

CHIME WARNING/REMINDER SYSTEM

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GENERAL INFORMATION

INTRODUCTION

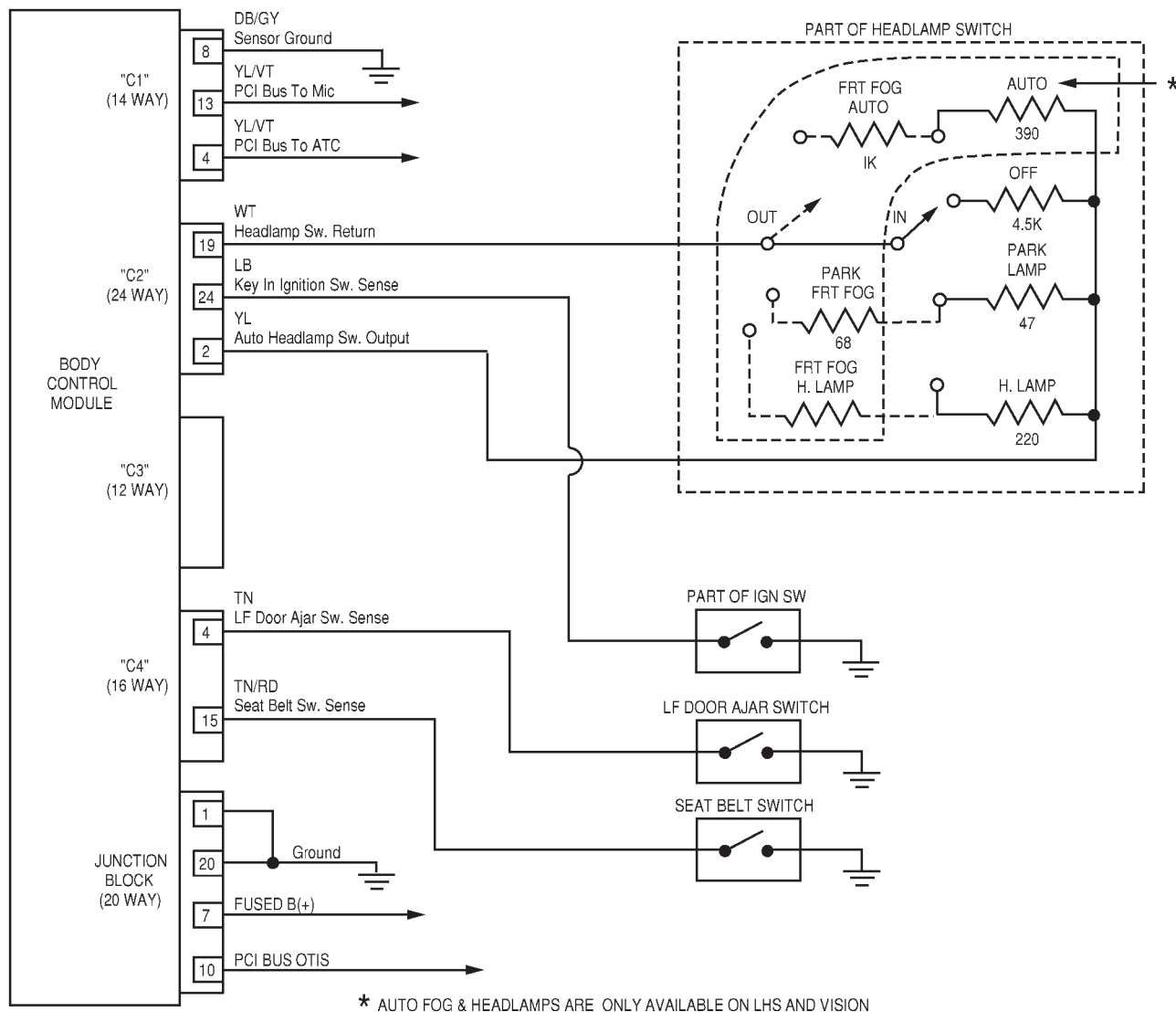
WARNING: ON VEHICLES EQUIPPED WITH AN AIRBAG, REFER TO THE AIRBAG PORTION OF THIS SECTION FOR STEERING WHEEL OR SWITCH REMOVAL AND INSTALLATION PROCEDURES.

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

When using the scan tool (DRB), refer to the proper Body Diagnostic Procedures Manual. Refer to Group 8W, Wiring Diagrams for circuit information.



GENERAL INFORMATION (Continued)



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Fig. 1 Chime System Schematic**DESCRIPTION AND OPERATION****EXTERIOR LAMPS LEFT ON**

An audible chime tone indicates the exterior lamps left on.

FASTEN SEAT BELTS

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

KEY LEFT IN IGNITION

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

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 unbuckled.
- (2) Use a scan tool (DRB) to perform PCI bus diagnostics on the Body Control Module (BCM) for battery, ignition and seat belt switch input.
- (3) Use a scan tool to perform actuator diagnostics on BCM chime.
- (4) Check for battery feed at terminal J1-7 and ignition feed at terminal J1-5 of the BCM connector.
- (5) Check for tone in any other function.

DIAGNOSIS AND TESTING (Continued)

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

- (1) Use scan tool to perform PCI bus diagnostics on BCM for battery and ignition switch input
- (2) Check for burned out bulb.
- (3) Using the scan tool, do the actuator test on cluster. Refer to proper Body Diagnostic Procedures Manual.
- (4) Check for battery feed at terminal J1-7 of the BCM connector.
- (5) Check for ignition feed at terminal J1-5 of the BCM connector.

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 PCI bus diagnostics on BCM for battery and ignition switch input.
- (2) Inspect the BCM connectors and wires for proper connection.

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

- (1) Using a scan tool (DRB), check drivers door ajar switch for good ground when driver's door is open.
- (2) Use scan tool to perform PCI bus diagnostics on BCM for battery, ignition switch input, headlamp switch and driver's door input and Chime Output Test.
- (3) Inspect BCM connectors and wires for proper connection.
- (4) Check for battery feed at terminal J1-7 of BCM connector.
- (5) Check headlamp switch.

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

- (1) Using a scan tool (DRB), check drivers door ajar switch for good ground when driver's door is open.
- (2) Use scan tool to perform PCI bus diagnostics on BCM for battery, ignition switch input, key-in-switch and driver's door input and Chime Output Test.
- (3) Inspect BCM connectors and wires for proper connection.
- (4) Check for battery feed at terminal J1-7 of BCM connector.
- (5) Check key-in switch.

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

- (1) Use scan tool to perform PCI bus diagnostics on BCM for headlamp or key-in-ignition inputs.

- (2) Check wiring for a grounded condition between key-in switch and BCM.

- (3) Inspect the BCM connectors and wires for proper connection.

EXTERIOR LAMPS LEFT ON

To test the headlamps left on function, remove the ignition key, 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 fasten seat belt function, start with the ignition switch in the OFF position. Turn the ignition switch to the ON position with the driver's seat belt unbuckled. 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

To test the key left in ignition function, the ignition switch must be in the OFF position with key in the ignition switch. The driver's door must be open. The chime should sound until key is removed from ignition switch or drivers door is closed.

REMOVAL AND INSTALLATION

BODY CONTROL MODULE REMOVAL

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

HEADLAMP SWITCH

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

SEAT BELT BUCKLE

Refer to Group 23, Body for Seat Belt Buckle Removal and Installation 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.

