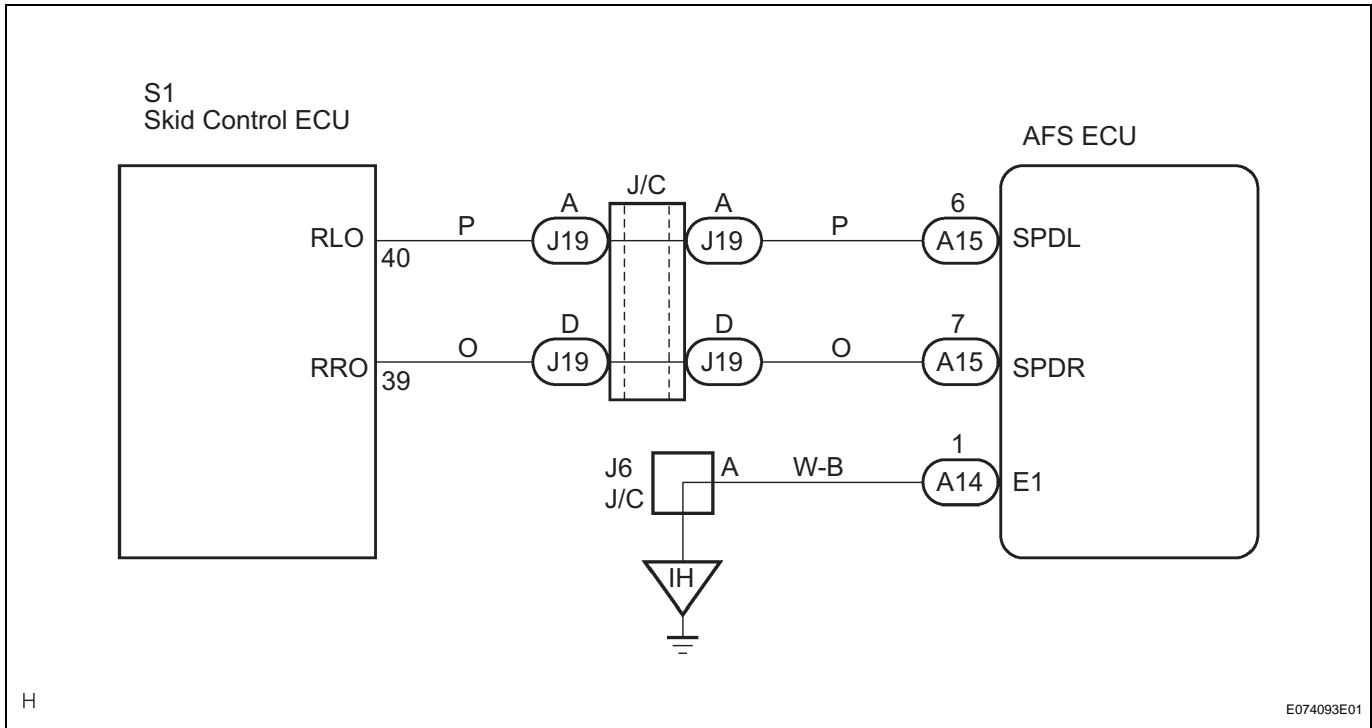| DTC	B2415	Vehicle Speed Sensor Malfunction

DESCRIPTION

The AFS ECU receives the vehicle speed signal of the rear wheels from the skid control ECU.

DTC No.	DTC Detecting Condition	Trouble Area
B2415	• Malfunction of skid control ECU • Open or short of vehicle speed sensor circuit	• Skid control ECU • Harness or connector • AFS ECU

WIRING DIAGRAM

E074093E01

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

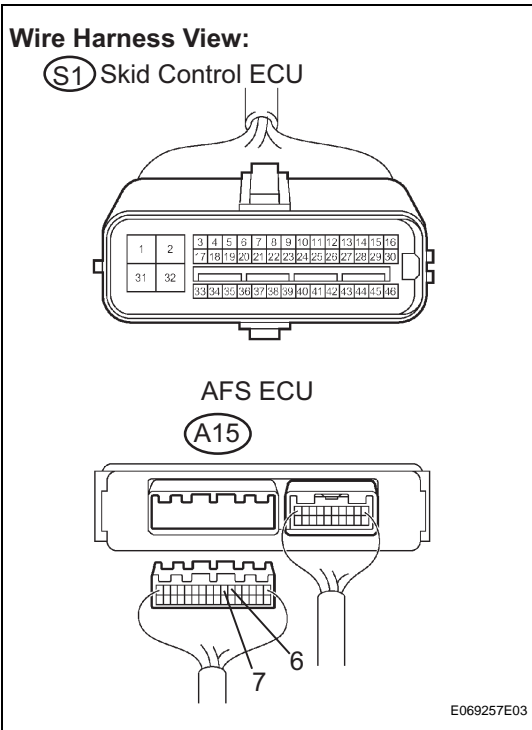(a) Check the DTC of ABS with EBD & BA & TRAC & VSC system (See page BC-16).

OK:

   DTC is not output.

NG > GO TO FLOW CHART

OK

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

Wire Harness View:

S1 Skid Control ECU

AFS ECU

A15

E069257E03

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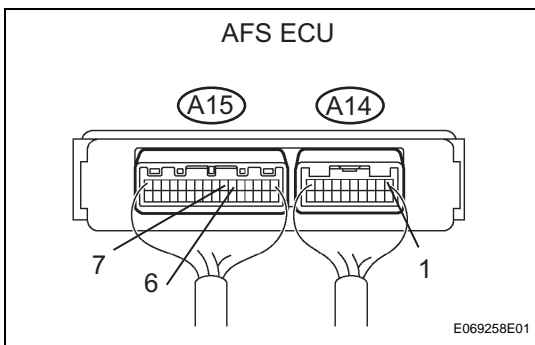(b) Measure the resistance according to the value(s) in the table below.

LI

Resistance

Tester connection	Condition	Specified condition
RRO (S1-39) - SPDR (A15-7)	Always	Below 1 Ω
RLO (S1-40) - SPDL (A15-6)	Always	Below 1 Ω
SPDR (A15-7) - Body ground	Always	10 kΩ or higher
SPDL (A15-6) - Body ground	Always	10 kΩ or higher

NG ▷ | REPAIR OR REPLACE HARNESS OR CONNECTOR |
|---|

OK

3	INSPECT AFS ECU

AFS ECU

A15   A14

E069258E01
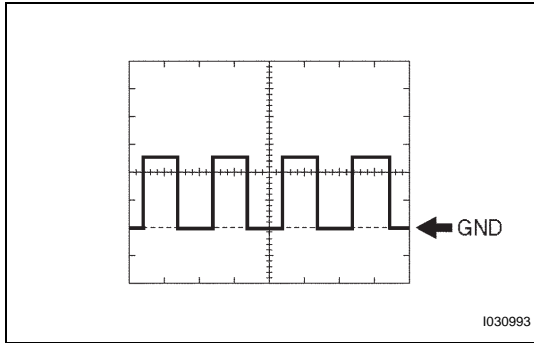
(a) Measure the voltage according to the value(s) in the table below.

Voltage

Tester connection	Condition	Specified condition
SPDL (A15-6) - E1 (A14-1)	Drive at about 30 km/h (19 mph)	0 to 14 V Pulse generation(*1)
SPDR (A15-7) - E1 (A14-1)	Drive at about 30 km/h (19 mph)	0 to 14 V Pulse generation (*1)

I030993

(b) *1: Oscilloscope wave
HINT:
• Gauge set: 5 V/DIV, 2 ms/DIV
• Condition: Drive at about 30 km/h (19 mph)

Result

Condition	Proceed to
OK (When checking from the DTC)	A
OK (When checking from the PROBLEM SYMPTOMS TABLE)	B
NG	C

LI

B ▷ **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

C ▷ **REPLACE ABS AND TRACTION ACTUATOR ASSEMBLY**

A ▽

REPLACE AFS ECU