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WARNING: ON VEHICLES EQUIPPED WITH AN AIR BAG, REFER TO THE AIR BAG PORTION OF THIS SECTION FOR STEERING WHEEL OR SWITCH REMOVAL AND INSTALLATION PROCEDURES.

EXTERIOR LAMPS LEFT ON

An audible chime tone that indicates the exterior lamps were left on.

KEY LEFT IN IGNITION

An audible chime tone that indicates the key was left in ignition.

FASTEN SEAT BELTS

To test, the ignition switch must be in the off position before testing the fasten seat belts. Turn the ignition switch to the ON position with the driver's seat belt unbuckled and fully retracted. The seat belt warning lamp should light for 4 to 8 seconds and the tone should sound 4 to 8 seconds.

EXTERIOR LAMPS LEFT ON

To test the headlamps left on function, turn ignition off, turn exterior lamps on with driver's door open. Chime should sound until headlamps are turned off or drivers door is closed.

KEY LEFT IN IGNITION

To test the key left in ignition function:

- The ignition switch must be in the OFF position with key in ignition.
- Driver's door open.
- Chime should sound until key is removed from ignition or drivers door is closed.

BODY CONTROLLER REMOVAL

The body controller is located on the passenger side behind the knee bolster (Fig. 2).

- (1) Open the front passenger door and remove right instrument panel end cover.
- (2) Remove side cowl trim.
- (3) Remove body controller mounting screw from hole in the side of the knee bolster.
- (4) Remove the right side heat distribution duct from under the instrument panel.
- (5) Pull carpet back from plenum and side cowl area to expose the silencer pad.

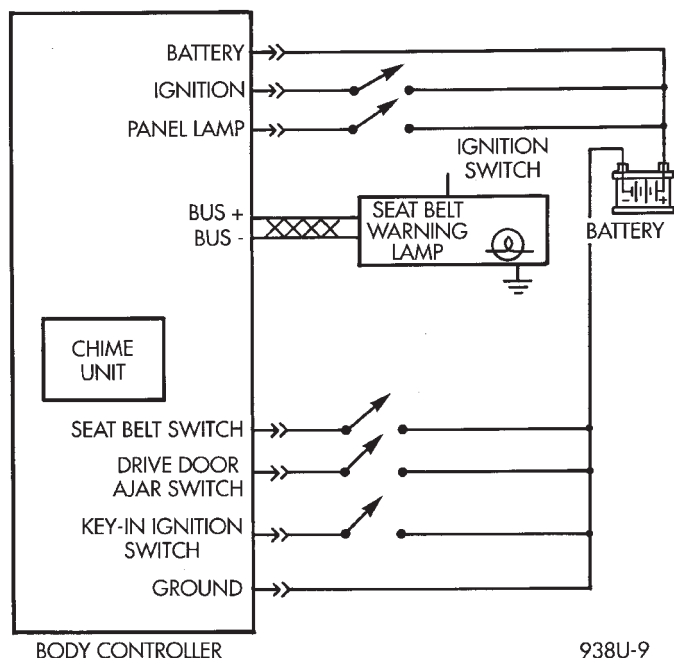


Fig. 1 Chime Warning/Reminder Wiring

When using the DRB II, refer to the Body Chassis Diagnostic Manual for the procedure.

FASTEN SEAT BELTS

A warning lamp on the instrument panel, and an audible chime tone are used as the fasten seat belt warning/reminder.

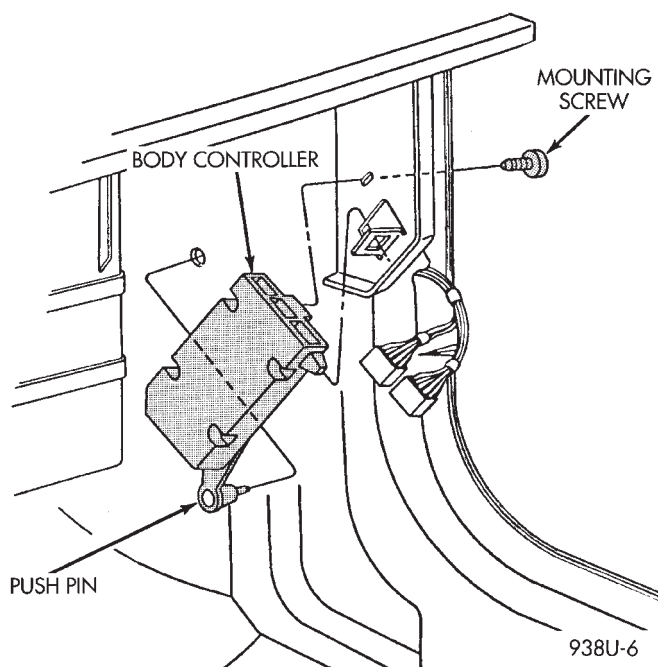


Fig. 2 Body Controller Location

(6) Tear the silencer pad at the gating and pull the section back. A knife may be used to cut the gating if required.

(7) Disconnect the body to instrument panel wiring connector at the HVAC unit. Pull wire bundle out of the way.

(8) Pull the body controller push pin out of the side cowl.

(9) Rotate the body controller out from behind the knee bolster.

To diagnose the body controller, connect the body to instrument panel wiring connector at the HVAC unit. Before installing the body controller, disconnect the body to instrument panel wiring connector at the HVAC unit.

INSTALLATION

(1) Ensure that the body controller push pin is in good condition. If not, replace push pin.

(2) Connect the body controller wiring connectors.

(3) Rotate the body controller up behind the knee bolster, guiding the wiring into the knee bolster area.

(4) Insert the body controller push pin into the side cowl.

(5) Rotate the body controller so that mounting hole aligns with the hole in the side of the knee bolster.

(6) Insert the mounting screw.

(7) Connect the body to instrument panel wiring connector at the HVAC unit.

(8) Place the silencer pad back into place.

(9) Place the carpet back into place.

(10) Replace the right side heat distribution duct under the instrument panel.

(11) Replace the side cowl trim panel.

(12) Replace the instrument panel end cover.

CHIME SYSTEM DIAGNOSIS

CONDITION

No tone when ignition switch is turned on and drivers seat belt is unbuckled and fully retracted.

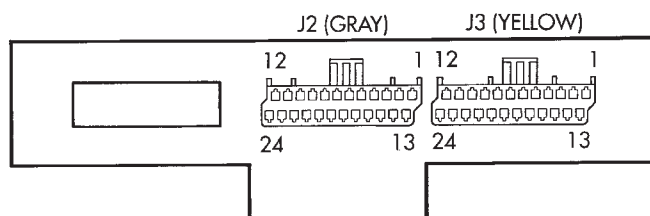
PROCEDURE

(1) Check driver's seat belt retractor switch for a ground when belt is retracted.

(2) Use DRB II to perform CCD diagnostics on body controller for battery and ignition and seat belt switch input.

(3) Use DRB II to perform actuator diagnostics on body controller chime.

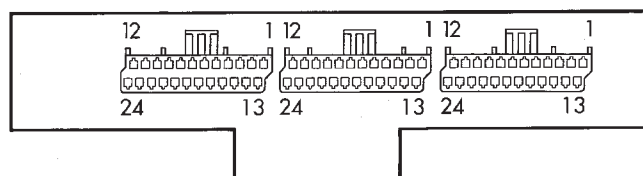
(4) Check for battery feed at terminal J3-19 and ignition feed at terminal J3-13 of body controller (Fig. 3 and 4).



938U-7

Fig. 3 Base Body Controller

J1 (BLACK) J2 (GRAY) J3 (YELLOW)



938U-8

Fig. 4 Premium Body Controller

(5) Check for tone in any other function.

CONDITION

No fasten seat belt lamp when ignition switch is turned on.

PROCEDURE

(1) Use DRB II to perform CCD diagnostics on body controller module for battery and ignition switch input



- (2) Check for burned out bulb.
- (3) Using the DRB II, do the actuator test on cluster. Refer to 1993 LH Body Diagnostic Manual.
- (3) Check for battery feed at terminal J3-19 of the module.
- (4) Check for ignition feed at terminal J3-13 of the module.

CONDITION

Fasten seat belt lamp or tone continue for more than 10 seconds after seat belts are fastened and ignition ON.

PROCEDURE

- (1) Use DRB II to perform CCD diagnostics on body controller for battery and ignition switch input.
- (2) Inspect body controller connectors and wires for proper connection.

CONDITION

No tone when headlamps are on, ignition switch is OFF and driver's door is open.

PROCEDURE

- (1) Check left door jamb switch for good ground when driver's door is open.
- (2) Use DRB II to perform CCD diagnostics on body controller for battery, ignition switch input, headlamp and driver's door input and Chime Output Test.
- (3) Inspect body controller connectors and wires for proper connection.
- (4) Check for battery feed at terminal J3-19 of body controller (Fig. 1).
- (5) Check headlamp switch.

CONDITION

No tone when key is left in ignition, ignition switch OFF and driver's door is open.

PROCEDURE

- (1) Check left door jamb switch for good ground when drivers door is open.
- (2) Use DRB II to perform CCD diagnostics on body controller for battery, ignition switch input, key-in-switch and driver's door input and Chime Output Test.
- (3) Inspect body controller connectors and wires for proper connection.
- (4) Check for battery feed at terminal J3-19 of body controller (Fig. 1).
- (5) Check key-in switch.

CONDITION

Chimes continue when headlamps are turned off and/or key is removed from ignition.

PROCEDURE

- (1) Use DRB II to perform CCD diagnostics on body controller for headlamp or key-in-ignition inputs.
- (2) Check wiring for a grounded condition between key-in switch and body controller. Check headlamp switch to body controller wiring for short to battery.
- (3) Inspect body controller connectors and wires for proper connection.

HEADLAMP SWITCH REPLACEMENT

Refer to Group 8E, Instrument Panel and Gauges.

SEAT BELT BUCKLE REPLACEMENT

Refer to Group 23, Body for service procedures.

KEY-IN SWITCH

The Key-in switch is built into the ignition switch assembly. Should the Key-in switch require service, the ignition switch assembly must be replaced. Refer to Group 8D, Ignition System for service procedures.

