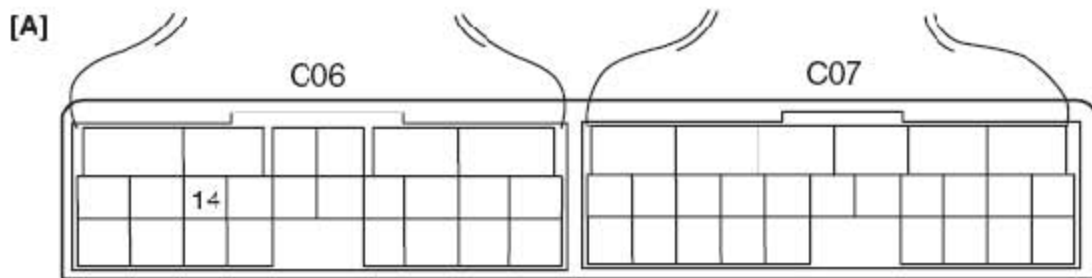
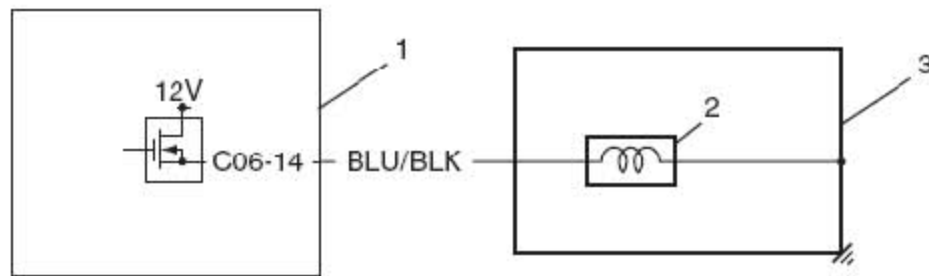


# P0788: Shift / Timing Solenoid Control Circuit High

## 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 high although TCM is commanding timing solenoid valve to turn OFF.	<ul style="list-style-type: none"> <li>Timing solenoid valve circuit open or shorted to power circuit</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 circuit for IG short</b></p> <p>1) Disconnect TCM connectors.</p> <p>2) Turn ignition switch ON and measure voltage between terminal "C06-14" of harness side TCM connector and ground.</p> <p>Is it 0 – 1 V?</p>	Go to Step 3.	<p>"BLU/BLK" circuit</p> <p>shorted to power circuit.</p>
3	<p><b>Check timing solenoid valve circuit for open</b></p> <p>1) Measure resistance between terminal "C06-14" of disconnected harness side TCM connector and ground.</p> <p>Is it 11 – 15 <math>\Omega</math> at 20 °C (68 °F)?</p>	<p>Intermittent trouble or faulty TCM.</p> <p>Check for intermittent referring to "Intermittent and Poor Connection Inspection in Section 00". If OK, substitute a known-good TCM and recheck.</p>	Go to Step 4.

Step	Action	Yes	No
4	<b>Check timing solenoid valve resistance</b> 1) Turn ignition switch OFF. 2) Disconnect valve body harness connector (1), (2) on transaxle. 3) Check for proper connection to solenoid valve at "BLU/BLK" circuit. 4) Check resistance of solenoid valve. <b>Timing solenoid valve resistance Between terminal of transaxle side valve body harness connector and transaxle:</b> <b>11 – 15 <math>\Omega</math> at 20 °C (68 °F)</b>	"BLU/BLK" circuit open.	Replace timing solenoid valve or lead wire.

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