DTC	P0724	BRAKE SWITCH ”B” CIRCUIT HIGH

CIRCUIT DESCRIPTION

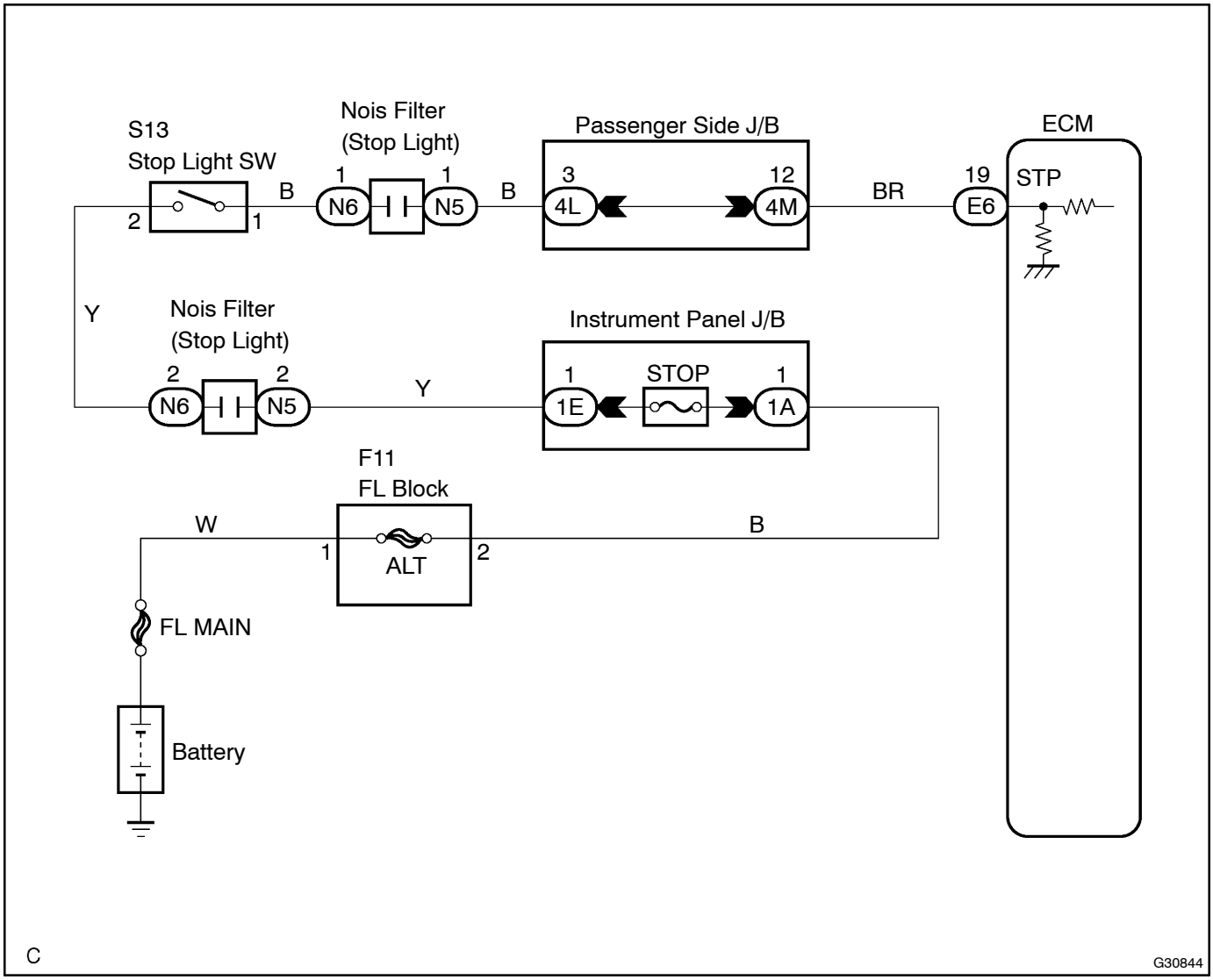
The purpose of this circuit is to prevent the engine from stalling while driving in lock–up condition, when brakes are suddenly applied.
When the brake pedal is depressed, this switch sends a signals to the ECM. Then the ECM cancels the operation of the lock–up clutch while braking is in progress.

DTC No.	DTC Detecting Condition	Trouble Area
P0724	The stop light switch remains ON even when the vehicle is driven in a GO (30 km/h) and STOP (3 km/h) fashion 10 times. (2–trip detection logic).	• Short in stop light switch signal circuit • Stop light switch • ECM

MONITOR DESCRIPTION

This DTC indicates that the stop light switch remains on. When the stop light switch remains ON during ”stop and go” driving, the ECM interprets this as a fault in the stop light switch and the MIL comes on and the ECM stores the DTC. The vehicle must stop (less than 3 km/h (2 mph)) and go (30 km/h (19 mph) or more) ten times for two driving cycles in order to detect malfunction.

WIRING DIAGRAM



INSPECTION PROCEDURE

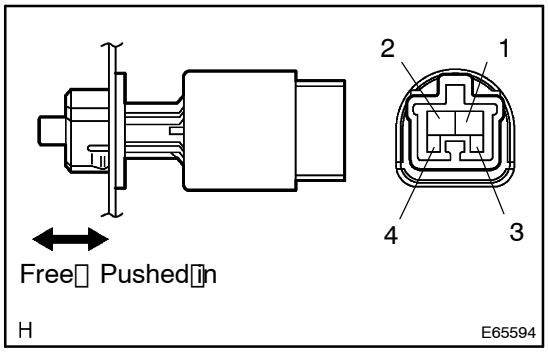
HINT:

According to the DATA LIST displayed by the hand–held tester, you can read the value of the switch, sensor, actuator and so on without parts removal. Reading the DATA LIST as the first step of troubleshooting is one method to shorten labor time.

(a) Turn the ignition switch off.
(b) Connect the hand–held tester to the DLC3.
(c) Turn the ignition switch to the ON position.
(d) Push the "ON" button of the hand–held tester.
(e) Select the item "DIAGNOSIS / OBD/MOBD / DATA LIST".
(f) According to the display on tester, read the "DATA LIST".

Item	Measurement Item/ Range (display)	Normal Condition
STOP LIGHT SW	Stop light SW Status/ ON or OFF	• Brake Pedal is depressed: ON • Brake Pedal is released: OFF

1 INSPECT STOP LAMP SWITCH ASSY



(a) Remove the stop lamp switch assy.
(b) Measure the resistance according to the value(s) in the table below.

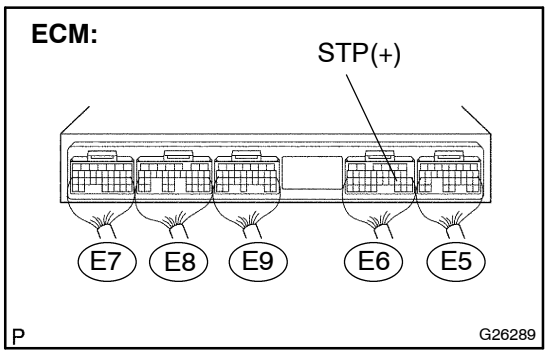
Standard:

Switch position	Tester Connection	Specified Condition
Switch pin free	1 – 2	10 kΩ or higher
Switch pin pushed in	↑	Below 1 Ω
Switch pin free	3 – 4	Below 1 Ω
Switch pin pushed in	↑	10 kΩ or higher

NG → REPLACE STOP LAMP SWITCH ASSY

OK

2 CHECK HARNESS AND CONNECTOR (STOP LAMP SWITCH ASSY – ECM)



(a) Install the stop lamp switch assy.
(b) Measure the voltage according to the value(s) in the table below when the brake pedal is depressed and released.

Standard:

Condition	Tester Connection	Specified Condition
Brake pedal is depressed	E6 – 19 (STP) – Body ground	10 to 14 V
Brake pedal is released	↑	Below 1 V

NG → REPAIR OR REPLACE HARNESS OR CONNECTOR (SEE PAGE 01–33)

OK

REPLACE ECM (SEE PAGE 10–13)