

CHIME WARNING/REMINDER SYSTEM

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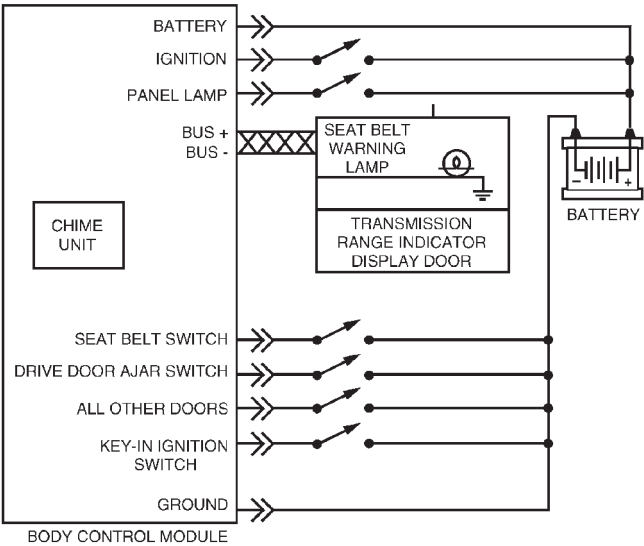
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DESCRIPTION AND OPERATION

DESCRIPTION

WARNING: ON VEHICLES EQUIPPED WITH AIRBAGS, DISCONNECT AND ISOLATE THE NEGATIVE BATTERY CABLE BEFORE BEGINNING ANY AIRBAG OR STEERING WHEEL COMPONENT REMOVAL OR INSTALLATION PROCEDURE. THIS WILL DISABLE THE AIRBAG SYSTEM.

FAILURE TO DISCONNECT BATTERY COULD RESULT IN ACCIDENTAL AIRBAG DEPLOYMENT AND POSSIBLE PERSONAL INJURY. ALLOW SYSTEM CAPACITOR TO DISCHARGE FOR 2 MINUTES BEFORE REMOVING ANY COMPONENTS.



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Fig. 1 Chime Warning / Reminder System

The chime warning/reminder system provides audible and/or visual signals to remind the driver of unfastened seat belts, exterior lamps left ON, key left in ignition, door ajar and if equipped, high vehicle speed.

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FASTEN SEAT BELTS

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

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.

DOOR AJAR

A warning lamp on the instrument panel, and if equipped an audible chime tone are used as the door ajar warning/reminder.

HIGH VEHICLE SPEED WARNING CHIME

If equipped, an audible chime will sound continuously any time the vehicle speed is 120 Km/h or faster.

FASTEN SEAT BELT WARNING CHIME/LAMP

On some vehicles the seat belt indicator lamp will remain on continuously anytime the ignition switch is on and the driver is not wearing the seat belt.

When using the (DRB III) scan tool, refer to the appropriate Body Chassis Diagnostic Manual for the diagnostic procedure.

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 if equipped a tone should sound 4 to 8 seconds.

HIGH SPEED WARNING CHIME

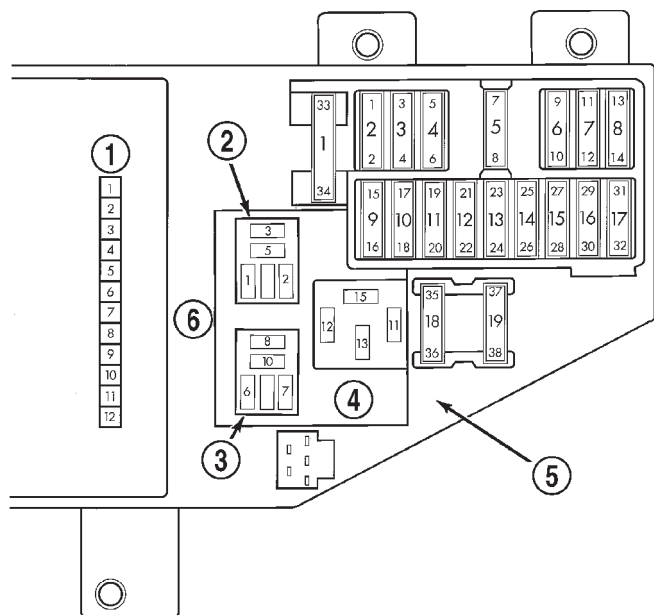
Some vehicles are equipped with an audible high speed warning chime that will sound continuously any time the vehicle speed reaches 120 Km/h or faster.

DIAGNOSIS AND TESTING

CHIME CONDITIONS

NO TONE WHEN IGNITION SWITCH IS TURNED ON AND DRIVERS SEAT BELT IS UNBUCKLED AND FULLY RETRACTED

- (1) Check driver's seat belt retractor switch for a ground when belt is retracted.
- (2) Use scan tool to perform CCD diagnostics on Body Control Module for battery, ignition and seat belt switch inputs.
- (3) Use scan tool to perform actuator diagnostics on Body Control Module Chime.
- (4) Check for tone in any other function.
- (5) Remove Body Control Module from Junction Block. Check for battery voltage at terminal JB-12 and ignition feed at terminal JB-6 of Body Control Module (Fig. 2). Refer to Group 8W, Wiring Diagrams for terminal location.
- (6) If voltage not OK, repair as necessary.



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Fig. 2 Junction Block Connector to the BCM

- 1 – BODY CONTROL MODULE
- 2 – H/LP RELAY
- 3 – HORN RELAY
- 4 – EBL
- 5 – CIRCUIT BREAKERS
- 6 – HORN

NO FASTEN SEAT BELT LAMP WHEN IGNITION SWITCH IS TURNED ON

- (1) Use scan tool to perform CCD diagnostics on Body Control Module for battery and ignition switch inputs.

- (2) Check for burned out bulb.

- (3) Using the scan tool, do the actuator test on cluster. Refer to proper Body Diagnostic Manual.

- (4) Remove Body Control Module from Junction Block. Check for battery voltage at terminal JB-12 and ignition feed at terminal JB-6 of Body Control Module. Refer to Group 8W, Wiring Diagrams for terminal location.

- (5) If voltage not OK, repair as necessary.

FASTEN SEAT BELT LAMP OR TONE CONTINUE FOR MORE THAN 10 SECONDS AFTER SEAT BELTS ARE FASTENED AND IGNITION ON

NOTE: On vehicles so equipped no audible chime tone will sound or the seat belt indicator lamp will remain on continuously anytime the ignition switch is on and the driver is not wearing the seat belt.

- (1) Use scan tool to perform CCD diagnostics on Body Control Module for battery and ignition switch input.

- (2) Inspect Body Control Module connectors and wires for proper connection.

NO TONE OR DOOR INDICATED IN PLACE OF ODOMETER WHEN A DOOR IS AJAR AND VEHICLE BEGINS MOVING

The vehicle must be moving for the chime to occur. However the door indicator will come ON regardless of the vehicle movement. The CCD bus, Transmission Control Module (TCM) and Powertrain Control Module (PCM) must be operational.

- (1) Check all door jamb switches.

- (2) Use scan tool to perform CCD diagnostics on Body Control Module for battery and ignition switch input

- (3) Inspect Body Control Module connectors and wires for proper connection.

- (4) Remove Body Control Module from Junction Block. Check for battery voltage at terminal JB-12 and ignition feed at terminal JB-6 of Body Control Module. Refer to Group 8W, Wiring Diagrams for the location of the terminals.

- (5) If voltage not OK, repair as necessary.

NO TONE WHEN HEADLAMPS ARE ON, IGNITION SWITCH IS OFF AND DRIVER'S DOOR IS OPEN.

- (1) Check left door jamb switch for good ground when driver's door is open.

- (2) Use scan tool to perform CCD diagnostics on Body Control Module for battery, ignition switch input, headlamp and driver's door input and Chime Output Test.

- (3) Check headlamp switch.

DIAGNOSIS AND TESTING (Continued)

(4) Inspect Body Control Module connectors and wires for proper connection.

(5) Remove Body Control Module from Junction Block. Check for battery voltage at terminal JB-12 and ignition feed at terminal JB-6 of Body Control Module. Refer to Group 8W, Wiring Diagrams for terminal location.

(6) If voltage not OK, repair as necessary.

NO TONE WHEN IGNITION KEY IS LEFT IN IGNITION SWITCH AND IT IS IN THE OFF POSITION WITH DRIVER'S DOOR IS OPEN

(1) Check left door jamb switch for good ground when drivers door is open.

(2) Use scan tool to perform CCD diagnostics on Body Control Module for battery, ignition switch input, key-in-switch and driver's door input and Chime Output Test.

(3) Check key-in switch.

(4) Inspect Body Control Module connectors and wires for proper connection.

(5) Remove Body Control Module from Junction Block. Check for battery voltage at terminal JB-12 and ignition feed at terminal JB-6 of Body Control Module. Refer to Group 8W, Wiring Diagrams for terminal location.

(6) If voltage not OK, repair as necessary.

CHIMES CONTINUE WHEN HEADLAMPS ARE TURNED OFF AND/OR KEY IS REMOVED FROM IGNITION

(1) Use scan tool to perform CCD diagnostics on Body Control Module for headlamp or key-in-ignition inputs.

(2) Check wiring for a grounded condition between key-in switch and Body Control Module. Check headlamp switch to Body Control Module wiring for short to battery.

(3) Inspect Body Control Module connectors and wires for proper connection.

