

DTC 31, 32, 33, 34, 35, 36, 37, 38: Solenoid

- With the ignition switch ON (II), the ABS indicator does not go off.
- With the SCS service connector connected (see page 19-119), DTCs 31 - 38 are indicated.

Problem verification:

1. Turn the ignition switch OFF, then turn the ignition switch ON (II) again.
2. Verify the DTC.

Is DTC 54 indicated?

YES

Perform the appropriate troubleshooting for DTC 54.

NO

Check for a short to body ground in the solenoid circuit:

1. Turn the ignition switch OFF.
2. Disconnect the modulator unit connector and the ABS control unit 12P connector.
3. Check for continuity between the appropriate ABS control unit 12P connector solenoid circuit terminal and body ground (see table).

DTC	Appropriate Terminal
31: FR-IN	No. 11
32: FR-OUT	No. 6
33: FL-IN	No. 9
34: FL-OUT	No. 4
35: RR-IN	No. 8
36: RR-OUT	No. 3
37: RL-IN	No. 10
38: RL-OUT	No. 5

Is there continuity?

YES

Repair short to body ground in the appropriate solenoid circuit wire between the ABS control unit and the modulator unit.

NO

Check for a short to body ground in the solenoid:

1. Connect the modulator unit connector.
2. Check for continuity between the appropriate ABS control unit 12P connector solenoid circuit terminal and body ground (see table).

Is there continuity?

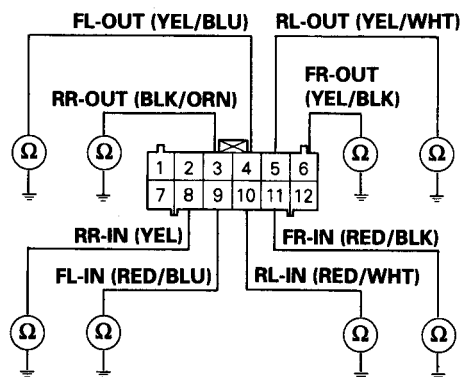
YES

Replace the modulator unit.

NO

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ABS CONTROL UNIT 12P CONNECTOR



Wire side of female terminals

(cont'd)

Troubleshooting

DTC 31, 32, 33, 34, 35, 36, 37, 38: Solenoid (cont'd)

(From page 19-129)

Check for an open in the solenoid circuit:

1. Disconnect the modulator unit connector.
2. Connect the appropriate solenoid circuit terminal to body ground with a jumper wire (see table).
3. Check for continuity between the appropriate ABS control unit 12P connector solenoid circuit terminal and body ground (see table).

Is there continuity?

NO

Repair open in the appropriate solenoid circuit wire between the ABS control unit and the modulator unit.

YES

Check for an open in the solenoid:

1. Remove the jumper wire from the modulator unit connector.
2. Connect the modulator unit connector.
3. Connect the fail-safe relay connector terminal No. 1 to body ground with a jumper wire.
4. Check the resistance between the appropriate ABS control unit 12P connector terminal and body ground (see table).

Wire colors of fail-safe relay connector:
BRN/BLK, WHT/GRN, BLK, YEL/GRN

Is the resistance OK?
IN: 8-10 Ω (at 20°C, 68°F)
OUT: 3-5 Ω (at 20°C, 68°F)

NO

Replace the modulator unit.

YES

Check for a short to another wire in the solenoid circuit:

1. Disconnect the modulator unit connector.
2. Check for continuity between the appropriate ABS control unit 12P connector terminal and all other solenoid circuit terminals (see table).

Is there continuity?

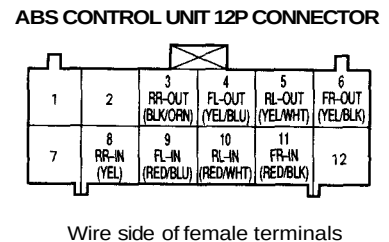
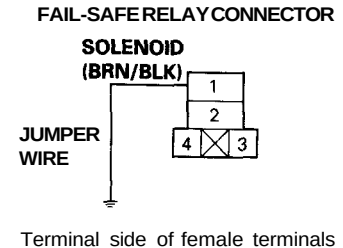
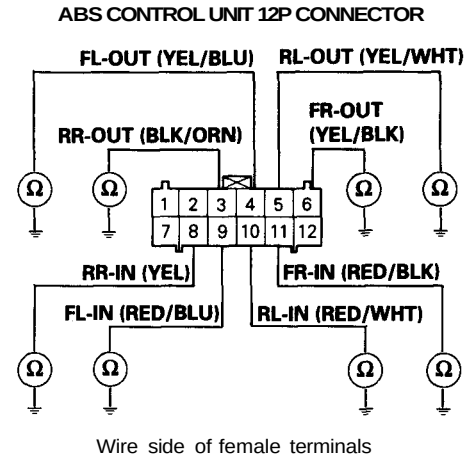
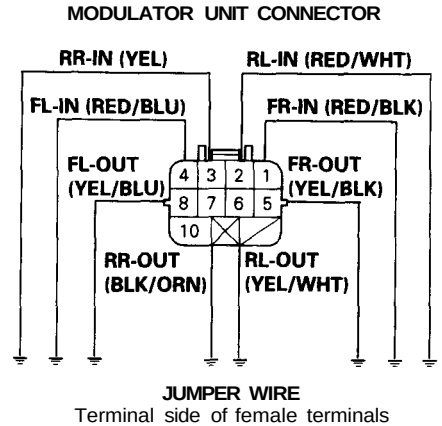
YES

Replace the modulator unit.

NO

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DTC	Appropriate Terminal	
	ABS control unit 12P connector	Modulator unit connector
31: FR-IN	No. 11	No. 1
32: FR-OUT	No. 6	No. 5
33: FL-IN	No. 9	No. 4
34: FL-OUT	No. 4	No. 8
35: RR-IN	No. 8	No. 3
36: RR-OUT	No. 3	No. 7
37: RL-IN	No. 10	No. 2
38: RL-OUT	No. 5	No. 6





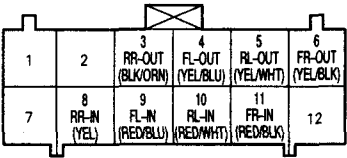
(From page 19-130)

Check for a short to another wire in the solenoid:

- 1. Connect the modulator unit connector.
- 2. Check for continuity between the appropriate ABS control unit 12P connector terminal and all other solenoid circuit terminals (see table).

DTC	Appropriate Terminal
31: FR-IN	No. 11
32: FR-OUT	No. 6
33: FL-IN	No. 9
34: FL-OUT	No. 4
35: RR-IN	No. 8
36: RR-OUT	No. 3
37: RL-IN	No. 10
38: RL-OUT	No. 5

ABS CONTROL UNIT 12P CONNECTOR



Wire side of female terminals

