

CHIME WARNING/REMINDER SYSTEM

TABLE OF CONTENTS

	page		page
DESCRIPTION AND OPERATION		CHIME SYSTEM CONDITIONS	1
INTRODUCTION	1	REMOVAL AND INSTALLATION	
DIAGNOSIS AND TESTING		CHIME	2
FASTEN SEAT BELTS	1	SEAT BELT BUCKLE	2
HEADLAMPS LEFT ON	1	HEADLAMP SWITCH	2
KEY LEFT IN IGNITION SWITCH	1	KEY-IN SWITCH	2

DESCRIPTION AND OPERATION

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 seat belt reminder system uses both visual and audible signals. A combined seat belt and key reminder chime with a red light on the instrument panel.

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. Passenger belts are not connected to the system.

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 or accessory (ACC) position.
- The head lamps are ON.

The chime is integral to the instrument cluster.

DIAGNOSIS AND TESTING

FASTEN SEAT BELTS

To test the fasten seat belts function, 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 four to eight seconds and the tone should sound three to five times.

If the lamp does not light, check the connection at the seat belt retractor and the LED in the instrument cluster. Replace as necessary.

HEADLAMPS LEFT ON

These are the conditions that have to be met for the headlamps on, chime function to work:

- Headlamps ON.
- Driver's door open.
- Key removed from the ignition switch.

Chime should sound until headlamps are turned off or driver's door is closed.

If these conditions are met and there is still a problem with the system, replace the instrument cluster. Refer to Group 8E-Instrument Panel and Systems, Instrument Cluster Removal and Installation.

KEY LEFT IN IGNITION SWITCH

To test the key left in ignition function, insert key into the ignition and open the driver's door. Chime should sound until key is removed from ignition or driver's door is closed.

If these conditions are met and there is still a problem with the system, replace the instrument cluster. Refer to Group 8E-Instrument Panel and Systems, Instrument Cluster Removal and Installation.

CHIME SYSTEM CONDITIONS

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

(1) Using an ohmmeter, with the seat belt fully retracted, check for continuity to ground at Pin 25 of the cluster harness connector. If OK, go to step 2. If not OK, repair as necessary.

(2) Using voltmeter, check for battery feed at Pin 21 of the cluster harness connector. Check for ignition feed at Pin 15 of the cluster harness connector. If not OK, repair as necessary.

DIAGNOSIS AND TESTING (Continued)

NO FASTEN SEAT BELT LAMP WHEN IGNITION SWITCH IS ON

- (1) Check for battery feed at cluster harness connector Pin 21.
- (2) Check for ignition feed at cluster harness connector Pin 15. Repair as necessary.

NO TONE WHEN HEADLAMPS ARE ON AND DRIVERS DOOR IS OPEN

- (1) Check left door jamb switch for good ground when drivers door is open.
- (2) Check for ground at Pin 10.
- (3) Check for battery feed at cluster harness connector Pin 21.
- (4) Check for NO voltage at Pin 14. Ignition voltage must not be present for the chime to work.
- (5) Check headlamp switch.

NO TONE WHEN KEY IS LEFT IN IGNITION AND DRIVERS DOOR IS OPEN

- (1) Check for continuity to ground at Pin 23 of the cluster harness connector. If OK, go to Step 3. If not OK, repair as necessary.
- (2) Using voltmeter, check for battery feed at Pin 21 of the cluster harness connector. Check for NO ignition feed at Pin 15 of the cluster harness connector. If OK, go to Step 3. If not OK, repair as necessary.
- (3) Open driver's door and ensure the ignition key is in the OFF or ACC position. Check for continuity to ground at Pin 10 of the cluster harness connector. If ground OK, replace cluster printed circuit board. If no ground, check key-in switch or door switch wiring and repair as necessary.

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

Check for ground at Pin 10. If grounded the chime should activate. Make sure the door is closed, key is

in ignition and parking lamps are OFF. If ground is still present check door switch, key in switch, headlamp switch and repair as necessary.

REMOVAL AND INSTALLATION**CHIME**

The functions previously performed by the chime module are now part of the smart cluster. There is no serviceable part of the instrument cluster chime function. Replacement of the instrument cluster is necessary. Refer to Group 8E-Instrument Panel and Systems, Instrument Cluster Removal and Installation.

SEAT BELT BUCKLE

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

HEADLAMP SWITCH

Refer to Group 8J-Turn Signal and Hazard Warning Systems, Multi-Function Switch 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, Ignition Switch Removal and Installation.