
- **When ECU data saving or loading operations cannot be performed, replace the front seat cushion assembly (with occupant classification ECU and occupant classification sensor).**

HINT:

- When the occupant classification ECU for a bench seat type is replaced, the previous ECU data must be saved in the intelligent tester and loaded into the new ECU by following the flowchart below.
 - Until the data from the previous ECU are loaded into the new occupant classification ECU, these data are not erased even when the tester is turned off.
 - ECU EXCHANGE PROCEDURE (Before Exchange) describes the procedure to save the data in the intelligent tester from the occupant classification ECU which has been installed on the vehicle. ECU EXCHANGE PROCEDURE (After Exchange) describes the procedure to load the data from the previous ECU, stored in the intelligent tester, into the new ECU.
- (a) Connect the intelligent tester to the DLC3.
 - (b) Turn the ignition switch to the ON position.
 - (c) Store the occupant classification ECU data into the intelligent tester by following the prompts on the tester screen.

HINT:

If the ECU data cannot be stored in the intelligent tester, replace the front seat cushion assembly (with occupant classification ECU and occupant classification sensor).

- (d) Turn the ignition switch to the LOCK position.
- (e) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (f) Replace the occupant classification ECU (See page [RS-634](#)).
- (g) Connect the negative (-) terminal cable to the battery.
- (h) Turn the ignition switch to the ON position.
- (i) Load the data from the previous ECU stored in the tester, into the newly installed ECU by following the prompts on the tester screen.
- (j) Turn the ignition switch to the LOCK position.
- (k) Turn the ignition switch to the ON position.

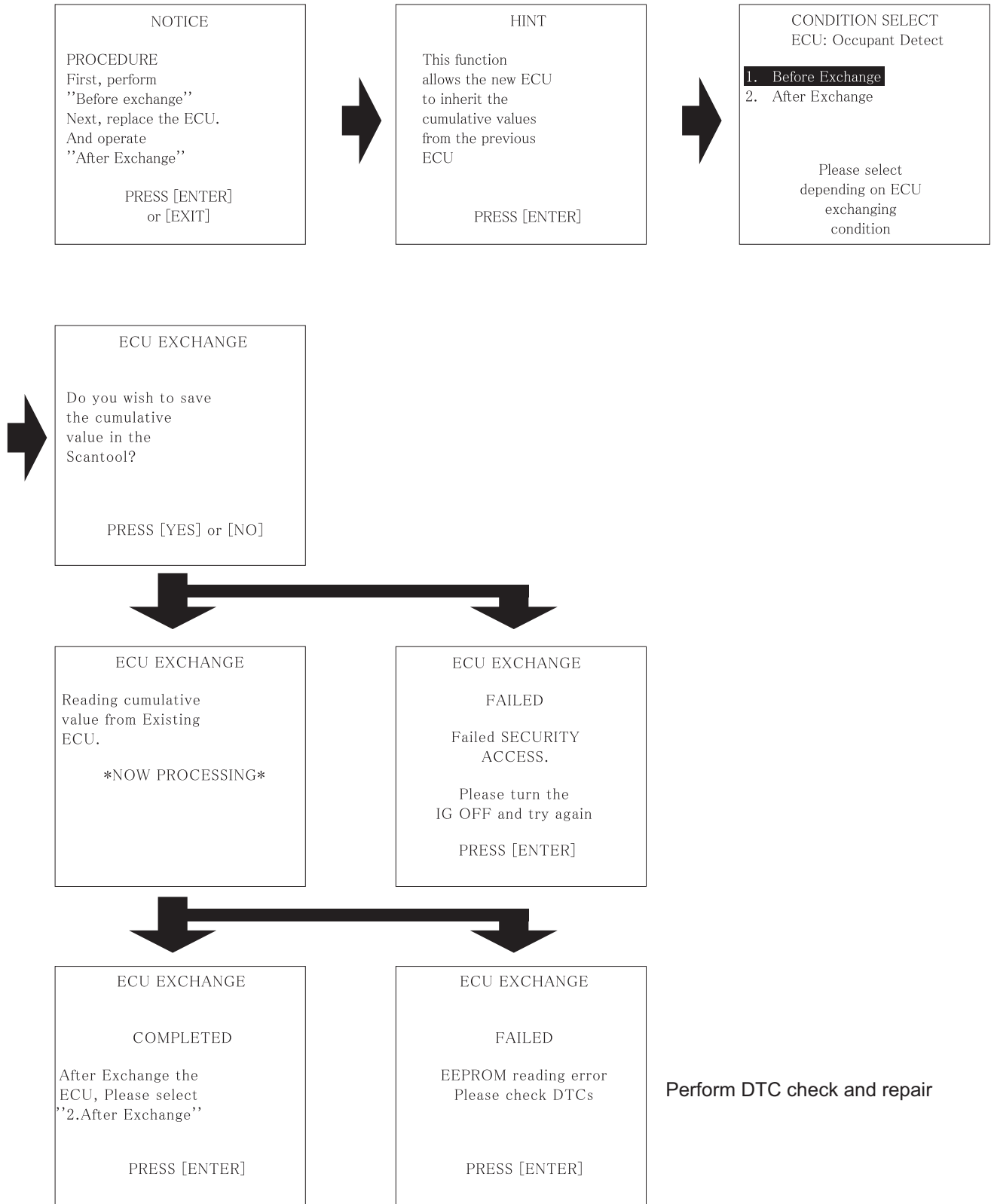
- (l) Clear the DTCs stored in the memory (See page [RS-487](#)).

HINT:

If DTC is not cleared at this time, past DTC will remain.

ECU EXCHANGE PROCEDURE (Before Exchange):

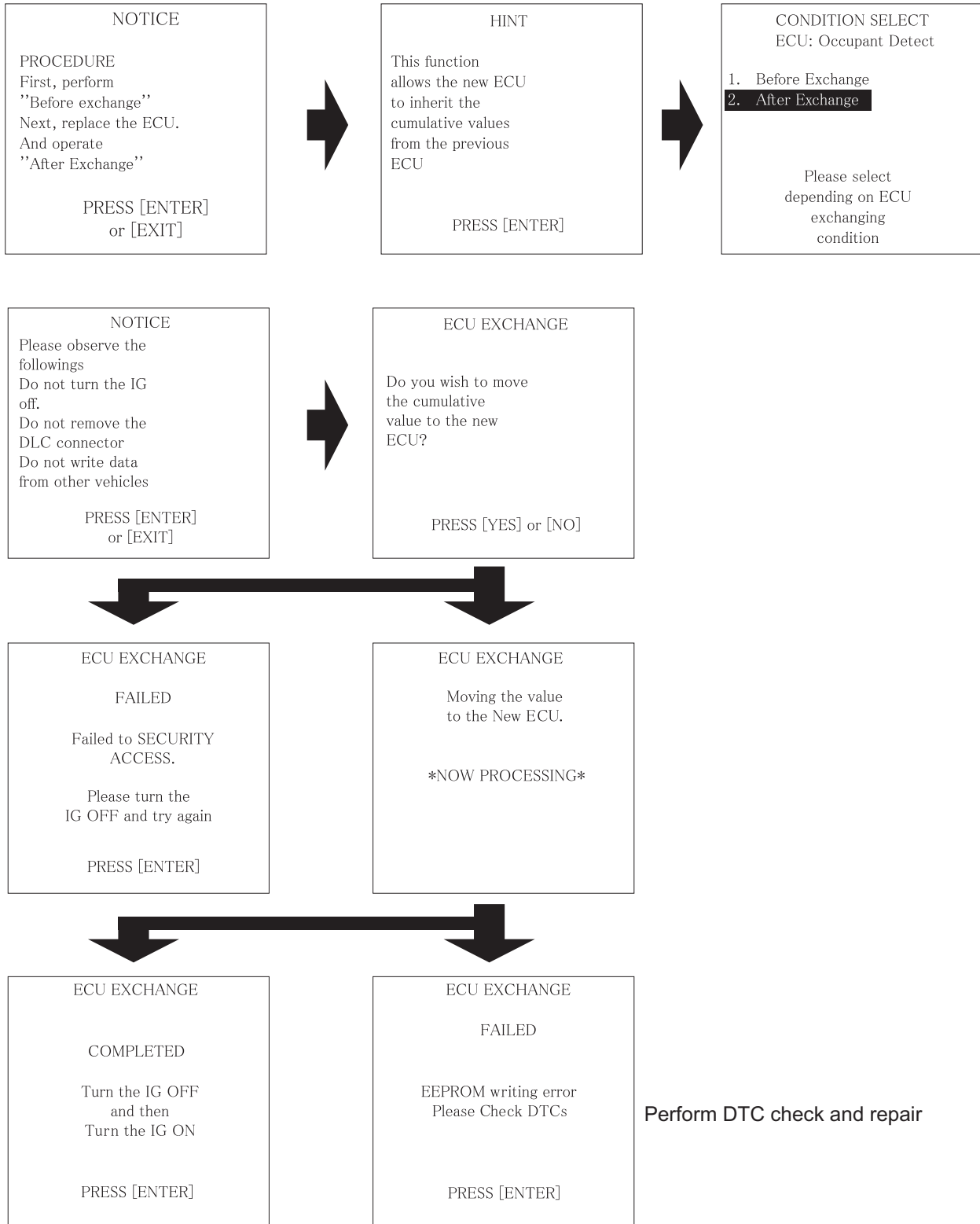
1: DIAGNOSIS - 1: OBD/MOBD - MODEL YEAR - MODEL SELECTION - 9: OCCUPANT DETECT
Refer to the following screen flow.



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ECU EXCHANGE PROCEDURE (After Exchange):

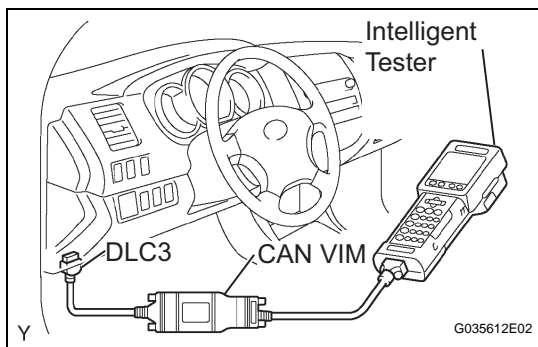
1: DIAGNOSIS - 1: OBD/MOBD - MODEL YEAR - MODEL SELECTION - 9: OCCUPANT DETECT
 Refer to the following screen flow.



Clear the DTCs

Perform DTC check and repair

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INITIALIZATION

NOTICE:

Make sure that the front passenger seat is not occupied before performing the operation.

HINT:

Perform the zero point calibration if any of the following conditions apply.

- The occupant classification ECU is replaced.
- Accessories (seatback tray and seat cover, etc.) are installed.
- The front passenger seat is removed from the vehicle.
- The passenger airbag ON/OFF indicator indicates OFF when the front passenger seat is not occupied.
- The vehicle is brought to the workshop for repair due to an accident or a collision.

1. ZERO POINT CALIBRATION

(a) Zero point calibration procedures

(1) Check that all of the following conditions are met:

- The vehicle is parked on a flat surface.
- No objects are placed on the front passenger seat.
- The front passenger seat belt buckle switch is OFF.

(2) Adjust the seat position according to the table below.

Adjustment Item	Position
Slide Direction	Rearmost position
Reclining Angle	Upright position
Headrest Height	Lowest position
Lifter Height	Lowest position

(3) Connect the intelligent tester to the DLC3.

(4) Turn the ignition switch to the ON position.

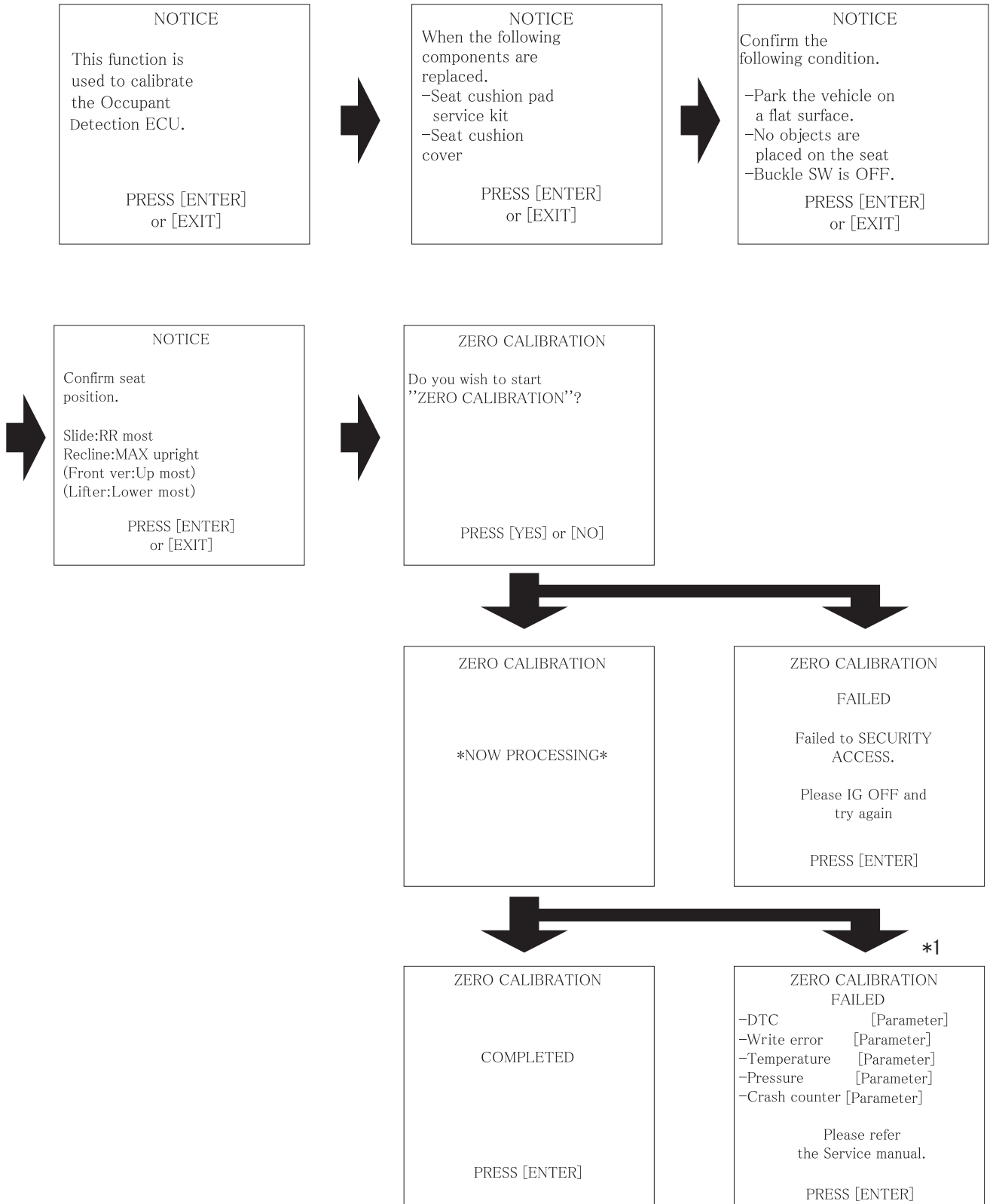
(5) Perform the zero point calibration by following the prompts on the tester screen.

HINT:

- Refer to the intelligent tester operator's manual for further details.
- If the zero point calibration is performed when the calibration conditions are not satisfied, DTC B1797 is output.
- If the zero point calibration has failed, DTC B1797 is output.

ZERO POINT CALIBRATION PROCEDURE:

1: DIAGNOSIS - 1: OBD/MOBD - MODEL YEAR - MODEL SELECTION - 9: OCCUPANT DETECT
 Refer to the following screen flow.



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HINT:

*1: If After Exchange is selected before the previous ECU data are stored in the intelligent tester, the display screen returns to CONDITION SELECT ECU: Occupant Detect.

Item	Procedure
DTC	Perform DTC check and repair
Write error	Replace front seat cushion assembly (with occupant classification ECU and occupant classification sensor)
Temperature	Check value of THERMISTOR TEMP in ECU DATA LIST
Pressure	Check value of FILTERED PRESS in ECU DATA LIST
Crash counter	-

2. SENSITIVITY CHECK

(a) Sensitivity check procedures

- (1) Turn the ignition switch to the LOCK position.
- (2) Turn the airbag cut-off switch to the AUTO position.
- (3) Place a weight of 20 kg (44.0 lb) on the front passenger seat.

NOTICE:

- Do not let the weight come into contact with the seat back when placing it on the seat cushion.
- Place the weight in the area shown in the illustration.

- (4) Turn the ignition switch to the ON position, and wait for at least 6 seconds.
- (5) Check that the passenger airbag ON/OFF indicator indicates OFF.

OK:

The passenger airbag ON/OFF indicator indicates OFF.

- (6) Add a weight of 30kg (66.1 lb) to the front passenger seat (total 50 kg (110.2 lb)).

NOTICE:

- Do not let the weight come into contact with the seat back when placing it on the seat cushion.
- Place the weight in the area shown in the illustration.

- (7) Check that the passenger airbag ON/OFF indicator indicates ON.

OK:

The passenger airbag ON/OFF indicator indicates ON.

