

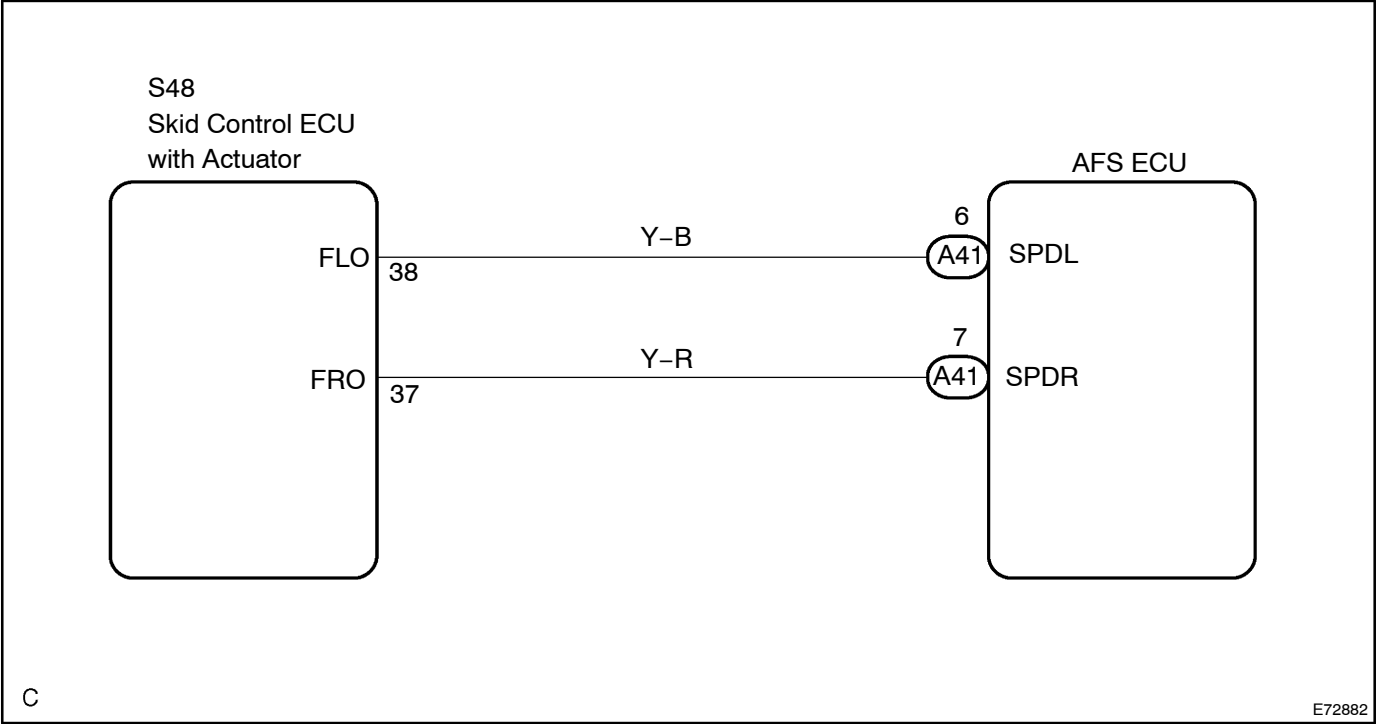
DTC	B2415	VEHICLE SPEED SENSOR MALFUNCTION
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CIRCUIT DESCRIPTION

The AFS ECU receives signals regarding the front wheel speed from the skid control ECU.

DTC No.	DTC Detecting Condition	Trouble Area
B2415	<ul style="list-style-type: none">• Malfunction in skid control ECU• Open or short in vehicle speed sensor circuit	<ul style="list-style-type: none">• Skid control ECU• Wire harness or connector• AFS ECU

WIRING DIAGRAM



INSPECTION PROCEDURE

1 CHECK DTC(ABS WITH EBD & BA & TRC & VSC SYSTEM)

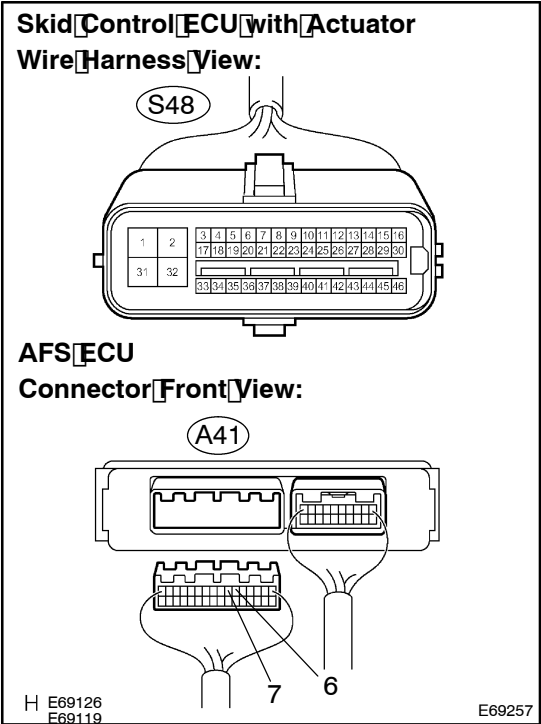
(a) Check the DTC of ABS with EBD & BA & TRC & VSC system (see page 05-400).

OK: Normal system code is output.

NG GO TO FLOW CHART (SEE PAGE 05-409)

OK

2 CHECK HARNESS AND CONNECTOR(SKID CONTROL ECU - AFS ECU)



- (a) Disconnect the skid control ECU connector and A41 connector from the AFS ECU.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

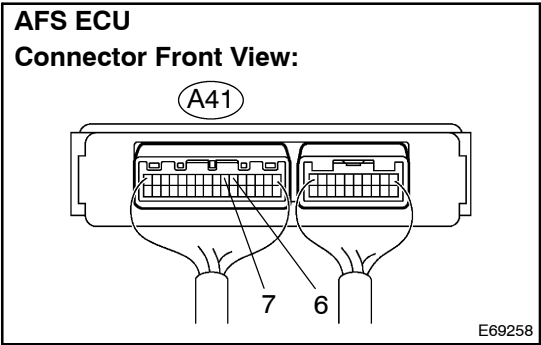
Tester Connection	Condition	Specified Condition
S48-37 (FRO) - A41-7 (SPDR)	Always	Below 1 Ω
S48-38 (FLO) - A41-6 (SPDL)	Always	Below 1 Ω
A41-7 (SPDR) - Body ground	Always	10 kΩ or higher
A41-6 (SPDL) - Body ground	Always	10 kΩ or higher

NG REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

3

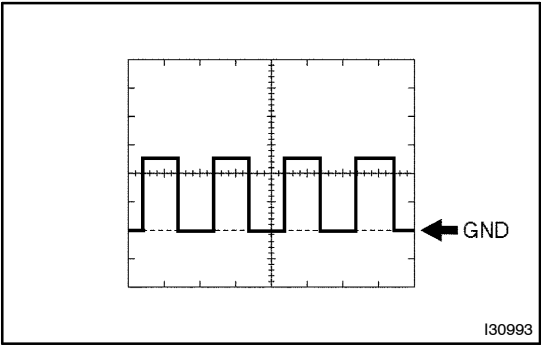
INSPECT AFS ECU



- (a)
- Reconnect the skid control ECU connector and A41 connector to the AFS ECU.
- (b)
- Measure the voltage according to the value(s) in the table below.

Standard:

Tester Connection	Condition	Specified Voltage
A41-6 (SPDL) - Body ground	Vehicle is driving at approx. 30 km/h (19 mph)	0 to 14 V Pulse generation (See waveform 1)
A41-7 (SPDR) - Body ground	Vehicle is driving at approx. 30 km/h (19 mph)	0 to 14 V Pulse generation (See waveform 1)



Waveform1: Oscilloscope wave

HINT:

- Gauge set: 5 V / DIV. 2 ms / DIV
- Condition: Vehicle is driving approximately 30 km/h (19 mph)

OK: Waveform is output as shown in the illustration.

Result:

OK (When checking from the DIAGNOSTICS TROUBLE CODE CHART)	A
OK (When checking from the PROBLEM SYMPTOMS TABLE)	B
NG	C

B

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE
(SEE PAGE 05-1369)

C

REPLACE ABS & TRACTION ACTUATOR ASSY
(SEE PAGE 32-53)

A

REPLACE AFS ECU (SEE PAGE 65-28 OR 65-29)