

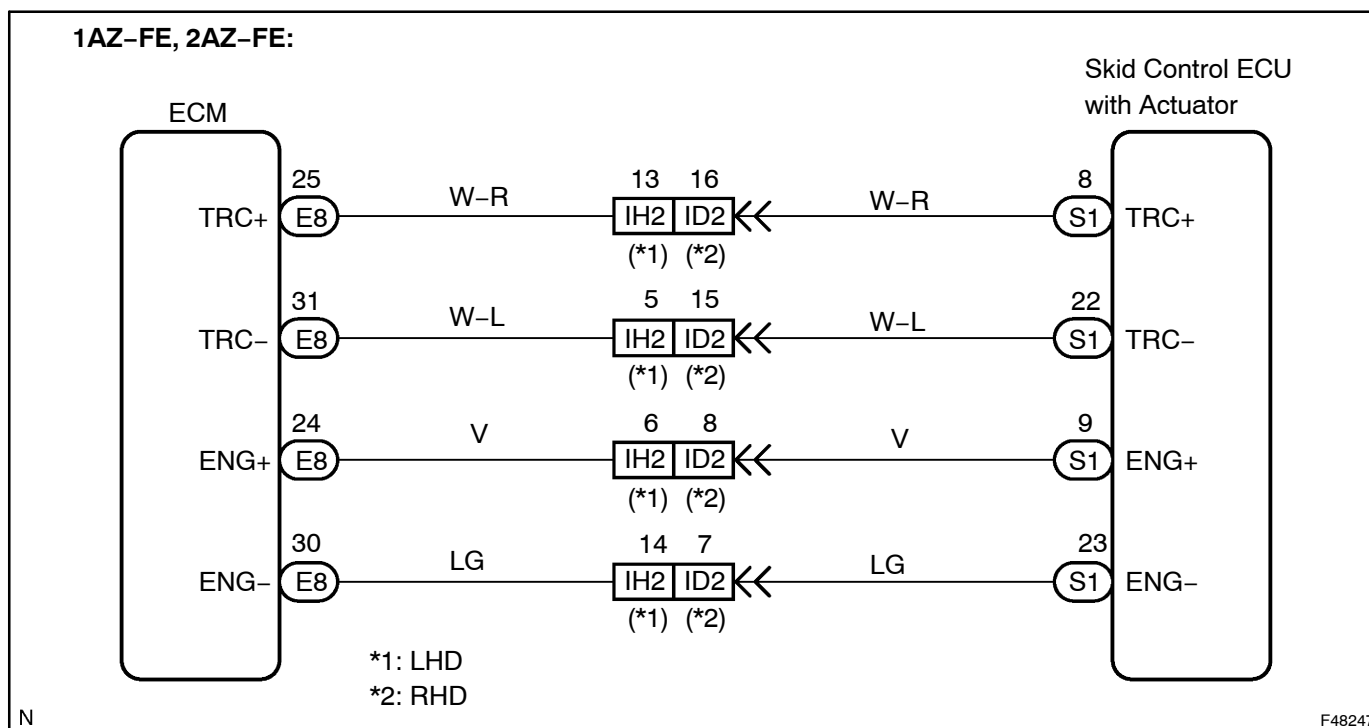
<b>DTC</b>	<b>C1203/53</b>	<b>ECM COMMUNICATION CIRCUIT MALFUNCTION</b>
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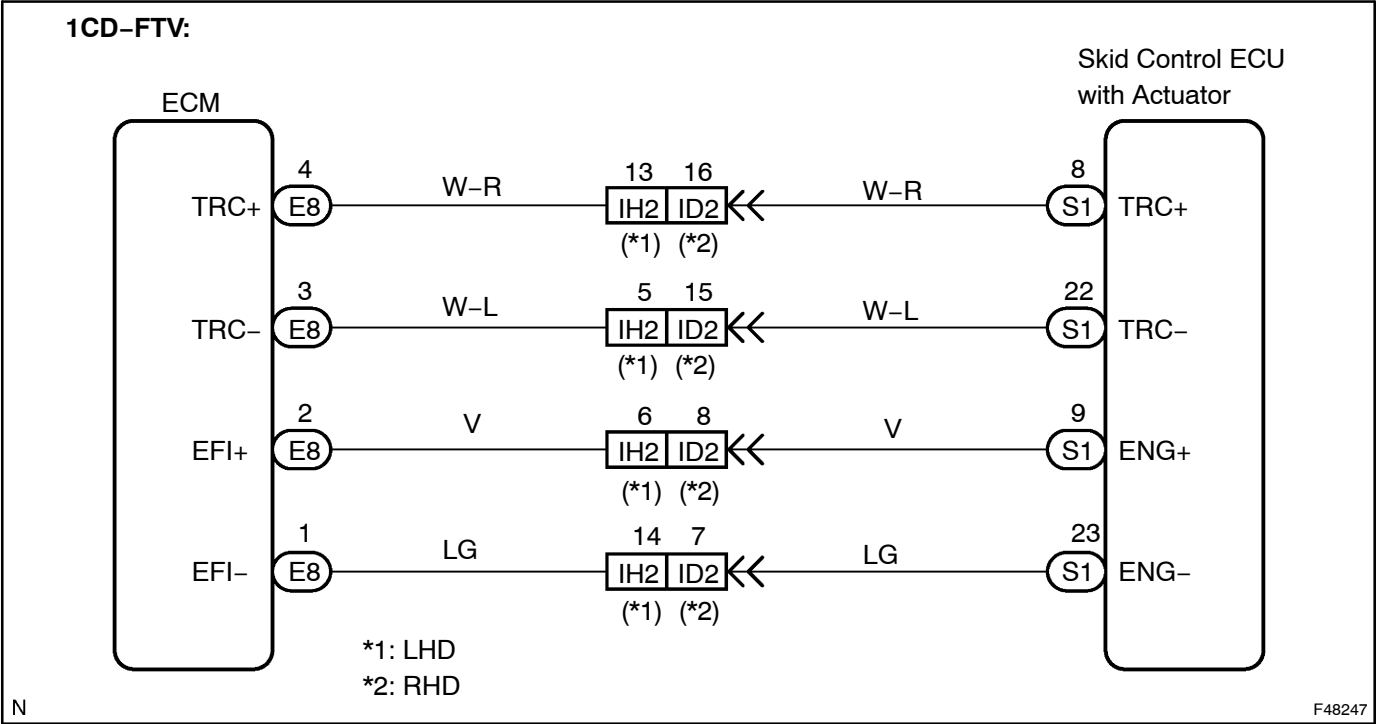
## CIRCUIT DESCRIPTION

The circuit is used to send TRC & VSC control information (engine revolution signal) from the skid control ECU to the ECM (TRC+, TRC-), and engine control information from the ECM to the skid control ECU (ENG+, ENG-).

DTC No.	DTC Detecting Condition	Trouble Area
C1203/53	<p>When any of the following (1 to 3) is detected:</p> <p>(1) All the following conditions continue for at least 5 seconds.</p> <ul style="list-style-type: none"> <li>• IG1 terminal voltage is 9.5 V or more.</li> <li>• Cannot send data to ECM.</li> </ul> <p>(2) All the following conditions continue for at least 5 seconds.</p> <ul style="list-style-type: none"> <li>• IG1 terminal voltage is more than 9.5 V.</li> <li>• Engine speed is 500 rpm or more.</li> <li>• Cannot receive data from ECM.</li> </ul> <p>(3) All the following conditions repeat 10 times in a series.</p> <ul style="list-style-type: none"> <li>• Cannot send data to ECM.</li> <li>• Cannot receive data from ECM.</li> <li>• Both of the above occur at least once within 5 seconds.</li> </ul>	<ul style="list-style-type: none"> <li>• TRC+ or TRC- circuit</li> <li>• ENG+ or ENG- circuit</li> <li>• ECM</li> </ul>

## WIRING DIAGRAM

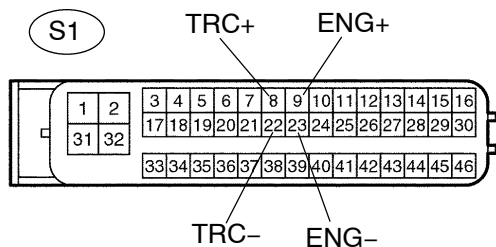




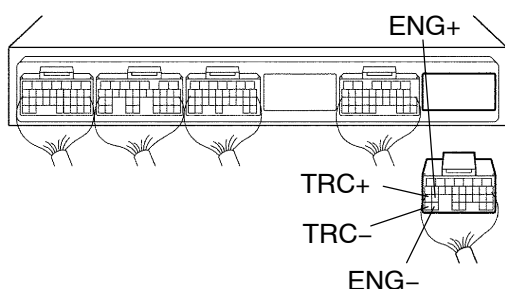
## INSPECTION PROCEDURE

## 1 CHECK HARNESS AND CONNECTOR(ECM - SKID CONTROL ECU)

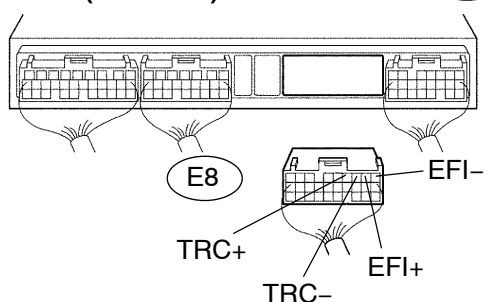
## Skid Control ECU:



## ECM (1AZ-FE, 2AZ-FE):



## ECM (1CD-FTV):



- Disconnect the skid control ECU S1 connector and ECM E8 connector.
- Measure the resistance according to the value(s) in the table below.

## Standard (1AZ-FE, 2AZ-FE):

Tester Connection	Specified Condition
S1-8 (TRC+) - E8-25 (TRC+)	Below 1 $\Omega$
S1-22 (TRC-) - E8-31 (TRC-)	Below 1 $\Omega$
S1-9 (ENG+) - E8-24 (ENG+)	Below 1 $\Omega$
S1-23 (ENG-) - E8-30 (ENG-)	Below 1 $\Omega$
S1-8 (TRC+) - Body ground	10 k $\Omega$ or higher
S1-22 (TRC-) - Body ground	10 k $\Omega$ or higher
S1-9 (ENG+) - Body ground	10 k $\Omega$ or higher
S1-23 (ENG-) - Body ground	10 k $\Omega$ or higher

## Standard (1CD-FTV):

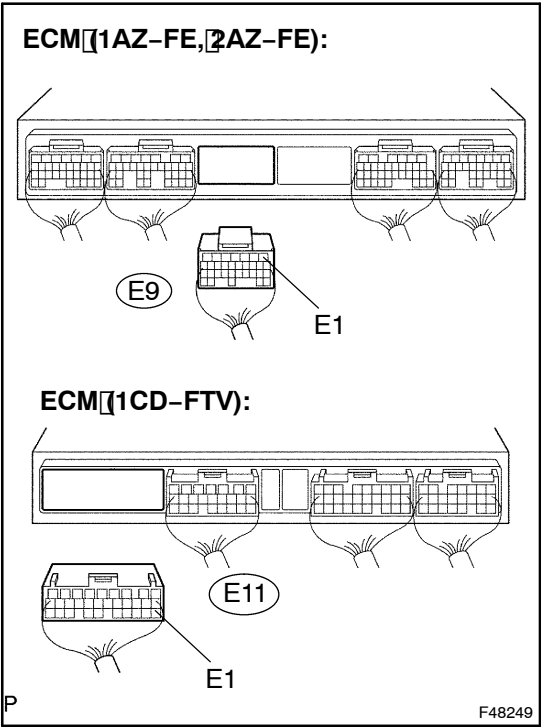
Tester Connection	Specified Condition
S1-8 (TRC+) - E8-4 (TRC+)	Below 1 $\Omega$
S1-22 (TRC-) - E8-3 (TRC-)	Below 1 $\Omega$
S1-9 (ENG+) - E8-2 (EFI+)	Below 1 $\Omega$
S1-23 (ENG-) - E8-1 (EFI-)	Below 1 $\Omega$
S1-8 (TRC+) - Body ground	10 k $\Omega$ or higher
S1-22 (TRC-) - Body ground	10 k $\Omega$ or higher
S1-9 (ENG+) - Body ground	10 k $\Omega$ or higher
S1-23 (ENG-) - Body ground	10 k $\Omega$ or higher

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

2 CHECK HARNESS AND CONNECTOR (ECM - BODY GROUND)



- (a) Disconnect the ECM E9 or E11 connector.  
(b) Measure the resistance according to the value(s) in the table below.

Standard (1AZ-FE, 2AZ-FE):

Tester Connection	Specified Condition
E9-1 (E1) - Body Ground	Below 1 Ω

Standard (1CD-FTV):

Tester Connection	Specified Condition
E11-22 (E1) - Body Ground	Below 1 Ω

NG REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPLACE ABS & TRACTION ACTUATOR ASSY (SEE PAGE 32-20)

NOTICE:  
When replacing the ABS & TRACTION actuator assy, perform zero point calibration (see page 05-610).