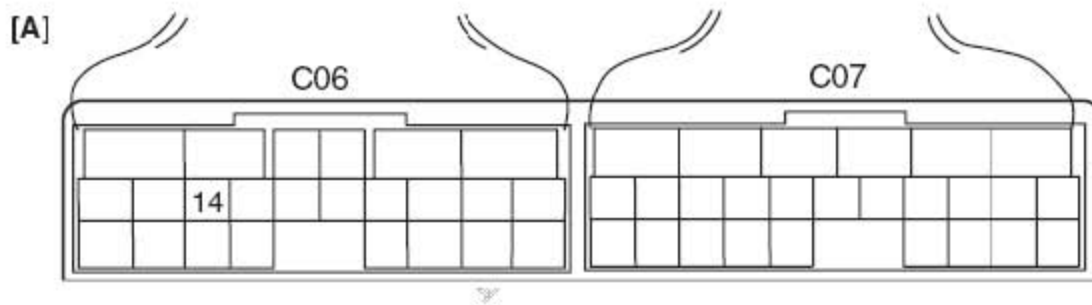
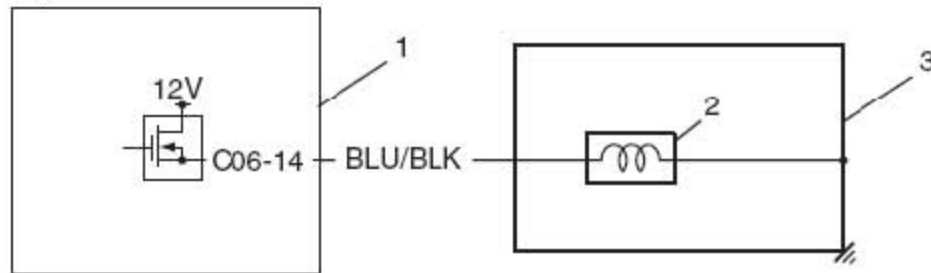


# P0787: Shift / Timing Solenoid Control Circuit Low

## Wiring Diagram



1. TCM	3. A/T
2. Timing solenoid valve	[A]: Terminal arrangement of TCM connector (viewed from harness side)

## DTC Detecting Condition and Trouble Area

DTC detecting condition	Trouble area
Voltage of timing solenoid valve TCM terminal is low although TCM is commanding timing solenoid valve to turn ON.	<ul style="list-style-type: none"> <li>• Timing solenoid valve circuit shorted to ground</li> <li>• Timing solenoid valve malfunction</li> <li>• TCM</li> </ul>

## DTC Confirmation Procedure

- 1) Connect scan tool to DLC with ignition switch OFF, if available.
- 2) Clear DTC in TCM memory.
- 3) Start engine and shift select lever to "N" range.
- 4) Repeat shifting select lever from "N" range to "D" range and vice versa for 3 times.

5) 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	<p><b>Check timing solenoid valve resistance</b></p> <p>1) Turn ignition switch OFF.</p> <p>2) Disconnect valve body harness connector (1), (2) on transaxle.</p> <p>3) Check for proper connection to solenoid valve at "BLU/BLK" circuit.</p> <p>4) Check resistance of solenoid valve.</p> <p><b>Timing solenoid valve resistance Between terminal of transaxle side valve body harness connector and transaxle: 11 – 15 <math>\Omega</math> at 20 °C (68 °F)</b></p> <p><i>Is check result satisfactory?</i></p>	Go to Step 3.	Replace timing solenoid valve or lead wire.
3	<p><b>Check timing solenoid valve circuit for ground short</b></p> <p>1) <b>Connect valve body harness connector.</b></p> <p>2) <b>Disconnect TCM connectors.</b> 3) <b>Measure resistance between terminal "C06-14" of disconnected harness side TCM connector and ground. Is it 11 – 15 <math>\Omega</math> at 20 °C (68 °F)?</b></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.	"BLU/BLK" circuit shorted to ground