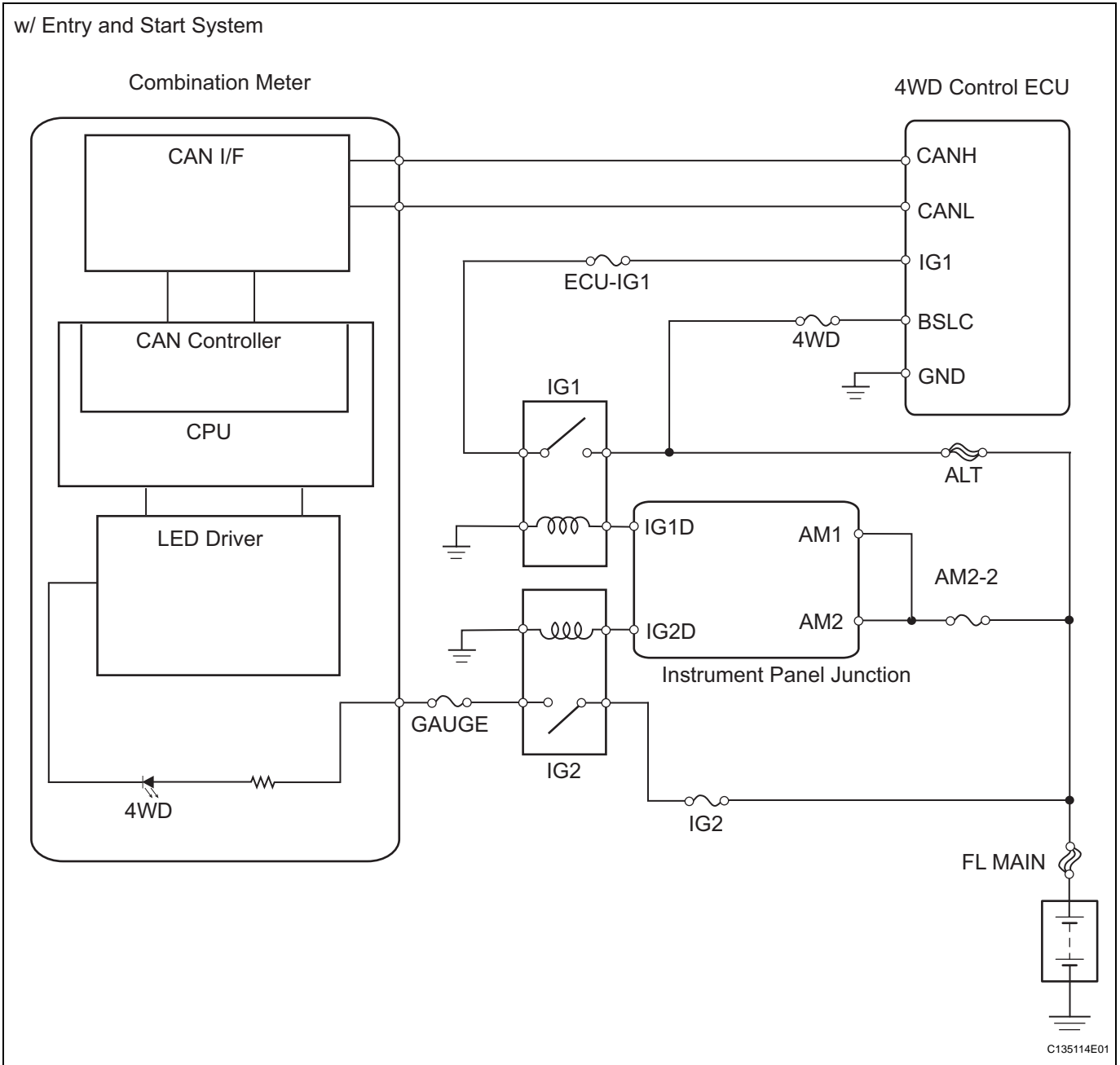


4WD Indicator Light Remains ON

DESCRIPTION

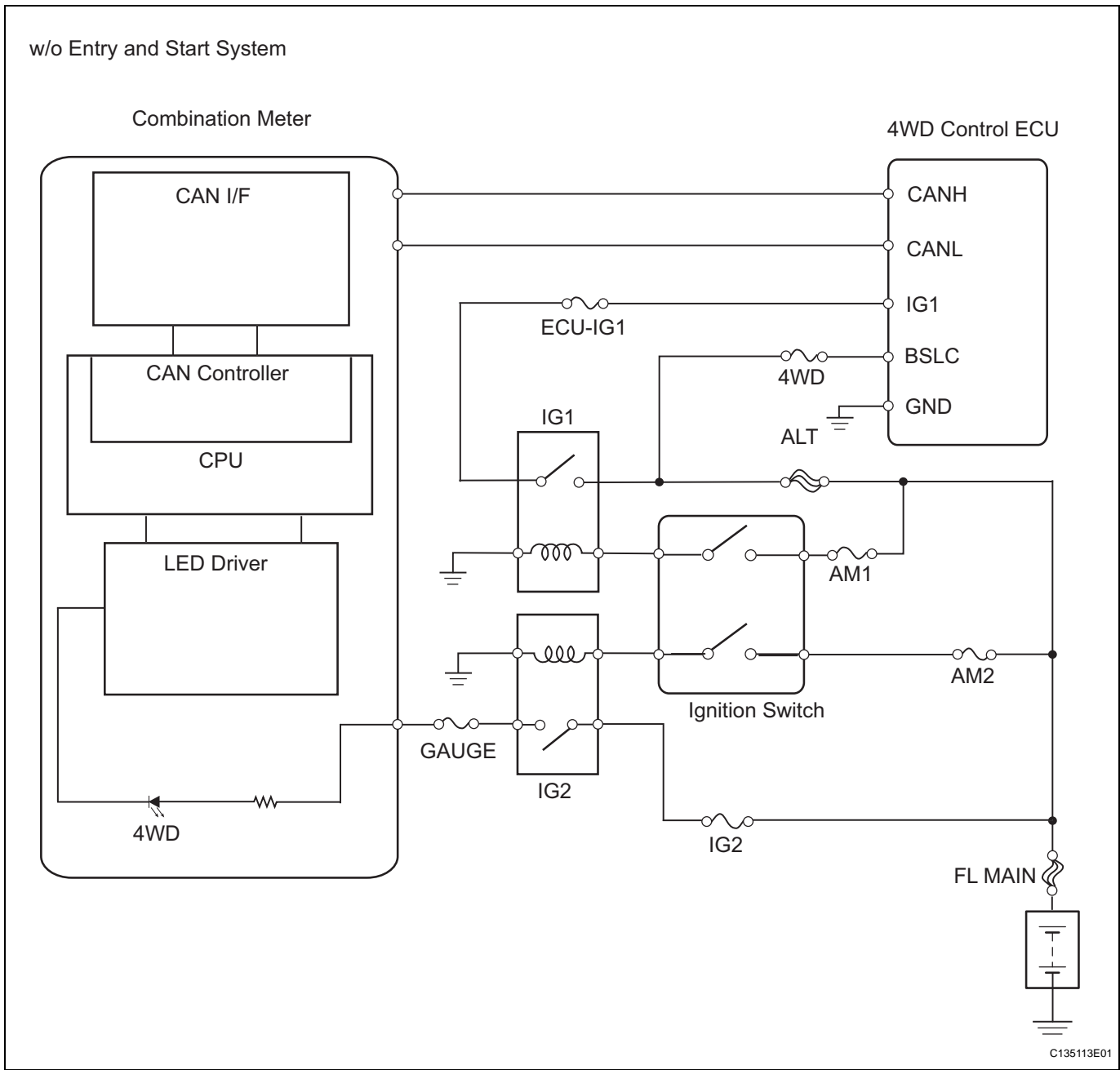
The 4WD control ECU is connected to the combination meter via the CAN communication system. If the 4WD control ECU stores any DTCs which are related to the active torque control 4WD system, the 4WD indicator light comes on in the combination meter.

WIRING DIAGRAM



TF

TF



INSPECTION PROCEDURE

HINT:

Check the condition of each related circuit connector before troubleshooting (see page [IN-37](#)).

1	CHECK FOR DTC
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(a) Check the output DTC (see page [TF-16](#)).

Result

Result	Proceed to
Neither CAN communication system DTC nor 4WD control system DTC is output	A
CAN communication DTC is output	B
4WD control system DTC is output	C

HINT:

When DTCs indicating a CAN communication system malfunction are output, repair the CAN communication system before repairing each corresponding sensor.

B REPAIR CIRCUIT INDICATOR BY OUTPUT CODE (CAN COMMUNICATION SYSTEM)

C REPAIR CIRCUIT INDICATOR BY OUTPUT CODE (4WD CONTROL SYSTEM)

TF

A

2 PERFORM ACTIVE TEST BY INTELLIGENT TESTER (4WD INDICATOR LIGHT)

- (a) Using the intelligent tester's (with CAN VIM) ACTIVE TEST, generate a control command, and then check that the 4WD indicator light operates.

Combination Meter

Item	Vehicle Condition / Test Details	Diagnostic Note
4WD Indicator Light	4WD indicator light OFF	Observer combination meter

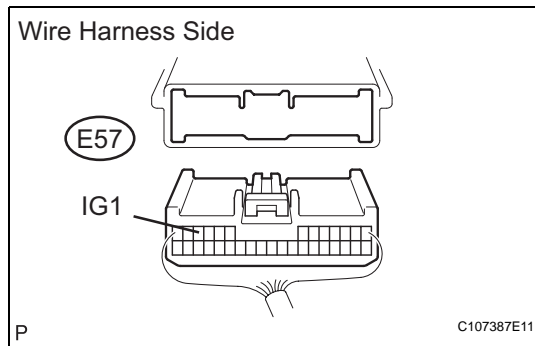
OK:

The 4WD indicator light turns OFF

OK REPLACE 4WD CONTROL ECU

NG

3 CHECK WIRE HARNESS (4WD CONTROL ECU - BATTERY)



- (a) Disconnect the E57 ECU connector.
- (b) Measure the voltage of the wire harness side connector.

Voltage

Tester Connection	Condition	Specified Condition
E57-11 (IG1) - Body Ground	Ignition switch ON	10 to 14 V

NG REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

4 CHECK COMBINATION METER

- (a) Check the combination meter system.

Result:

The combination meter system is normal.

NG REPLACE COMBINATION METER

OK

REPLACE 4WD CONTROL ECU