

DTC	P0818	Driveline Disconnect Switch Input Circuit
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CIRCUIT DESCRIPTION

The ECM detects the signal from the transfer neutral position switch.

This DTC indicates that the transfer neutral position switch remains ON.

DTC No.	DTC Detecting Condition	Trouble Area
P0818	Transfer neutral position switch remains ON while vehicle running under conditions for 30 sec. (2-trip detection logic) • Vehicle speed is 25 km/h or more • Transfer shift position is H	• Short in transfer neutral position switch circuit • Transfer neutral position switch • ECM

MONITOR DESCRIPTION

The ECM detects whether or not the transfer gear is in the neutral position by monitoring the signal from the transfer neutral position switch.

If the ECM detects that the transfer-case is in neutral under the following conditions, the ECM will conclude that there is a malfunction of the transfer-case neutral position switch:

- Transfer-case neutral position switch indicates that the transfer-case is in neutral.
- Transfer-case shifter is in the "H" position.
- The vehicle is traveling at 25 km/h (16 mph) or more.
- The neutral switch has been ON for more than thirty seconds.

If all of the above conditions are detected, the ECM will conclude that there is a malfunction of the transfer-case neutral position switch, illuminate the MIL and store the DTC.

MONITOR STRATEGY

Related DTCs	P0818	Transfer neutral position switch/Verify switch cycling
Required sensors/Components	Main	Transfer neutral position switch
	Sub	Vehicle speed sensor
Frequency of operation	Continuous	
Duration	30 sec.	
MIL operation	2 driving cycles	
Sequence of operation	None	

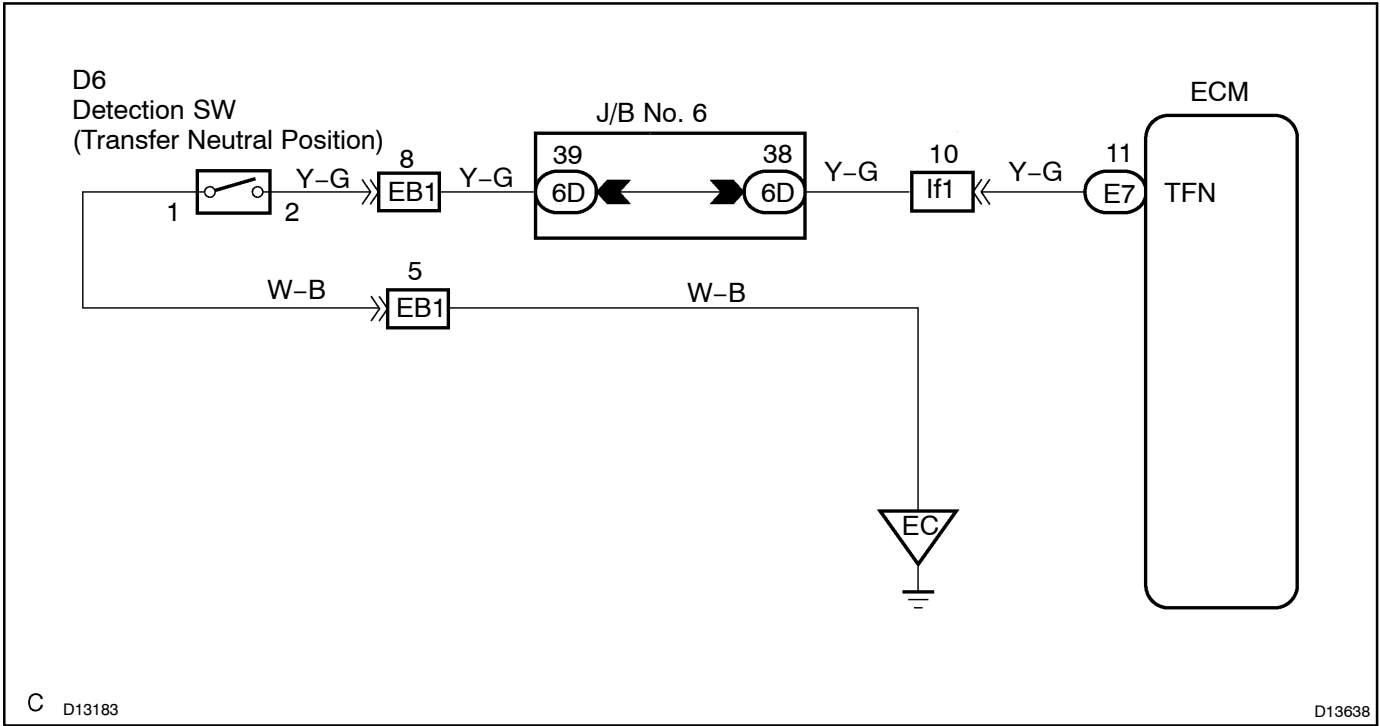
TYPICAL ENABLING CONDITIONS

Item	Specification	
	Minimum	Maximum
The monitor will run whenever the following DTCs are not present.	See page DI-369	
Vehicle speed	25 km/h (15.52 mph) or more	–
Transfer position	High	
Ignition switch ON and time after OFF to ON	Less than 0.5 sec.	–
Battery voltage	8 V or more	–
Starter	OFF	

TYPICAL MALFUNCTION THRESHOLDS

Detection criteria	Threshold
Transfer neutral switch signal	ON

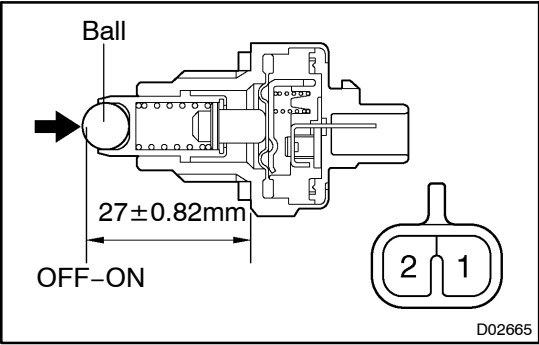
WIRING DIAGRAM



INSPECTION PROCEDURE

1

Check transfer neutral position switch.



PREPARATION:

Remove the transfer neutral position switch.

CHECK:

Check the continuity between the switch terminals when pushing the ball at the tip of the switch.

OK:

Switch	Specified condition
Push	Continuity
Free	No continuity

OK

NG

Replace transfer neutral position switch.

2

Check harness and connector between ECM and transfer neutral position switch, transfer neutral position switch and body ground (See page [IN-36](#)).

OK

NG

Repair or replace the harness or connector.

Check and replace the ECM (See page [IN-36](#)).