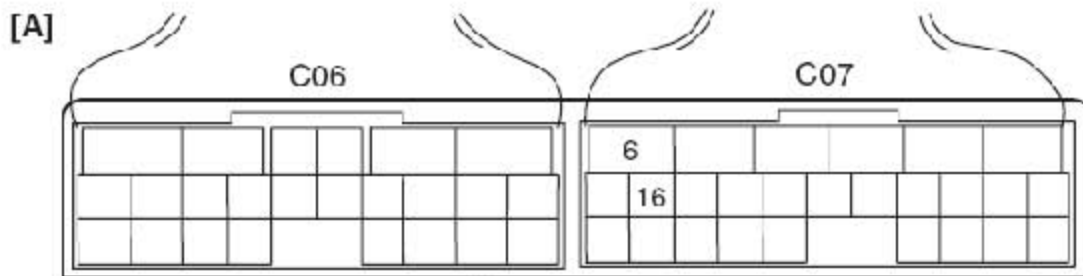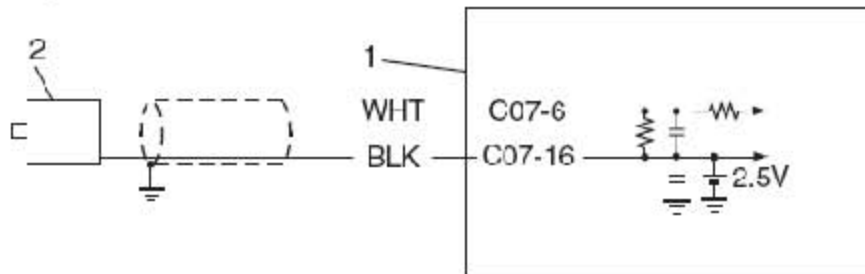# P0717: Input / Turbine Speed Sensor Circuit Malfunction

Wiring Diagram

1. TCM	2. Input shaft speed sensor	[A]: Terminal arrangement of TCM connector (viewed from harness side)

DTC Detecting Condition and Trouble Area

DTC detecting condition	Trouble area
No input shaft speed sensor signal is detected although output shaft speed sensor signals are detected.	• Input shaft speed sensor or its circuit malfunction • Improper input shaft speed sensor installation • Damaged direct clutch drum • Foreign material attachment to sensor or drum •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 25 km/h (15 mile/h) or
   more with 3rd gear 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 input shaft speed sensor circuit** 1) Disconnect TCM connectors with ignition switch OFF. 2) Check for proper connection to input shaft speed sensor at "C07-6" and "C07-16" terminals. 3) If OK, check resistance of sensor circuit. **Input shaft speed sensor specification** **Between terminals "C07-6" and "C07-16": 560 – 680** Ω at 20 °C (68 °F) **Between terminal "C07-6" / "C07-16" and ground: No continuity** Are check result satisfactory?	Go to Step 4.	Go to Step 3.
3	Inspect input shaft speed sensor 1) Inspect input shaft speed sensor referring to "Input Shaft Speed Sensor Inspection". Is result satisfactory?	"WHT" or "BLK" circuit open or short.	Replace input shaft speed sensor.
4	Check visually input shaft speed sensor and direct clutch drum for the following • No damage • No foreign material attached • Correct installation Are they in good condition?	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.	Clean, repair or replace.