

Troubleshooting

Front Fail-safe Relay

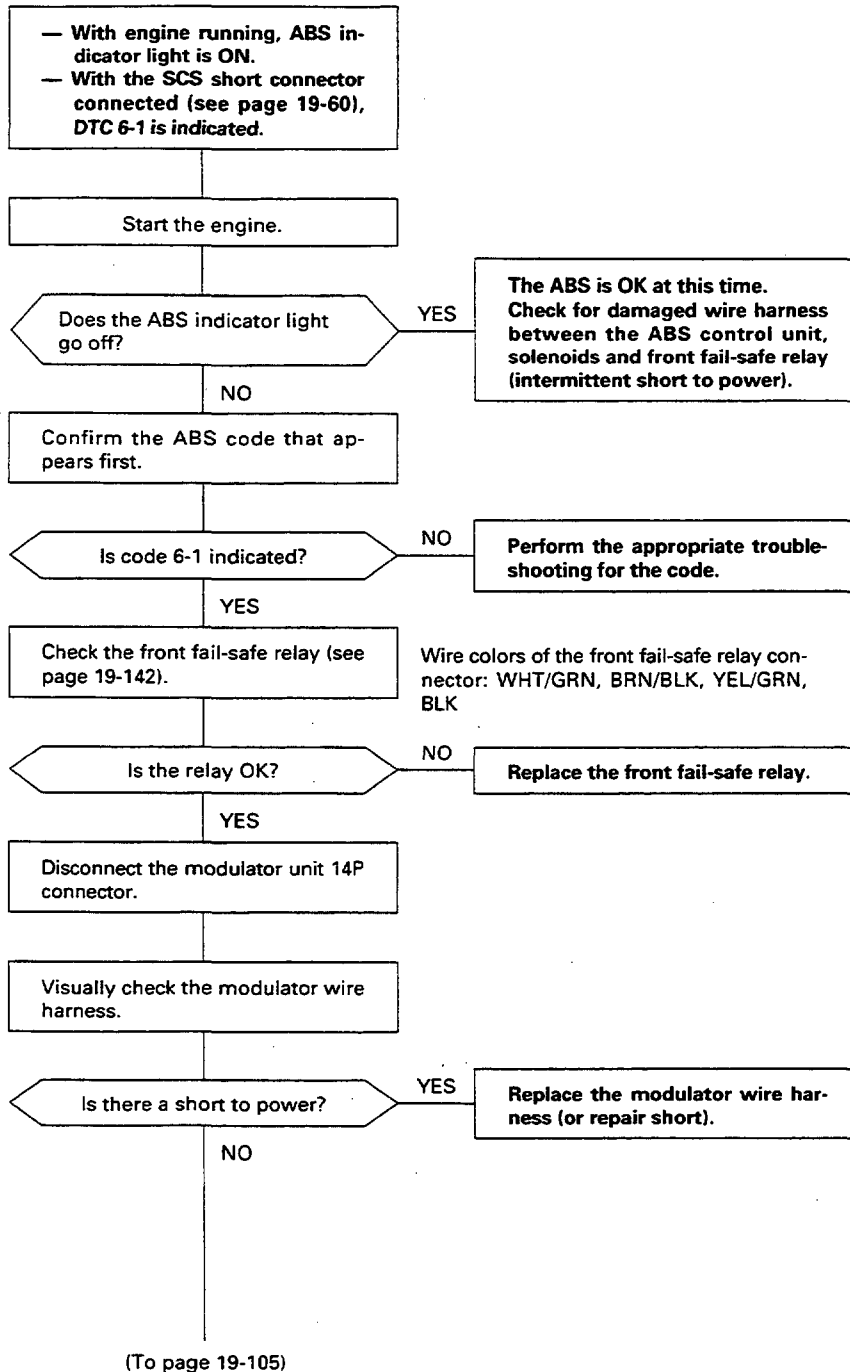
Diagnostic Trouble Code (DTC) 6-1: Front Fail-safe Relay Diagnosis

The ABS control unit monitors the voltage from the battery for the six solenoids during the initial diagnosis when the fail-safe relays are OFF.

The ABS control unit keeps the ABS indicator light on if it detects battery voltage at the front solenoid circuits.

Possible causes:

- Front fail-safe relay stuck ON
- Short to power in the solenoid drive circuits between the front fail-safe relay and ABS control unit



(From page 19-104)

Start the engine.

Measure the voltage between the front fail-safe relay connector No. 3 (BRN/BLK) terminal and body ground.

NOTE: The fail-safe relays are OFF when the ABS indicator light is kept on.

Is there battery voltage?

YES

Repair short to power in the BRN/BLK wire between the front fail-safe relay and modulator unit.

NO

Turn the ignition switch OFF.

Disconnect the ABS control unit 26P connector.

Start the engine.

Measure the voltage between the ABS control unit 26P connector No. 2 (RED/BLK) terminal and body ground.

NOTE: Check with the modulator unit 14P connector disconnected.

Is there battery voltage?

YES

Repair short to power in the RED/BLK wire between the ABS control unit and modulator unit.

NO

Measure the voltage between the ABS control unit 26P connector No. 1 (RED/BLU) terminal and body ground.

Is there battery voltage?

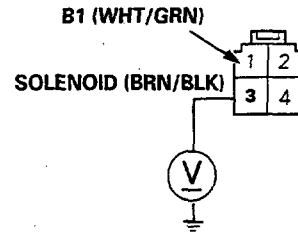
YES

Repair short to power in the RED/BLU wire between the ABS control unit and modulator unit.

NO

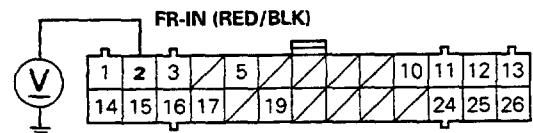
(To page 19-106)

FRONT FAIL-SAFE RELAY CONNECTOR

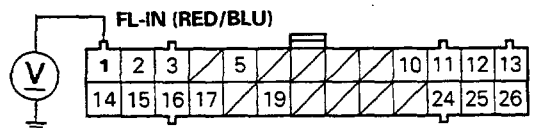


WIRE SIDE OF FEMALE TERMINALS

ABS CONTROL UNIT 26P CONNECTOR



WIRE SIDE OF FEMALE TERMINALS



(cont'd)

Troubleshooting

Front Fail-safe Relay (cont'd)

(From page 19-105)

Measure the voltage between the ABS control unit 26P connector No. 15 (YEL/BLK) terminal and body ground.

Is there battery voltage?

YES

Repair short to power in the YEL/BLK wire between the ABS control unit and modulator unit.

NO

Measure the voltage between the ABS control unit 26P connector No. 14 (YEL/BLU) terminal and body ground.

Is there battery voltage?

YES

Repair short to power in the YEL/BLU wire between the ABS control unit and modulator unit.

NO

Check for loose ABS control unit connectors. If necessary, substitute a known-good ABS control unit and recheck.

ABS CONTROL UNIT 26P CONNECTOR

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

FR-OUT (YEL/BLK)



WIRE SIDE OF FEMALE 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

FL-OUT (YEL/BLU)

