

**DTC****P0818****Driveline Disconnect Switch Input Circuit****DESCRIPTION**

The ECM detects the signal from the No. 2 transfer indicator switch (Transfer neutral position switch). This DTC indicates that the No. 2 transfer indicator switch remains ON.

DTC No.	DTC Detection Condition	Trouble Area
P0818	No. 2 transfer indicator switch remains ON while vehicle is running under following conditions for 30 seconds. (2 trip detection logic): <ul style="list-style-type: none"> <li>Vehicle speed is 15.6 mph (25.1 km/h) or more.</li> <li>Transfer high and low shift lever position: H</li> </ul>	<ul style="list-style-type: none"> <li>Short in No. 2 transfer indicator switch (Transfer neutral position switch) circuit</li> <li>No. 2 transfer indicator switch</li> <li>Combination meter</li> <li>ECM</li> </ul>

**MONITOR DESCRIPTION**

The ECM detects whether or not the transfer high and low shift lever is in neutral by monitoring the signal from the No. 2 transfer indicator switch.

If the ECM detects that the transfer high and low shift lever is in neutral under the following conditions, the ECM will conclude that there is a malfunction of the No. 2 transfer indicator switch:

- No. 2 transfer indicator switch indicates that the transfer high and low shift lever is in neutral.
- Transfer high and low shift lever is in the H position.
- The vehicle is traveling at 15.6 mph (25.1 km/h) or more.
- The No. 2 transfer indicator switch has been ON for more than 30 seconds.

If all of the above conditions are detected, the ECM will conclude that there is a malfunction of the No. 2 transfer indicator switch, illuminate the MIL and store the DTC.

**MONITOR STRATEGY**

Related DTCs	P0818: Transfer neutral position switch/Verify switch cycling
Required sensors/Components	No. 2 transfer indicator switch (Transfer neutral position switch), Vehicle speed sensor
Frequency of operation	Continuous
Duration	30 seconds
MIL operation	2 driving cycles
Sequence of operation	None

**TYPICAL ENABLING CONDITIONS**

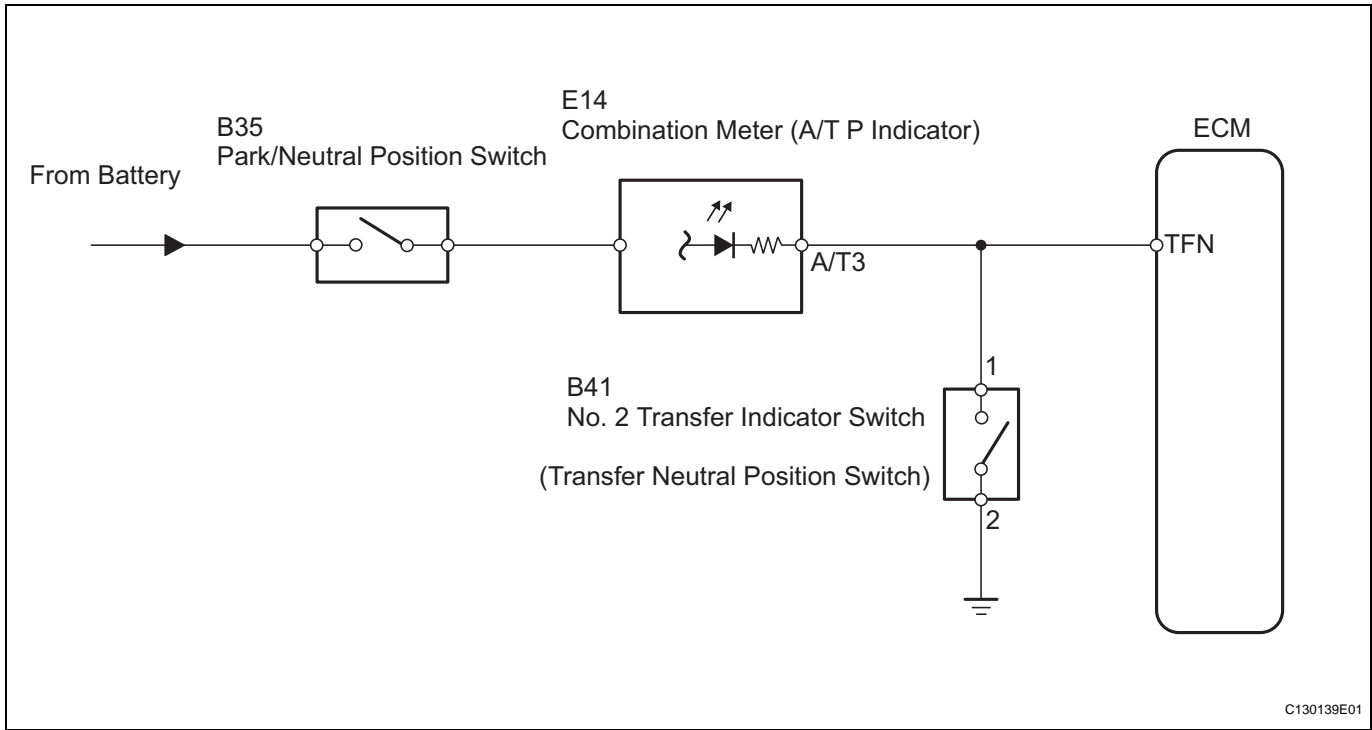
The monitor will run whenever the following DTCs are not present.	None
Vehicle speed	15.6 mph (25.1 km/h) or more
Transfer position	High
Ignition switch	ON
Battery voltage	8 V or more
Starter	OFF

**TYPICAL MALFUNCTION THRESHOLDS**

Transfer neutral switch signal	ON
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**AT**

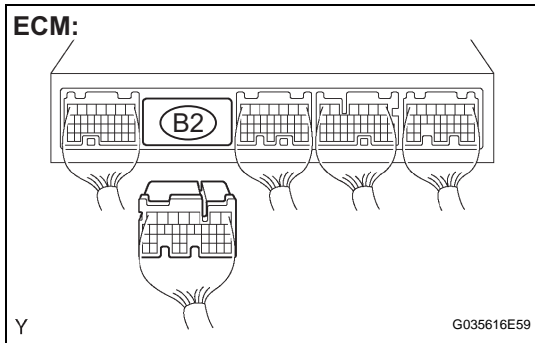
**WIRING DIAGRAM**



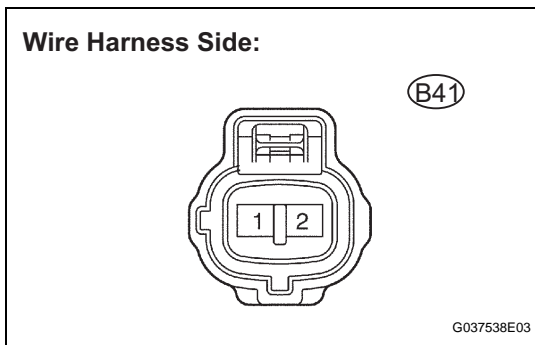
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**INSPECTION PROCEDURE**

**1 CHECK HARNESS AND CONNECTOR (NO. 2 TRANSFER INDICATOR SWITCH - BODY GROUND)**



- (a) Disconnect the B2 connector of the ECM.
- (b) Disconnect the No. 2 transfer indicator switch connector.



- (c) Measure the resistance.  
**Standard resistance**

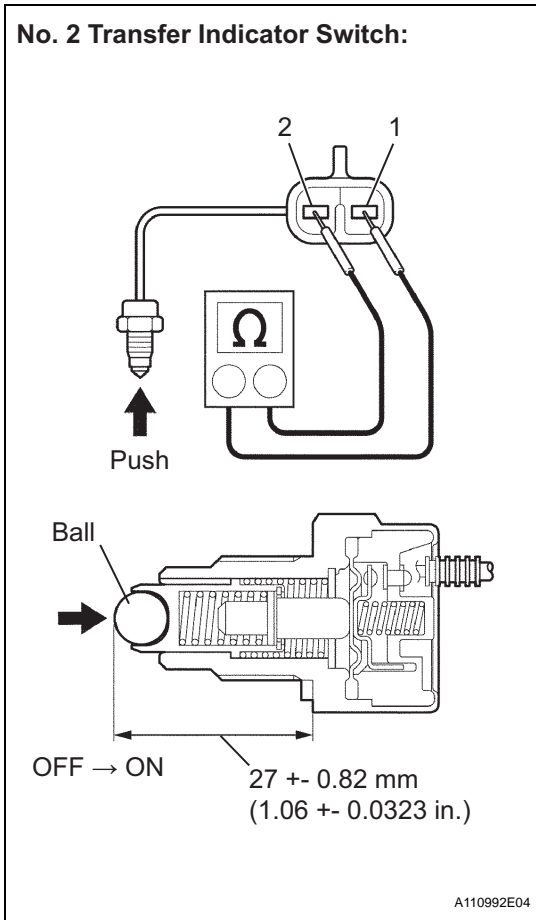
Transfer Connection	Specified Condition
1 - Body ground	10 kΩ or higher

**NG** → **Go to step 3**

**OK**

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**2 INSPECT NO. 2 TRANSFER INDICATOR SWITCH (TRANSFER NEUTRAL POSITION SWITCH)**



- (a) Remove the No. 2 transfer indicator switch.
- (b) Measure the resistance of the switch when pushing the ball at the tip of the switch.

**Standard resistance**

Tester Connection	Switch Condition	Specified Condition
1 - 2	Not pushed	10 kΩ or higher
1 - 2	Pushed	Below 1 Ω

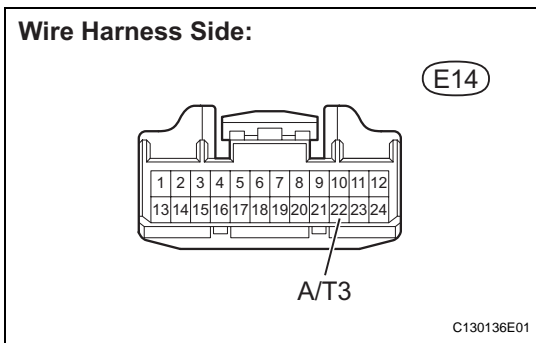
**NG** **REPLACE NO. 2 TRANSFER INDICATOR SWITCH (TRANSFER NEUTRAL POSITION SWITCH)**

**OK**

**REPLACE ECM**

**AT**

**3 CHECK HARNESS AND CONNECTOR (COMBINATION METER - BODY GROUND)**



- (a) Disconnect the E14 connector of the combination meter.
- (b) Measure the resistance of the wire harness side connector.

**Standard resistance**

Transfer Connection	Specified Condition
22 (A/T3) - Body ground	10 kΩ or higher

**NG** **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

REPLACE COMBINATION METER