CHIME WARNING / REMINDER SYSTEM

CONTENTS

GENERAL INFORMATION

INTRODUCTION

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

The chime warning/reminder system includes signals for fasten seat belts, exterior lamps left ON, key left in ignition and door ajar (Fig. 1).

Use the DRB lll® scan tool and the proper Body Diagnostic Procedures Manual.

FASTEN SEAT BELTS

A warning lamp on the instrument panel, and 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.

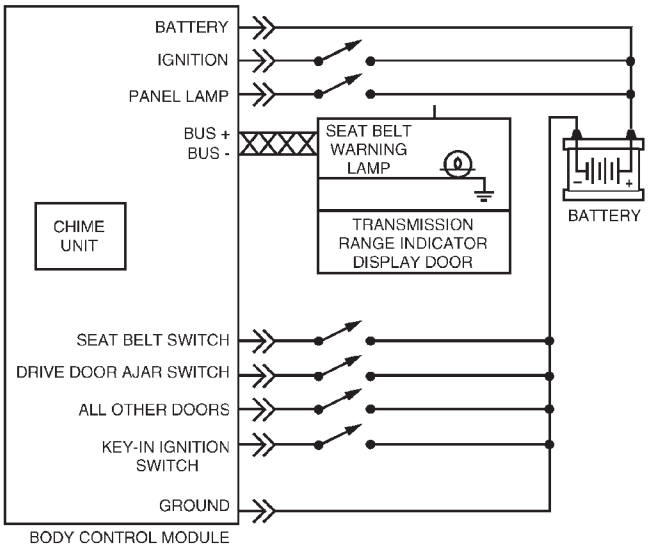

Fig. 1 Chime Warning / Reminder System Wiring

DESCRIPTION AND OPERATION

DOOR AJAR CHIME

An audible chime will sound when the vehicle begins to move and the transmission range indicator display will indicate DOOR.

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.

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.

KEY LEFT IN IGNITION SWITCH

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.

DIAGNOSIS AND TESTING

CHIME DIAGNOSTIC CONDITIONS

For Removal and Installation of Junction Block (JB), refer to Group 8O, Power Distribution Systems.

For Removal and Installation of Body Control Module (BCM), refer to Group 8E, Instrument Panel and Systems.

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.

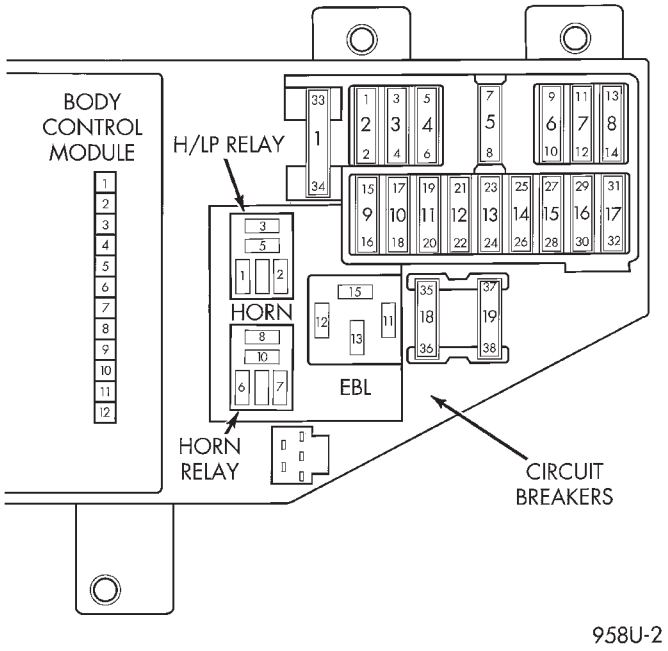

Fig. 2 Junction Block Connector to the BCM

NO FASTEN SEAT BELT LAMP WHEN IGNITION SWITCH IS TURNED ON

(1) Use DRB lll® 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 DRB lll® scan tool, do the actuator test on cluster. Refer to proper Body Diagnostic Procedures 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

(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.

DIAGNOSIS AND TESTING (Continued)

(1) Check all door jamb switches.
(2) Use DRB lll® 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 DRB lll® 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.
(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 DRB lll® 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 DRB lll® 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.

REMOVAL AND INSTALLATION

BODY CONTROL MODULE (BCM)

Refer to Group 8E, Instrument Panel and Systems for Removal and Installation.

HEADLAMP SWITCH

Refer to Group 8E, Instrument Panel and Systems.

JUNCTION BLOCK (JB)

Refer to Group 8O, Power Distribution Systems for Removal and Installation.

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.

SEAT BELT BUCKLE

Refer to Group 23, Body for service procedures.