

11. Diagnostic Procedure with Diagnostic Trouble Code (DTC)

A: COMMUNICATION FOR INITIALIZING IMPOSSIBLE

DIAGNOSIS:

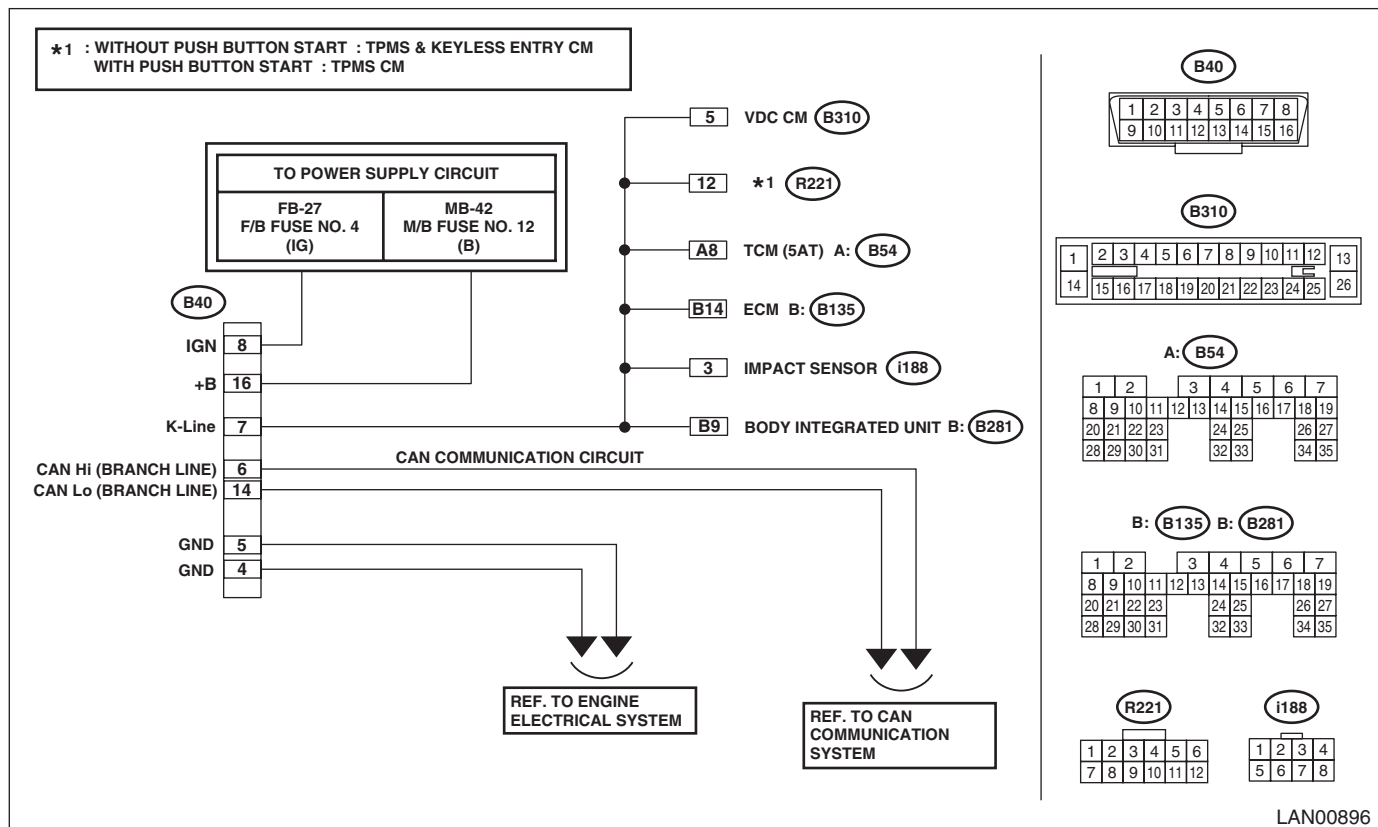
Subaru Select Monitor communication line is open or shorted.

TROUBLE SYMPTOM:

Not communicable with Subaru Select Monitor.

WIRING DIAGRAM:

- CAN communication system <Ref. to WI-83, WIRING DIAGRAM, CAN Communication System.>
- Vehicle Dynamics Control System <Ref. to WI-297, WIRING DIAGRAM, Vehicle Dynamics Control System.>
- AT Control System <Ref. to WI-60, WIRING DIAGRAM, AT Control System.>
- Engine electrical system <Ref. to WI-122, WIRING DIAGRAM, Engine Electrical System.>
- Tire Pressure Monitoring System <Ref. to WI-294, WIRING DIAGRAM, Tire Pressure Monitoring System.>
- SECURITY SYSTEM <Ref. to WI-276, WIRING DIAGRAM, Security System.>



LAN00896

Step	Check	Yes	No
1	CHECK SUBARU SELECT MONITOR. 1) Connect the Subaru Select Monitor to another vehicle. 2) Check communication condition between Subaru Select Monitor and vehicle.	Go to step 2.	Subaru Select Monitor unit or diagnosis cable is faulty.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
2 CHECK CAN COMMUNICATION CIRCUIT. Perform the communication initialization for the following module, using the Subaru Select Monitor. • Airbag CM • Transmission CM • A/C CM • Engine CM • Stereo camera	Is the communication possible with all modules? (Except for the modules that are not equipped on the vehicle.)	Go to step 3.	Check CAN communication circuit. <Ref. to LAN(diag)-11, BUS "A" (MAIN-CAN), PROCEDURE, CAN Communication Circuit Check.>
3 CHECK CAN COMMUNICATION CIRCUIT. Perform the communication initialization for the following module, using the Subaru Select Monitor. • Keyless access CM	Is the communication possible with all modules? (Except for the modules that are not equipped on the vehicle.)	Go to step 4.	Check CAN communication circuit. <Ref. to LAN(diag)-14, BUS "B" (SMART SYSTEM CAN), PROCEDURE, CAN Communication Circuit Check.>
4 CHECK K-LINE. 1) Perform communication between Subaru Select Monitor and all modules. 2) Check continuity between the modules that did not communicate with Subaru Select Monitor. Connector & terminal <i>(B40) No. 7 — (B135) No. 14 (3.6 L model)</i> <i>(B40) No. 7 — (B310) No. 5 (VDC):</i> <i>(B40) No. 7 — (B54) No. 8 (5AT):</i> <i>(B40) No. 7 — (B281) No. 9 (body integrated unit):</i> <i>(B40) No. 7 — (R221) No. 12 (TPMS):</i> <i>(B40) No. 7 — (i188) No. 3 (OP):</i>	Is there continuity?	Go to step 5.	Repair or replace the open circuit.
5 CHECK K-LINE. Using a tester, check continuity between K-line and chassis ground. Connector & terminal <i>(B40) No. 7 — Chassis ground:</i>	Is there continuity?	Repair or replace the short circuit portion.	Go to step 6.
6 CHECK K-LINE. 1) Turn the ignition switch to ON. 2) Using a tester, check voltage between K-line and chassis ground. Connector & terminal <i>(B40) No. 7 — Chassis ground:</i>	Is the voltage 5 V or more?	Repair or replace the short circuit portion.	Go to step 7.
7 CHECK GROUND CIRCUIT. Check continuity of ground circuit. Connector & terminal <i>(B40) No. 4 — Chassis ground:</i> <i>(B40) No. 5 — Chassis ground:</i>	Is there continuity?	Go to step 8.	Check ECM ground.
8 CHECK POWER SUPPLY CIRCUIT. 1) Turn the ignition switch to ON. 2) Using a tester, measure the voltage of data link connector. Connector & terminal <i>(B40) No. 8 — Chassis ground:</i> <i>(B40) No. 16 — Chassis ground:</i>	Is the voltage 10 V or more?	The vehicle is normal.	Check the power supply circuits to the data link connector.

CAUTION:

When replacing the body integrated unit on the model with immobilizer system, be sure to register immobilizer. Refer to "REGISTRATION MANUAL FOR IMMOBILIZER".

B: DTC U1201 CAN-HS COUNTER ABNORMAL

DTC DETECTING CONDITION:

Communication is unstable because of high speed CAN communication error.

TROUBLE SYMPTOM:

- Display of combination meter indicates faulty.
- Control faulty may occur due to CAN communication error.

Step	Check	Yes	No
1 CHECK CAN COMMUNICATION CIRCUIT. Check CAN communication circuit. <Ref. to LAN(diag)-11, PROCEDURE, CAN Communication Circuit Check.>	Is CAN communication circuit faulty?	Repair the faulty portion, following the diagnosis procedure.	Go to step 2.
2 CHECK DTC. 1) Start the engine. 2) Using the Subaru Select Monitor, read DTC of CAN system.	Is U1202 a current malfunction?	Perform the diagnosis of U1202. <Ref. to LAN(diag)-79, DTC U1201 CAN-HS COUNTER ABNORMAL, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>	Go to step 3.
3 CHECK DTC. Check the displayed DTC.	Is U1201 a current malfunction?	Go to step 4.	It is possible that temporary poor communication occurs. Perform the clear memory.
4 CHECK DTC. 1) Turn the ignition switch to ON. 2) Using the Subaru Select Monitor, read DTC of CAN system.	Is U1201 a current malfunction?	Go to step 5.	It is possible that temporary poor communication occurs. Perform the clear memory.
5 CHECK CONTROL MODULE. 1) Turn the ignition switch to OFF. 2) Disconnect the control modules other than body integrated unit in order. NOTE: When disconnecting ECM or VDC CM, connect resistance of 120 Ω between CAN Hi and CAN Lo as an alternative of end resistance. 3) Turn the ignition switch to ON. 4) Using the Subaru Select Monitor, read DTC of CAN system.	Is there any control module that U1201 is not detected as current malfunction?	Replace the control module.	Repeat 1) to 4) in step 5 until U1201 is not detected.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

C: DTC U1202 CAN-HS BUS OFF

DTC DETECTING CONDITION:

Integrated unit communication is shut down because of high speed CAN error.

TROUBLE SYMPTOM:

CAN communication is not normal.

Step	Check	Yes	No
1 CHECK CAN COMMUNICATION CIRCUIT. Check CAN communication circuit. <Ref. to LAN(diag)-11, PROCEDURE, CAN Communication Circuit Check.>	Is CAN communication circuit faulty?	Repair the faulty portion, following the diagnosis procedure.	Go to step 2.
2 CHECK DTC. 1) Start the engine. 2) Using the Subaru Select Monitor, read DTC of CAN system.	Is U1202 a current malfunction?	Go to step 3.	It may be a temporary poor contact. Perform the clear memory.
3 CHECK CONTROL MODULE. 1) Turn the ignition switch to OFF. 2) Disconnect the control modules other than body integrated unit in order. NOTE: When disconnecting ECM or VDC CM, connect resistance of 120 Ω between CAN Hi and CAN Lo as an alternative of end resistance. 3) Turn the ignition switch to ON. 4) Using the Subaru Select Monitor, read DTC of CAN system.	Is there any control module that U1201 is not detected as current malfunction?	Replace the control module.	Repeat 1) to 4) in step 3 until U1202 is not detected.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

D: DTC U1211 CAN-HS ECM DATA ABNORMAL

DTC DETECTING CONDITION:

Defective data from ECM.

TROUBLE SYMPTOM:

Defective data on CAN communication occurs.

Step	Check	Yes	No
1 CHECK DTC. Using the Subaru Select Monitor, read all DTCs.	Is there DTC other than CAN system?	Perform the diagnosis according to DTCs for other control modules.	Go to step 2.
2 CHECK DTC. Check DTC indicated in CAN system.	Is U1211 a current malfunction?	Go to step 3.	Go to step 4.
3 CHECK DTC. 1) Turn the ignition switch to OFF. 2) Disconnect the ECM connector. 3) Connect the disconnected connectors. 4) Using the Subaru Select Monitor, read DTC of CAN system.	Is U1211 a current malfunction?	Replace the ECM. <Ref. to FU(H6DO)-54, Engine Control Module (ECM).>	Go to step 4.
4 CHECK HARNESS. 1) Shake the harness, and check for poor contact. 2) Using the Subaru Select Monitor, read DTC of CAN system.	Is U1211 a current malfunction?	Repair the poor contact of harness, or replace the harness.	Go to step 5.
5 CHECK CONNECTOR. Check the connector used for high speed CAN for poor contact.	Is there poor contact of connector?	Repair the connector that has poor contact, or replace harness.	It is possible that temporary poor communication occurs. Delete the DTC.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

E: DTC U1212 CAN-HS TCM DATA ABNORMAL

DTC DETECTING CONDITION:

Received error data from TCM.

TROUBLE SYMPTOM:

SPORT indicator light blinks.

Step	Check	Yes	No
1 CHECK DTC. Using the Subaru Select Monitor, read all DTCs.	Is there DTC other than CAN system?	Perform the diagnosis according to DTCs for other control modules.	Go to step 2.
2 CHECK DTC. Check DTC indicated in CAN system.	Is U1212 a current malfunction?	Go to step 3.	Go to step 4.
3 CHECK DTC. 1) Turn the ignition switch to OFF. 2) Disconnect the TCM connector. 3) Connect the disconnected connectors. 4) Using the Subaru Select Monitor, read DTC of CAN system.	Is U1212 a current malfunction?	Replace the TCM. <Ref. to 5AT-56, Transmission Control Module (TCM).>	Go to step 4.
4 CHECK HARNESS. 1) Shake the harness, and check for poor contact. 2) Using the Subaru Select Monitor, read DTC of CAN system.	Is U1212 a current malfunction?	Repair the poor contact of harness, or replace the harness.	Go to step 5.
5 CHECK CONNECTOR. Check the connector used for high speed CAN for poor contact.	Is there poor contact of connector?	Repair the connector that has poor contact, or replace harness.	A temporary communication failure may be a possible cause. Clear the DTC memory.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

F: DTC U1213 CAN-HS VDC DATA ABNORMAL

DTC DETECTING CONDITION:

Data from VDCCM is faulty.

TROUBLE SYMPTOM:

ABS warning light and VDC warning light illuminate.

Step	Check	Yes	No
1 CHECK DTC. Using the Subaru Select Monitor, read all DTCs.	Is there DTC other than CAN system?	Perform the diagnosis according to DTCs for other control modules.	Go to step 2.
2 CHECK DTC. Check DTC indicated in CAN system.	Is U1213 a current malfunction?	Go to step 3.	Go to step 4.
3 CHECK DTC. 1) Turn the ignition switch to OFF. 2) Disconnect the VDC CM connector. 3) Connect the disconnected connectors. 4) Using the Subaru Select Monitor, read DTC of CAN system.	Is U1213 a current malfunction?	Replace the VDC CM. <Ref. to VDC-10, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>	Go to step 4.
4 CHECK HARNESS. 1) Shake the harness, and check for poor contact. 2) Using the Subaru Select Monitor, read DTC of CAN system.	Is U1213 a current malfunction?	Repair the poor contact of harness, or replace the harness.	Go to step 5.
5 CHECK CONNECTOR. Check the connector used for high speed CAN for poor contact.	Is there poor contact of connector?	Repair the connector that has poor contact, or replace harness.	A temporary communication failure may be a possible cause. Clear the DTC memory.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

G: DTC U1219 CAN-HS EPB DATA ABNORMAL

DTC DETECTING CONDITION:

Defective data was transmitted from electronic parking brake control module.

TROUBLE SYMPTOM:

Electronic parking brake cooperation control does not operate.

Step	Check	Yes	No
1 CHECK DTC. Using the Subaru Select Monitor, read all DTCs.	Is there DTC other than CAN system?	Perform the diagnosis according to DTCs for other control modules.	Go to step 2.
2 CHECK DTC. Check DTC indicated in CAN system.	Is U1219 a current malfunction?	Go to step 3.	Go to step 4.
3 CHECK DTC. Turn the ignition switch to OFF, and read the DTC again.	Is U1219 a current malfunction?	Replace the electronic parking CM. <Ref. to PB-7, REMOVAL, Parking Brake Actuator.>	Go to step 4.
4 CHECK ELECTRIC PARKING CM. 1) Disconnect the electronic parking CM connector. 2) Using the Subaru Select Monitor, perform the clear memory. 3) Using the Subaru Select Monitor, read DTC of CAN system.	Is the displayed DTC other than U1219?	Go to step 5.	Replace the electronic parking CM. <Ref. to PB-7, REMOVAL, Parking Brake Actuator.>
5 CHECK ELECTRIC PARKING CM. 1) Connect the electronic parking CM connector. 2) Using the Subaru Select Monitor, read DTC of electronic parking CM. <Ref. to PB(diag)-14, OPERATION, Subaru Select Monitor.>	Is DTC other than CAN system displayed?	Perform the diagnosis according to DTC.	Replace the body integrated unit. <Ref. to SL-84, REMOVAL, Body Integrated Unit.>

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LAN SYSTEM (DIAGNOSTICS)

H: DTC U121A CAN-HS METER UNIT DATA ABNORMAL

DTC DETECTING CONDITION:

Defective data was transmitted from combination meter.

TROUBLE SYMPTOM:

Display of combination meter does not operate properly.

Step	Check	Yes	No
1 CHECK DTC. Using the Subaru Select Monitor, read all DTCs.	Is there DTC other than CAN system?	Perform the diagnosis according to DTCs for other control modules.	Go to step 2.
2 CHECK DTC. Check DTC indicated in CAN system.	Is U121A a current malfunction?	Go to step 3.	Go to step 4.
3 CHECK DTC. Turn the ignition switch to OFF, and read the DTC again.	Is U121A a current malfunction?	Replace the combination meter. <Ref. to IDI-26, REMOVAL, Combination Meter.>	Go to step 4.
4 CHECK COMBINATION METER. 1) Disconnect the combination meter connector. 2) Using the Subaru Select Monitor, perform the clear memory. 3) Using the Subaru Select Monitor, read DTC of CAN system.	Is the displayed DTC other than U121A?	Go to step 5.	Replace the combination meter. <Ref. to IDI-26, REMOVAL, Combination Meter.>
5 CHECK COMBINATION METER. 1) Connect the combination meter connector. 2) Check the combination meter. <Ref. to IDI-8, SELF-DIAGNOSIS DISPLAY MODE, OPERATION, Combination Meter System.>	Is there any fault?	Perform the diagnosis according to the inspection of the combination meter.	Replace the body integrated unit. <Ref. to SL-84, REMOVAL, Body Integrated Unit.>

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

I: DTC U121B CAN-HS A/C DATA ABNORMAL

DTC DETECTING CONDITION:

Defective data was transmitted from A/C CM.

TROUBLE SYMPTOM:

Cooperation control of air conditioner does not operate properly.

Step	Check	Yes	No
1 CHECK DTC. Using the Subaru Select Monitor, read all DTCs.	Is there DTC other than CAN system?	Perform the diagnosis according to DTCs for other control modules.	Go to step 2.
2 CHECK DTC. Check DTC indicated in CAN system.	Is U121B a current malfunction?	Go to step 3.	Go to step 4.
3 CHECK DTC. Turn the ignition switch to OFF, and read the DTC again.	Is U121B a current malfunction?	Replace the A/C CM. <Ref. to AC-56, REMOVAL, Control Unit.>	Go to step 4.
4 CHECK A/C CM. 1) Disconnect the A/C CM connector. 2) Using the Subaru Select Monitor, perform the clear memory. 3) Using the Subaru Select Monitor, read DTC of CAN system.	Is the displayed DTC other than U121B?	Go to step 5.	Replace the A/C CM. <Ref. to AC-56, REMOVAL, Control Unit.>
5 CHECK A/C CM. 1) Connect the A/C CM connector. 2) Using the Subaru Select Monitor, read DTC of A/C CM. <Ref. to AC(diag)-43, OPERATION, Subaru Select Monitor.>	Is DTC other than CAN system displayed?	Perform the diagnosis according to DTC.	Replace the body integrated unit. <Ref. to SL-84, REMOVAL, Body Integrated Unit.>

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

J: DTC U121C CAN-HS SCU DATA ABNORMAL

DTC DETECTING CONDITION:

Defective data was transmitted from SCM.

TROUBLE SYMPTOM:

Immobilizer does not operate normally.

Step	Check	Yes	No
1 CHECK DTC. Using the Subaru Select Monitor, read all DTCs.	Is there DTC other than CAN system?	Perform the diagnosis according to DTCs for other control modules.	Go to step 2.
2 CHECK DTC. Check DTC indicated in CAN system.	Is U121C a current malfunction?	Go to step 3.	Go to step 4.
3 CHECK DTC. Turn the ignition switch to OFF, and read the DTC again.	Is U121C a current malfunction?	Replace SCM. <Ref. to SL-78, REMOVAL, Security Control Module.>	Go to step 4.
4 CHECK SCM. 1) Disconnect the connector from SCM. 2) Using the Subaru Select Monitor, perform the clear memory. 3) Using the Subaru Select Monitor, read DTC of CAN system.	Is the displayed DTC other than U121C?	Go to step 5.	Replace SCM. <Ref. to SL-78, REMOVAL, Security Control Module.>
5 CHECK SCM. 1) Connect the SCM connector. 2) Using the Subaru Select Monitor, read DTC of immobilizer. <Ref. to IM(diag)-9, OPERATION, Read Diagnostic Trouble Code (DTC).>	Is DTC other than CAN system displayed?	Perform the diagnosis according to DTC.	Replace the body integrated unit. <Ref. to SL-84, REMOVAL, Body Integrated Unit.>

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

K: DTC U1221 CAN-HS ECM NO-RECEIVE DATA

DTC DETECTING CONDITION:

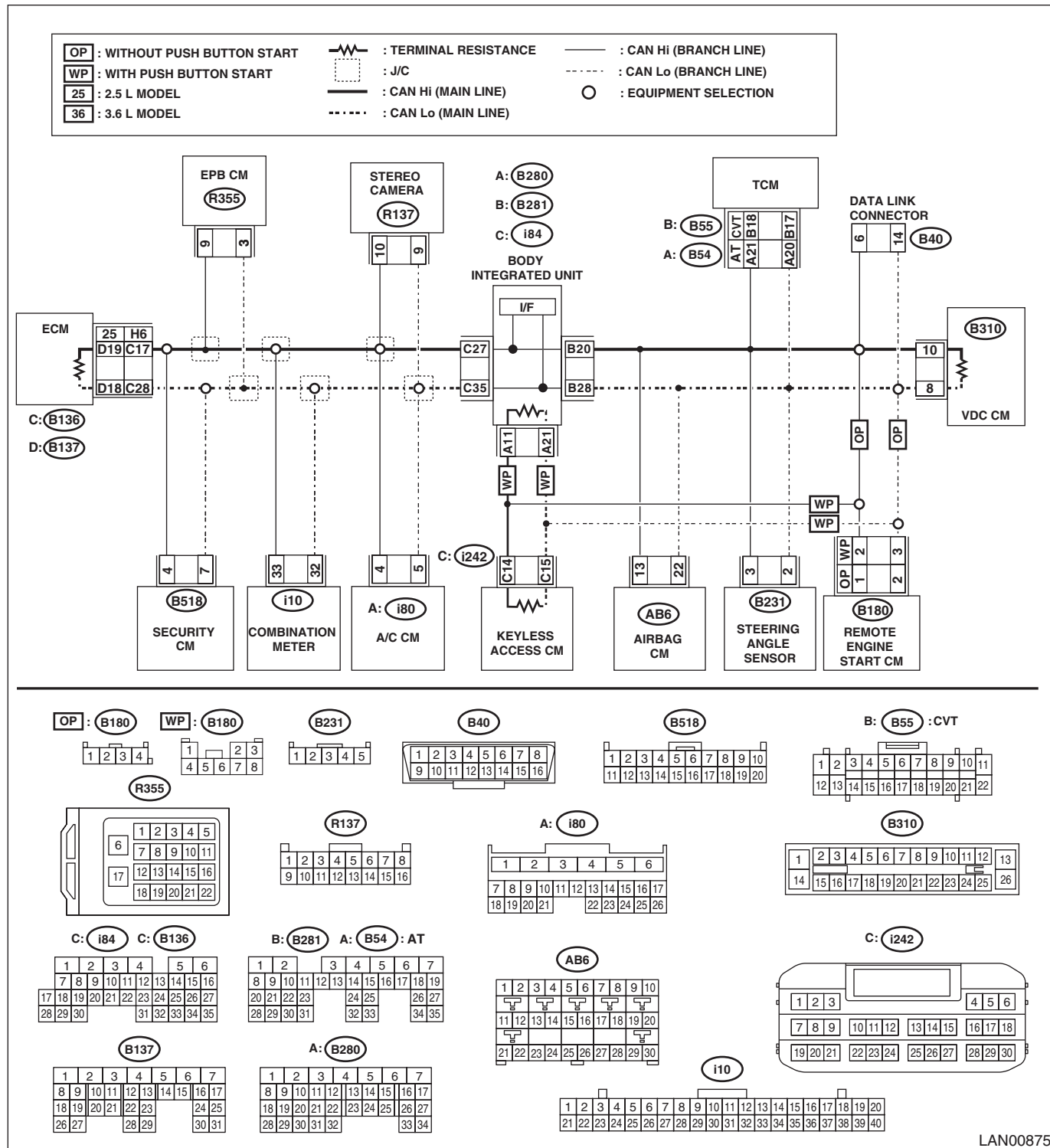
Not received data from ECM.

TROUBLE SYMPTOM:

Cooperation control of transmission may not operate properly.

WIRING DIAGRAM:

CAN communication system <Ref. to WI-83, WIRING DIAGRAM, CAN Communication System.>



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Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK CAN COMMUNICATION CIRCUIT. Check CAN communication circuit. <Ref. to LAN(diag)-11, BUS "A" (MAIN-CAN), PROCEDURE, CAN Communication Circuit Check.>	Is CAN communication circuit faulty?	Repair the faulty portion, following the diagnosis procedure.	Go to step 2.
2 CHECK DTC. 1) Start the engine. 2) Using the Subaru Select Monitor, read DTC of CAN system.	Is U1221 a current malfunction?	Go to step 3.	It may be a temporary poor contact. Perform the clear memory.
3 CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is P1718, C0057, or U0100 detected?	Replace the ECM.	Replace the body integrated unit. <Ref. to SL-84, REMOVAL, Body Integrated Unit.>

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

L: DTC U1222 CAN-HS TCM NO-RECEIVE DATA

DTC DETECTING CONDITION:

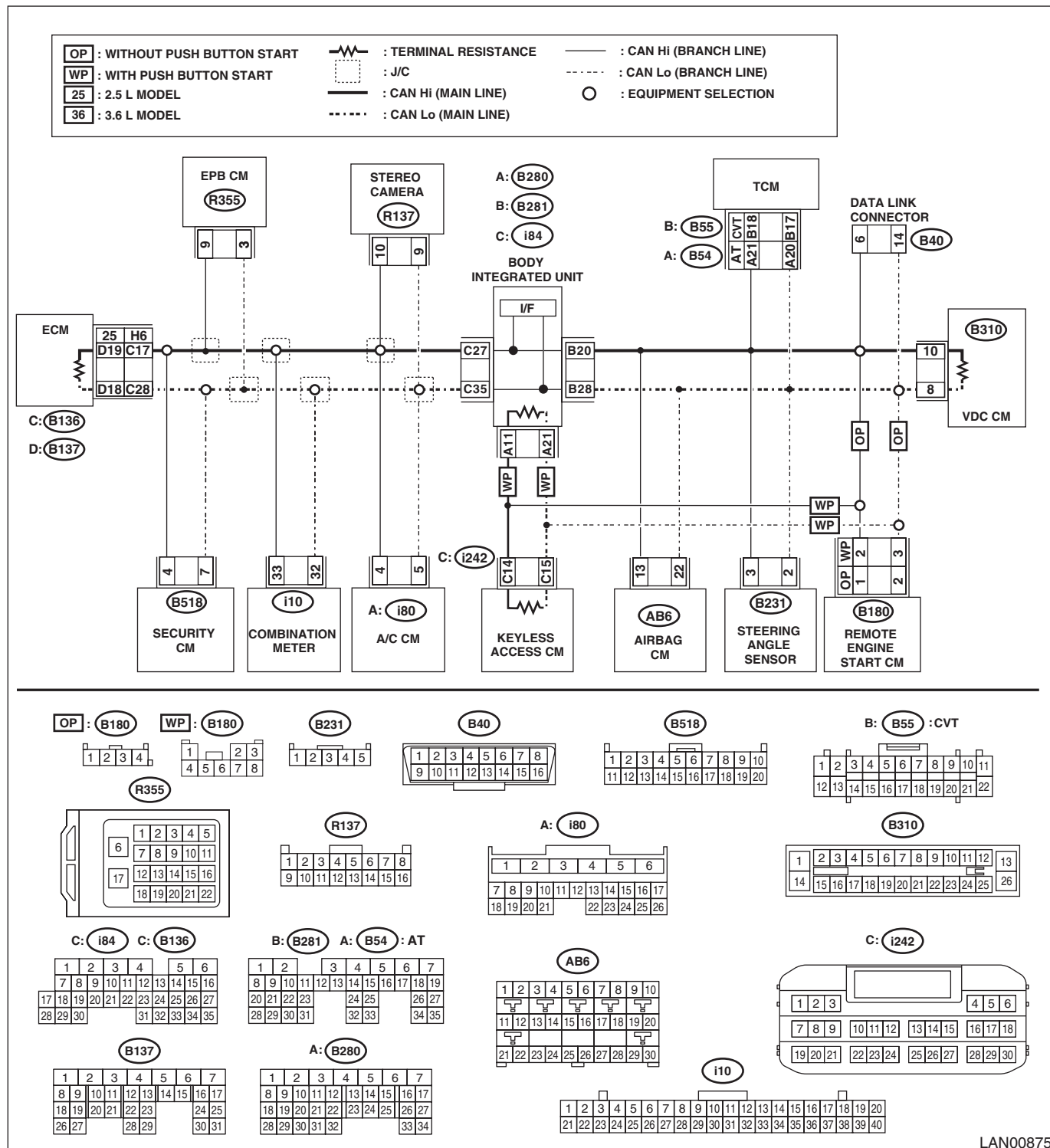
Not received data from TCM.

TROUBLE SYMPTOM:

Cooperation control with transmission is not performed.

WIRING DIAGRAM:

CAN communication system <Ref. to WI-83, WIRING DIAGRAM, CAN Communication System.>



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Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Step		Check	Yes	No
1	CHECK CAN COMMUNICATION CIRCUIT. Check CAN communication circuit. <Ref. to LAN(diag)-11, BUS "A" (MAIN-CAN), PROCEDURE, CAN Communication Circuit Check.>	Is CAN communication circuit faulty?	Repair the faulty portion, following the diagnosis procedure.	Go to step 2.
2	CHECK DTC. 1) Start the engine. 2) Using the Subaru Select Monitor, read DTC of CAN system.	Is U1222 a current malfunction?	Go to step 3.	It may be a temporary poor contact. Perform the clear memory.
3	CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is C0044, C0045, or U0101 detected?	Replace the TCM. <Ref. to 5AT-56, REMOVAL, Transmission Control Module (TCM).>	Replace the body integrated unit. <Ref. to SL-84, REMOVAL, Body Integrated Unit.>

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

M: DTC U1223 CAN-HS VDC NO-RECEIVE DATA

DTC DETECTING CONDITION:

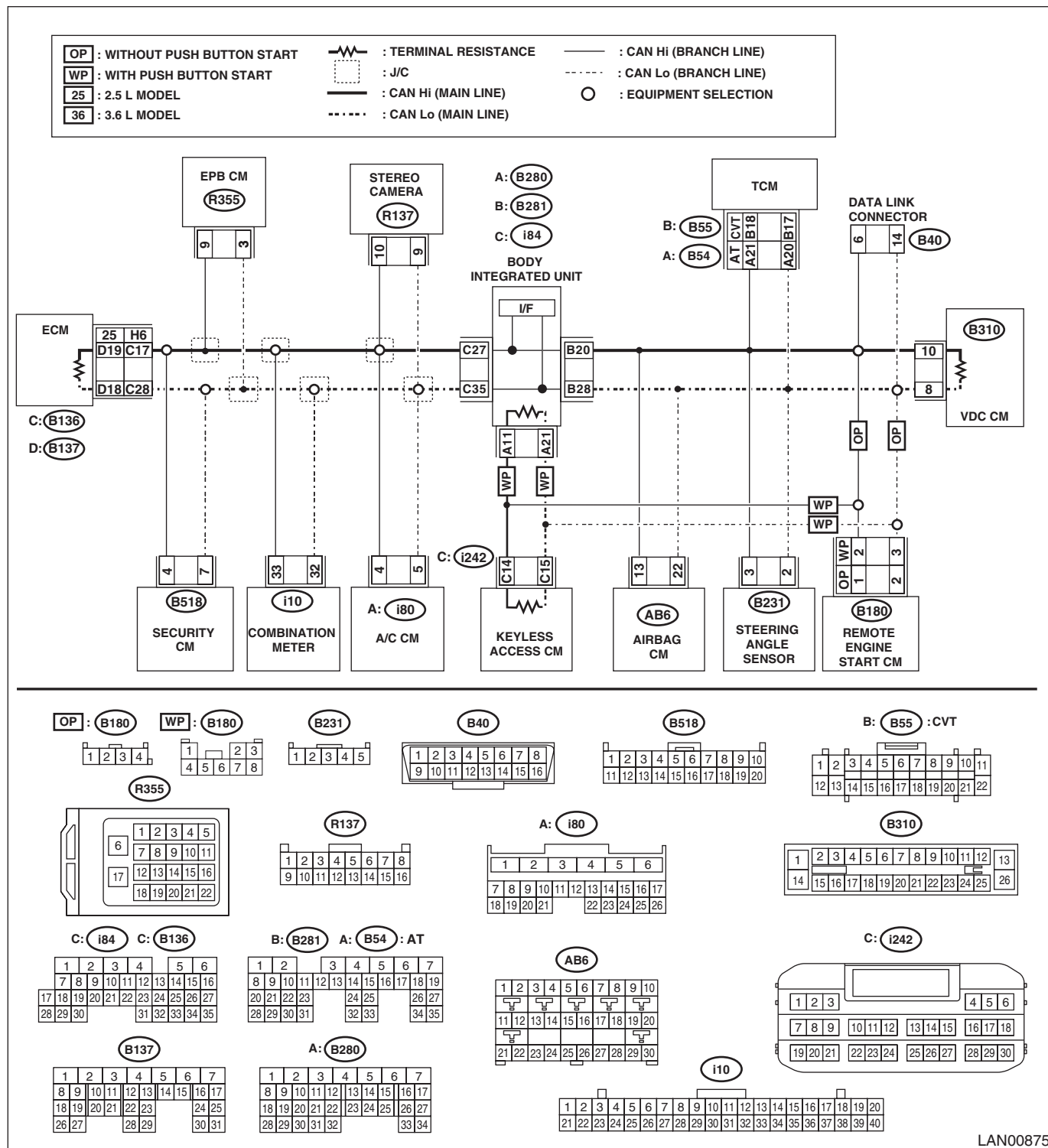
No data from VDCCM is received.

TROUBLE SYMPTOM:

ABS warning light and VDC warning light illuminate.

WIRING DIAGRAM:

CAN communication system <Ref. to WI-83, WIRING DIAGRAM, CAN Communication System.>



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Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK CAN COMMUNICATION CIRCUIT. Check CAN communication circuit. <Ref. to LAN(diag)-11, BUS "A" (MAIN-CAN), PROCEDURE, CAN Communication Circuit Check.>	Is CAN communication circuit faulty?	Repair the faulty portion, following the diagnosis procedure.	Go to step 2.
2 CHECK DTC. 1) Start the engine. 2) Using the Subaru Select Monitor, read DTC of CAN system.	Is U1223 a current malfunction?	Go to step 3.	It may be a temporary poor contact. Perform the clear memory.
3 CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is U0122 or P1718 detected?	Replace the VDC CM. <Ref. to VDC-10, REMOVAL, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>	Replace the body integrated unit. <Ref. to SL-84, REMOVAL, Body Integrated Unit.>

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

N: DTC U1229 CAN-HS EPB NO-RECEIVE DATA

DTC DETECTING CONDITION:

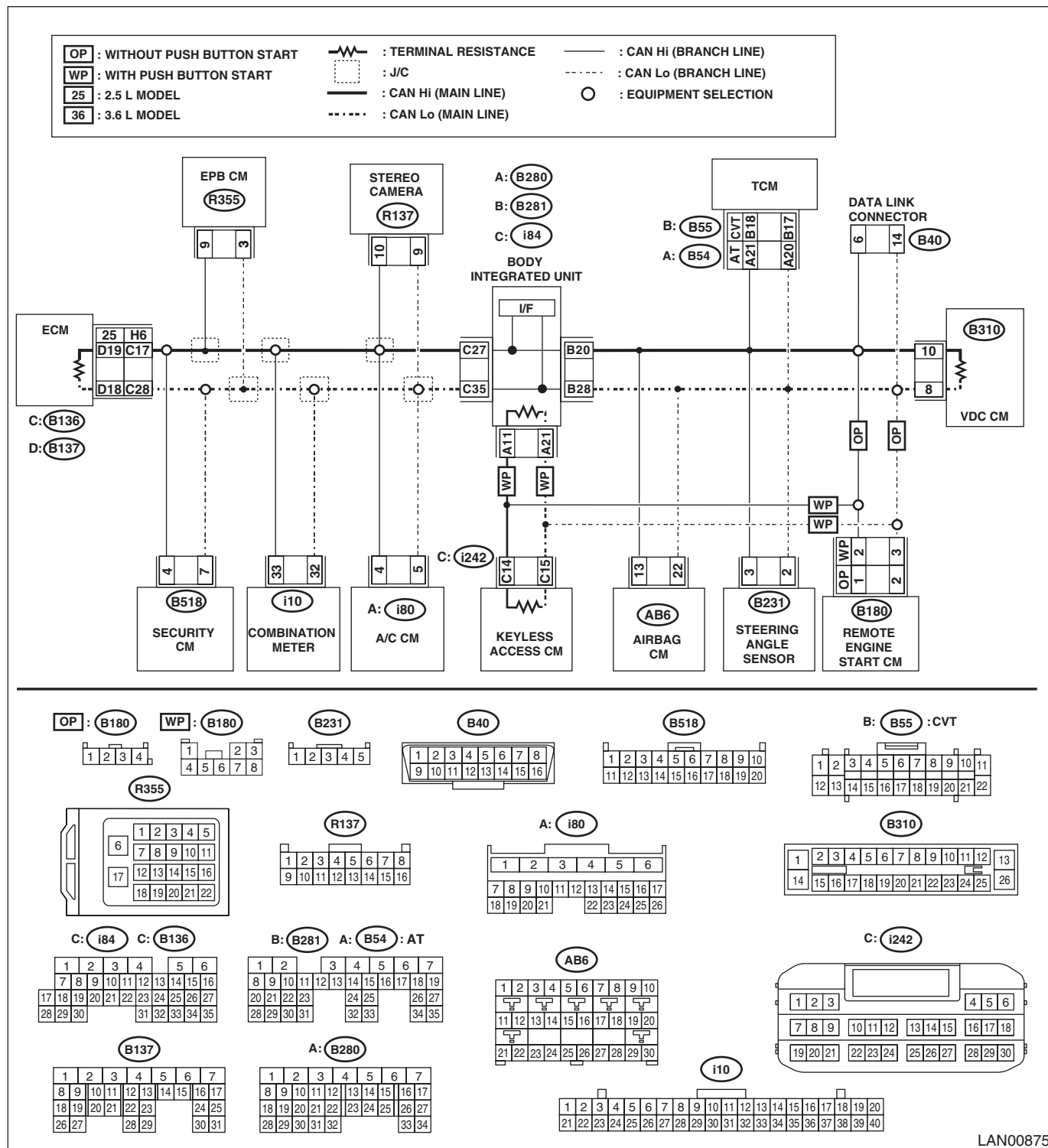
No data from electronic parking brake control module is received.

TROUBLE SYMPTOM:

Electronic parking brake cooperation control does not operate.

WIRING DIAGRAM:

CAN communication system <Ref. to WI-83, WIRING DIAGRAM, CAN Communication System.>



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Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK CAN COMMUNICATION CIRCUIT. Check CAN communication circuit. <Ref. to LAN(diag)-11, BUS "A" (MAIN-CAN), PROCEDURE, CAN Communication Circuit Check.>	Is CAN communication circuit faulty?	Repair the faulty portion, following the diagnosis procedure.	Go to step 2.
2 CHECK DTC. 1) Start the engine. 2) Using the Subaru Select Monitor, read DTC of CAN system.	Is U1229 a current malfunction?	Go to step 3.	It may be a temporary poor contact. Perform the clear memory.
3 CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is C0048, U0128 detected?	Replace the electronic parking CM. <Ref. to PB-7, REMOVAL, Parking Brake Actuator.>	Replace the body integrated unit. <Ref. to SL-84, REMOVAL, Body Integrated Unit.>

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

O: DTC U122A CAN-HS METER NO-RECEIVE DATA

DTC DETECTING CONDITION:

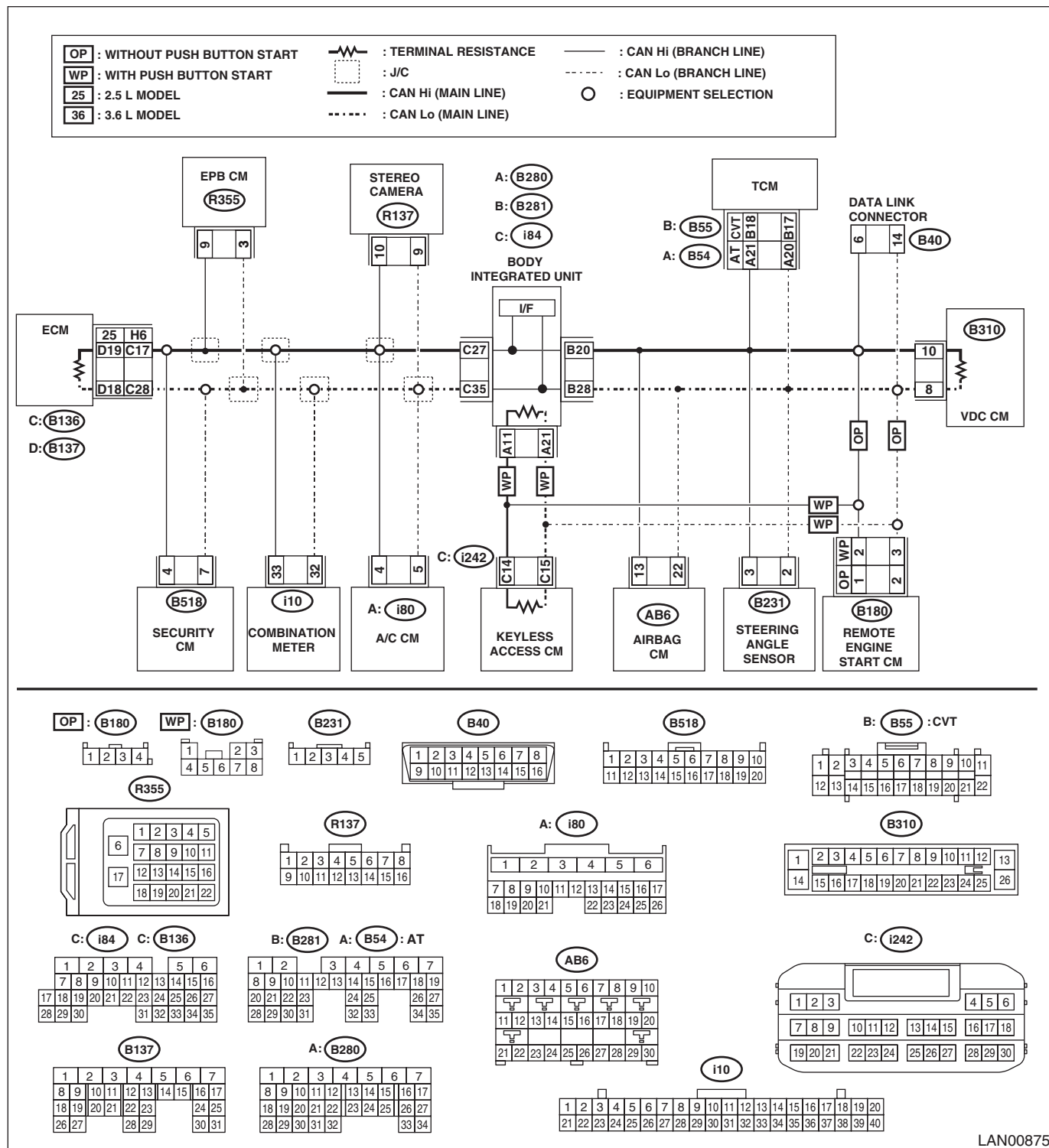
No data received from combination meter.

TROUBLE SYMPTOM:

Display of combination meter does not operate properly.

WIRING DIAGRAM:

CAN communication system <Ref. to WI-83, WIRING DIAGRAM, CAN Communication System.>



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Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK CAN COMMUNICATION CIRCUIT. Check CAN communication circuit. <Ref. to LAN(diag)-11, BUS "A" (MAIN-CAN), PROCEDURE, CAN Communication Circuit Check.>	Is CAN communication circuit faulty?	Repair the faulty portion, following the diagnosis procedure.	Go to step 2.
2 CHECK DTC. 1) Start the engine. 2) Using the Subaru Select Monitor, read DTC of CAN system.	Is U122A a current malfunction?	Go to step 3.	It may be a temporary poor contact. Perform the clear memory.
3 CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is C0267, P1718, P1725, or U0155 detected?	Replace the combination meter. <Ref. to IDI-26, REMOVAL, Combination Meter.>	Replace the body integrated unit. <Ref. to SL-84, REMOVAL, Body Integrated Unit.>

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

P: DTC U122B CAN-HS A/C NO-RECEIVE DATA

DTC DETECTING CONDITION:

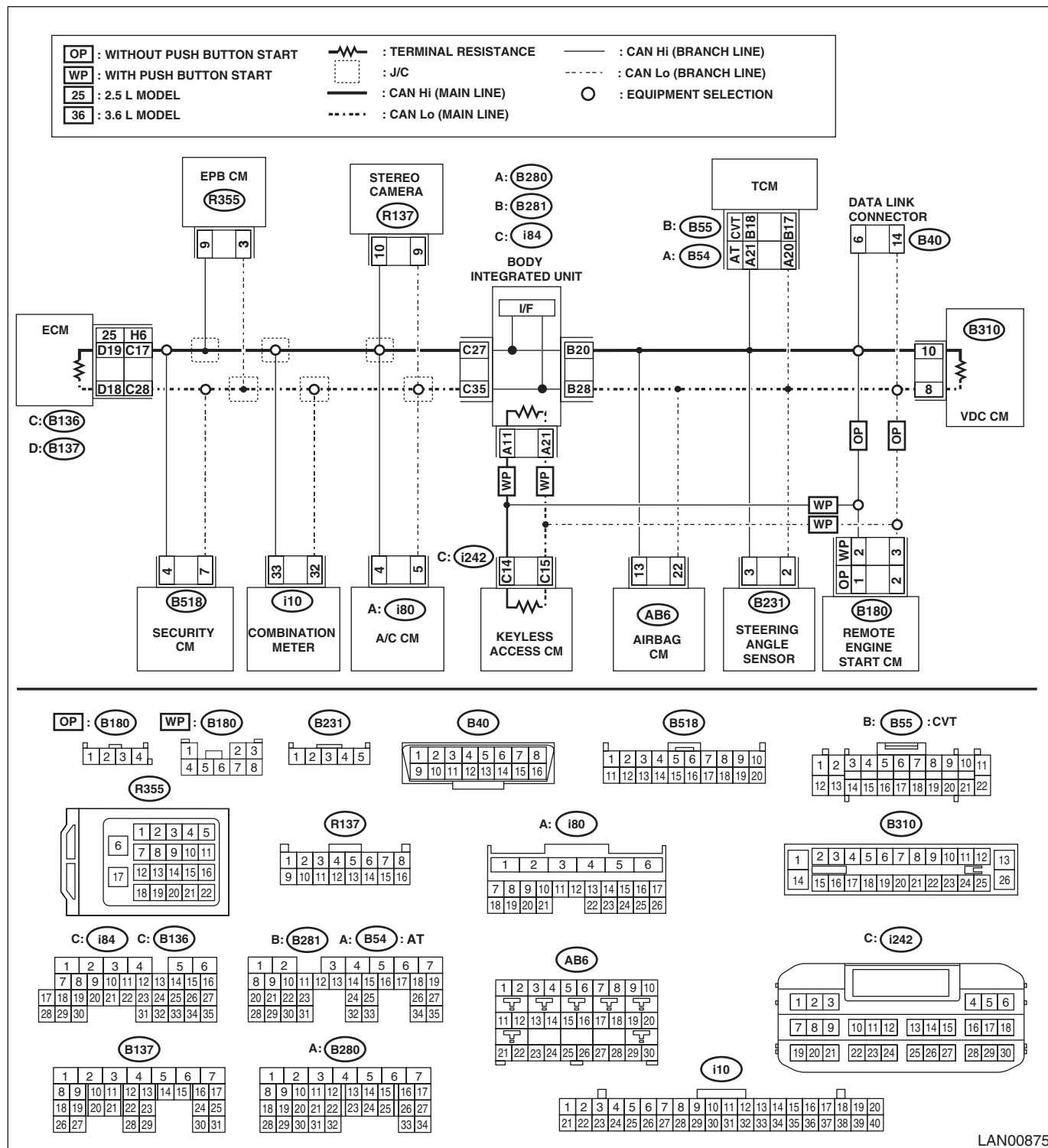
No data received from A/C CM.

TROUBLE SYMPTOM:

Cooperation control of air conditioner does not operate properly.

WIRING DIAGRAM:

CAN communication system <Ref. to WI-83, WIRING DIAGRAM, CAN Communication System.>



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Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK CAN COMMUNICATION CIRCUIT. Check CAN communication circuit. <Ref. to LAN(diag)-11, BUS "A" (MAIN-CAN), PROCEDURE, CAN Communication Circuit Check.>	Is CAN communication circuit faulty?	Repair the faulty portion, following the diagnosis procedure.	Go to step 2.
2 CHECK DTC. 1) Start the engine. 2) Using the Subaru Select Monitor, read DTC of CAN system.	Is U122B a current malfunction?	Go to step 3.	It may be a temporary poor contact. Perform the clear memory.
3 CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is P1718 or P1725 detected?	Replace the A/C CM. <Ref. to AC-56, REMOVAL, Control Unit.>	Go to step 4.
4 CHECK DTC. 1) Turn the ignition switch to OFF. 2) Install normal A/C CM from another vehicle to the faulty vehicle. 3) Turn the ignition switch to ON. 4) Using the Subaru Select Monitor, read DTC of CAN system.	Is U122B a current malfunction?	Replace the body integrated unit. <Ref. to SL-84, REMOVAL, Body Integrated Unit.>	Replace the A/C CM. <Ref. to AC-56, REMOVAL, Control Unit.>

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Q: DTC U122C CAN-HS SCU NO-RECEIVE DATA

DTC DETECTING CONDITION:

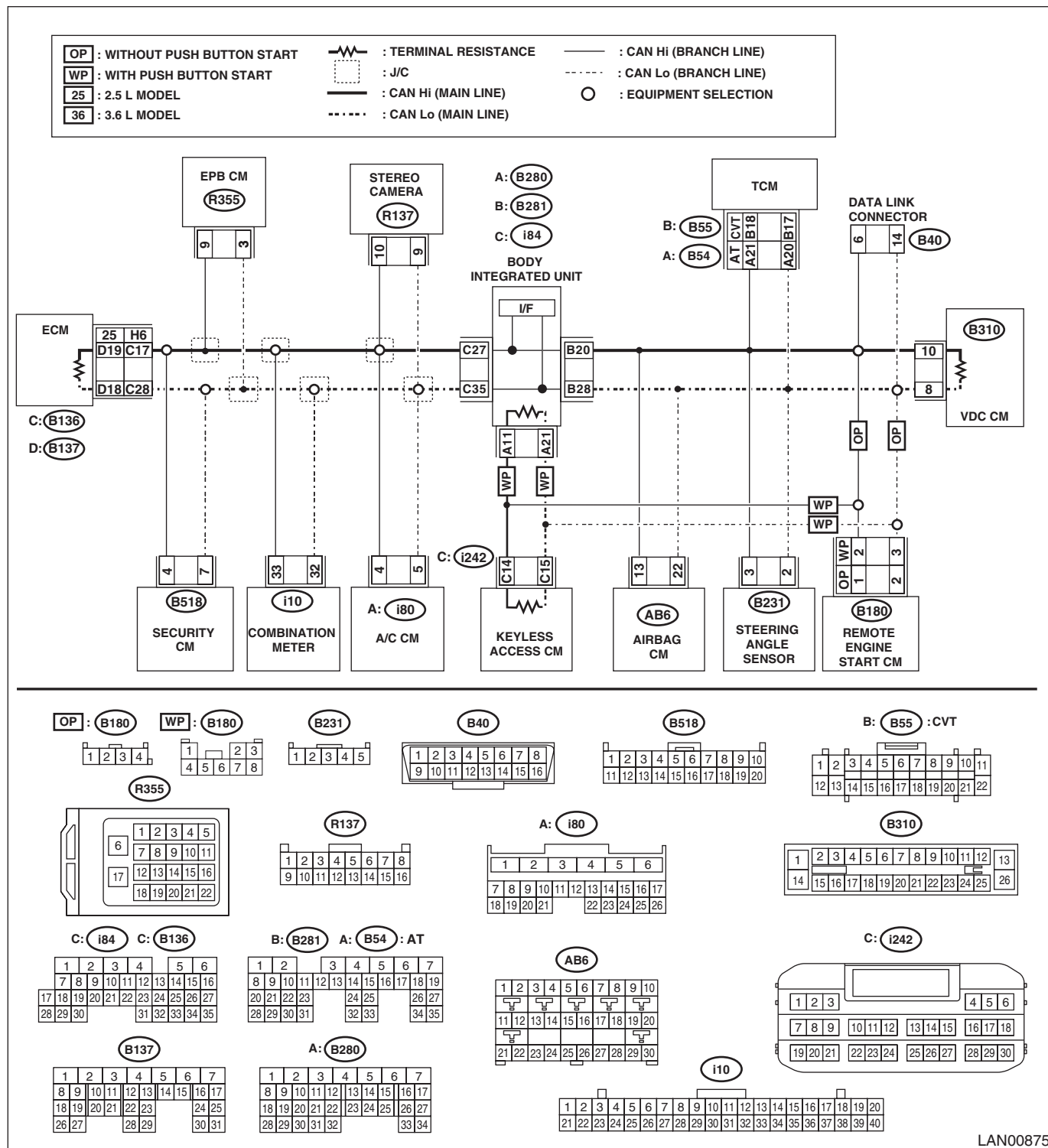
No data received from SCM.

TROUBLE SYMPTOM:

Immobilizer does not operate normally.

WIRING DIAGRAM:

CAN communication system <Ref. to WI-83, WIRING DIAGRAM, CAN Communication System.>



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LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK CAN COMMUNICATION CIRCUIT. Check CAN communication circuit. <Ref. to LAN(diag)-11, BUS "A" (MAIN-CAN), PROCEDURE, CAN Communication Circuit Check.>	Is CAN communication circuit faulty?	Repair the faulty portion, following the diagnosis procedure.	Go to step 2.
2 CHECK DTC. 1) Start the engine. 2) Using the Subaru Select Monitor, read DTC of CAN system.	Is U122C a current malfunction?	Go to step 3.	It may be a temporary poor contact. Perform the clear memory.
3 CHECK DTC. 1) Turn the ignition switch to OFF. 2) Install normal SCM from another vehicle to the faulty vehicle. 3) Turn the ignition switch to ON. 4) Using the Subaru Select Monitor, read DTC of CAN system.	Is U122C a current malfunction?	Replace the body integrated unit. <Ref. to SL-84, REMOVAL, Body Integrated Unit.>	Replace SCM. <Ref. to SL-78, REMOVAL, Security Control Module.>

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

R: DTC U0073 CONTROL MODULE COMMUNICATION BUS "A" OFF

DTC DETECTING CONDITION:

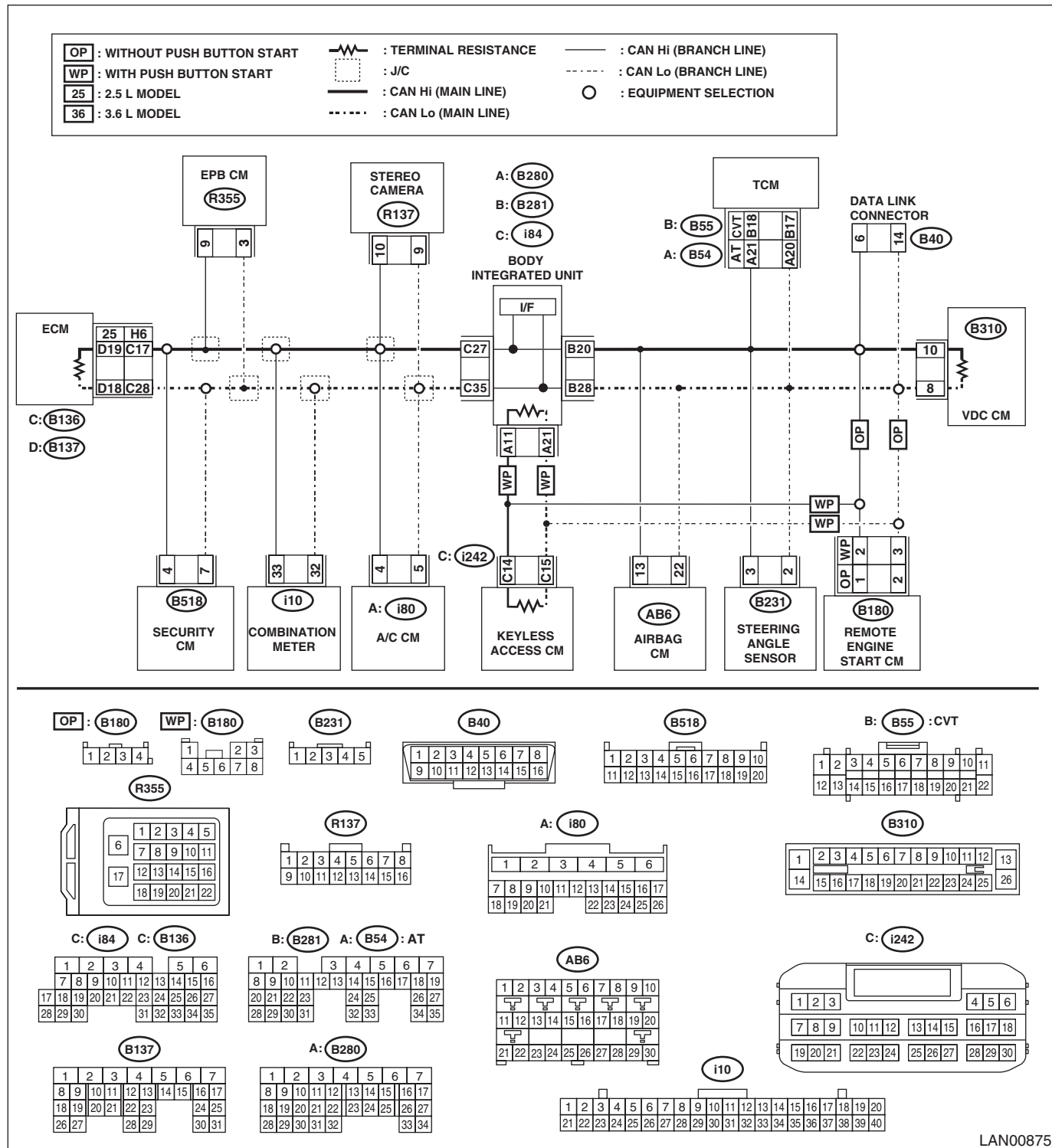
Communication is shut down because of high speed CAN error.

TROUBLE SYMPTOM:

CAN communication is not normal.

WIRING DIAGRAM:

CAN communication system <Ref. to WI-83, WIRING DIAGRAM, CAN Communication System.>



LAN00875

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

	Step	Check	Yes	No
1	CHECK DTC. 1) Start the engine. 2) Using the Subaru Select Monitor, read DTC of all the systems.	Is U0073 a current malfunction?	Go to step 2.	It may be a temporary poor contact. Perform the clear memory.
2	CHECK CAN COMMUNICATION CIRCUIT. Check CAN communication circuit. <Ref. to LAN(diag)-11, BUS "A" (MAIN-CAN), PROCEDURE, CAN Communication Circuit Check.>	Is CAN communication circuit faulty?	Repair the faulty portion, following the diagnosis procedure.	Go to step 3.
3	CHECK DTC. 1) Start the engine. 2) Using the Subaru Select Monitor, read DTC of all the systems.	Is U0073 a current malfunction?	Go to step 4.	System is normal.
4	CHECK CONTROL MODULE. 1) Turn the ignition switch to OFF. 2) Disconnect the control modules other than body integrated unit in order. NOTE: When disconnecting ECM or VDC CM, connect resistance of 120 Ω between CAN Hi and CAN Lo as an alternative of end resistance. 3) Turn the ignition switch to ON. 4) Using the Subaru Select Monitor, read DTC of CAN system.	Is there any control module that U0073 is not detected as current malfunction?	Replace the control module.	Repeat 1) to 4) in step 4 until U0073 is not detected.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

S: DTC U0401 INVALID DATA RECEIVED FROM ECM/PCM "A"

DTC DETECTING CONDITION:

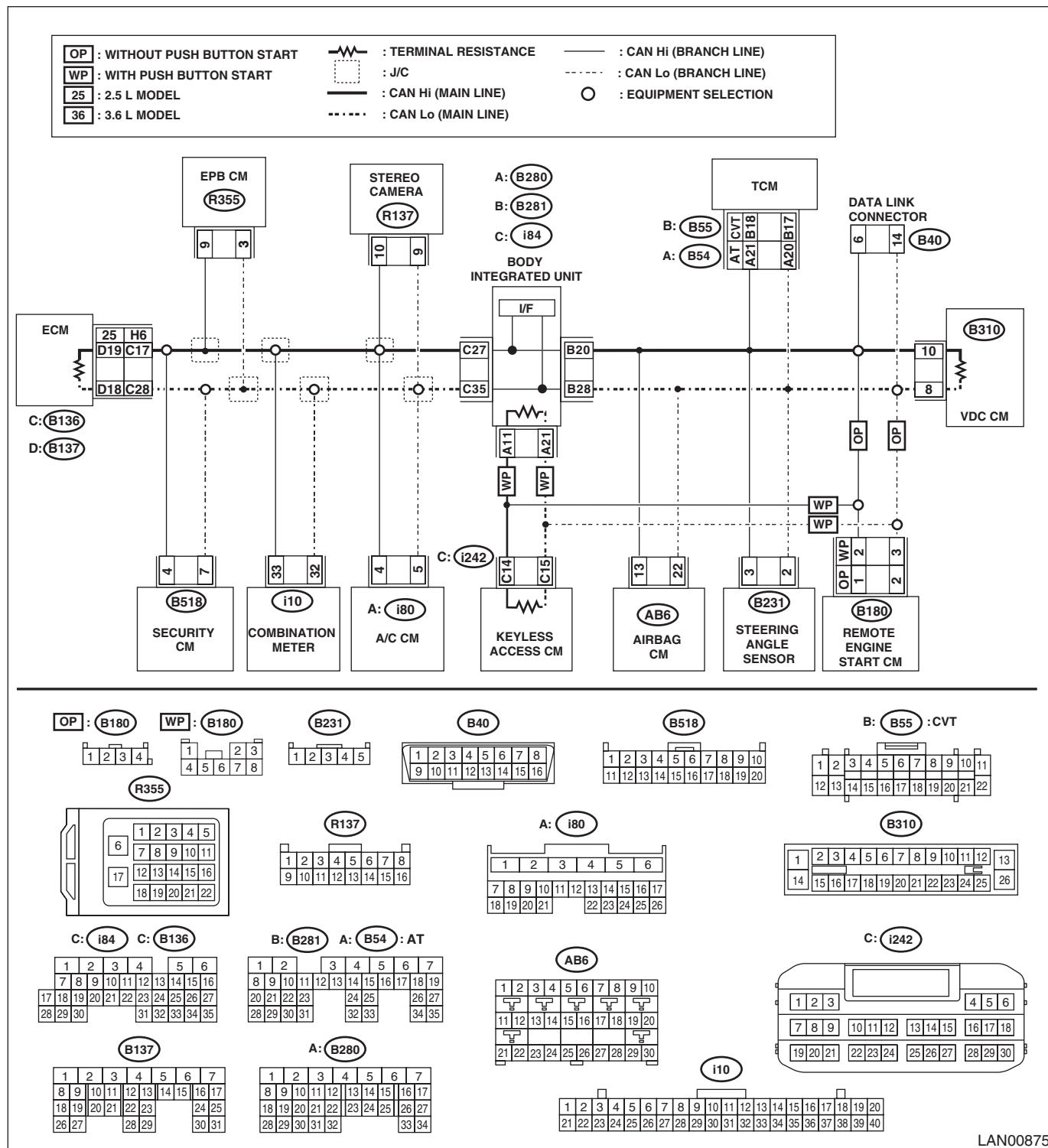
Defective data from ECM.

TROUBLE SYMPTOM:

Defective data on CAN communication occurs.

WIRING DIAGRAM:

CAN communication system <Ref. to WI-83, WIRING DIAGRAM, CAN Communication System.>



LAN00875

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

	Step	Check	Yes	No
1	CHECK DTC. Check the displayed DTC.	Are DTCs other than U*** displayed?	Perform the diagnosis according to DTC.	Go to step 2.
2	CHECK DTC. Check the displayed DTC.	Is DTC for the buss off or the data no-receive displayed?	Perform the diagnosis according to DTC.	Go to step 3.
3	CHECK DTC. Check the displayed DTC.	Is U0401 a current malfunction?	Go to step 4.	Go to step 8.
4	CHECK DTC. 1) Turn the ignition switch to OFF. 2) Disconnect the ECM connector. 3) Connect the disconnected connectors. 4) Read the DTC using Subaru Select Monitor.	Is U0401 a current malfunction?	Go to step 5.	Go to step 8.
5	CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is the engine data abnormal detected in several modules?	Replace the ECM. <Ref. to FU(H4DO)-99, Engine Control Module (ECM).>	Go to step 6.
6	REPLACE MODULE. 1) Replace the ECM. 2) Read the DTC using Subaru Select Monitor.	Is U0401 a current malfunction?	Go to step 7.	System is normal.
7	CHECK MODULE. 1) Reinstall the ECM. 2) Replace the module that the DTC has been detected. 3) Read the DTC using Subaru Select Monitor.	Is U0401 a current malfunction?	Replace the ECM. <Ref. to FU(H4DO)-99, Engine Control Module (ECM).>	System is normal.
8	CHECK HARNESS. 1) Shake the harness, and check for poor contact. 2) Using the Subaru Select Monitor, read DTC of CAN system.	Is U0401 a current malfunction?	Repair the poor contact of harness, or replace the harness.	Go to step 9.
9	CHECK CONNECTOR. Check the connector used for high speed CAN for poor contact.	Is there poor contact of connector?	Repair the connector that has poor contact, or replace harness.	It is possible that temporary poor communication occurs. Delete the DTC.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

T: DTC U0402 INVALID DATA RECEIVED FROM TCM

DTC DETECTING CONDITION:

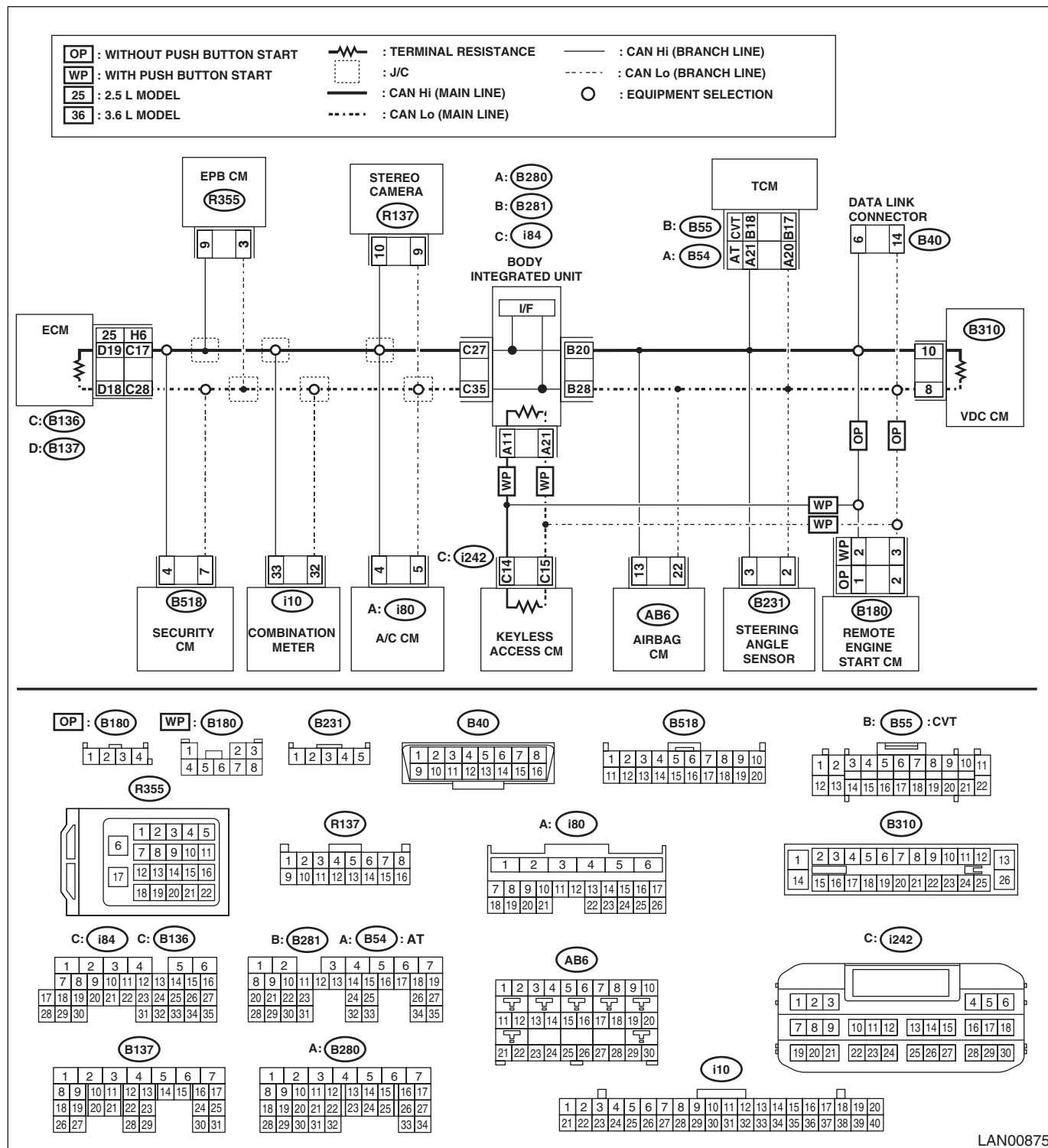
Received error data from TCM.

TROUBLE SYMPTOM:

SPORT indicator light blinks.

WIRING DIAGRAM:

CAN communication system <Ref. to WI-83, WIRING DIAGRAM, CAN Communication System.>



LAN00875

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

	Step	Check	Yes	No
1	CHECK DTC. Check the displayed DTC.	Are DTCs other than U*** displayed?	Perform the diagnosis according to DTC.	Go to step 2.
2	CHECK DTC. Check the displayed DTC.	Is DTC for the buss off or the data no-receive displayed?	Perform the diagnosis according to DTC.	Go to step 3.
3	CHECK DTC. Check the displayed DTC.	Is U0402 a current malfunction?	Go to step 4.	Go to step 8.
4	CHECK DTC. 1) Turn the ignition switch to OFF. 2) Disconnect the TCM connector. 3) Connect the disconnected connectors. 4) Read the DTC using Subaru Select Monitor.	Is U0402 a current malfunction?	Go to step 5.	Go to step 8.
5	CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is the transmission data abnormal detected in several modules?	Replace the TCM.	Go to step 6.
6	REPLACE MODULE. 1) Replace the TCM. 2) Read the DTC using Subaru Select Monitor.	Is U0402 a current malfunction?	Go to step 7.	System is normal.
7	CHECK MODULE. 1) Reinstall the TCM. 2) Replace the module that the DTC has been detected. 3) Read the DTC using Subaru Select Monitor.	Is U0402 a current malfunction?	Replace the TCM.	System is normal.
8	CHECK HARNESS. 1) Shake the harness, and check for poor contact. 2) Using the Subaru Select Monitor, read DTC of CAN system.	Is U0402 a current malfunction?	Repair the poor contact of harness, or replace the harness.	Go to step 9.
9	CHECK CONNECTOR. Check the connector used for high speed CAN for poor contact.	Is there poor contact of connector?	Repair the connector that has poor contact, or replace harness.	It is possible that temporary poor communication occurs. Delete the DTC.

LAN SYSTEM (DIAGNOSTICS)

CAN communication system <Ref. to WI-83, WIRING DIAGRAM, CAN Communication System.>



Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

	Step	Check	Yes	No
1	CHECK DTC. Check the displayed DTC.	Are DTCs other than U*** displayed?	Perform the diagnosis according to DTC.	Go to step 2.
2	CHECK DTC. Check the displayed DTC.	Is DTC for the buss off or the data no-receive displayed?	Perform the diagnosis according to DTC.	Go to step 3.
3	CHECK DTC. Check the displayed DTC.	Is U0416 a current malfunction?	Go to step 4.	Go to step 8.
4	CHECK DTC. 1) Turn the ignition switch to OFF. 2) Disconnect the VDC CM connector. 3) Connect the disconnected connectors. 4) Read the DTC using Subaru Select Monitor.	Is U0416 a current malfunction?	Go to step 5.	Go to step 8.
5	CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is the VDC data abnormal detected in several modules?	Replace the VDC CM. <Ref. to VDC-10, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>	Go to step 6.
6	REPLACE MODULE. 1) Replace the VDC CM. 2) Read the DTC using Subaru Select Monitor.	Is U0416 a current malfunction?	Go to step 7.	System is normal.
7	CHECK MODULE. 1) Reinstall the VDC CM. 2) Replace the module that the DTC has been detected. 3) Read the DTC using Subaru Select Monitor.	Is U0416 a current malfunction?	Replace the VDC CM. <Ref. to VDC-10, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>	System is normal.
8	CHECK HARNESS. 1) Shake the harness, and check for poor contact. 2) Using the Subaru Select Monitor, read DTC of CAN system.	Is U0416 a current malfunction?	Repair the poor contact of harness, or replace the harness.	Go to step 9.
9	CHECK CONNECTOR. Check the connector used for high speed CAN for poor contact.	Is there poor contact of connector?	Repair the connector that has poor contact, or replace harness.	It is possible that temporary poor communication occurs. Delete the DTC.

LAN SYSTEM (DIAGNOSTICS)

CAN communication system <Ref. to WI-83, WIRING DIAGRAM, CAN Communication System.>



Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

	Step	Check	Yes	No
1	CHECK DTC. Check the displayed DTC.	Are DTCs other than U*** displayed?	Perform the diagnosis according to DTC.	Go to step 2.
2	CHECK DTC. Check the displayed DTC.	Is DTC for the buss off or the data no-receive displayed?	Perform the diagnosis according to DTC.	Go to step 3.
3	CHECK DTC. Check the displayed DTC.	Is U0417 a current malfunction?	Go to step 4.	Go to step 8.
4	CHECK DTC. 1) Turn the ignition switch to OFF. 2) Disconnect the electronic parking CM connector. 3) Connect the disconnected connectors. 4) Read the DTC using Subaru Select Monitor.	Is U0417 a current malfunction?	Go to step 5.	Go to step 8.
5	CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is the electronic parking data abnormal detected in several modules?	Replace the electronic parking CM.	Go to step 6.
6	REPLACE MODULE. 1) Replace the electronic parking CM. 2) Read the DTC using Subaru Select Monitor.	Is U0417 a current malfunction?	Go to step 7.	System is normal.
7	CHECK MODULE. 1) Reinstall the electronic parking CM. 2) Replace the module that the DTC has been detected. 3) Read the DTC using Subaru Select Monitor.	Is U0417 a current malfunction?	Replace the electronic parking CM.	System is normal.
8	CHECK HARNESS. 1) Shake the harness, and check for poor contact. 2) Read the DTC using Subaru Select Monitor.	Is U0417 a current malfunction?	Repair the poor contact of harness, or replace the harness.	Go to step 9.
9	CHECK CONNECTOR. Check the connector used for high speed CAN for poor contact.	Is there poor contact of connector?	Repair the connector that has poor contact, or replace harness.	It is possible that temporary poor communication occurs. Delete the DTC.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

W: DTC U0422 INVALID DATA RECEIVED FROM BODY CONTROL MODULE

DTC DETECTING CONDITION:

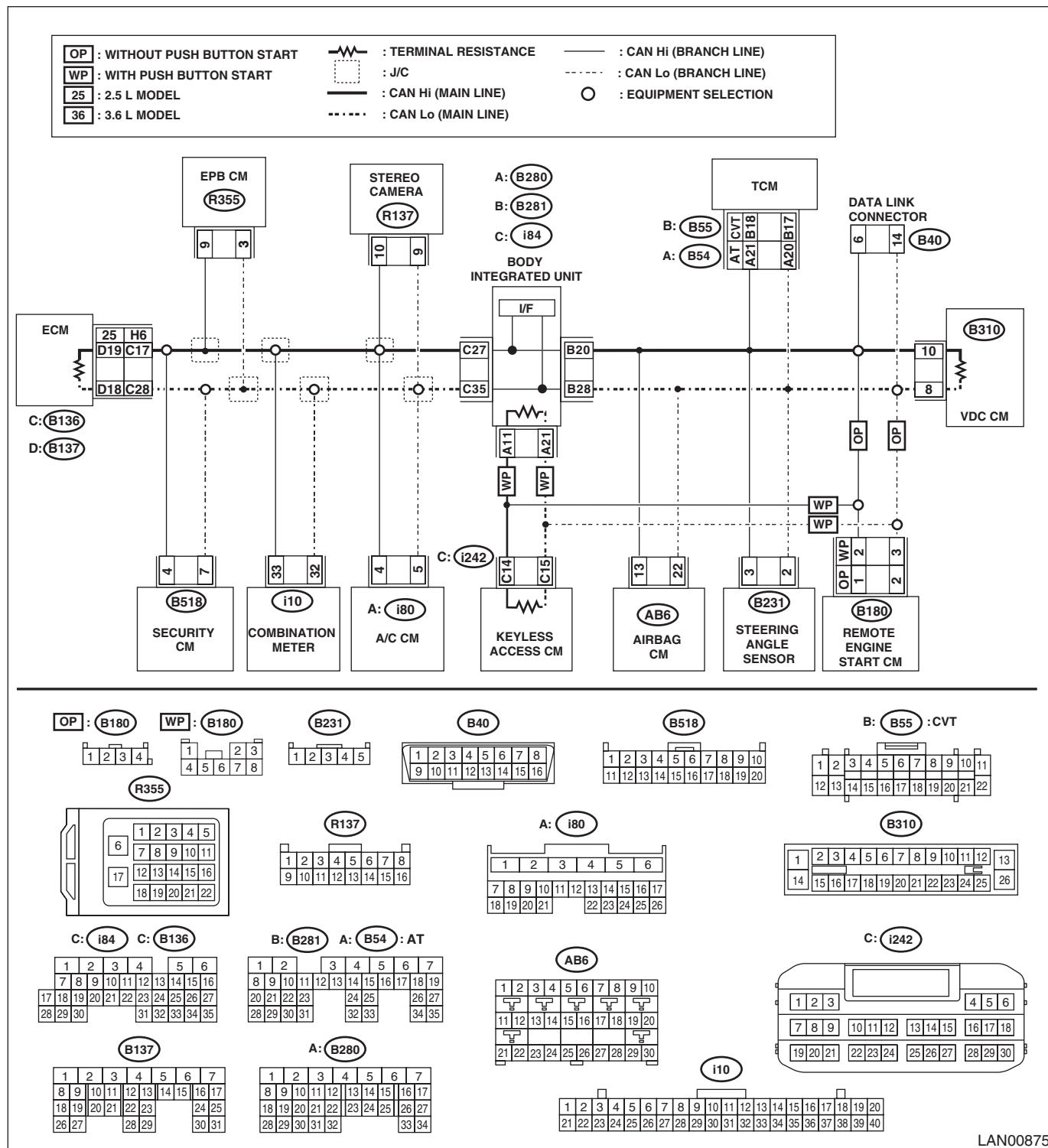
Defective data was transmitted from body integrated unit.

TROUBLE SYMPTOM:

Cooperation control with body integrated unit does not operate properly.

WIRING DIAGRAM:

CAN communication system <Ref. to WI-83, WIRING DIAGRAM, CAN Communication System.>



LAN00875

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Step		Check	Yes	No
1	CHECK DTC. Check the displayed DTC.	Are DTCs other than U*** displayed?	Perform the diagnosis according to DTC.	Go to step 2.
2	CHECK DTC. Check the displayed DTC.	Is DTC for the buss off or the data no-receive displayed?	Perform the diagnosis according to DTC.	Go to step 3.
3	CHECK DTC. Check the displayed DTC.	Is U0422 a current malfunction?	Go to step 4.	Go to step 8.
4	CHECK DTC. 1) Turn the ignition switch to OFF. 2) Disconnect the body integrated unit connector. 3) Connect the disconnected connectors. 4) Read the DTC using Subaru Select Monitor.	Is U0422 a current malfunction?	Go to step 5.	Go to step 8.
5	CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is the body integrated data abnormal detected in several modules?	Replace the body integrated unit. <Ref. to SL-84, Body Integrated Unit.>	Go to step 6.
6	REPLACE MODULE. 1) Replace the body integrated unit. 2) Read the DTC using Subaru Select Monitor.	Is U0422 a current malfunction?	Go to step 7.	System is normal.
7	CHECK MODULE. 1) Reinstall the body integrated unit. 2) Replace the module that the DTC has been detected. 3) Read the DTC using Subaru Select Monitor.	Is U0422 a current malfunction?	Replace the body integrated unit. <Ref. to SL-84, Body Integrated Unit.>	System is normal.
8	CHECK HARNESS. 1) Shake the harness, and check for poor contact. 2) Using the Subaru Select Monitor, read DTC of CAN system.	Is U0422 a current malfunction?	Repair the poor contact of harness, or replace the harness.	Go to step 9.
9	CHECK CONNECTOR. Check the connector used for high speed CAN for poor contact.	Is there poor contact of connector?	Repair the connector that has poor contact, or replace harness.	It is possible that temporary poor communication occurs. Delete the DTC.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

X: DTC U0423 INVALID DATA RECEIVED FROM INSTRUMENT PANEL CLUSTER CONTROL MODULE

DTC DETECTING CONDITION:

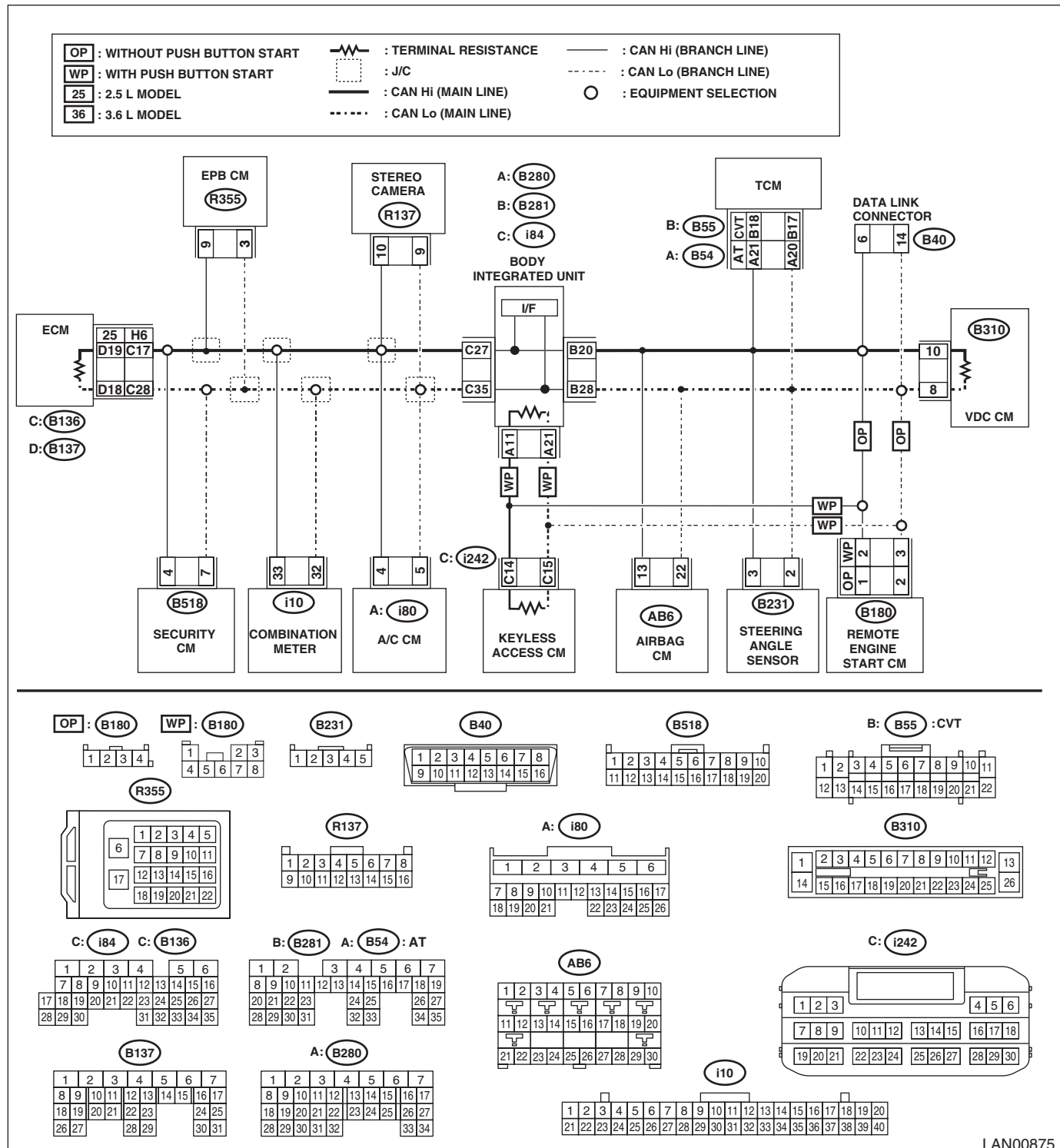
Defective data was transmitted from combination meter.

TROUBLE SYMPTOM:

Display of combination meter does not operate properly.

WIRING DIAGRAM:

CAN communication system <Ref. to WI-83, WIRING DIAGRAM, CAN Communication System.>



LAN00875

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

	Step	Check	Yes	No
1	CHECK DTC. Check the displayed DTC.	Are DTCs other than U*** displayed?	Perform the diagnosis according to DTC.	Go to step 2.
2	CHECK DTC. Check the displayed DTC.	Is DTC for the buss off or the data no-receive displayed?	Perform the diagnosis according to DTC.	Go to step 3.
3	CHECK DTC. Check the displayed DTC.	Is U0423 a current malfunction?	Go to step 4.	Go to step 8.
4	CHECK DTC. 1) Turn the ignition switch to OFF. 2) Disconnect the combination meter connector. 3) Connect the disconnected connectors. 4) Read the DTC using Subaru Select Monitor.	Is U0423 a current malfunction?	Go to step 5.	Go to step 8.
5	CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is the meter data abnormal detected in several modules?	Replace the combination meter. <Ref. to IDI-26, Combination Meter.>	Go to step 6.
6	REPLACE MODULE. 1) Replace the combination meter. 2) Read the DTC using Subaru Select Monitor.	Is U0423 a current malfunction?	Go to step 7.	System is normal.
7	CHECK MODULE. 1) Replace the current combination meter with the original combination meter. 2) Replace the module that the DTC has been detected. 3) Read the DTC using Subaru Select Monitor.	Is U0423 a current malfunction?	Replace the combination meter. <Ref. to IDI-26, Combination Meter.>	System is normal.
8	CHECK HARNESS. 1) Shake the harness, and check for poor contact. 2) Using the Subaru Select Monitor, read DTC of CAN system.	Is U0423 a current malfunction?	Repair the poor contact of harness, or replace the harness.	Go to step 9.
9	CHECK CONNECTOR. Check the connector used for high speed CAN for poor contact.	Is there poor contact of connector?	Repair the connector that has poor contact, or replace harness.	It is possible that temporary poor communication occurs. Delete the DTC.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Y: DTC U1433 INVALID DATA RECEIVED FROM EyeSight

DTC DETECTING CONDITION:

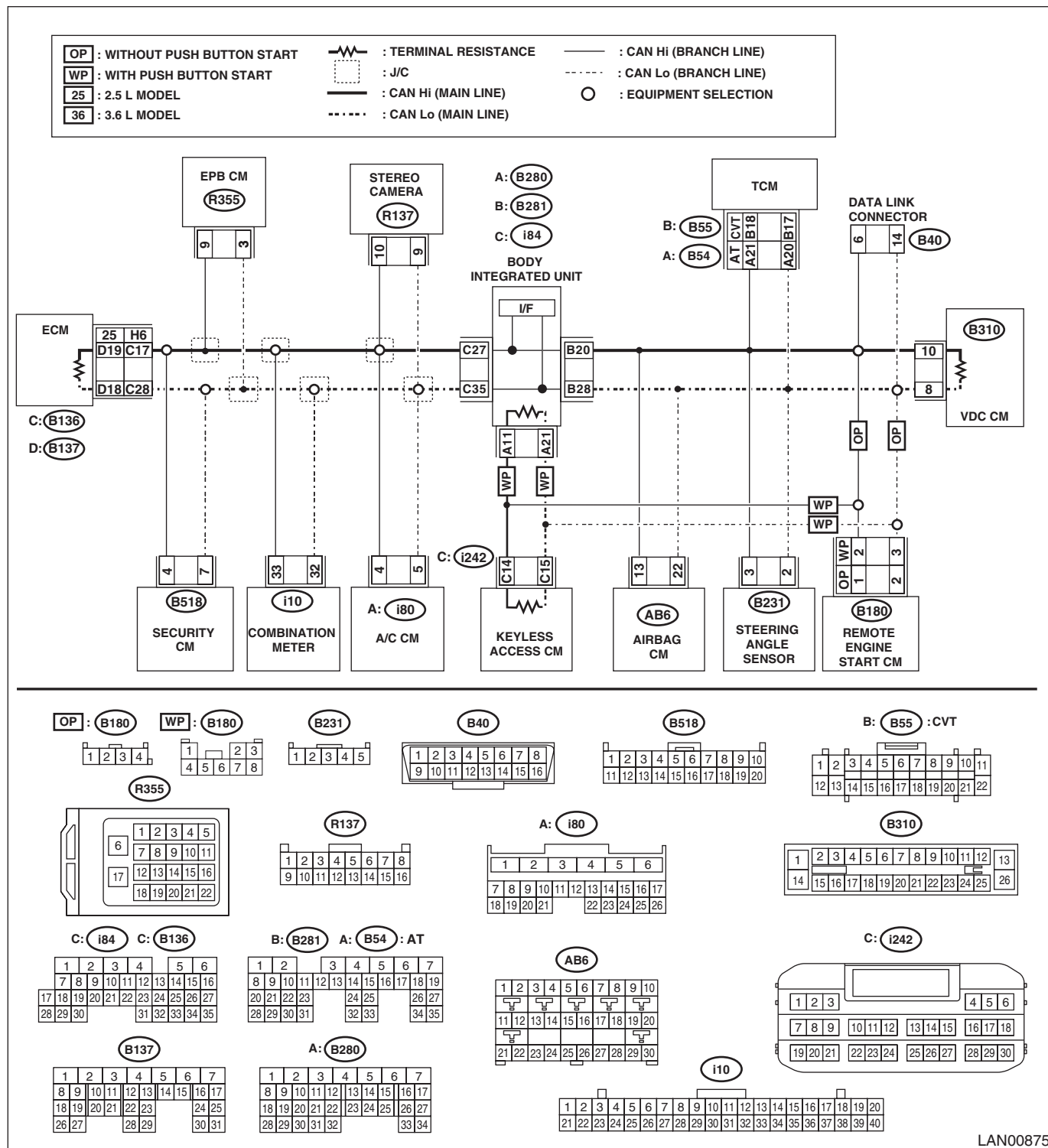
Defective data was transmitted from stereo camera.

TROUBLE SYMPTOM:

Cooperation control of EyeSight does not operate properly.

WIRING DIAGRAM:

CAN communication system <Ref. to WI-83, WIRING DIAGRAM, CAN Communication System.>



LAN00875

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

	Step	Check	Yes	No
1	CHECK DTC. Check the displayed DTC.	Are DTCs other than U*** displayed?	Perform the diagnosis according to DTC.	Go to step 2.
2	CHECK DTC. Check the displayed DTC.	Is DTC for the buss off or the data no-receive displayed?	Perform the diagnosis according to DTC.	Go to step 3.
3	CHECK DTC. Check the displayed DTC.	Is U1433 a current malfunction?	Go to step 4.	Go to step 8.
4	CHECK DTC. 1) Turn the ignition switch to OFF. 2) Disconnect the stereo camera connector. 3) Connect the disconnected connectors. 4) Read the DTC using Subaru Select Monitor.	Is U1433 a current malfunction?	Go to step 5.	Go to step 8.
5	CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is the EyeSight data abnormal detected in several modules?	Replace the stereo camera. <Ref. to ES-8, Stereo Camera.>	Go to step 6.
6	REPLACE MODULE. 1) Replace the stereo camera. 2) Read the DTC using Subaru Select Monitor.	Is U1433 a current malfunction?	Go to step 7.	System is normal.
7	CHECK MODULE. 1) Reinstall the stereo camera. 2) Replace the module that the DTC has been detected. 3) Read the DTC using Subaru Select Monitor.	Is U1433 a current malfunction?	Replace the stereo camera. <Ref. to ES-8, Stereo Camera.>	System is normal.
8	CHECK HARNESS. 1) Shake the harness, and check for poor contact. 2) Using the Subaru Select Monitor, read DTC of CAN system.	Is U1433 a current malfunction?	Repair the poor contact of harness, or replace the harness.	Go to step 9.
9	CHECK CONNECTOR. Check the connector used for high speed CAN for poor contact.	Is there poor contact of connector?	Repair the connector that has poor contact, or replace harness.	It is possible that temporary poor communication occurs. Delete the DTC.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Z: DTC U0100 LOST COMMUNICATION WITH ECM/PCM "A"

DTC DETECTING CONDITION:

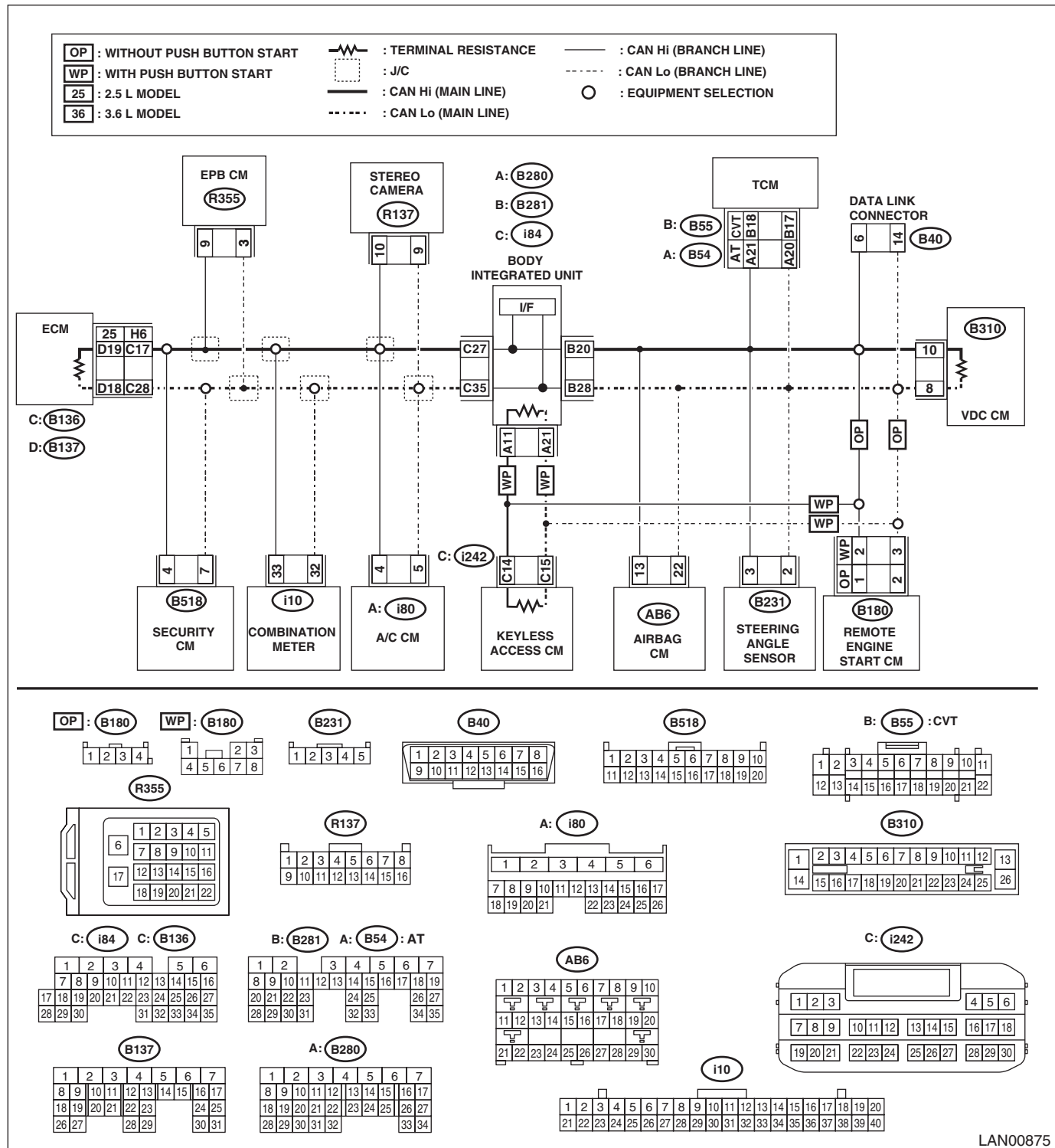
Not received data from ECM.

TROUBLE SYMPTOM:

Cooperation control of transmission may not operate properly.

WIRING DIAGRAM:

CAN communication system <Ref. to WI-83, WIRING DIAGRAM, CAN Communication System.>



LAN00875

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

	Step	Check	Yes	No
1	CHECK DTC. Check the displayed DTC.	Are DTCs other than U*** displayed?	Perform the diagnosis according to DTC.	Go to step 2.
2	CHECK DTC. Check the displayed DTC.	Is U0100 a current malfunction?	Go to step 3.	Go to step 7.
3	CHECK DTC. 1) Check CAN communication circuit. <Ref. to LAN(diag)-11, BUS "A" (MAIN-CAN), PROCEDURE, CAN Communication Circuit Check.> 2) Read the DTC using Subaru Select Monitor.	Is U0100 a current malfunction?	Go to step 4.	Go to step 7.
4	CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is the engine data no-receive detected in several modules?	Replace the ECM. <Ref. to FU(H4DO)-99, Engine Control Module (ECM).>	Go to step 5.
5	REPLACE MODULE. 1) Replace the ECM. 2) Read the DTC using Subaru Select Monitor.	Is U0100 a current malfunction?	Go to step 6.	System is normal.
6	CHECK MODULE. 1) Reinstall the ECM. 2) Replace the module that the DTC has been detected. 3) Read the DTC using Subaru Select Monitor.	Is U0100 a current malfunction?	Replace the ECM. <Ref. to FU(H4DO)-99, Engine Control Module (ECM).>	System is normal.
7	CHECK HARNESS. 1) Shake the harness, and check for poor contact. 2) Read the DTC using Subaru Select Monitor.	Is U0100 a current malfunction?	Repair the poor contact of harness, or replace the harness.	Go to step 8.
8	CHECK CONNECTOR. Check the connector used for high speed CAN for poor contact.	Is there poor contact of connector?	Repair the connector that has poor contact, or replace harness.	It is possible that temporary poor communication occurs. Delete the DTC.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

AA:DTC U0101 LOST COMMUNICATION WITH TCM

DTC DETECTING CONDITION:

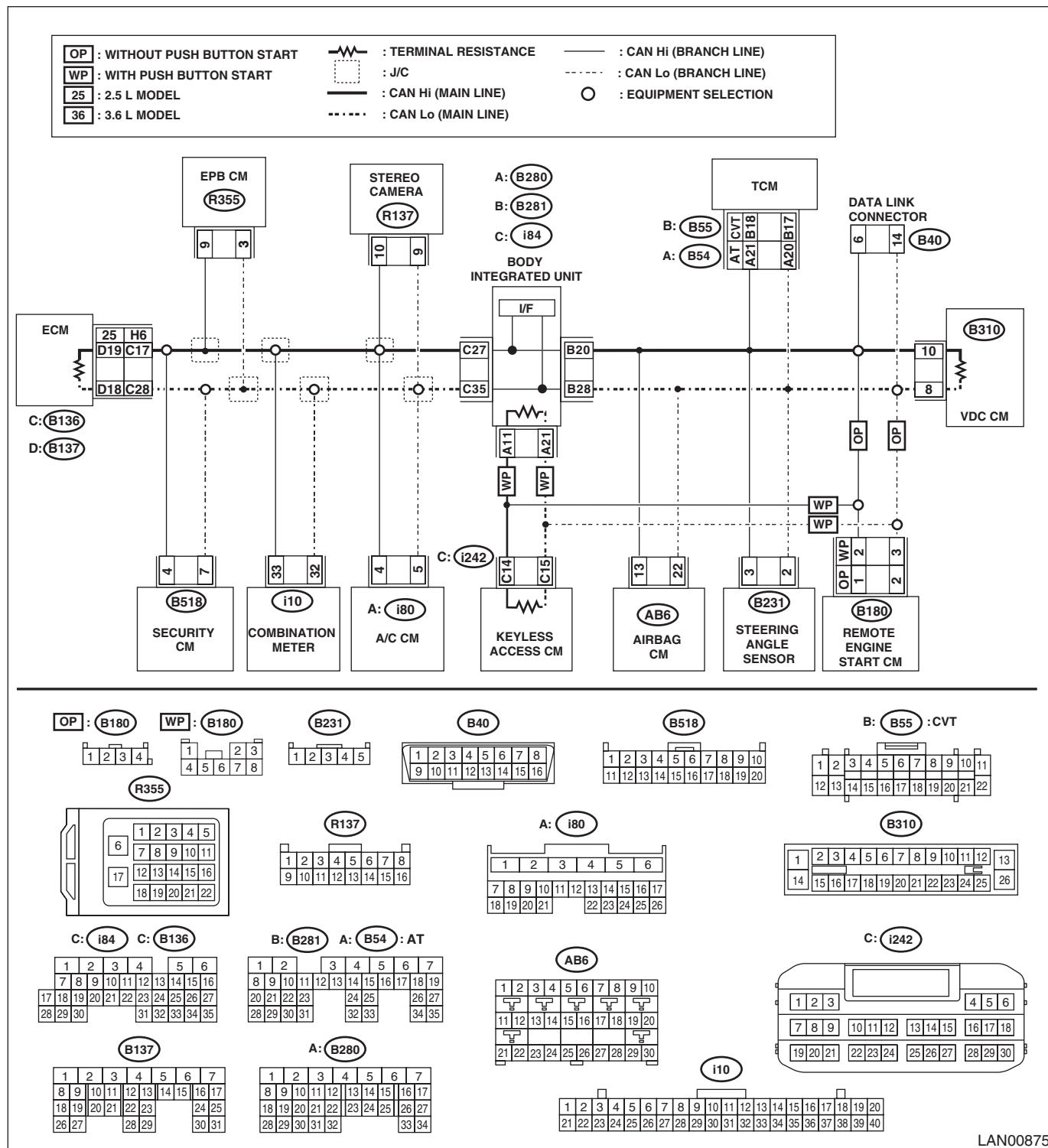
Not received data from TCM.

TROUBLE SYMPTOM:

Cooperation control with transmission is not performed.

WIRING DIAGRAM:

CAN communication system <Ref. to WI-83, WIRING DIAGRAM, CAN Communication System.>



LAN00875

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Step		Check	Yes	No
1	CHECK DTC. Check the displayed DTC.	Are DTCs other than U*** displayed?	Perform the diagnosis according to DTC.	Go to step 2.
2	CHECK DTC. Check the displayed DTC.	Is U0101 a current malfunction?	Go to step 3.	Go to step 7.
3	CHECK DTC. 1) Check CAN communication circuit. <Ref. to LAN(diag)-11, BUS "A" (MAIN-CAN), PROCEDURE, CAN Communication Circuit Check.> 2) Read the DTC using Subaru Select Monitor.	Is U0101 a current malfunction?	Go to step 4.	Go to step 7.
4	CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is the transmission data no-receive detected in several modules?	Replace the TCM.	Go to step 5.
5	REPLACE MODULE. 1) Replace the TCM. 2) Read the DTC using Subaru Select Monitor.	Is U0101 a current malfunction?	Go to step 6.	System is normal.
6	CHECK MODULE. 1) Reinstall the TCM. 2) Replace the module that the DTC has been detected. 3) Read the DTC using Subaru Select Monitor.	Is U0101 a current malfunction?	Replace the TCM.	System is normal.
7	CHECK HARNESS. 1) Shake the harness, and check for poor contact. 2) Read the DTC using Subaru Select Monitor.	Is U0101 a current malfunction?	Repair the poor contact of harness, or replace the harness.	Go to step 8.
8	CHECK CONNECTOR. Check the connector used for high speed CAN for poor contact.	Is there poor contact of connector?	Repair the connector that has poor contact, or replace harness.	It is possible that temporary poor communication occurs. Delete the DTC.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

AB:DTC U0122 LOST COMMUNICATION WITH VEHICLE DYNAMICS CONTROL MODULE

DTC DETECTING CONDITION:

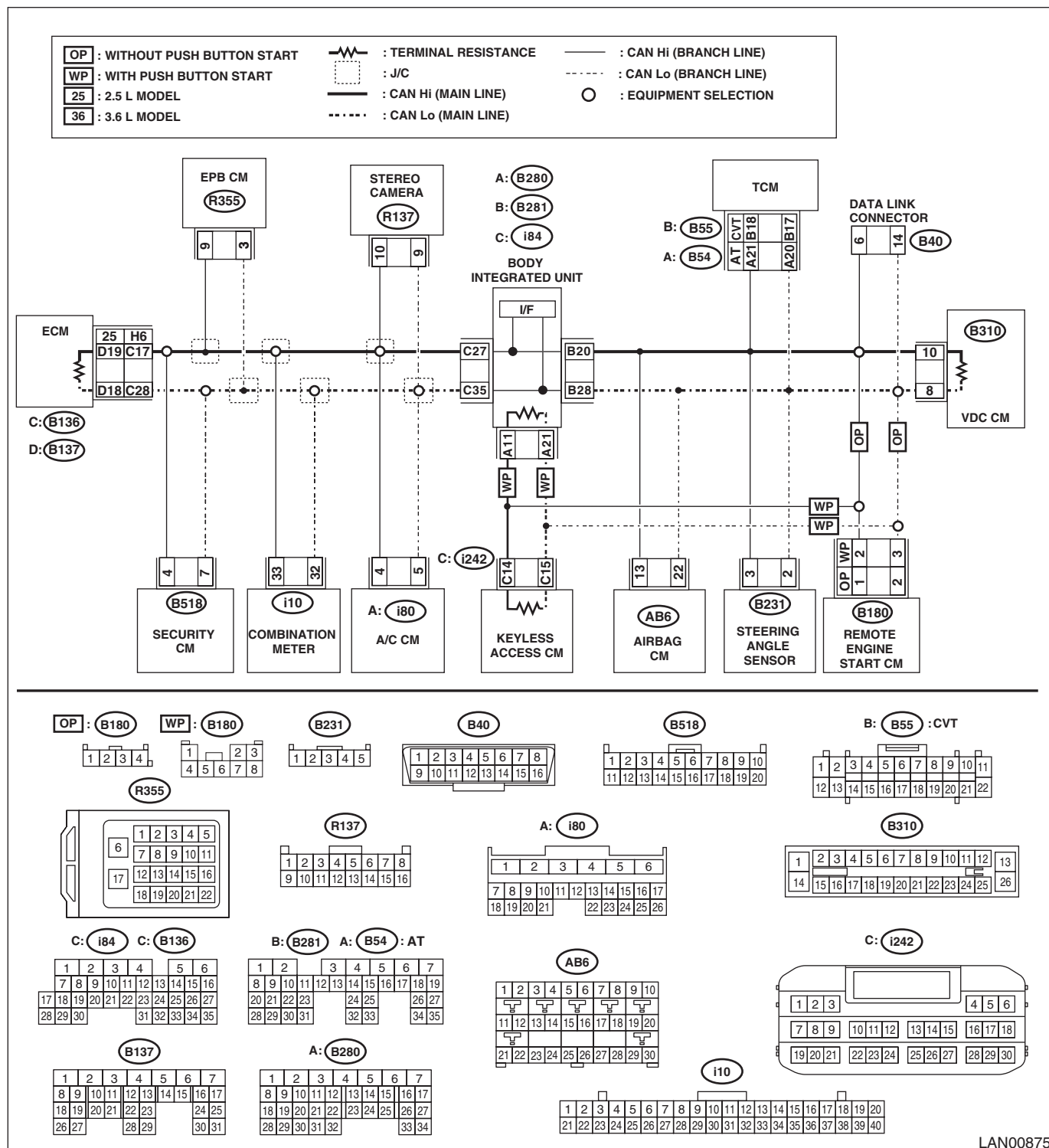
No data from VDCCM is received.

TROUBLE SYMPTOM:

ABS warning light and VDC warning light illuminate.

WIRING DIAGRAM:

CAN communication system <Ref. to WI-83, WIRING DIAGRAM, CAN Communication System.>



LAN00875

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

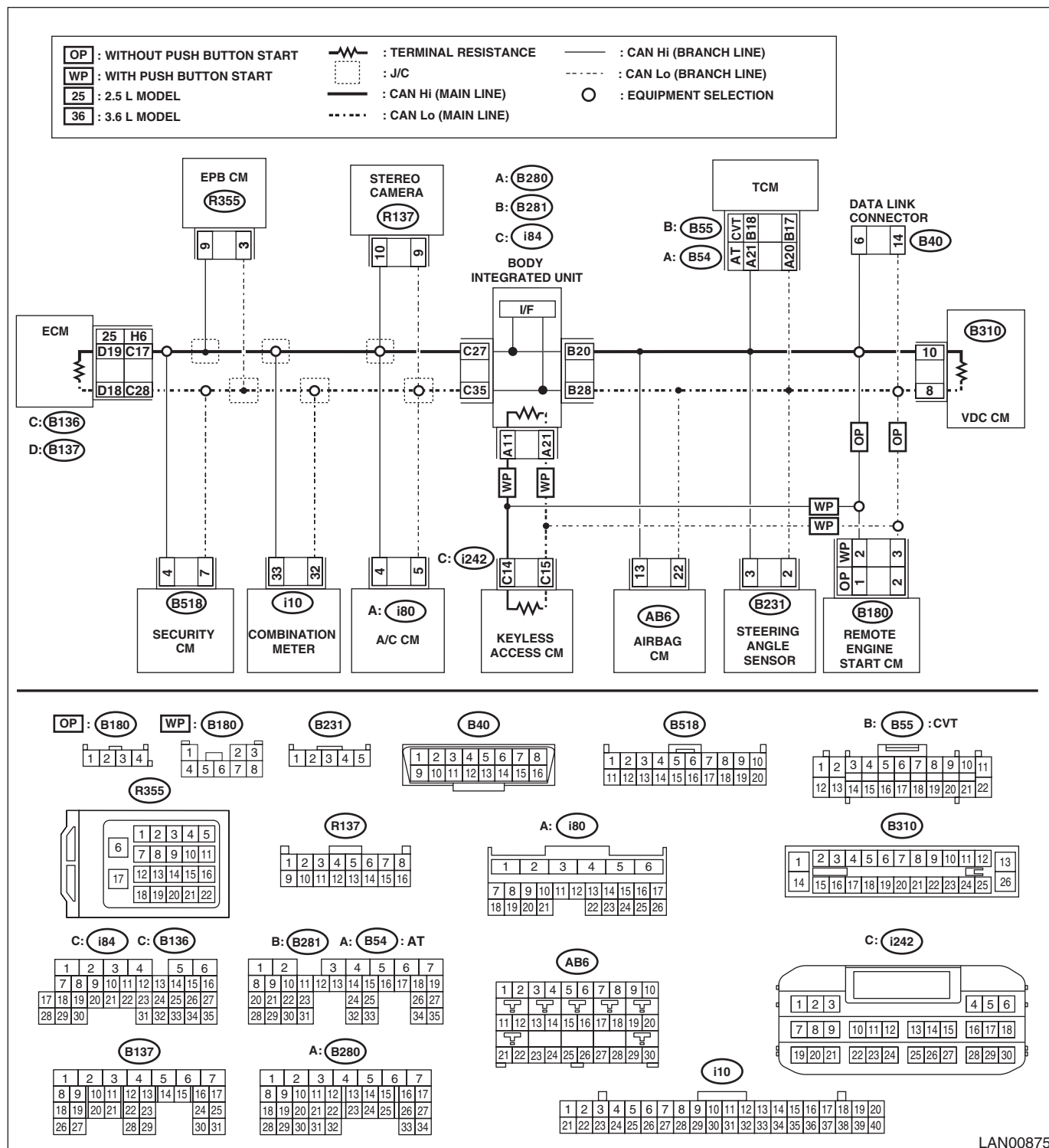
	Step	Check	Yes	No
1	CHECK DTC. Check the displayed DTC.	Are DTCs other than U*** displayed?	Perform the diagnosis according to DTC.	Go to step 2.
2	CHECK DTC. Check the displayed DTC.	Is U0122 a current malfunction?	Go to step 3.	Go to step 7.
3	CHECK DTC. 1) Check CAN communication circuit. <Ref. to LAN(diag)-11, BUS "A" (MAIN-CAN), PROCEDURE, CAN Communication Circuit Check.> 2) Read the DTC using Subaru Select Monitor.	Is U0122 a current malfunction?	Go to step 4.	Go to step 7.
4	CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is the VDC data no-receive detected in several modules?	Replace the VDC CM. <Ref. to VDC-10, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>	Go to step 5.
5	REPLACE MODULE. 1) Replace the VDC CM. 2) Read the DTC using Subaru Select Monitor.	Is U0122 a current malfunction?	Go to step 6.	System is normal.
6	CHECK MODULE. 1) Reinstall the VDC CM. 2) Replace the module that the DTC has been detected. 3) Read the DTC using Subaru Select Monitor.	Is U0122 a current malfunction?	Replace the VDC CM. <Ref. to VDC-10, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>	System is normal.
7	CHECK HARNESS. 1) Shake the harness, and check for poor contact. 2) Read the DTC using Subaru Select Monitor.	Is U0122 a current malfunction?	Repair the poor contact of harness, or replace the harness.	Go to step 8.
8	CHECK CONNECTOR. Check the connector used for high speed CAN for poor contact.	Is there poor contact of connector?	Repair the connector that has poor contact, or replace harness.	It is possible that temporary poor communication occurs. Delete the DTC.

LAN SYSTEM (DIAGNOSTICS)

No data is received from electronic parking CM.

Electronic parking brake cooperation control does not operate.

CAN communication system <Ref. to WI-83, WIRING DIAGRAM, CAN Communication System.>



Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

	Step	Check	Yes	No
1	CHECK DTC. Check the displayed DTC.	Are DTCs other than U*** displayed?	Perform the diagnosis according to DTC.	Go to step 2.
2	CHECK DTC. Check the displayed DTC.	Is U0128 a current malfunction?	Go to step 3.	Go to step 7.
3	CHECK DTC. 1) Check CAN communication circuit. <Ref. to LAN(diag)-11, BUS "A" (MAIN-CAN), PROCEDURE, CAN Communication Circuit Check.> 2) Read the DTC using Subaru Select Monitor.	Is U0128 a current malfunction?	Go to step 4.	Go to step 7.
4	CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is the electronic parking data no-receive detected in several modules?	Replace the electronic parking CM.	Go to step 5.
5	REPLACE MODULE. 1) Replace the electronic parking CM. 2) Read the DTC using Subaru Select Monitor.	Is U0128 a current malfunction?	Go to step 6.	System is normal.
6	CHECK MODULE. 1) Reinstall the electronic parking CM. 2) Replace the module that the DTC has been detected. 3) Read the DTC using Subaru Select Monitor.	Is U0128 a current malfunction?	Replace the electronic parking CM.	System is normal.
7	CHECK HARNESS. 1) Shake the harness, and check for poor contact. 2) Read the DTC using Subaru Select Monitor.	Is U0128 a current malfunction?	Repair the poor contact of harness, or replace the harness.	Go to step 8.
8	CHECK CONNECTOR. Check the connector used for high speed CAN for poor contact.	Is there poor contact of connector?	Repair the connector that has poor contact, or replace harness.	It is possible that temporary poor communication occurs. Delete the DTC.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

AD:DTC U0140 LOST COMMUNICATION WITH BODY CONTROL MODULE

DTC DETECTING CONDITION:

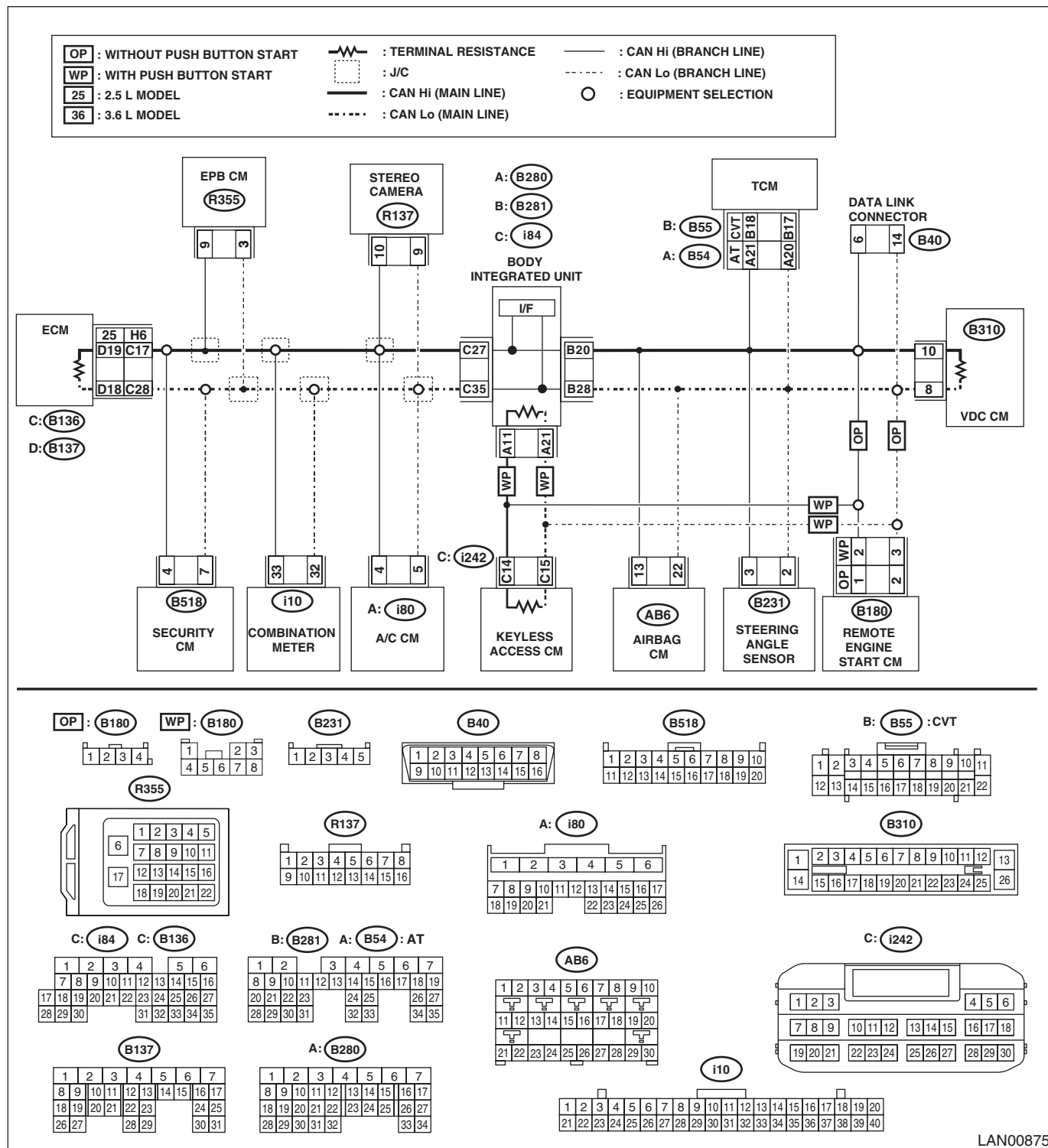
No data is received from body integrated unit.

TROUBLE SYMPTOM:

Cooperation control with body integrated unit does not operate properly.

WIRING DIAGRAM:

CAN communication system <Ref. to WI-83, WIRING DIAGRAM, CAN Communication System.>



LAN00875

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Step		Check	Yes	No
1	CHECK DTC. Check the displayed DTC.	Are DTCs other than U*** displayed?	Perform the diagnosis according to DTC.	Go to step 2.
2	CHECK DTC. Check the displayed DTC.	Is U0140 a current malfunction?	Go to step 3.	Go to step 7.
3	CHECK DTC. 1) Check CAN communication circuit. <Ref. to LAN(diag)-11, BUS "A" (MAIN-CAN), PROCEDURE, CAN Communication Circuit Check.> 2) Read the DTC using Subaru Select Monitor.	Is U0140 a current malfunction?	Go to step 4.	Go to step 7.
4	CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is the body integrated data no-receive detected in several modules?	Replace the body integrated unit. <Ref. to SL-84, Body Integrated Unit.>	Go to step 5.
5	REPLACE MODULE. 1) Replace the body integrated unit. 2) Read the DTC using Subaru Select Monitor.	Is U0140 a current malfunction?	Go to step 6.	System is normal.
6	CHECK MODULE. 1) Reinstall the body integrated unit. 2) Replace the module that the DTC has been detected. 3) Read the DTC using Subaru Select Monitor.	Is U0140 a current malfunction?	Replace the body integrated unit. <Ref. to SL-84, Body Integrated Unit.>	System is normal.
7	CHECK HARNESS. 1) Shake the harness, and check for poor contact. 2) Read the DTC using Subaru Select Monitor.	Is U0140 a current malfunction?	Repair the poor contact of harness, or replace the harness.	Go to step 8.
8	CHECK CONNECTOR. Check the connector used for high speed CAN for poor contact.	Is there poor contact of connector?	Repair the connector that has poor contact, or replace harness.	It is possible that temporary poor communication occurs. Delete the DTC.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

AE:DTC U0155 LOST COMMUNICATION WITH INSTRUMENT PANEL CLUSTER (IPC) CONTROL MODULE

DTC DETECTING CONDITION:

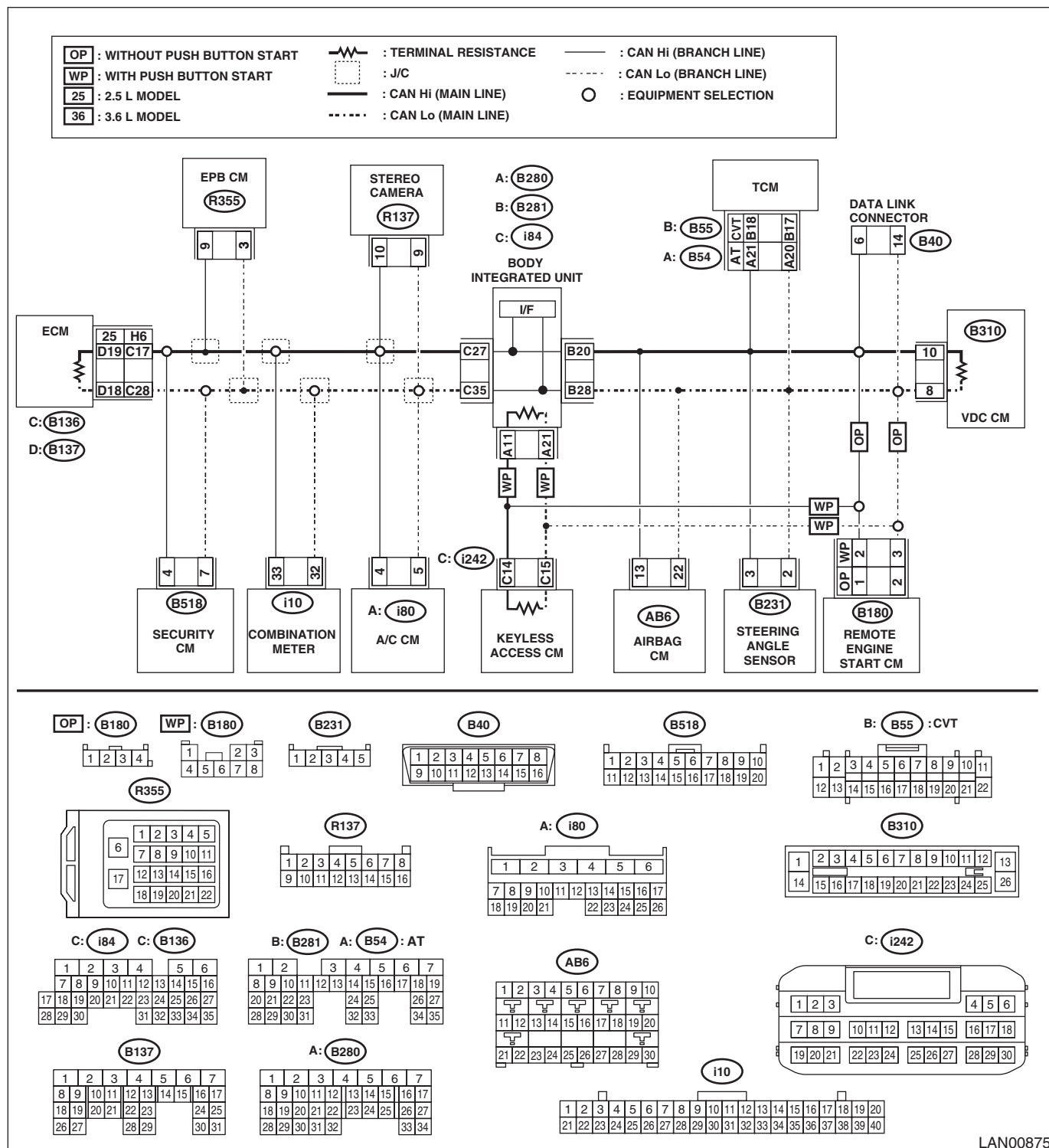
No data received from combination meter.

TROUBLE SYMPTOM:

Display of combination meter does not operate properly.

WIRING DIAGRAM:

CAN communication system <Ref. to WI-83, WIRING DIAGRAM, CAN Communication System.>



LAN00875

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Step		Check	Yes	No
1	CHECK DTC. Check the displayed DTC.	Are DTCs other than U*** displayed?	Perform the diagnosis according to DTC.	Go to step 2.
2	CHECK DTC. Check the displayed DTC.	Is U0155 a current malfunction?	Go to step 3.	Go to step 7.
3	CHECK DTC. 1) Check CAN communication circuit. <Ref. to LAN(diag)-11, BUS "A" (MAIN-CAN), PROCEDURE, CAN Communication Circuit Check.> 2) Read the DTC using Subaru Select Monitor.	Is U0155 a current malfunction?	Go to step 4.	Go to step 7.
4	CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is the meter data no-receive detected in several modules?	Replace the meter. <Ref. to IDI-26, Combination Meter.>	Go to step 5.
5	REPLACE MODULE. 1) Replace the combination meter. 2) Read the DTC using Subaru Select Monitor.	Is U0155 a current malfunction?	Go to step 6.	System is normal.
6	CHECK MODULE. 1) Replace the current combination meter with the original combination meter. 2) Replace the module that the DTC has been detected. 3) Read the DTC using Subaru Select Monitor.	Is U0155 a current malfunction?	Replace the combination meter. <Ref. to IDI-26, Combination Meter.>	System is normal.
7	CHECK HARNESS. 1) Shake the harness, and check for poor contact. 2) Read the DTC using Subaru Select Monitor.	Is U0155 a current malfunction?	Repair the poor contact of harness, or replace the harness.	Go to step 8.
8	CHECK CONNECTOR. Check the connector used for high speed CAN for poor contact.	Is there poor contact of connector?	Repair the connector that has poor contact, or replace harness.	It is possible that temporary poor communication occurs. Delete the DTC.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

AF:DTC U1235 LOST COMMUNICATION WITH EyeSight

DTC DETECTING CONDITION:

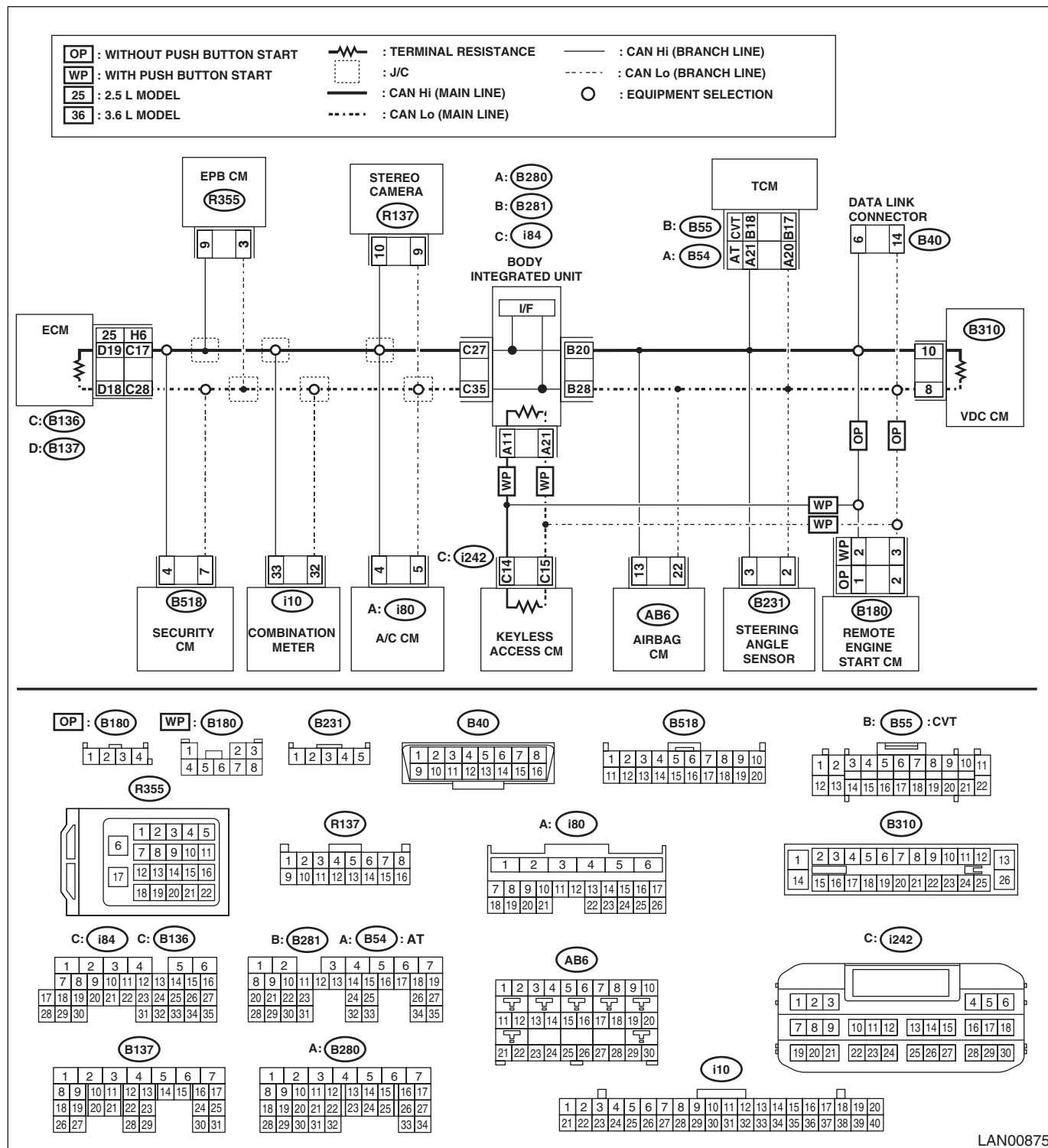
No data from stereo camera is received.

TROUBLE SYMPTOM:

Cooperation control of EyeSight does not operate properly.

WIRING DIAGRAM:

CAN communication system <Ref. to WI-83, WIRING DIAGRAM, CAN Communication System.>



LAN00875

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK DTC. Check the displayed DTC.	Are DTCs other than U*** displayed?	Perform the diagnosis according to DTC.	Go to step 2.
2 CHECK DTC. Check the displayed DTC.	Is U1235 a current malfunction?	Go to step 3.	Go to step 7.
3 CHECK DTC. 1) Check CAN communication circuit. <Ref. to LAN(diag)-11, BUS "A" (MAIN-CAN), PROCEDURE, CAN Communication Circuit Check.> 2) Read the DTC using Subaru Select Monitor.	Is U1235 a current malfunction?	Go to step 4.	Go to step 7.
4 CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is the EyeSight data no-receive detected in several modules?	Replace the stereo camera. <Ref. to ES-8, Stereo Camera.>	Go to step 5.
5 REPLACE MODULE. 1) Replace the stereo camera. 2) Read the DTC using Subaru Select Monitor.	Is U1235 a current malfunction?	Go to step 6.	System is normal.
6 CHECK MODULE. 1) Reinstall the stereo camera. 2) Replace the module that the DTC has been detected. 3) Read the DTC using Subaru Select Monitor.	Is U1235 a current malfunction?	Replace the stereo camera. <Ref. to ES-8, Stereo Camera.>	System is normal.
7 CHECK HARNESS. 1) Shake the harness, and check for poor contact. 2) Read the DTC using Subaru Select Monitor.	Is U1235 a current malfunction?	Repair the poor contact of harness, or replace the harness.	Go to step 8.
8 CHECK CONNECTOR. Check the connector used for high speed CAN for poor contact.	Is there poor contact of connector?	Repair the connector that has poor contact, or replace harness.	It is possible that temporary poor communication occurs. Delete the DTC.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

AG:DTC U1301 CAN-LS COUNTER ABNORMAL

(LS or KAC)

DTC DETECTING CONDITION:

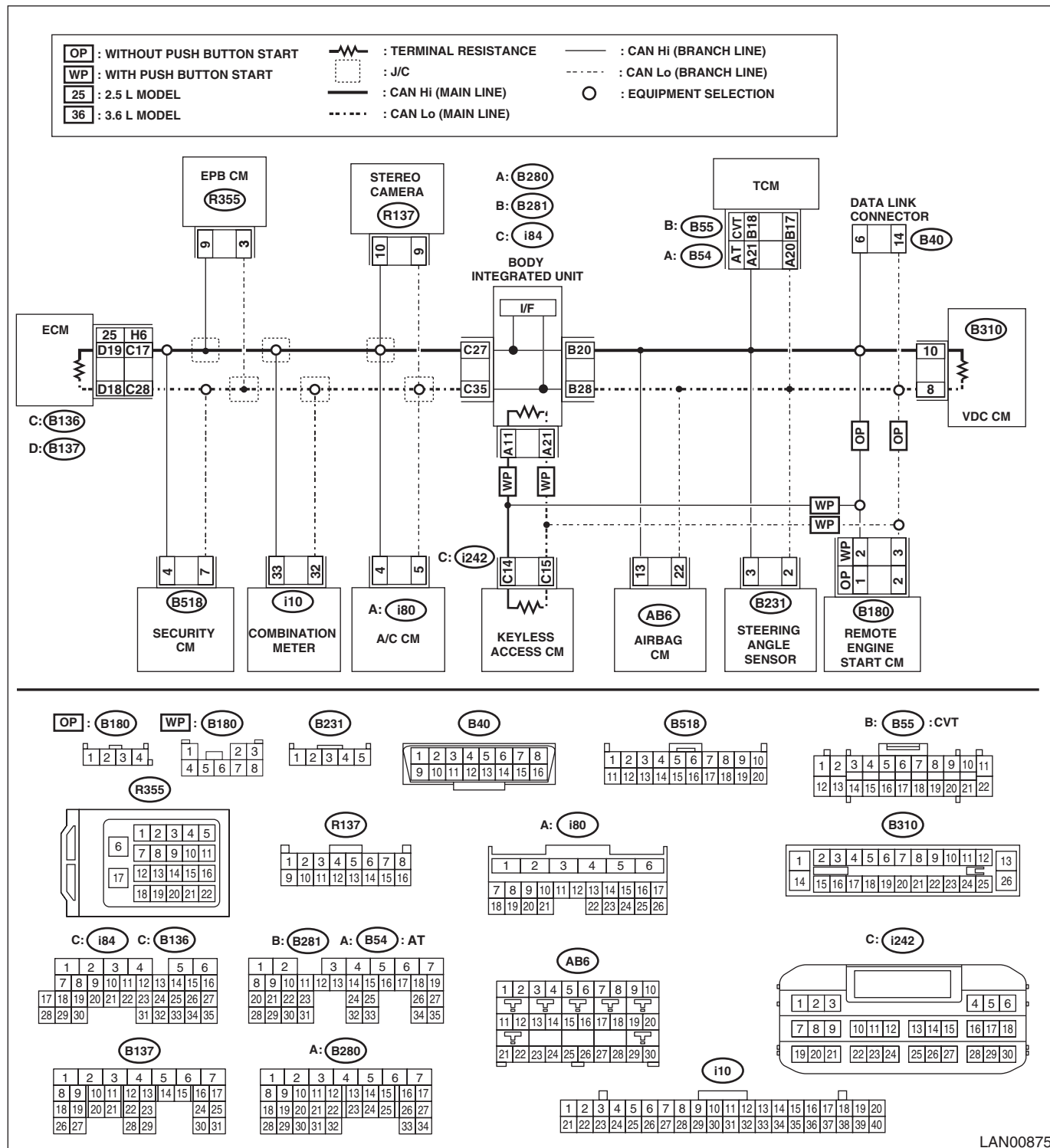
Communication is unstable because of KAC CAN communication error.

TROUBLE SYMPTOM:

- Malfunction occurs in KAC CAN communication error counter.
- The keyless access function may not operate properly.

WIRING DIAGRAM:

CAN communication system <Ref. to WI-83, WIRING DIAGRAM, CAN Communication System.>



LAN00875

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK DTC. Check CAN communication circuit. <Ref. to LAN(diag)-14, BUS "B" (SMART SYSTEM CAN), PROCEDURE, CAN Communication Circuit Check.>	Is CAN communication circuit faulty?	Repair the faulty portion, following the diagnosis procedure.	Go to step 2.
2 CHECK DTC. 1) Start the engine. 2) Using the Subaru Select Monitor, read DTC of CAN system.	Is U1302 a current malfunction?	Perform the diagnosis of U1302. <Ref. to LAN(diag)-134, DTC U1302 CAN-LS BUS OFF, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>	Go to step 3.
3 CHECK DTC. Check DTC detected in step 2.	Is U1301 a current malfunction?	Go to step 4.	It is possible that temporary poor communication occurs. Perform the clear memory.
4 CHECK DTC. 1) Turn the ignition switch to ON. 2) Using the Subaru Select Monitor, read DTC of CAN system.	Is U1301 a current malfunction?	Go to step 5.	It is possible that temporary poor communication occurs. Perform the clear memory.
5 CHECK CONTROL MODULE. NOTE: For vehicles without remote engine start, go to next. 1) Remove the remote engine start CM. 2) Turn the ignition switch to ON. 3) Using the Subaru Select Monitor, read DTC of CAN system.	Is U1301 a current malfunction?	Go to step 6.	Check and replace the remote engine start CM.
6 CHECK DTC. 1) Install a normal body integrated unit. 2) Turn the ignition switch to ON. 3) Using the Subaru Select Monitor, read DTC of CAN system.	Is U1301 a current malfunction?	Replace the keyless access CM.	Replace the body integrated unit. <Ref. to SL-84, REMOVAL, Body Integrated Unit.>

LAN SYSTEM (DIAGNOSTICS)

(LS or KAC)

Integrated unit communication is shut down because of KAC CAN communication error.

- Control modules which prevent the KAC CAN circuit communication are disconnected.
- The keyless access function does not operate properly.

CAN communication system <Ref. to WI-83, WIRING DIAGRAM, CAN Communication System.>



Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Step		Check	Yes	No
1	CHECK DTC. Check CAN communication circuit. <Ref. to LAN(diag)-14, BUS "B" (SMART SYSTEM CAN), PROCEDURE, CAN Communication Circuit Check.>	Is CAN communication circuit faulty?	Repair the faulty portion, following the diagnosis procedure.	Go to step 2.
2	CHECK DTC. 1) Start the engine. 2) Using the Subaru Select Monitor, read DTC of CAN system.	Is U1302 a current malfunction?	Go to step 3.	It is possible that temporary poor communication occurs. Perform the clear memory.
3	CHECK CONTROL MODULE. NOTE: For vehicles without remote engine start, go to next. 1) Remove the remote engine start CM. 2) Turn the ignition switch to ON. 3) Using the Subaru Select Monitor, read DTC of CAN system.	Is U1302 a current malfunction?	Go to step 4.	Check and replace the remote engine start CM.
4	CHECK DTC. 1) Install a normal body integrated unit. 2) Turn the ignition switch to ON. 3) Using the Subaru Select Monitor, read DTC of CAN system.	Is U1302 a current malfunction?	Replace the keyless access CM.	Replace the body integrated unit. <Ref. to SL-84, REMOVAL, Body Integrated Unit.>

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

AI: DTC U1328 SMART SYSTEM CAN (KAC) DATA NO-RECEIVE

DTC DETECTING CONDITION:

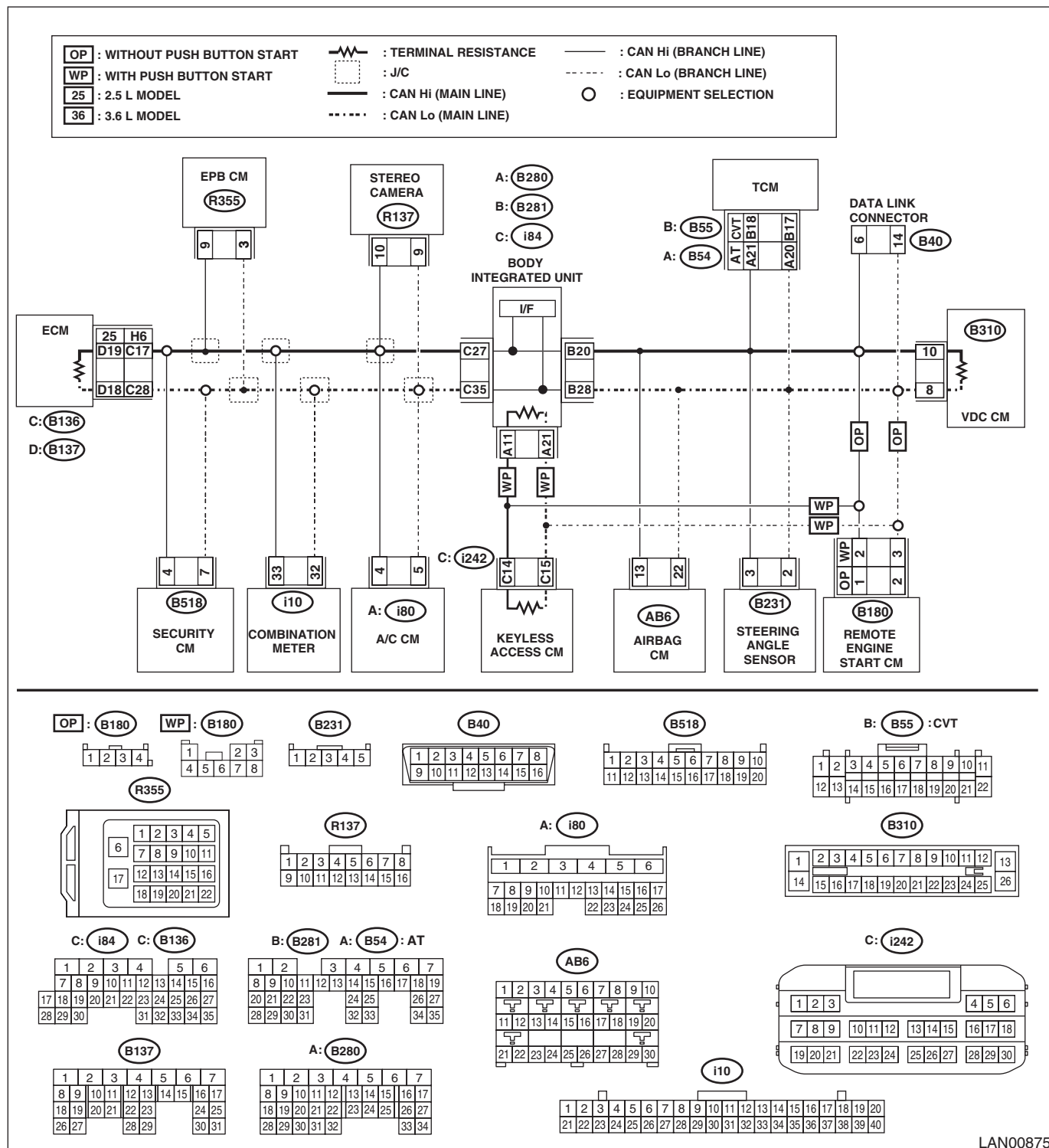
Nothing was received from keyless access CM for 2 seconds or more.

TROUBLE SYMPTOM:

- The keyless access function does not operate.
- Communication using Subaru Select Monitor is occasionally not possible.

WIRING DIAGRAM:

CAN communication system <Ref. to WI-83, WIRING DIAGRAM, CAN Communication System.>



LAN00875

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK CAN COMMUNICATION CIRCUIT. Check CAN communication circuit. <Ref. to LAN(diag)-14, BUS "B" (SMART SYSTEM CAN), PROCEDURE, CAN Communication Circuit Check.>	Is CAN communication circuit faulty?	Repair the faulty portion, following the diagnosis procedure.	Go to step 2.
2 CHECK DTC. 1) Start the engine. 2) Using the Subaru Select Monitor, read DTC of CAN system.	Is U1328 a current malfunction?	Go to step 3.	It may be a temporary poor contact. Perform the clear memory.
3 CHECK DTC. 1) Turn the ignition switch to OFF. 2) Install normal body integrated unit from another vehicle with key less entry to the faulty vehicle. 3) Turn the ignition switch to ON. 4) Using the Subaru Select Monitor, read DTC of CAN system.	Is U1328 a current malfunction?	Replace the key-less access CM.	Replace the body integrated unit. <Ref. to SL-84, REMOVAL, Body Integrated Unit.>

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

AJ:DTC U1601 LIN COMMUNICATION (SEAT MEMORY) FAILURE

DTC DETECTING CONDITION:

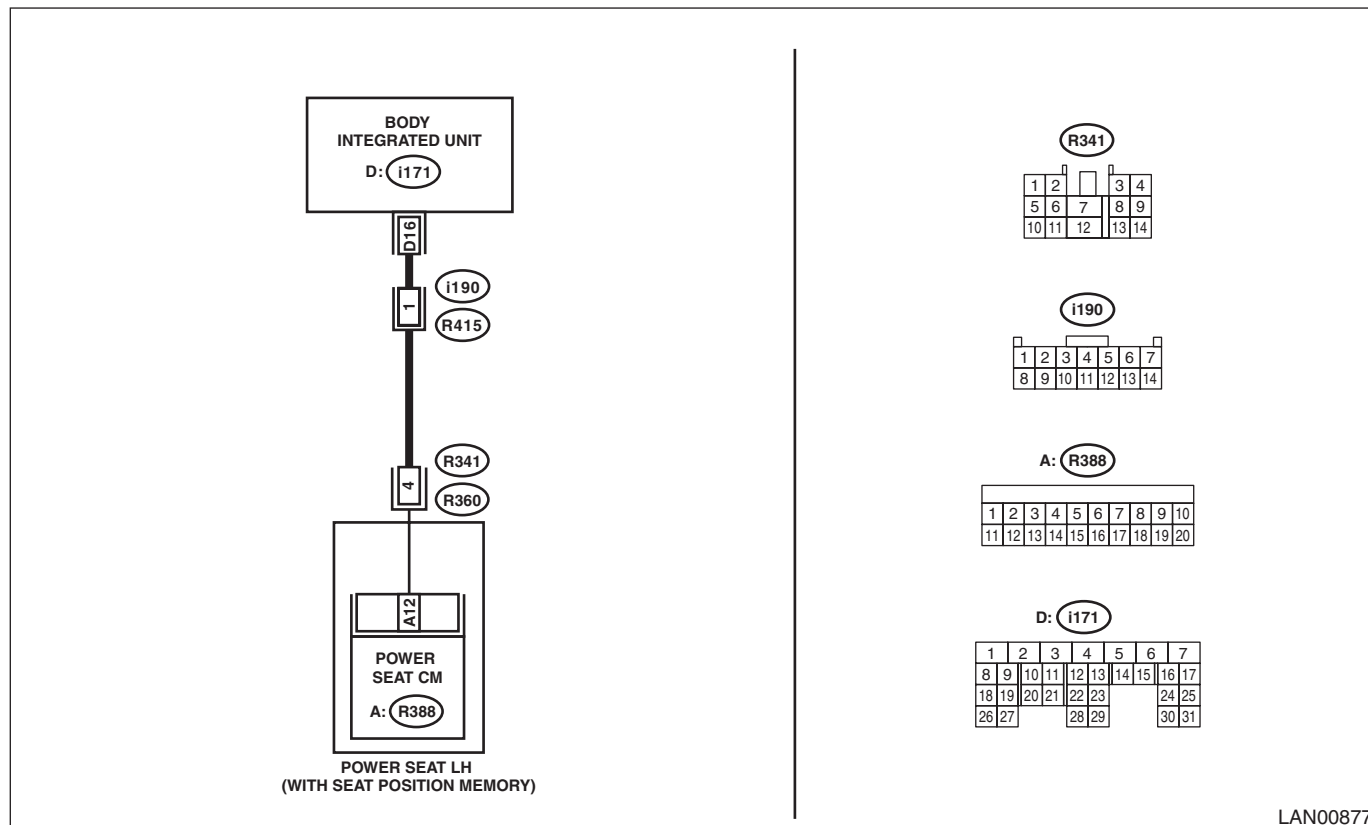
No data from seat memory CM is received.

TROUBLE SYMPTOM:

Keyless access interlocked seat position function does not operate.

WIRING DIAGRAM:

Power Seat System <Ref. to WI-232, WITH MEMORY, WIRING DIAGRAM, Power Seat System.>



LAN00877

Step	Check	Yes	No
1 CHECK BODY INTEGRATED UNIT SETTING. 1) Using Subaru Select Monitor, change "Seat Memory Setting" of the body integrated unit registration (function setting) from ON to OFF. 2) Read the DTC of CAN system.	Is U1601 detected?	Replace the body integrated unit. <Ref. to SL-84, REMOVAL, Body Integrated Unit.>	Go to step 2.
2 CHECK BODY INTEGRATED UNIT SETTING. 1) Using Subaru Select Monitor, change "Seat Memory Setting" of the body integrated unit registration (function setting) to ON. 2) Disconnect the power seat CM and the body integrated unit connector. 3) Connect the disconnected connectors. 4) Using the Subaru Select Monitor, read DTC of CAN system.	Is U1601 detected?	Go to step 3.	It is possible that temporary poor contact occurs. Perform the clear memory.
3 CHECK HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the power seat CM and the body integrated unit connector. 3) Using the tester, measure the resistance between terminals. Connector & terminal (i171) No. 16 — (R388) No. 12:	Is the resistance less than 10 Ω?	Go to step 4.	Repair the open circuit of harness.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
4 CHECK HARNESS. Using the tester, measure the resistance between terminals. Connector & terminal (R388) No. 12 — Chassis ground:	Is the resistance 10 kΩ or more?	Go to step 5.	Repair the shorted portion of harness.
5 CHECK HARNESS. 1) Turn the ignition switch to ON. 2) Using the tester, measure the voltage between terminals. Connector & terminal (R388) No. 12 — Chassis ground:	Is the voltage less than 1 V?	Go to step 6.	Repair the shorted portion of harness.
6 CHECK CONTROL MODULE. 1) Turn the ignition switch to OFF. 2) Replace the power seat CM with a normal part. 3) Using the Subaru Select Monitor, read DTC of CAN system.	Is U1601 detected?	Replace the body integrated unit. <Ref. to SL-84, REMOVAL, Body Integrated Unit.>	Replace the power seat CM. <Ref. to SE-60, POWER SEAT CONTROL MODULE (SEAT WITH MEMORY FUNCTION), REMOVAL, Power Seat System.>