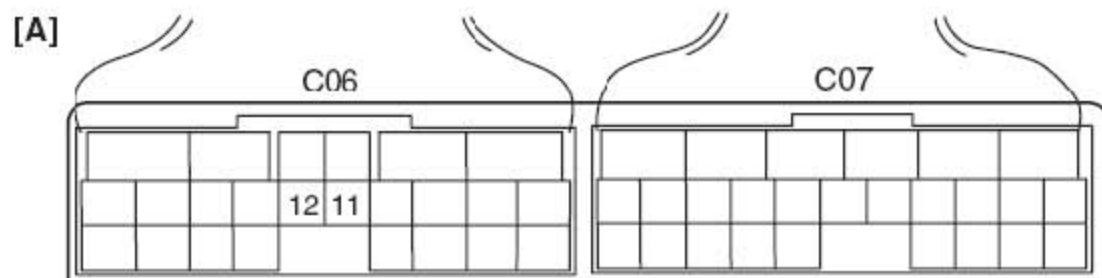
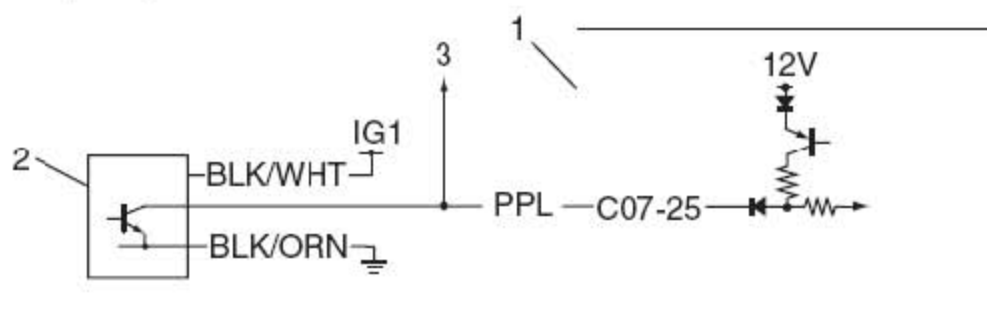


P0722: Output Speed Sensor (VSS) Circuit No Signal

Wiring Diagram



1. TCM	3. To ECM
2. Output shaft speed sensor (VSS)	[A]: Terminal arrangement of TCM connector (viewed from harness side)

DTC Detecting Condition and Trouble Area

DTC detecting condition	Trouble area
No output shaft speed sensor signal is detected although input shaft speed sensor signals are detected with "D", "2" or "L" range.	<ul style="list-style-type: none"> • Output shaft speed sensor or its circuit malfunction • Damaged sensor gear (driven gear) • Damaged output shaft speed sensor (VSS) drive gear • TCM

DTC Confirmation Procedure

- 1) Connect scan tool to DLC with ignition switch OFF, if available.
- 2) Clear DTC in TCM memory and start engine.
- 3) Shift select lever to "D" range and drive vehicle at 9 km/h (6 mile/h) or more vehicle speed at least for 1 km (0.6mile).
- 4) Stop vehicle and check DTC.

DTC Troubleshooting

Step	Action	Yes	No
1	Was "A/T System Check" performed?	Go to Step 2.	Go to "A/T System Check".
2	Check output shaft speed sensor (VSS) power circuit 1) Turn ignition switch OFF. 2) Disconnect output shaft speed sensor connector. 3) Turn ignition switch ON. 4) Measure voltage between "BLK/WHT" wire terminal of disconnected output shaft speed sensor harness side connector and ground. Is it 10 – 14 V?	Go to Step 3.	"BLK/WHT" wire open or shorted to ground.
3	Check output shaft speed sensor (VSS) ground circuit 1) Turn ignition switch OFF. 2) Check continuity between "BLK/ORN" wire terminal of disconnected output shaft speed sensor harness side connector and ground. Is continuity indicated?	Go to Step 4.	"BLK/ORN" wire open.
4	Check output shaft speed sensor (VSS) signal circuit for short 1) Disconnect TCM connectors. 2) Check continuity between "PPL" wire terminal of disconnected output shaft speed sensor harness side connector and ground. Is continuity indicated?	"PPL" wire shorted to ground.	Go to Step 5.

Step	Action	Yes	No
5	<p>Check output shaft speed sensor (VSS) signal circuit for open</p> <p>1) Check continuity between "PPL" wire terminal of disconnected output shaft speed sensor harness side connector and terminal "C07-25" of disconnected harness side TCM connector. Is continuity indicated?</p>	Go to Step 6.	"PPL" wire open.
6	<p>Inspect output shaft speed sensor (VSS)</p> <p>1) Inspect output shaft speed sensor referring to "Output Shaft Speed Sensor (VSS) Inspection". Is check result satisfactory?</p>	Go to Step 7.	Replace output shaft speed sensor (VSS).
7	<p>Check output shaft speed sensor (VSS) gears visually</p> <p>1) Check output shaft speed sensor gears for the followings.</p> <ul style="list-style-type: none"> • No damage in drive gear on differential case • No damage in driven gear in output shaft speed sensor <p>Is result satisfactory?</p>	<p>Intermittent trouble or faulty TCM. Check for intermittent referring to "Intermittent and Poor Connection Inspection in Section 00". If OK, substitute a known-good TCM and recheck.</p>	Replace drive gear and/ or driven gear of output shaft speed sensor.