

VEHICLE THEFT/SECURITY SYSTEM

CONTENTS

	page		page
DESCRIPTION AND OPERATION		HORN RELAY	2
CENTRAL LOCK/UNLOCK SYSTEM	1	SYSTEM SELF-TESTS	2
INTRODUCTION	1	REMOVAL AND INSTALLATION	
TRIGGERING THE VTSS	1	JUNCTION BLOCK/BODY CONTROL MODULE .	2
DIAGNOSIS AND TESTING		VTSS DOOR LOCK SWITCH	2
HEADLAMP RELAY	2	VTSS TRUNK LOCK SWITCH	2

DESCRIPTION AND OPERATION

INTRODUCTION

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

The VTSS also deactivates the Universal Transmitter (garage door opener) and trunk lid release button when the vehicle is armed. The trunk lid can only be opened using the key or RKE transmitter when the VTSS is armed. When the vehicle is disarmed, the systems are restored to normal operation.

The VTSS alarm activates:

- Sounding of the horn
- Flashing of the interior lamps
- Flashing of the headlamps
- An engine kill feature

Passive arming occurs upon normal vehicle exit: Open door, lock with power locks, close door. The Vehicle Theft security LED lamp in the instrument cluster will flash quickly for 15 seconds, indicating that arming is in progress. If no monitored switches are activated during this period, the system will arm. After 15 seconds the LED lamp will continue to flash but at a slower rate. This indicates that the system is armed. If the trunk key cylinder switch is not sensed by the system, the LED lamp will remain lit during the arming process, although the system will still arm.

The system is to be considered as an active armed system when using:

- The Remote Keyless Entry
- The Central Lock Feature.

If the LED lamp does not illuminate at all upon door closing it indicates that the system is not arming or the LED lamp is not operation. Refer to the System Self-Tests

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. If the alarm has since timed-out for at least 3 minutes but not more than 18 minutes the tamper alert will sound. If the trunk lid has been activated the tamper alert will sound till the VTSS is disarmed. The temper alert consists of 3 horn pulses when the vehicle is disarmed.

The alarm system will not arm if the doors are locked manually by pushing the lock knobs. This will manually override the system.

CENTRAL LOCK/UNLOCK SYSTEM

The central lock/unlock system uses the Vehicle Theft Security System door switch to lock and unlock all doors using the key. Turning the key to the lock position in the driver's or passenger's door will lock all doors. Turning the key in the driver's door to the unlock position once will unlock driver's door only. Turning the key a second time within five seconds of the first time will unlock all doors. Turning the key in the passenger's door to the unlock position will unlock all doors.

Using the door key cylinder or the RKE transmitter lock/unlock operation will arm/disarm the Vehicle Theft Security System.

TRIGGERING THE VTSS

Using the power door switch, ignition key 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.

DESCRIPTION AND OPERATION (Continued)

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

DIAGNOSIS AND TESTING

HEADLAMP RELAY

For test of headlamp relay use a known good relay. Refer to Group 8W, Wiring Diagrams for circuits.

HORN RELAY

Refer to Group 8G, Horns for test procedures.

SYSTEM SELF-TESTS

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

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 interior lamps to be checked for proper flashing operation. If any door is open the interior lamps will not flash. 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 ignition key in each of the door lock cylinders to the lock and unlock positions.
- 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

JUNCTION BLOCK/BODY CONTROL MODULE

Refer to Group 8E, Instrument Panel and Systems.

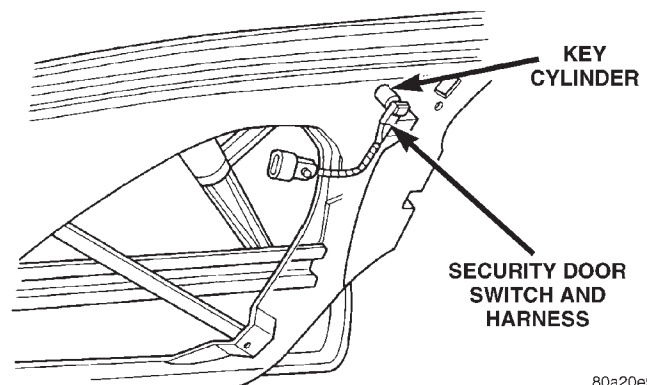
VTSS DOOR LOCK SWITCH

REMOVAL

- (1) Refer to Group 23, Body for door trim and water shield removal.
- (2) Remove illuminated entry switch wiring clip and disconnect connector (Fig. 1).
- (3) Remove disarming switch from door handle.

INSTALLATION

For installation reverse above procedures.



80a20e9f

Fig. 1 VTSS Door Lock Switch Location

VTSS TRUNK LOCK SWITCH

The VTSS trunk lock switch is part of the trunk latch. For replacement, the trunk latch will need to be replaced. Refer to Group 23, Body for trunk lock removal.