

# VEHICLE THEFT ALARM

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## DESCRIPTION AND OPERATION

### INTRODUCTION

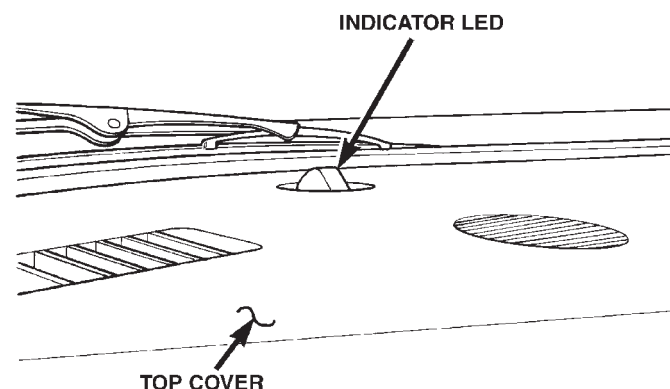
The Vehicle Theft Security System (VTSS) is designed to protect against whole vehicle theft. The system monitors vehicle doors, trunk key cylinder, and ignition action for unauthorized operation. The alarm activates:

- Sounding of the horn
- Flashing of the park and tail lamps
- Flashing of the headlamps
- An engine kill feature

The electronics for the VTSS are part of the Body Control Module (BCM). The system is armed when the vehicle is locked using the:

- Power door lock switches
- Remote Keyless Entry transmitter.

After the vehicle is locked and the last door is closed, the set LED indicator in the top cover will flash quickly for 16 seconds, indicating that arming is in progress (Fig. 1). If no monitored systems are activated during this period, the system will arm. After 16 seconds the indicator LED will continue to flash at a slower rate.



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**Fig. 1 VTSS Indicator LED**

This indicates that the system is armed. If the trunk key cylinder switch is not sensed by the system, the indicator LED will remain lit during the arming process, although the system will still arm. If the indicator LED does not illuminate at all upon door closing it indicates that the system is not arming.

Passive disarming occurs upon normal vehicle entry by unlocking either door with the ignition key/remote transmitter. This disarming will also halt the alarm once it has been activated.

A tamper alert exists to notify the driver that the alarm had been activated. This alert consists of 3 horn pulses when the vehicle is disarmed.

The alarm system will not arm if the doors are locked manually with the ignition key or manually pushing down the door lock mechanism. This will manually override the system.

### WHAT WILL TRIGGER THE SYSTEM

Using the power door switch or the keyless transmitter will arm the system. Any of the following actions will trigger the system:

- (1) Opening any door.
- (2) Removing the trunk lock cylinder.
- (3) Turning the ignition to the ON position.

**NOTE:** The ignition switch can be turned to the accessory position without triggering alarm system.

## DIAGNOSIS AND TESTING

### SYSTEM SELF-TESTS

A diagnostics test mode is available in the system to verify operation of all monitored switches or circuits. To enter diagnostics, use the scan tool (DRB) and Vehicle Theft Security System Diagnostic Procedure Manual.

At this time the horn will pulse twice to indicate that the trunk key cylinder is in its proper position. Placing the key in the ignition will allow the warning lamp, headlamps and park/tail lamps to be checked

## DIAGNOSIS AND TESTING (Continued)

for proper flashing operation. Remove the ignition key from the ignition switch in order to check for door lock cylinder switch operation. At the completion of each of the following operations, a horn pulse will occur to indicate proper operation. Each action must be separated by a minimum of one second or horn pulse will not occur.

- Activate the power door locks in both the lock and unlock positions.
- Open then close each door one at a time.
- Rotate the key in each of the door lock cylinder to the unlock position.
- Cycle the ignition switch key to the ON position as the last step. A single horn pulse will indicate proper operation of the ignition switch. This will also take the system out of the stand alone diagnostic mode.

The self diagnostic mode may also be exited by using the scan tool.

Activating the Remote Keyless Entry System (RKE) to exercise any of the above inputs will also cause the horn to pulse. When the RKE lock button is pressed, the RKE module itself will also pulse the horn. This is part of the RKE normal operation.

## REMOVAL AND INSTALLATION

## BODY CONTROL MODULE REMOVAL

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

## DOOR LOCK DISARMING SWITCH

## REMOVAL

- (1) Refer to Group 23, Body for door trim and water shield removal.
- (2) Disconnect wiring clip and pigtail wire connector (Fig. 2).
- (3) Remove door lock disarming switch from door lock cylinder.

## INSTALLATION

For installation reverse the above procedures.

## TRUNK LOCK SWITCH

## REMOVAL

- (1) Refer to Group 23, Body for trunk lock cylinder removal.
- (2) Remove trunk lock switch from cylinder or bracket and disconnect connector (Fig. 3) and (Fig. 4).

## INSTALLATION

For installation reverse the above procedures.

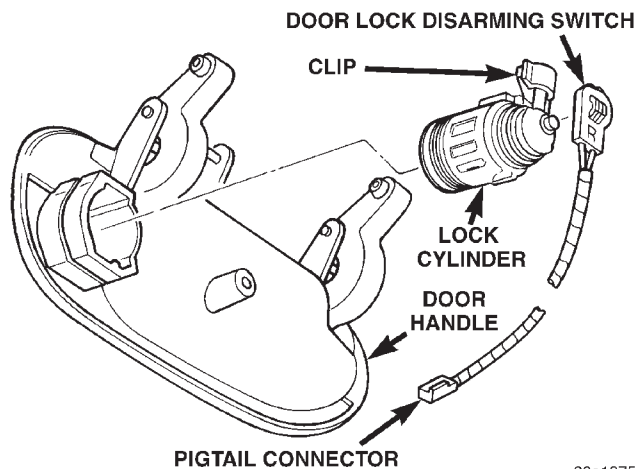


Fig. 2 Door Lock Disarming Switch

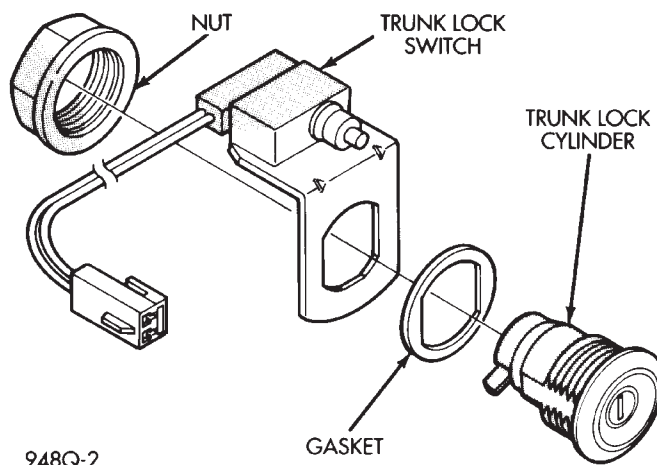


Fig. 3 Trunk Lock Switch

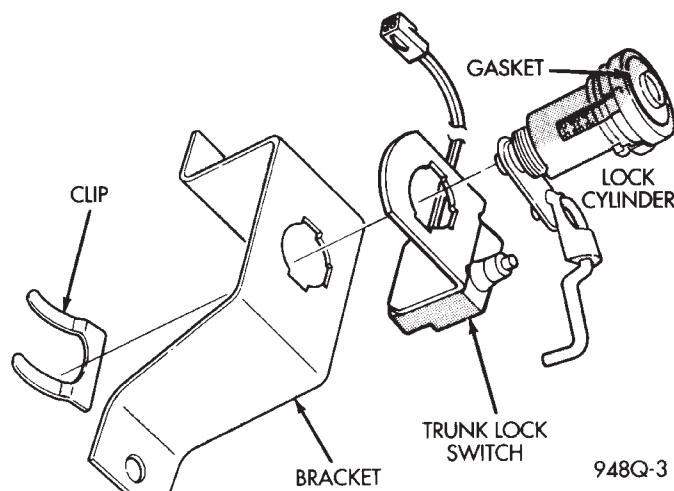


Fig. 4 Trunk Lock Switch-New Yorker/LHS