

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 does not turn off even once the vehicle is driven (2-trip detection logic).	<ul style="list-style-type: none"> • Short in stop light switch signal circuit • Stop light switch • ECM

MONITOR DESCRIPTION

The circuit prevents the engine from stopping when the vehicle is stopped by sudden braking when the torque converter clutch is in the "lock-up" mode. The ECM receives the signal from the stop light switch at the time brake pedal is depressed. Then, the ECM sends the signal to the lock-up solenoid valve not to be in lock-up condition. 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. The vehicle must stop and go (3 km/h (2 mph) to 30 km/h (19 mph)) ten times for two driving cycles in order to detect malfunction.

MONITOR STRATEGY

Related DTCs	P0724	Stop light switch/Range check Stop light switch/Rationality
Required sensors/Components	Stop light switch	
Frequency of operation	Continuous	
Duration	Go and stop 10 times or more	
MIL operation	2 driving cycles	
Sequence of operation	None	

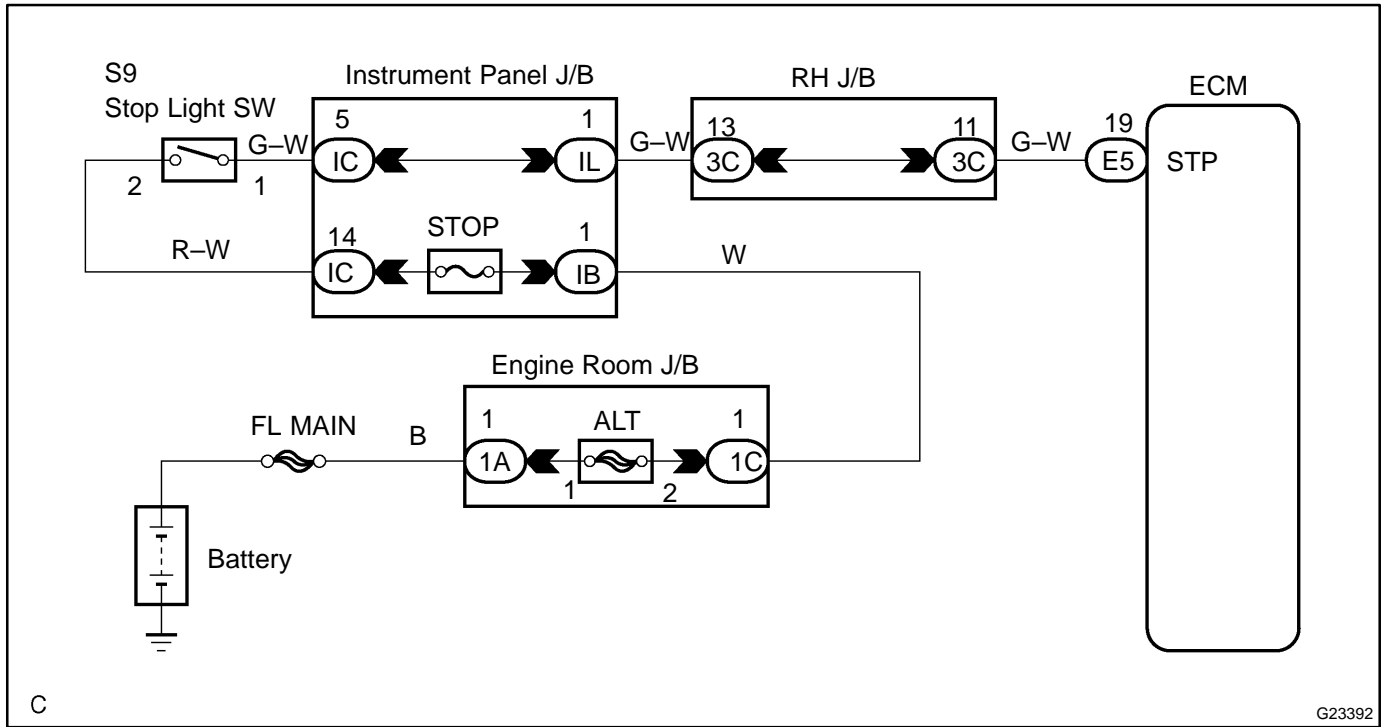
TYPICAL ENABLING CONDITION

Item	Specification	
	Minimum	Maximum
The monitor will run whenever the following DTCs are not present.	See page 05-369	
Number of "Go" and "Stop" defined as follows	10 times	
"Go"	30 km/h (19 mph) or more	-
"Stop"	-	Less than 3 km/h (2 mph)

TYPICAL MALFUNCTION THRESHOLDS

Detection criteria	Threshold
Switch status	ON stuck

WIRING DIAGRAM



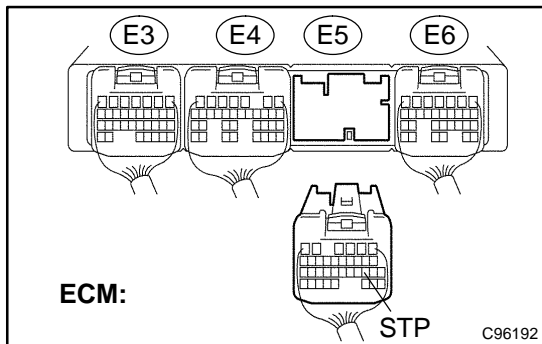
INSPECTION PROCEDURE

1 INSPECT STOP LAMP SWITCH ASSY (See page 65-7)

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) Disconnect the ECM connector.
- (c) 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	E5 – 19 (STP) – Body ground	10 to 14 V
Brake pedal is released		Below 1 V

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR (See page 01-30)**

OK

REPLACE ECM (See page 10-11)