2008 STS

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Diagnostic Instructions

- Perform the Diagnostic System Check - Vehicle prior to using this diagnostic procedure.
- Review Strategy Based Diagnosis for an overview of the diagnostic approach.
- Diagnostic Procedure Instructions provides an overview of each diagnostic category.

Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
Shift Lock Control Solenoid B+	1	1	—	—
Shift Lock Control Solenoid Control	1	1	2	—
1. Shift lever will not move from PARK with brake pedal applied 2. Shift lever will move from PARK with brake pedal unapplied				

Circuit/System Description

The remote control door lock receiver (RCDLR) controls the automatic transmission shift lock solenoid by providing a ground for the solenoid. The RCDLR utilizes a smart driver to control the ground to the automatic transmission shift lock solenoid. The smart driver monitors the voltage and current flow of the control circuit.

Reference Information

Schematic Reference

Shift Lock Control Schematics

Connector End View Reference

Component Connector End Views

Description and Operation

Automatic Transmission Shift Lock Control Description and Operation

Electrical Information Reference

- Circuit Testing
- Connector Repairs
- Testing for Intermittent Conditions and Poor Connections
- Wiring Repairs

Scan Tool Reference

Control Module References for scan tool information

Circuit/System Verification

1. Ignition ON, Clear the DTC. Observe the scan tool RCDLR Shift Lock Solenoid Command parameter. The parameter should change from UNLOCK to LOCK when the brake pedal is depressed and released.

- If the parameter did not change, refer to Stop Lamps Malfunction.

- Observe the scan tool RCDLR Shift Lock Solenoid State parameter. The parameter should change from UNLOCK to LOCK OFF when the brake pedal is depressed and released.

Circuit/System Testing

1. Ignition OFF, disconnect the harness connector at the shift lock control solenoid.
2. Ignition ON, verify a test lamp illuminates between the B+ circuit terminal E and ground.

- If the test lamp does not illuminate , test the B+ circuit for a short to ground or open/high resistance. If the circuit tests normal, test or replace the shift lock control solenoid.

- Connect a test lamp between the B+ circuit terminal E and control circuit terminal K.
- Depress and release the brake pedal several times. The test lamp should turn ON and OFF as commanded.

- If the test lamp is always ON, test the control circuit for short to ground. If the circuit tests normal, replace the RCDLR.
- If the test lamp is always OFF, test the control circuit for an open/high resistance or short to voltage. If the circuit test normal, replace the RCDLR.

- If all circuits test normal, test or replace the shift lock control solenoid.

Repair Instructions

Perform the Diagnostic Repair Verification after completing the diagnostic procedure.

- Transmission Control Replacement
- Control Module References for RCDLR replacement, setup, and programming