

CHIME/BUZZER

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CHIME/BUZZER

DESCRIPTION

The chime module is located within the instrument cluster and is not serviceable. The chime system provides the driver with warning chimes for:

- Air Bag
- Seat Belt
- Low Fuel
- Door Ajar
- Low Wash
- Park Brake
- Over Speed
- Turn Signal On
- Key-In Ignition
- Exterior Lamps ON
- Warning Lamp Announcement
- Transmission Over Temperature

OPERATION

FASTEN SEAT BELT

The seat belt reminder system uses both visual and audible signals. The Instrument Cluster monitors the driver seat belt buckle switch. When the ignition switch transitions from OFF to RUN and the driver seat belt has not been buckled, the Instrument Cluster will illuminate the seat belt indicator lamp and sound the chime. The system will always illuminate the seat belt reminder lamp for four to eight seconds when the ignition switch is turned to the ON position. The CHIME will sound during the same time interval if the driver's seat belt is not fastened. The warning lamp will remain illuminated as long as the seat belt remains unbuckled, and the ignition switch is in the RUN position. Passenger seat belts are not connected to the system.

HEADLAMPS REMINDER

The Instrument Cluster monitors the multiplex headlamp switch. The headlamp audible warning will alert the driver that the exterior lamps have been left on. If the ignition switch is left off, the driver's door open, and the headlamp switch is in the park

lamp or headlamp position, the chime will sound until the headlamp switch is turned off, the door is closed or the battery protection time out expires.

KEY IN IGNITION REMINDER

The Instrument Cluster monitors the ignition switch. The chime will activate if the drivers door is opened and the key is in the ignition switch, with the ignition switch in either the OFF, LOCK, or the accessory (ACC) position. The chime will continue until the key is removed from the ignition switch or the door is closed.

DOOR AJAR CHIME

The Instrument Cluster monitors the door ajar switches. A chime will sound once when the door is opened, the ignition is in RUN position and vehicle speed is present.

TURN SIGNAL ON

The Instrument Cluster monitors the multiplex multifunction switch. The instrument cluster shall remind the driver that either turn signal has been left on by a continuous chime after the turn signal indicator is left ON for 1.0 miles and the vehicle speed is 15 mph or greater.

LOW FUEL REMINDER

When the fuel level drops to approximately 1/8 tank, the fuel symbol will light and a single chime will sound. The light will remain on until fuel is added.

OVER SPEED

During any ignition ON, the Instrument Cluster maintains the most recently received speed. If the vehicle speed exceeds a preprogramed limit set in the instrument cluster it will activate a single chime.

WARNING LAMP ANNOUNCEMENT

The Instrument Cluster monitors critical engine and transmission system parameters. If any of the systems are out of their operating parameters, the instrument cluster will illuminate a lamp and activate and audible chime.

CHIME/BUZZER (Continued)

LOW WASH INDICATOR

The Front Control Module (FCM) monitors the washer reservoir. When the fluid is low the FCM transmits a J1850 message over the bus. The instrument cluster will chime and illuminate the LOW WASH indicator. The indicator will remain on until the fluid level is corrected.

AIR BAG

The Instrument Cluster monitors air bag system via the J1850 bus communications from the air bag module. The air bag module will transmit a message once per second, over the J1850 bus, as to whether the warning indicator should be on or off. The warning indicator indicates a part of the air bag system is inoperative and needs to be serviced. It **does not** indicate that the air bag system will not deploy. If the instrument cluster does not receive a message from the air bag module for 3 consecutive seconds, the Instrument will illuminate the warning indicator.

The air bag module transmits a J1850 message requesting the instrument cluster to perform a bulb check each time the ignition is turned to the on position

DIAGNOSIS AND TESTING - CHIME CONDITIONS

NOTE: The Chime/Buzzer Warning System is Diagnosed using a DRBIII® Scan Tool. Refer to the proper Body Diagnostic Procedures Manual.

Visually inspect the related wiring harness connectors. Look for broken, bent, pushed out, or corroded terminals. If any of the conditions are present, repair as necessary. If not use the DRBIII® scan tool and the proper Body Diagnostic Procedure manual. For complete circuit diagrams, refer to **Instrument Cluster** in Wiring Systems.