

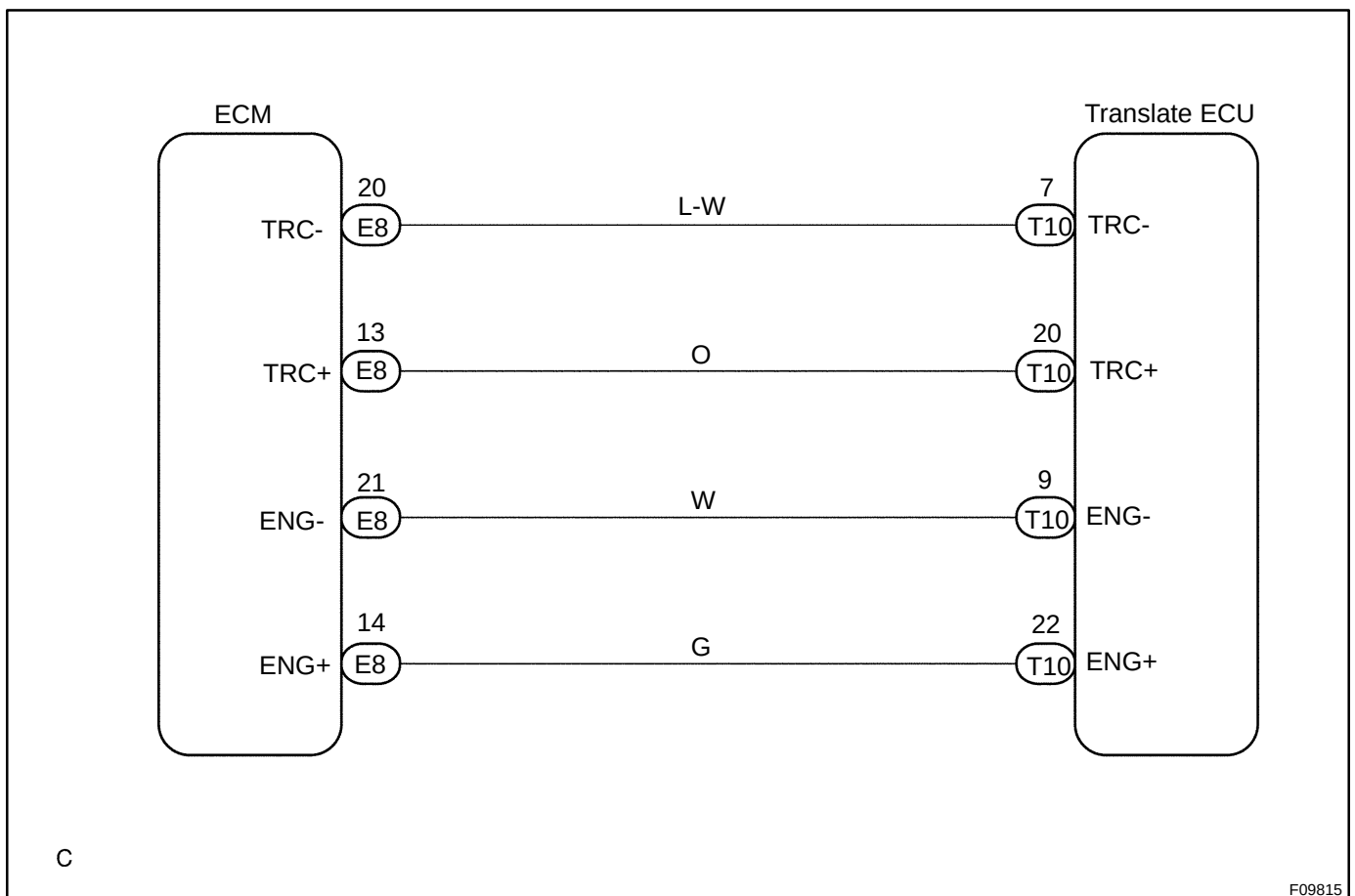
DTC	53	ECM Communication Circuit Malfunction
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CIRCUIT DESCRIPTION

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

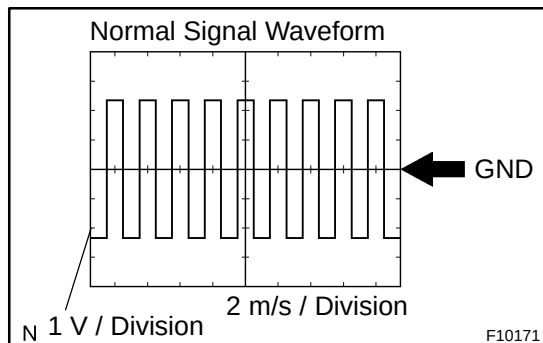
DTC No.	DTC Detecting Condition	Trouble Area
53	When any of the following 1. through 3. is detected : 1. IG1 voltage is 8.5 V or more, and the condition that data can not be sent to ECM continues for 5 sec. or more. 2. IG1 voltage is 8.5 V or more, engine speed is 500 r.p.m or more, and the condition that data can not be received from ECM continues for 5 sec. or more. 3. The condition that data can not be transmitted between the translate ECU and ECM occurs at least once within 5 sec. continues 10 consecutive times.	• TRC+ or TRC- circuit • ENG+ or ENG- circuit • ECM • Translate ECU

WIRING DIAGRAM



INSPECTION PROCEDURE

1 Check translate ECU communication.



REFERENCE: INSPECTION USING OSCILLOSCOPE

PREPARATION:

- (a) Remove the translate ECU.
- (b) Connect the oscilloscope to each of the terminals ENG+ or TRC+ and GND of the translate ECU harness side connector.

CHECK:

Start the engine, and check the signal waveform.

OK

Check and replace translate ECU.

NG

2 Check for open and short circuit in harness and connector between each of terminals ENG+, ENG-, TRC+ and TRC- of translate ECU and ECM (See page [IN-31](#)).

NG

Repair or replace harness or connector.

OK

Check and replace ECM.