

CHIME/BUZZER WARNING SYSTEMS

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GENERAL INFORMATION

INTRODUCTION

This group covers the chime warning system, which is standard factory-installed equipment on this model. The system provides an audible warning to the driver when it monitors the following conditions:

- Check engine warning
- Check gauges warning
- Door ajar above critical speed (about 10 miles-per-hour for the driver's door, or about 3 miles-per-hour for any other door)
 - Head or park lamps are on with the ignition switch Off and the driver's door open
 - High speed warning - export only
 - Hood ajar
 - Key in the ignition switch with the ignition switch Off and the driver's door open
 - Low fuel warning - less than about one-eighth tank of fuel remaining
 - Rear lamp failure
 - Seat belt (driver's) is not buckled with the ignition switch in the On position
 - Transmission fluid temperature too high
 - Turn signal on for about one mile with no decrease in speed or throttle position
 - Washer fluid low.

Following are general descriptions of the major components in the chime warning system. Refer to 8W-44 - Interior Lighting or 8W-45 - Body Control Module in Group 8W - Wiring Diagrams for complete circuit descriptions and diagrams.

DESCRIPTION AND OPERATION

BODY CONTROL MODULE

A Body Control Module (BCM) is used on this model to control and integrate many of the vehicle's electrical functions and features. The BCM contains a central processing unit and interfaces with other modules in the vehicle on the Chrysler Collision Detection (CCD) data bus network.

BODY CONTROL MODULE 1

The CCD data bus network allows the sharing of sensor information. This helps to reduce wiring harness complexity, reduce internal controller hardware, and reduce component sensor current loads. At the same time, this system provides increased reliability, enhanced diagnostics, and allows the addition of many new feature capabilities.

Some of the functions and features that the BCM supports and/or controls, include:

- Chimes
- Automatic headlamp control
- Headlamp delay
- Headlamps on with ignition off and driver's door open warning
- Key in ignition with ignition off and driver's door open warning
- Automatic funeral mode
- Panel lamp dimming
- Vehicle theft security system
- Remote keyless entry panic mode
- Illuminated entry
- Heated rear window and heated outside mirror control
- Intermittent wipe control
- Monitoring and transmitting door, hood, liftgate, liftglass ajar data
- Monitoring and transmitting outside ambient temperature data
- Monitoring and transmitting air conditioning select switch data
- Courtesy lamp time-out
- Gulf coast country overspeed warning
- Door lock inhibit
- Electronic odometer/trip odometer
- Brake warning lamp
- High beam indicator lamp
- Seatbelt reminder lamp and chime
- Speed sensitive intermittent wipe
- Fog lamp control
- Remote radio control
- Electro-mechanical instrument cluster
- BCM diagnostic support
- VIC support

DESCRIPTION AND OPERATION (Continued)

- Rolling door locks
- Horn chirp upon door lock with remote keyless entry (programmable)
- Low fuel warning chime (programmable)
- Headlights on with wipers (programmable - with automatic headlamps only)

The BCM provides chime service to the instrument cluster and the vehicle information center, in addition to its own chime functions.

The BCM is mounted under the left end of the instrument panel, behind the instrument panel support armature and below the left switch pod. For diagnosis of the BCM or the CCD data bus, refer to the proper Body Diagnostic Procedures Manual. The BCM can only be serviced by an authorized repair station. Refer to the Warranty Policies and Procedures Manual for a listing of authorized repair stations.

BODY CONTROL MODULE INPUTS

In addition to CCD data bus chime requests and inputs, the BCM receives inputs from many hard-wired switches to perform its many functions and provide so many features. Some of the hard-wired inputs used by the BCM for its chime functions include:

- Door, hood, liftgate, and liftglass ajar switches
- Driver's seat belt switch
- Headlamp switch
- Ignition switch
- Ignition key cylinder switch.

The BCM is mounted under the left end of the instrument panel, behind the instrument panel support armature and below the left switch pod. Refer to Group 8E - Instrument Panel Systems for removal and installation procedures. For diagnosis of the chime warning system, use of a DRB scan tool and the proper Body Diagnostic Procedures Manual are recommended.

Testing and service procedures for the various switches used in the chime warning system can be found in other groups of this service manual as follows:

- Door, hood, liftgate, and liftglass ajar switches - refer to Group 8Q - Vehicle Theft/Security Systems
- Ignition switch and ignition key-in switch - refer to Group 8D - Ignition Systems
- Headlamp switch - refer to Group 8E - Instrument Panel Systems
- Driver's seat belt switch - refer to Group 23 - Body Components.