DTC	P0818	DRIVELINE DISCONNECT SWITCH INPUT CIRCUIT

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 is running under following 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

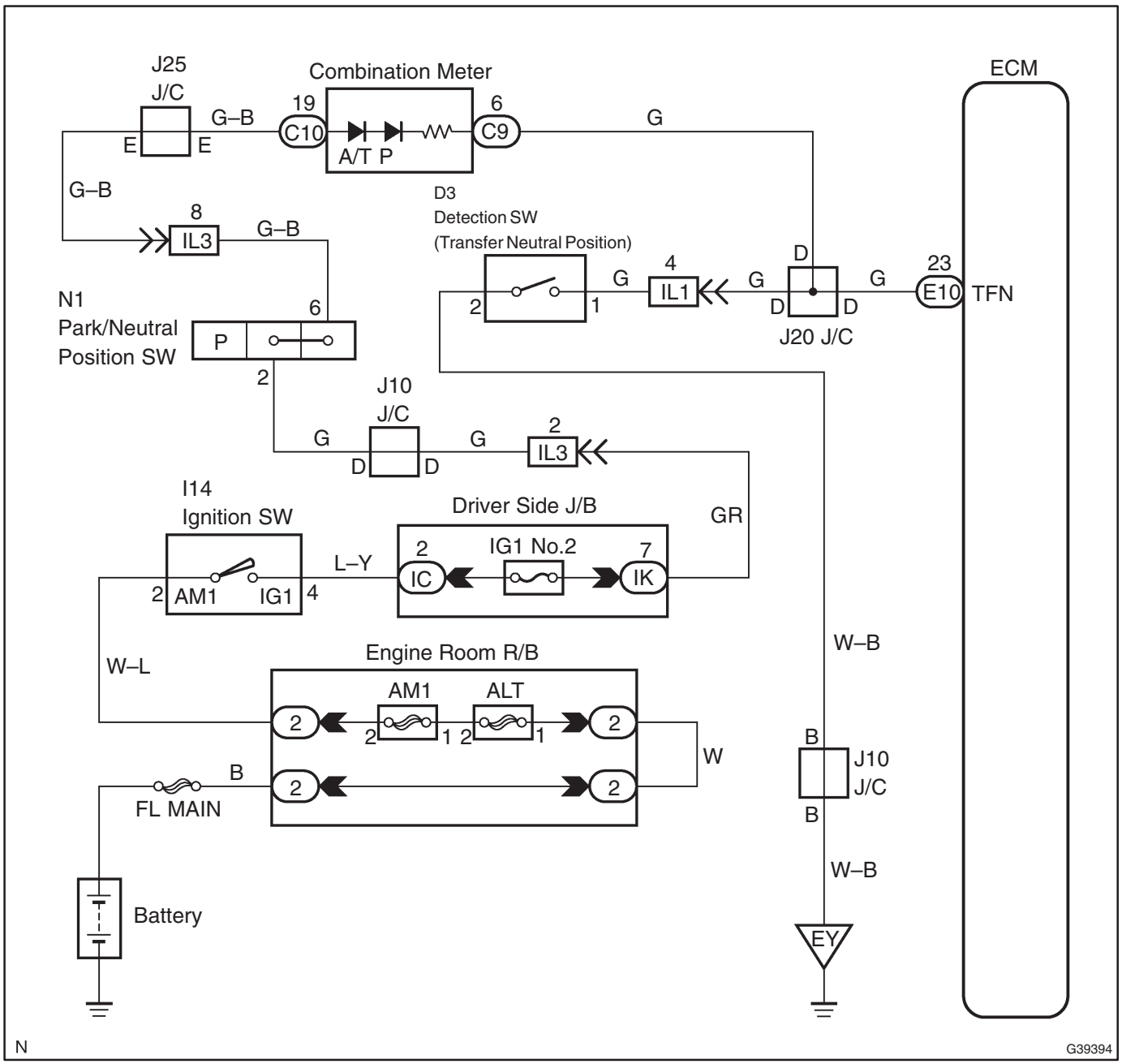
MONITOR DESCRIPTION

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.

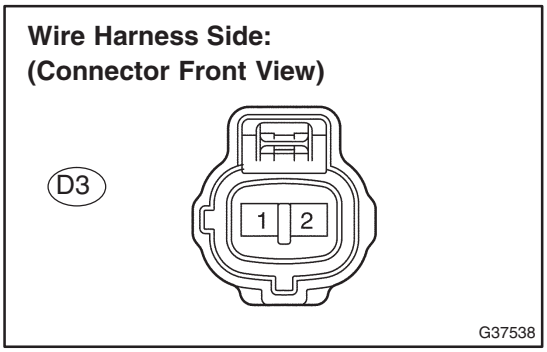
If all of the above conditions are detected, the ECM will conclude that there is a malfunction of the transfer–case neutral position switch, illuminate the MIL and store the DTC.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK HARNESS AND CONNECTOR(TRANSFER INDECATOR SWITCH–BODY GROUND)



(a) Disconnect the transfer indicator switch No.2 connector.
(b) Measure the resistance according to the value(s) in the table below.

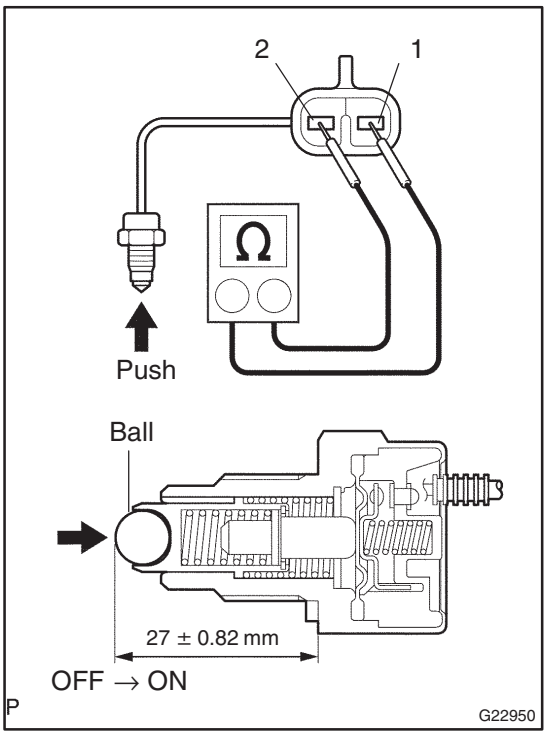
Standard:

Tester Connection	Specified Condition
2 – Body ground	Below 1 Ω

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR (SEE PAGE 01–36)**

OK

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



(a) Remove the transfer indicator switch No.2.
(b) Measure the resistance according to the value(s) in the table below.

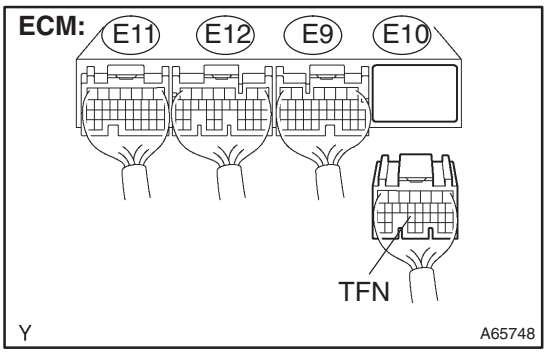
Standard:

Switch position	Tester Connection	Specified Condition
Free	1 – 2	10 kΩ or higher
Pushed in	↑	Below 1 Ω

NG → **REPLACE TRANSFER INDICATOR SWITCH NO.2(TRANSFER NEUTRAL POSITION SWITCH) (SEE PAGE 31–5)**

OK

3 CHECK HARNESS AND CONNECTOR(TRANSFER INDICATOR SWITCH–ECM)



(a) Disconnect the connector from the ECM.

(b) Measure the resistance according to the value(s) in the table below.

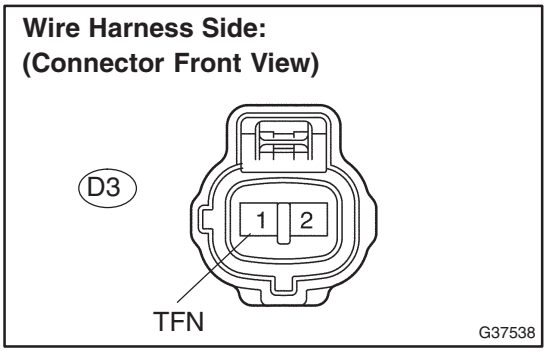
Standard (Check for open):

Tester Connection	Specified Condition
E10 – 23 (TFN) – D3 – 1 (TFN)	Below 1 Ω

(c) Measure the resistance according to the value(s) in the table below.

Standard (Check for short):

Tester Connection	Specified Condition
E10 – 23 (TFN) – Body ground	10 kΩ or higher



NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR (SEE PAGE 01–36)**

OK

REPLACE ECM (SEE PAGE 10–12)