

## ABS Warning Light Remains ON

### DESCRIPTION

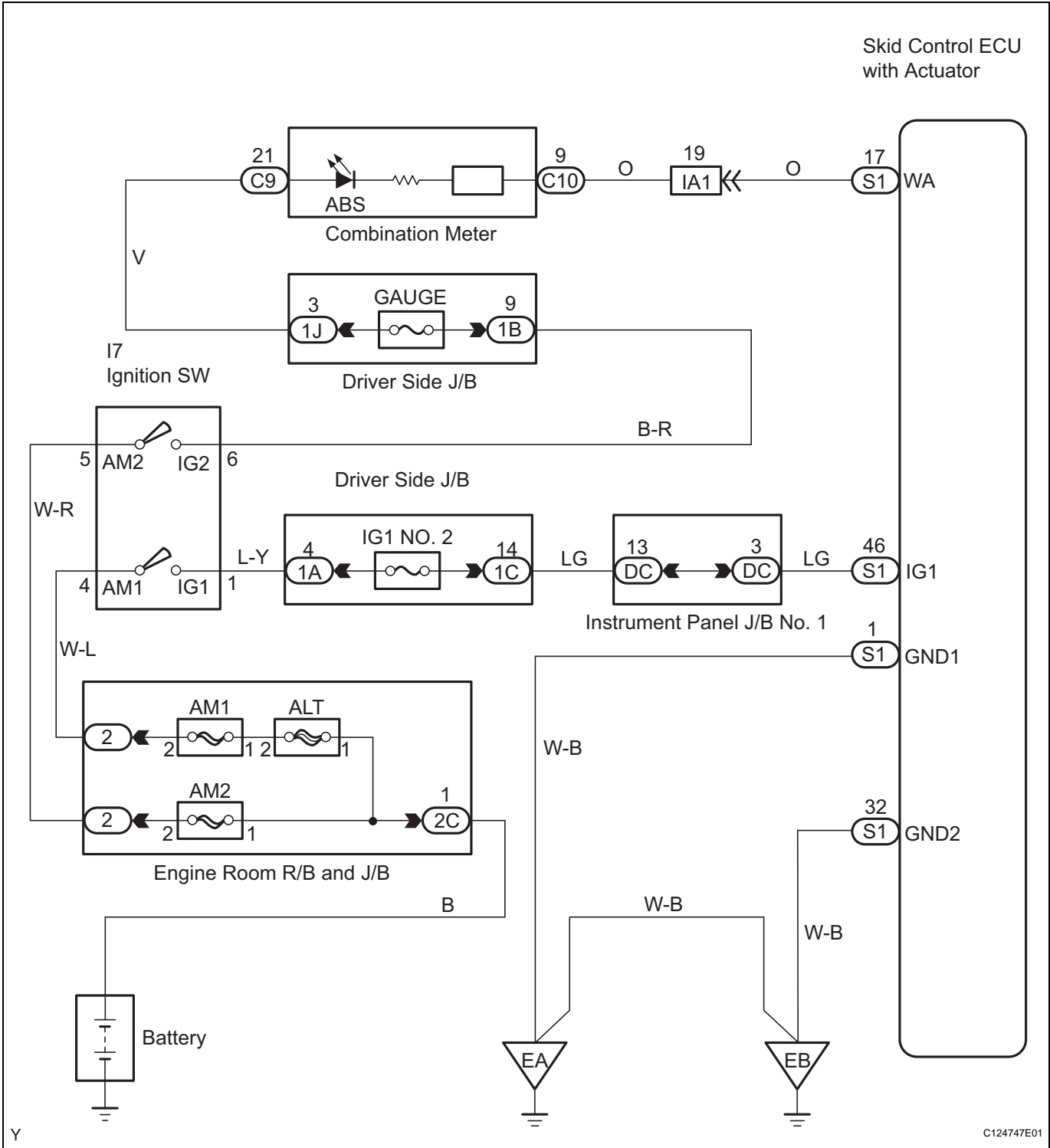
If any of the following is detected, the ABS warning light remains ON.

1. The skid control ECU connectors are disconnected from the skid control ECU.
2. There is a malfunction in the skid control ECU internal circuit.
3. There is an open in the harness between the combination meter and skid control ECU.

### HINT:

- When reading DTCs by SST (CHECK WIRE), if the ABS warning light remains on, troubleshoot by following the inspection flow.
- The intelligent tester may not be usable when there is a malfunction in the skid control ECU.

WIRING DIAGRAM



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C124747E01

**1 CHECK DTC**

(a) Check if DTCs for ABS are recorded.

Result	Proceed to
Normal system code output	A
DTC output	B

Result	Proceed to
Other than above	C

**B** REPAIR CIRCUITS INDICATED BY OUTPUT DTCS

**C** Go to step 4

**A**

**2 CHECK REAR DIFFERENTIAL LOCK SWITCH CONDITION**

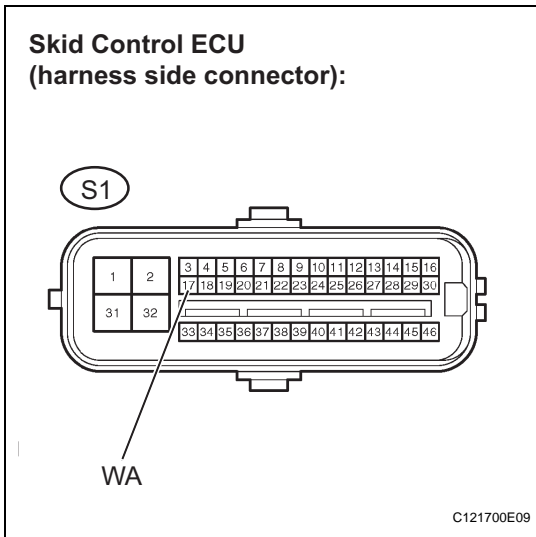
HINT:  
Only for vehicles with rear differential locks.  
(a) Check the rear diff. lock switch condition.

Result	Proceed to
Rear diff. lock switch OFF	A
Rear diff. lock switch ON	B

**NG** SWITCH REAR DIFFERENTIAL LOCK SWITCH TO OFF (AFTER THIS FOLLOW TO STEP 3)

**OK**

**3 CHECK ABS WARNING LIGHT**



- (a) Disconnect the skid control ECU connector.
- (b) Turn the ignition switch to the ON position.
- (c) Ground terminal WA of the skid control ECU.
- (d) Check ABS warning light.

**OK**

WA - GND Condition	Illumination Condition
Connecting	OFF
Disconnecting	ON

- (e) Turn the ignition switch to OFF.
- (f) Reconnect the skid control ECU connector.

**NG** REPAIR COMBINATION METER SYSTEM

**OK**

**REPLACE BRAKE ACTUATOR**

**4 INSPECT SKID CONTROL ECU (IG1 TERMINAL VOLTAGE)**

- (a) When using intelligent tester:

**BC**

- (1) Connect the intelligent tester to the DLC3.
- (2) Start the engine.
- (3) Turn the intelligent tester ON.
- (4) Select the DATA LIST mode on the intelligent tester.
- (5) Measure the voltage output from the ECU displayed on the intelligent tester.

Item	Measurement Item / Range (Display)	Normal Condition	Diagnostic Note
IG VOLTAGE	ECU power supply voltage / TOO LOW / NORMAL / TOO HIGH	TOO HIGH: 14 V or more NORMAL: 9.5 to 14V TOO LOW: Below 9.5 V	-

**OK:**

**"Normal" is displayed.**

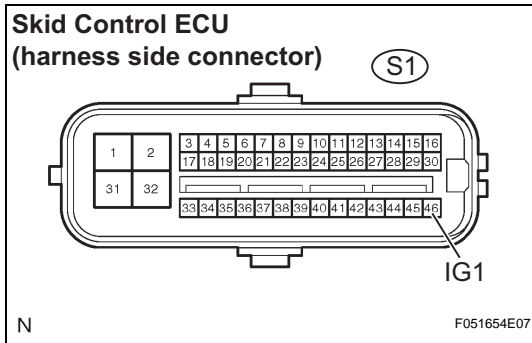
(b) When not using intelligent tester:

- (1) Disconnect the skid control ECU connector.
- (2) Turn the ignition switch to the ON position.
- (3) Measure the voltage.

**Standard Voltage**

Tester Connection	Specified Condition
A9-46 (IG1) - Body ground	11 to 14 V

- (4) Turn the ignition switch to OFF.
- (5) Reconnect the skid control ECU connector.



**NG** →

**REPAIR OR REPLACE HARNESS OR CONNECTOR**

**OK**

**BC**

**REPLACE BRAKE ACTUATOR**