

DTC	P0550	POWER STEERING PRESSURE SENSOR/SWITCH CIRCUIT
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DTC	P0552	POWER STEERING PRESSURE SENSOR/SWITCH CIRCUIT LOW INPUT
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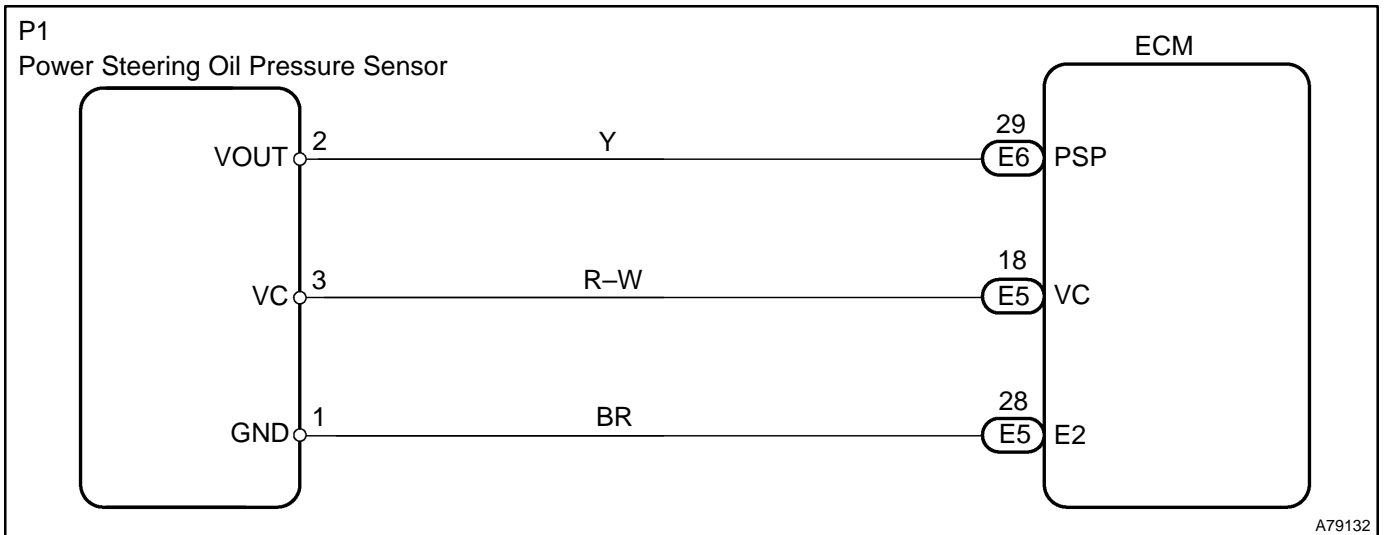
DTC	P0553	POWER STEERING PRESSURE SENSOR/SWITCH CIRCUIT HIGH INPUT
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CIRCUIT DESCRIPTION

The power steering oil pressure sensor is turned ON when a power steering wheel load occurs by turning the steering wheel. The ECM regulates the engine idle RPM according to the voltage output of the sensor.

DTC No.	DTC Detection Condition	Trouble Area
P0550	Open or short in the power steering oil pressure sensor circuit is detected for more than 3 seconds when the ignition switch is turned ON. (1 trip detection logic)	<ul style="list-style-type: none"> • Open or short in power steering oil pressure sensor circuit • Power steering oil pressure sensor • ECM
P0552	Open in the power steering oil pressure sensor circuit is detected for more than 3 seconds when the ignition switch is turned ON.	
P0553	Short in the power steering oil pressure sensor circuit is detected for more than 3 seconds when the ignition switch is turned ON.	

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

- If different DTCs related to different systems that have terminal E2 as the ground terminal are output simultaneously, terminal E2 may be open.
- Read freeze frame data using the hand-held tester or the OBD II scan tool. Freeze frame data records the engine conditions when a malfunction is detected. When troubleshooting, it is useful for determining whether the vehicle was running or stopped, the engine was warmed up or not, the air-fuel ratio was lean or rich, etc. at the time of the malfunction.

1	CHECK POWER STEERING OIL PRESSURE SENSOR
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- (a) Connect the hand-held tester or the OBD II scan tool to the DLC3.
- (b) Start the engine.
- (c) Push the hand-held tester or the OBD II scan tool main switch ON.
- (d) Select the item "DIAGNOSIS / ENHANCED OBD II / DATA LIST / ALL / PS SIGNAL" and read its value displayed on the hand-held tester or the OBD II scan tool.

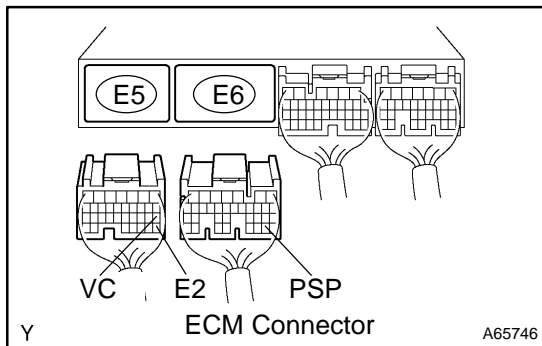
Result:

Condition	Power steering oil pressure sensor
Turning the steering wheel until it is locked	ON
In an idle	OFF

OK **CHECK FOR INTERMITTENT PROBLEMS**
(See page 05-41)

NG

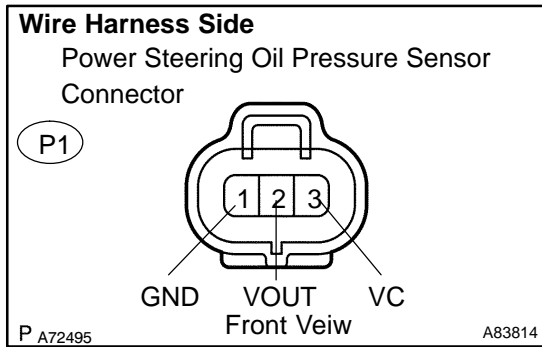
2 CHECK HARNESS AND CONNECTOR(ECM – POWER STEERING OIL PRESSURE SENSOR)



- (a) Disconnect the E5 and E6 ECM connectors.
- (b) Disconnect the P1 power steering oil pressure sensor connector.
- (c) Measure the resistance between the wire harness side connectors.

Standard (Check for open):

Tester Connection	Specified Condition
VOUT (P1-2) – PSP (E6-29)	Below 1 Ω
VC (P1-3) – VC (E5-18)	
GND (P1-1) – E2 (E5-28)	



Standard (Check for short):

Tester Connection	Specified Condition
VOUT (P1-2) or PSP (E6-29) – Body ground	10 kΩ or higher
GND (P1-1) or E2 (E5-28) – Body ground	

- (d) Reconnect the power steering oil pressure sensor connector.
- (e) Reconnect the ECM connector.

NG **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

REPLACE POWER STEERING OIL PRESSURE SENSOR