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2008 CHEVROLET Traverse OEM Service and Repair Workshop Manual

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7. Ignition » On / Vehicle » In Service Mode
8. Verify the scan tool parameter:Transmission ISS=250 to 280 RPM
    - **If not between 250 and 280 RPM**
    1. Ignition/Vehicle » Off
    2. Disconnect the electrical connector:K71 Transmission Control Module
    3. Ignition » On / Vehicle » In Service Mode
    4. Test for less than 1 V between the test points:Signal circuit terminal 26@Component harness&Ground
        - If 1 V or greater » Repair the short to voltage on the circuit.
        - If less than 1 V
    5. Ignition/Vehicle » Off
    6. Test for infinite resistance between the test points:Signal circuit terminal 26@Component harness&Ground
        - If less than infinite resistance » Repair the short to ground on the circuit.
        - If infinite resistance
    7. Test for less than 2 Ω between the test points:Signal circuit terminal 26@Component harness&Terminal 15@Control module harness
        - If 2 Ω or greater » Repair the open/high resistance in the circuit.
        - If less than 2 Ω » Replace the component:K71 Transmission Control Module
    - **If between 250 and 280 RPM**
9. Ignition/Vehicle » Off
10. Connect the electrical connector:X175@T12 Automatic Transmission Assembly
11. Remove the component:Control Valve Body
12. Disconnect the appropriate electrical connector:B14C Transmission Input Shaft Speed Sensor
13. Ignition » On / Vehicle » In Service Mode
14. Test for 8.5 to 9.5 V between the test points:9 V Reference circuitComponent terminal 4&Ground
    - **If not between 8.5 and 9.5 V**

- For control module replacement, programming, and setup refer to: Control Module References

Additional Procedures

Transmission Service Fast Learn Procedure—Perform only when the component/system is serviced.

Typical Scan Tool Data

9V Reference 1 Circuit Status

Circuit	Short to Ground	Open	Short to Voltage
Operating Conditions: Ignition=On **Parameter Normal Range:** OKorNot Run			
9 V Reference1	Malfunction	Malfunction	Malfunction

Transmission OSS

Circuit	Short to Ground	Open	Short to Voltage
Operating Conditions: Engine=Running **Parameter Normal Range:** 500 to 7,500 RPM			
Signal	0 RPM	0 RPM	—

Circuit/System Description

- Electronic Component Description
- Transmission Component and System Description
- Transmission General Description

Circuit	Description
9 V Reference1	Regulated voltage supplied by the control module.
Signal	The sensor produces a frequency modulated signal.

Component	Description
B14A Transmission	The sensor contains a hall-effect sensor and additional electronics that processes the signal. It detects the change of strength of the magnetic field caused by the reluctor ring.

- Ignition Voltage=Greater than 9 V
- Transmission Gear=ReverseorDrive
- Transmission OSS=Greater than 105 RPM

Frequency the DTC runs=Continuously—After the running conditions are met

P077C, P077D

- { P077C }DTC P077D = Not set
- { P077D }DTC P077C = Not set
- Battery Voltage=Greater than 9 V

Frequency the DTC runs=Continuously—After the running conditions are met

Conditions for Setting the DTC

P0722

Transmission OSS=Less than 30 RPM—For greater than 5 s

P0723

Transmission OSS=Decreases greater than 1000 RPM—For greater than 1 s

P077C

Transmission OSS=Less than 0.25 V—For greater than 1 s

P077D

Transmission OSS=Greater than 4.75 V—For greater than 1 s

Actions Taken When the DTC Sets

DTCs listed in the DTC Descriptor category=Type A DTC

- Autostart/Autostop=Disabled—If equipped
- Default shift pattern=Enabled
- Grade braking=Disabled
- Manual Shift Control=Disabled
- Neutral Idle Mode=Disabled