

**DTC****P0724****Brake Switch "B" Circuit High****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 Detection Conditions  | Trouble Areas   |
|---------|---|---|
| P0724   | The stop light switch remains ON even when the vehicle repeats 5 cycles of STOP (less than 1.86 mph (3 km/h)) and GO (18.65 mph (30 km/h) or more) (2 trip detection logic) | <ul style="list-style-type: none"> <li>• Short in stop light switch signal circuit</li> <li>• Stop light switch</li> <li>• ECM</li> </ul> |

**ES****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 1.86 mph (3 km/h)) and go (18.65 mph (30 km/h) or more) 5 times during 2 driving cycles, in order to detect a malfunction.

**MONITOR STRATEGY**

|                                       |  |
|---------------------------------------|--|
| Related DTCs                          | P0724: Stop light switch/Range check/Rationality |
| Required sensors/Components (Main)    | Stop light switch                                |
| Required sensors/Components (Related) | Speed sensor                                     |
| Frequency of Operation                | Continuous                                       |
| Duration                              | 5 times  |
| MIL Operation                         | 2 driving cycles                                 |
| Sequence of Operation                 | None   |

**TYPICAL ENABLING CONDITIONS**

The stop light switch remains ON during GO and STOP 5 times.

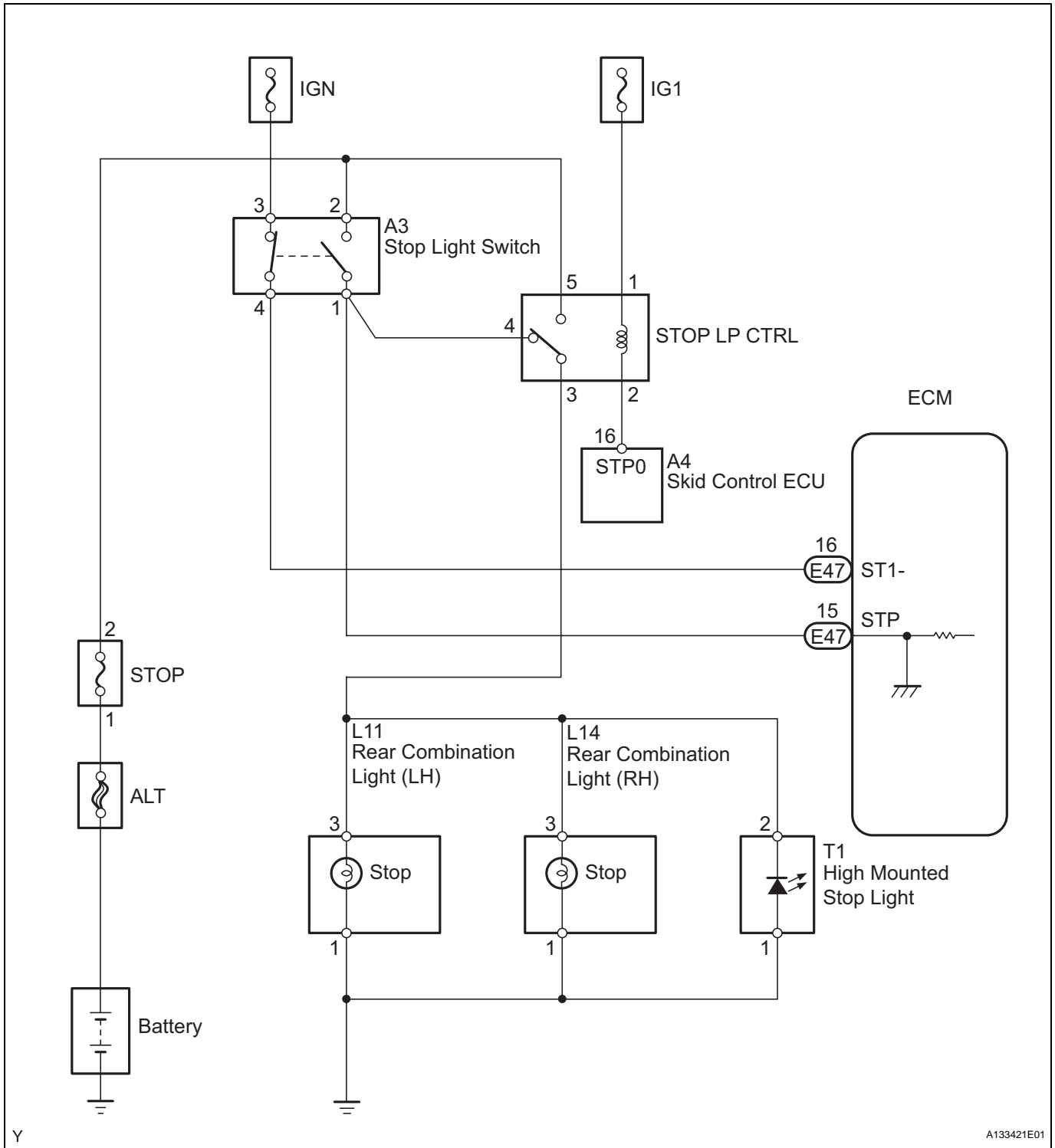
**GO and STOP are defined as follows;**

|  |                             |
|--|-----------------------------|
| Monitor will run whenever following DTCs not present | None                        |
| GO: Vehicle speed                                    | 18.65 mph (30 km/h) or more |
| STOP: Vehicle speed                                  | Less than 1.86 mph (3 km/h) |

**TYPICAL MALFUNCTION THRESHOLDS**

|                          |          |
|--------------------------|----------|
| Stop light switch status | Stuck ON |
|--------------------------|----------|

**WIRING DIAGRAM**



**ES**

**INSPECTION PROCEDURE**

**HINT:**

Read freeze frame data using an intelligent tester. Freeze frame data record the engine condition when malfunctions are detected. When troubleshooting, freeze frame data can help determine if the vehicle was moving or stationary, if the engine was warmed up or not, if the air-fuel ratio was lean or rich, and other data, from the time the malfunction occurred.

**1 READ VALUE USING INTELLIGENT TESTER (STOP LIGHT SW)**

- (a) Connect an intelligent tester to the DLC3.
- (b) Turn the ignition switch ON and turn the tester ON.
- (c) Select the following menu items: DIAGNOSIS / ENHANCED OBD II / DATA LIST / PRIMARY / STOP LIGHT SW.
- (d) Read the values displayed on the tester.

OK

| Item          | Measurement Item: Range (display)      | Normal Condition   |
|---------------|--|--|
| STOP LIGHT SW | Stop light switch status:<br>ON or OFF | <ul style="list-style-type: none"> <li>• ON: Brake pedal is depressed</li> <li>• OFF: Brake pedal is released</li> </ul> |

ES

OK → CHECK FOR INTERMITTENT PROBLEMS

NG

**2 INSPECT STOP LIGHT SWITCH ASSEMBLY (See page ES-254)**

NG → REPLACE STOP LIGHT SWITCH ASSEMBLY (See page LI-111)

OK

**3 CHECK HARNESS AND CONNECTOR (STOP LIGHT SWITCH - ECM) (See page ES-255)**

NG → REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPLACE ECM (See page ES-446)