

CIRCUIT DESCRIPTION

Connect terminals Tc and E₁ of the DLC1, or terminals Tc and CG of the DLC3 to make the ABS warning light blink and output the DTC.

The diagram illustrates the electrical connections for the ABS & TRAC system. It is divided into three main sections:

- Engine Room R/B No. 3:** Contains the **ABS & TRAC Solenoid Relay** and the **ABS & TRAC Actuator**. The solenoid relay is connected to the battery (terminals 1, 2, 3, 4, 5, 6) and has three output lines (3, 3, 3) leading to the ECU. The actuator is connected to the ECU (terminals 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100) and has two ground connections (EA, EB).
- Instrument Panel J/B:** Contains the **GAUGE** (terminals 1D, 2) and the **ABS Warning Light** (terminals 3, 7). The gauge is connected to the battery (terminals 1, 2, 3, 4, 5, 6) and has two output lines (3, 3) leading to the ECU. The warning light is connected to the ECU (terminals 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100) and has two ground connections (EA, EB).
- ABS & TRAC ECU:** The central control unit, connected to the solenoid relay, actuator, gauge, and warning light. It has multiple terminals (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100) and is connected to the battery (terminals 1, 2, 3, 4, 5, 6) and ground (terminals 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100).

Troubleshoot in accordance with the chart below for each trouble symptom.

ABS warning light does not light up	Go to step 1
ABS warning light remains on	Go to step 3

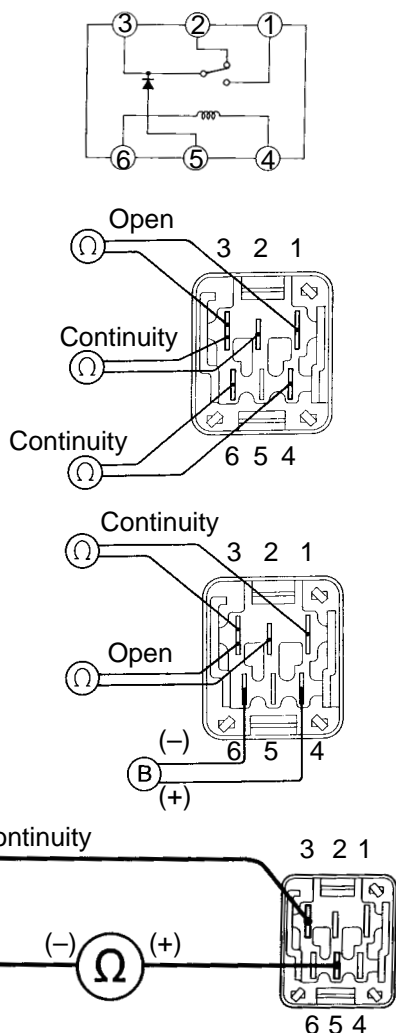
1	Check ABS warning light.
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See the combination meter troubleshooting on page [BE-65](#).

Repair bulb or combination meter assembly
(See page [BE-96](#)).

OK

2 Check ABS & TRAC solenoid relay.

**PREPARATION:**

Remove the ABS & TRAC solenoid relay from the engine room R/B No. 3.

CHECK:

Check the continuity between each terminal of the ABS & TRAC solenoid relay.

OK:

Terminals 4 and 6	Continuity (Reference value 80 Ω)
Terminals 2 and 3	Continuity
Terminals 1 and 3	Open

CHECK:

- Apply battery positive voltage between terminals 4 and 6.
- Check the continuity between each terminal of the ABS & TRAC solenoid relay.

OK:

Terminals 2 and 3	Open
Terminals 1 and 3	Continuity

CHECK:

- Connect the positive (+) test lead to terminal 5 and the negative (-) lead to terminal 3.
- Check continuity between the terminals.

OK:**Continuity**

If there is no continuity, connect the negative (-) test lead to terminal 5 and the positive (+) lead to terminal 3. Check continuity between terminals.

NG

Replace ABS & TRAC solenoid relay.

OK

Check for open circuit in harness and connector between DLC1, ABS & TRAC solenoid relay and body ground (See page [IN-31](#)).

3 Is DTC output?

Check the DTC on page [DI-368](#).

YES

Repair circuit indicated by code output.

NO**4 Does ABS warning light go off?****NO**

Check for short circuit in harness and connector between ABS warning light, DLC1 and ABS & TRAC ECU (See page [IN-31](#)).

YES**5 Check ABS & TRAC solenoid relay (See step 2).****NG**

Replace ABS & TRAC solenoid relay.

OK

Check for short circuit in harness and connector between DLC1 and ABS & TRAC solenoid relay (See page [IN-31](#)).