

2009 ENGINE**Starting - Non-DTC Diagnostics - Journey****DIAGNOSIS AND TESTING****REMOTE START INHIBITORS**

1. Using the scan tool, select ECU VIEW.
2. Select the TIPM or FCM section.
3. Select MORE OPTIONS
4. Select SYSTEM TESTS
5. Select REMOTE START INHIBIT DATA.

The following table below is a list of possible causes for the inoperative Remote Start System. If any of the following conditions exist, the Remote Start System will not work. Use this information as a guide to the diagnosis of the Remote Start System.

- ABORT
- BATTERY VOLTAGE HIGH
- BATTERY VOLTAGE LOW
- BRAKE PRESSED
- COOLANT TEMPERATURE HIGH
- CRANK NO START
- DRIVER DOOR AJAR
- PASSENGER DOOR AJAR
- LEFT REAR DOOR AJAR
- RIGHT REAR DOOR AJAR
- TRUNK/LIFTGATE AJAR
- HOOD AJAR
- NO HOOD SWITCH (INOPERATIVE)
- EXCESSIVE GLOW PLUG TIME (DIESEL ONLY)
- FAILED COUNTER REACHED (START)
- HAZARD LAMPS (SWITCH PRESSED)
- IGNITION IN RUN/START
- IGNITION NOT IN LOCK
- IGNITION SNA (SIGNAL NOT AVAILABLE FROM OTHER MODULE)
- INVALID KEY
- KEY IN IGNITION
- LOW RPM SHUTDOWN

- MIL ON
- NO AUTOMATIC TRANSMISSION
- NORMAL TIME OUT CUSTOMER ACCESS
- NORMAL TIME OUT RUN MODE (15 MINUTES)
- NOT CONFIGURED
- NOT ENABLED
- NOT IN PARK OR NEUTRAL
- NOT PROGRAMMED
- OIL PRESSURE LOW
- PANIC MODE (ACTIVATED)
- POWER LOSS
- RKE OFF MESSAGE
- RPM TOO HIGH (EXCEEDS 2500)
- START COUNTER REACHED
- VEHICLE SPEED HIGH
- VTA ALARMING

If all of the previous items checked OK, and the remote starting system will not operate, refer to the REMOTE START POOR PERFORMANCE diagnostic procedure. .

REMOTE START POOR PERFORMANCE

For complete wiring diagrams, refer to **SYSTEM WIRING DIAGRAMS** .

Theory of Operation

The customer may notice that the signal range of the Remote Keyless Entry (RKE) system is reduced. The RKE key fob may need to be closer than 3 meters (10 feet) before the functions available on the key fob will operate. This condition may be due to the RKE antenna. The diagnostic flow chart is provide as a diagnostic aid for dealer technician.

Diagnostic Test

1. LOCK/UNLOCK FUNCTION

NOTE: For all RKE tests, the key must be out of the ignition.

Does the Lock/Unlock function with the interior door switches?

Yes

- Go to step 2

No

- Perform Power Lock/Unlock System diagnosis.

2. RKE FUNCTION AT 20 FEET

Does the RKE Function at 20 feet?

Yes

- Go to step 3

No

- Go to step 4

3. RKE FUNCTION AT 100 FEET

Does the RKE Function at 100 feet?

Yes

- Test complete.

No

- Replace the antenna in accordance with the Service Information.

4. WCM/WIN DTCS

Does the WCM/WIN display any DTCS?

Yes

- Perform WCM/WIN diagnosis.

No

- Go to step 5

5. RKE FUNCTION INSIDE VEHICLE

1. Sit inside the vehicle.
2. Push the Key Fob RKE Lock/Unlock buttons.

Does the RKE Lock/Unlock work?

Yes

- Go to step 6

No

- Go to step 9

6. ANTENNA COAX CABLE NOT PROPERLY CONNECTED

1. Pull on the Antenna COAX cable connector at the WCM/WIN.

Did the connector come off without releasing the lock tab (not properly seated) ?

Yes

- Connect Antenna
- Go to step 2

No

- Go to step 7

7. VERIFY COAX CONNECTION AT WCM/WIN

1. Pull Antenna connector off WCM/WIN. Verify no bent pins.

Are there any bent pins?

Yes

- Replace antenna.
- Go to step 2

No

- Go to step 8

8. PINCHED WIRE

1. Inspect the ANTENNA Lead COAX Cable for a pinched wire.

Has the COAX cable been pinched or damaged?

Yes

- Replace antenna.
- Go to step 2

No

- Perform WCM/WIN diagnostics.

9. RKE FUNCTION INSIDE VEHICLE

1. Disconnect the Antenna COAX Cable lead connector to WCM/WIN.

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2. Sit inside the vehicle. Push the RKE Key Fob Lock/Unlock buttons.

Does the RKE Lock/Unlock work?

Yes

- Replace the antenna.

No

- Go to step 10

10. **CHECK FOR 12 VOLTS AT WCM/WIN**

1. Connect the Antenna Lead to WCM/WIN.
2. Disconnect the WCM/WIN harness connector.
3. Using the appropriate wiring diagrams, check for Fused B+ at the WCM/WIN harness connector.

Is Fused B+ present?

Yes

- Perform WCM/WIN diagnostics.

No

- Repair the appropriate circuits.