

## Diagnostic Trouble Code (DTC) 7-1 and 7-2: Front Solenoid Related Problem

**CAUTION:** Use only the digital multimeter to check the system.

### Pre-test steps:

- Check ABS B1 (15 A) fuse and ABS B3 (15 A) fuse in the under-hood fuse/relay box.
- Check for loose under-hood fuse/relay box connectors.

— With engine running, ABS indicator light is ON.  
— With service check connector jumped (see page 19-51), DTCs 7-1 and/or 7-2 are indicated.

Disconnect the solenoid connector.

Check for resistance between the solenoid connector terminals:  
No.1 (RED/BLK) and No.4 (BRN/BLK): Front Right Inlet  
No.3 (RED/BLU) and No.6 (BRN/BLU): Front Left Inlet

Is there 1-3Ω?

NO

Faulty solenoid.  
Replace the modulator unit.

YES

Check for resistance between the solenoid connector terminals:  
No.8 (YER/BLK) and No.4 (BRN/BLK): Front Right Outlet  
No.10 (YER/BLU) and No.6 (BRN/BLU): Front Left Outlet

Is there 1-3Ω?

NO

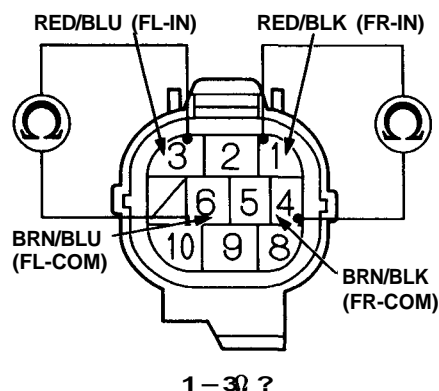
Faulty solenoid.  
Replace the modulator unit.

YES

Disconnect the 12P (cars with TCS: 14P) connector from the ABS control unit.

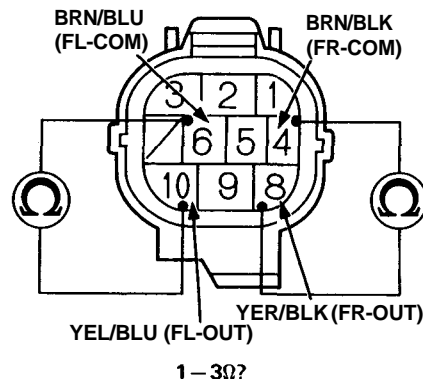
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SOLENOID CONNECTOR



View from terminal side.

SOLENOID CONNECTOR



View from terminal side.

(cont'd)

# Troubleshooting

## Flowcharts (cont'd)

(From page 19-71)

Check each wire for continuity between the ABS control unit and front solenoid:

RED/BLK: Front Right Inlet  
YEL/BLK: Front Right Outlet  
RED/BLU: Front Left Inlet  
YEL/BLU: Front Left Outlet

Cars without TCS  
12P CONNECTOR

RED/BLU  
(FL-IN)

12 11  
7 6 5  
3 2 1

YEL/BLU  
(FL-OUT)

Continuity?

SOLENOID CONNECTOR

RED/BLU  
(FL-IN)

RED/BLK  
(FR-IN)  
YEL/BLK  
(FR-OUT)

YEL/BLU  
(FL-OUT)

View from ABS control unit  
terminal side.

View from terminal side.

Cars with TCS  
14P CONNECTOR

RED/BLU  
(FL-IN)

14 13 12  
8 7 6 5 4  
3 2 1

YEL/BLU  
(FL-OUT)

Continuity?

RED/BLU  
(FL-IN)

RED/BLK  
(FR-IN)  
YEL/BLK  
(FR-OUT)

YEL/BLU  
(FL-OUT)

View from ABS control unit  
terminal side.

View from terminal side.

Is there continuity?

NO

Repair open in wire:  
RED/BLK: Front Right Inlet  
YEL/BLK: Front Right Outlet  
RED/BLU: Front Left Inlet  
YEL/BLU: Front Left Outlet

YES

Check each wire for continuity between the ABS control unit and body ground:

RED/BLK: Front Right Inlet  
YEL/BLK: Front Right Outlet  
RED/BLU: Front Left Inlet  
YEL/BLU: Front Left Outlet

Cars without TCS  
12P CONNECTOR

RED/BLU  
(FL-IN) RED/BLK  
(FR-IN)

12 11  
7 6 5  
3 2 1

Continuity?

YEL/BLU  
(FL-OUT) YEL/BLK  
(FR-OUT)

Cars with TCS  
14P CONNECTOR

RED/BLU  
(FL-IN) RED/BLK  
(FR-IN)

14 13 12  
8 7 6 5 4  
3 2 1

Continuity?

YEL/BLU  
(FL-OUT) YEL/BLK  
(FR-OUT)

View from ABS control unit terminal side.

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