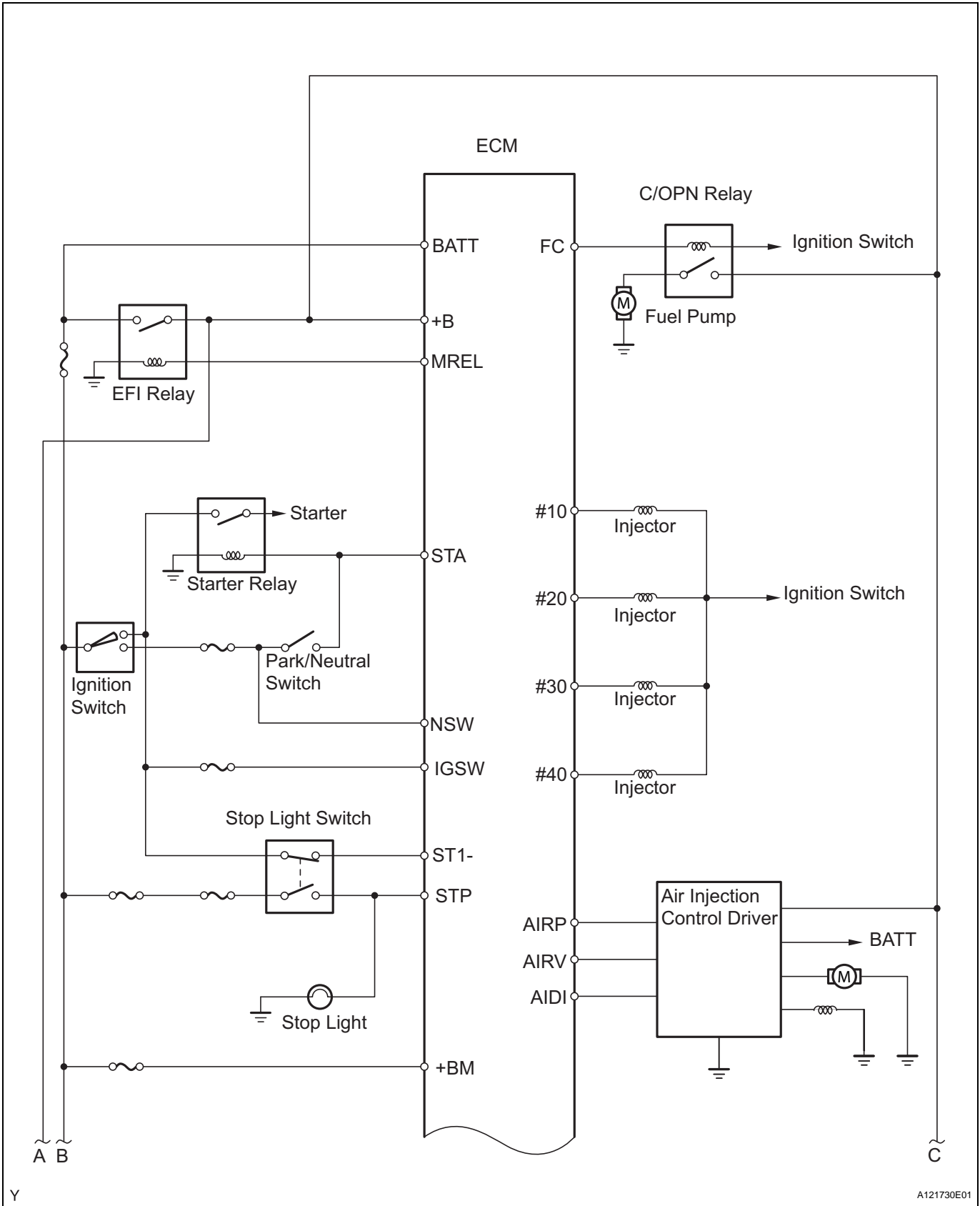
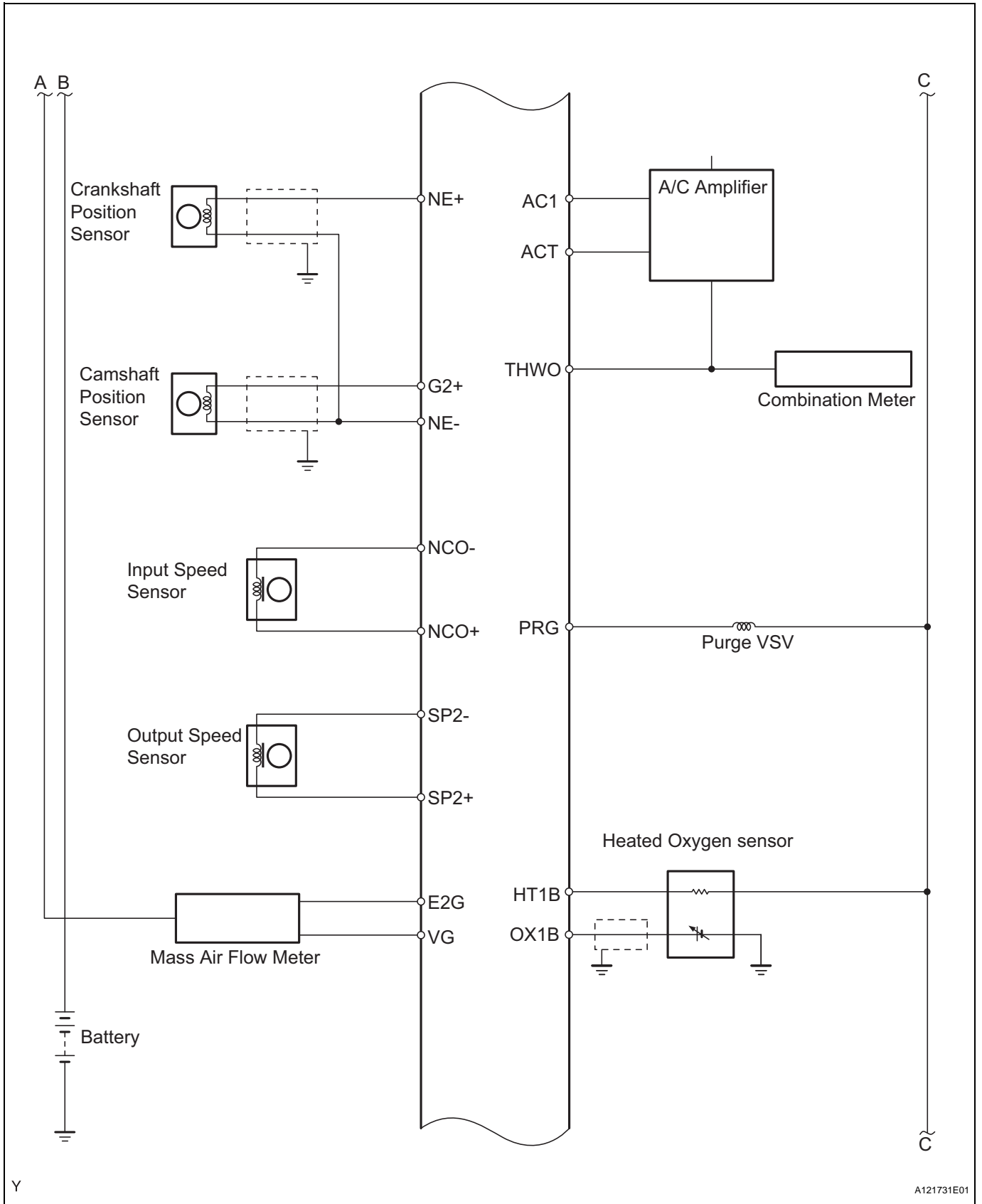


# SYSTEM DIAGRAM

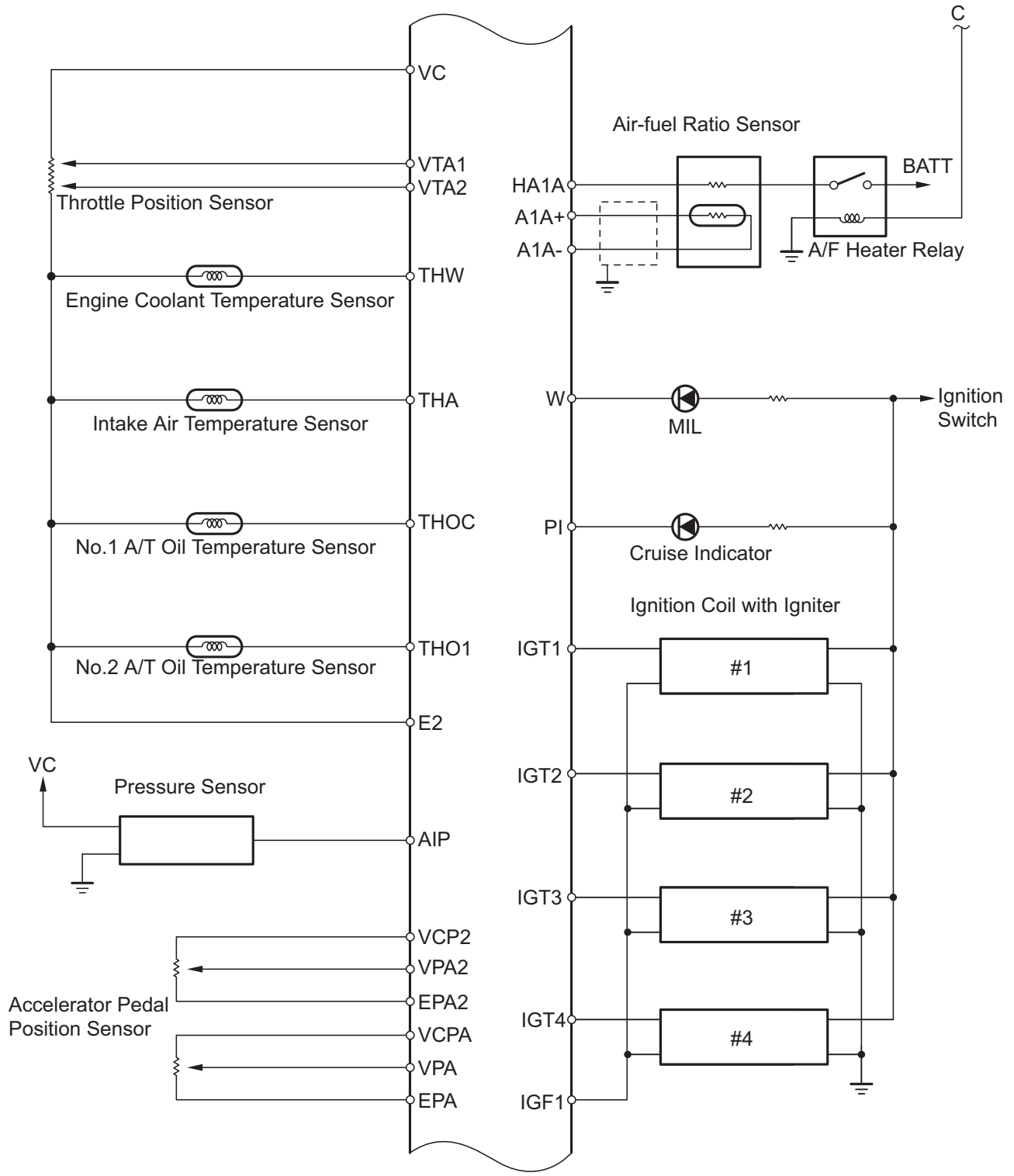
## 1. SYSTEM DIAGRAM



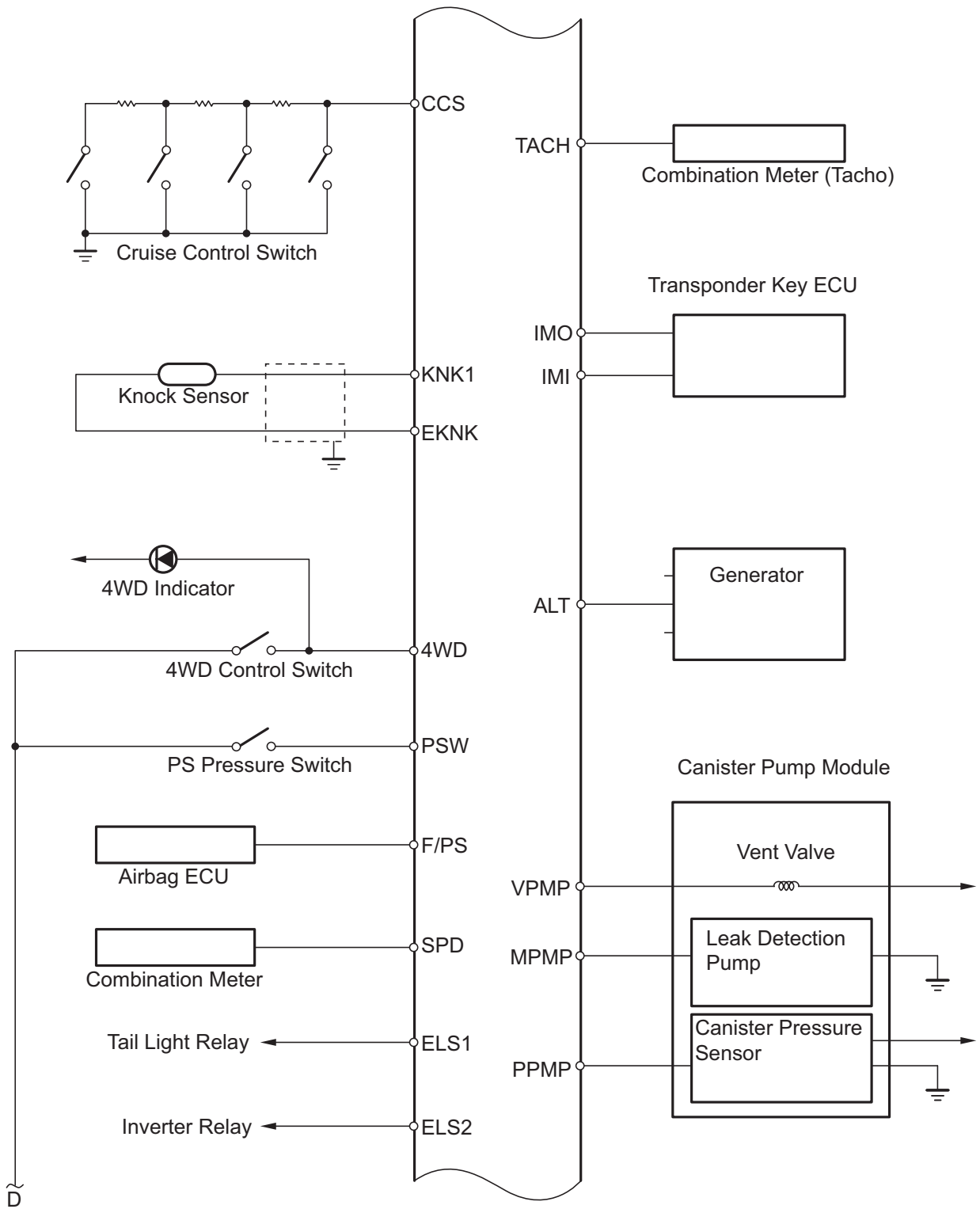


ES

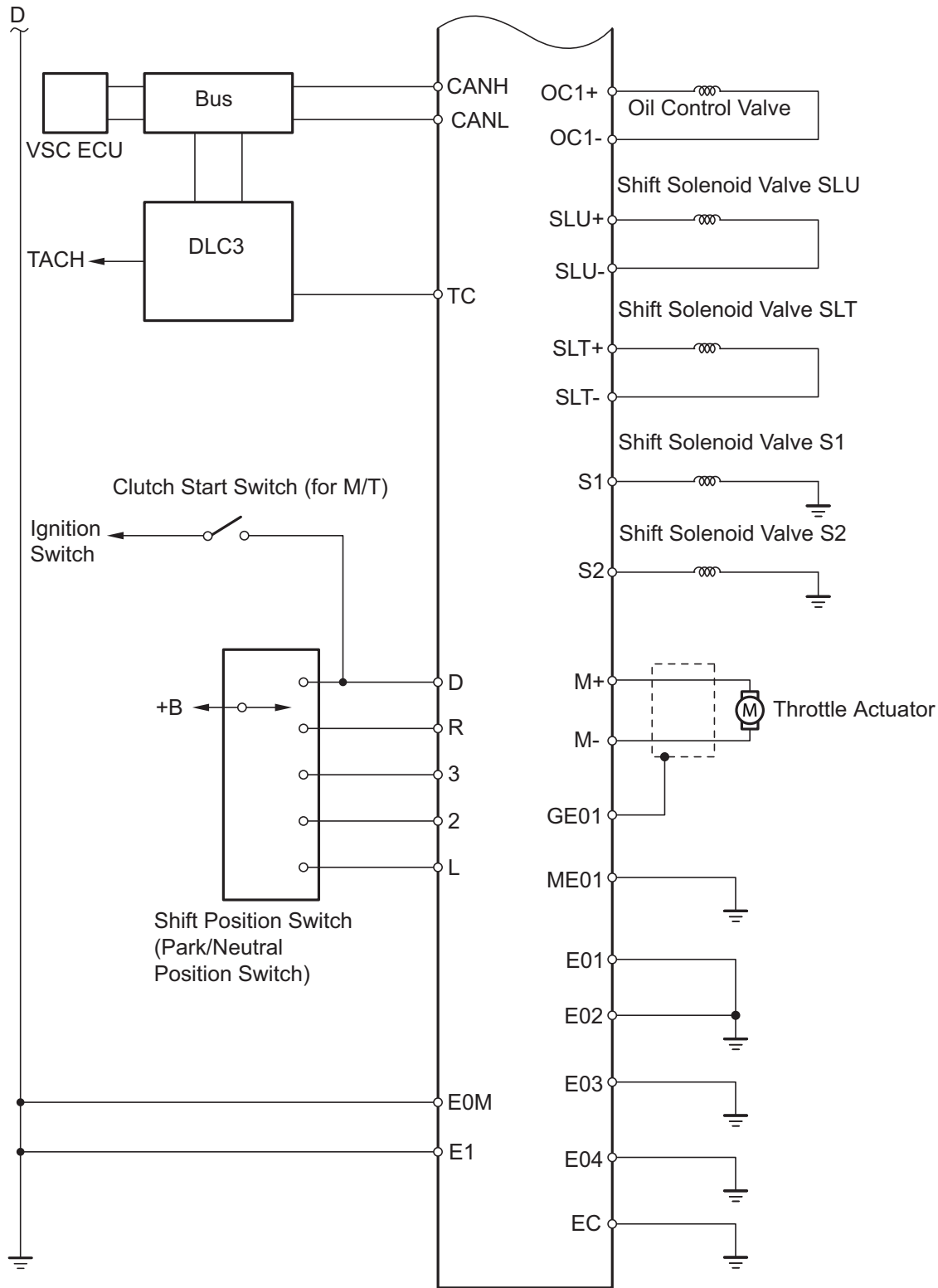
ES



Y

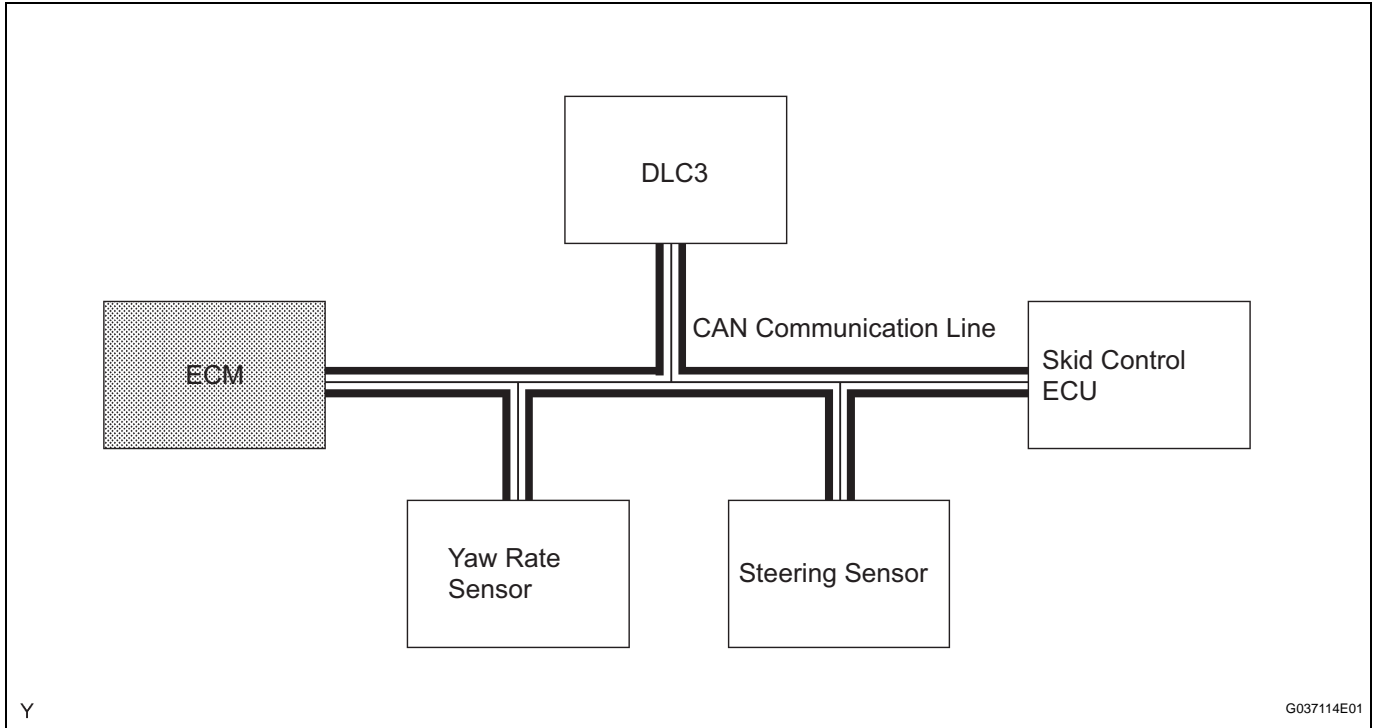


ES



Y

2. COMMUNICATION WITH OTHER COMPUTERS



ES

HINT:  
Refer to CAN COMMUNICATION SYSTEM (See page CA-4).

3. COMMUNICATION SIGNALS

Transmitter	Receiver	Signal	Communication Line
ECM	Skid Control ECU	<ul style="list-style-type: none"> <li>• Intake air temperature signal</li> <li>• Check mode signal</li> <li>• Engine rpm signal</li> <li>• Throttle position signal</li> <li>• Cruise control operation signal</li> <li>• VSC prohibition requirement signal</li> <li>• Shift position signal</li> <li>• Destination signal</li> <li>• Engine system malfunction signal</li> <li>• Ignition timing signal</li> </ul>	CAN
Skid Control ECU	ECM	<ul style="list-style-type: none"> <li>• VSC/TRC operation signal</li> <li>• VSC/TRC system malfunction signal</li> <li>• Fuel cut requirement signal</li> <li>• Cruise control cancel requirement signal</li> <li>• Torque requirement signal</li> </ul>	CAN

HINT:  
Refer to CAN COMMUNICATION SYSTEM (See page CA-4).

## HOW TO PROCEED WITH TROUBLESHOOTING

\*: Use the intelligent tester.

**1** VEHICLE BROUGHT TO WORKSHOP

NEXT

**2** CUSTOMER PROBLEM ANALYSIS

NEXT

**3** CONNECT INTELLIGENT TESTER TO DLC3\*

HINT:

If the display indicates a communication fault in the tester, inspect the DLC3.

NEXT

**4** CHECK DTC AND FREEZE FRAME DATA\*

HINT:

Record or print DTCs (See page [ES-40](#)) and freeze frame data (See page [ES-41](#)), if necessary.

NEXT

**5** CLEAR DTC AND FREEZE FRAME DATA\*

HINT:

Refer to DTC Check / Clear (See page [ES-40](#)).

NEXT

**6** CONDUCT VISUAL INSPECTION

NEXT

**7** SET CHECK MODE DIAGNOSIS\*

HINT:

Refer to Check Mode Procedure (See page [ES-43](#)).

NEXT

**8 CONFIRM PROBLEM SYMPTOMS**

HINT:

If the engine does not start, perform steps 10 and 12 first.

Result	Proceed To
Malfunction does not occur	A
Malfunction occurs	B

**B** **GO TO STEP 10**

**A**

**9 SIMULATE SYMPTOMS**

**ES**

**NEXT**

**10 CHECK DTC\***

HINT:

Refer to DTC Check / Clear (See page [ES-40](#)).

Result	Proceed To
Malfunction code	A
No code	B

**B** **GO TO STEP 12**

**A**

**11 REFER TO DTC CHART**

HINT:

Refer to Diagnostic Trouble Code Chart (See page [ES-54](#)).

**NEXT**

**GO TO STEP 14**

**12 CONDUCT BASIC INSPECTION**

HINT:

Refer to Basic Inspection (See page [ES-14](#)).

Result	Proceed To
Malfunctioning parts not confirmed	A
Malfunctioning parts confirmed	B

**B** **GO TO STEP 17**



A

**13 REFER TO PROBLEM SYMPTOMS TABLE**

HINT:  
Refer to Problem Symptoms Table (See page [ES-29](#)).

Result	Proceed To
Malfunctioning circuit confirmed	A
Malfunctioning parts confirmed	B

**B** **GO TO STEP 17**

**ES**

A

**14 CHECK ECM POWER SOURCE CIRCUIT**

HINT:  
Refer to ECM Power Source Circuit (See page [ES-425](#)).

**NEXT**

**15 CONDUCT CIRCUIT INSPECTION**

Result	Proceed To
Malfunction not confirmed	A
Malfunction confirmed	B

**B** **GO TO STEP 18**

A

**16 CHECK FOR INTERMITTENT PROBLEMS**

HINT:  
Refer to Check for Intermittent Problems (See page [ES-14](#)).

**NEXT**

**GO TO STEP 18**

**17 CONDUCT PARTS INSPECTION**

**NEXT**

**18** IDENTIFY PROBLEM

NEXT

**19** ADJUST AND/OR REPAIR

NEXT

**20** CONDUCT CONFIRMATION TEST

NEXT

END

**ES**