

LAN SYSTEM (DIAGNOSTICS)

LAN(diag)

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Basic Diagnostic Procedure

LAN SYSTEM (DIAGNOSTICS)

1. Basic Diagnostic Procedure

A: PROCEDURE

CAUTION:

- Subaru Select Monitor is required for reading DTC, performing diagnosis, reading current data, customizing and active test (compulsory drive).
- Remove foreign matter (dust, water, oil, etc.) from each control module connector during removal and installation.
- For model with immobilizer or model with keyless access, registration of immobilizer may be needed after the replacement of controller etc. For detailed procedure, refer to the "REGISTRATION MANUAL FOR IMMOBILIZER".

NOTE:

- To check harness for open or short circuits, shake the suspected trouble spot or connector.
- Check List for Interview <Ref. to LAN(diag)-4, Check List for Interview.>

Step	Check	Yes	No
1 CHECK PRE-INSPECTION. Ask the customer when and how the trouble occurred using the interview check list. <Ref. to LAN(diag)-4, Check List for Interview.>	Did you interview the customer?	Go to step 2.	Interview the customer.
2 BASIC INSPECTION (CAN DIAGNOSTIC IS NOT USED). Check components which might affect CAN communication problem. <Ref. to LAN(diag)-7, INSPECTION WITHOUT USING CAN DIAGNOSTIC, INSPECTION, General Description.>	Is the component that might affect CAN communication problem normal?	Go to step 3.	Repair or replace each component.
3 CHECK COMMUNICATION FOR INITIALIZING. Communicate with the all systems by connecting the Subaru Select Monitor.	Is the communication for initializing finished for all modules?	Go to step 4.	Check the error of communication for initializing. <Ref. to LAN(diag)-11, COMMUNICATION FOR INITIALIZING IMPOSSIBLE, Subaru Select Monitor.>
4 BASIC INSPECTION (CAN DIAGNOSTIC IS USED). Check components which might affect CAN communication problem. <Ref. to LAN(diag)-7, INSPECTION USING CAN DIAGNOSTIC, INSPECTION, General Description.>	Is the component that might affect CAN communication problem normal?	Go to step 5.	Repair or replace each component.
5 CHECK DTC. 1) Start the engine and read all DTCs. NOTE: When the engine does not start, perform the diagnosis for the engine start malfunction. <Ref. to EN(H4DO)(diag)-62, Diagnostics for Engine Starting Failure.> 2) Record all DTCs and freeze frame data.	Is DTC U**** displayed on Subaru Select Monitor?	Go to step 6.	Go to step 7.
6 CHECK DTC. 1) Perform the inspection using the DTC check sheet. <Ref. to LAN(diag)-101, CHECK USING THE DTC CHECK SHEET, LIST, List of Diagnostic Trouble Code (DTC).> 2) Using the Subaru Select Monitor, read all DTCs.	Is DTC U**** displayed on Subaru Select Monitor?	Go to step 8.	Go to step 7.

Basic Diagnostic Procedure

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Step	Check	Yes	No
7 PERFORM GENERAL DIAGNOSTICS. Inspect using the "General Diagnostic Table". <Ref. to LAN(diag)-190, General Diagnostic Table.>	Is result of inspection OK?	LAN system is normal.	Go to step 8 .
8 PERFORM DIAGNOSIS. 1) Correct the cause of trouble. 2) Perform the Clear Memory Mode. <Ref. to LAN(diag)-38, OPERATION, Clear Memory Mode.> 3) Read the DTC. <Ref. to LAN(diag)-37, OPERATION, Read Diagnostic Trouble Code (DTC).>	Is DTC displayed on Subaru Select Monitor?	Repeat step 8 until DTC is not shown.	Finish the diagnosis.

Check List for Interview

LAN SYSTEM (DIAGNOSTICS)

2. Check List for Interview

A: CHECK

Inspect the following item about the vehicle's state.

1. DISPLAY STATUS IN THE COMBINATION METER

Display status in the combination meter	Engine coolant temperature gauge display	☐ OK / ☐ NG
	Fuel gauge display	☐ OK / ☐ NG
	Tachometer display	☐ OK / ☐ NG (0 rpm at idling etc.)
Display of other indicators	Malfunction indicator light	☐ ON / ☐ Blink / ☐ OFF
	Sport indicator light (AT warning light)	☐ ON / ☐ Blink / ☐ OFF
	ABS warning light	☐ ON / ☐ Blink / ☐ OFF
	VDC warning light	☐ ON / ☐ Blink / ☐ OFF
	Immobilizer indicator light	☐ ON / ☐ Blink / ☐ OFF
	AT OIL TEMP warning light	☐ ON / ☐ Blink / ☐ OFF
	Engine coolant temperature warning light	☐ Blue light ON / ☐ Red light ON / ☐ Red light blinks / ☐ Blue and red lights blink
	CRUISE indicator	☐ ON / ☐ Blink / ☐ OFF
	Shift indicator	☐ OK / ☐ NG
	Fuel level warning light	☐ ON / ☐ Blink / ☐ OFF
	Airbag warning light	☐ ON / ☐ OFF
	VDC OFF indicator	☐ ON / ☐ OFF
	Brake warning light	☐ ON / ☐ OFF
	Auto Start Stop indicator	☐ ON / ☐ Blink / ☐ OFF
	EyeSight warning light	☐ ON / ☐ Blink / ☐ OFF
	Lane departure warning OFF indicator light	☐ ON / ☐ OFF
	Pre-collision brake OFF indicator light	☐ ON / ☐ OFF
	Headlight beam leveler indicator	☐ ON / ☐ OFF

2. CONDITIONS UNDER WHICH TROUBLE OCCURS

Driving condition	☐ At standstill (while idling) ☐ When the vehicle is running ☐ While accelerating ☐ Decelerating (with braking) ☐ Decelerating (without braking) Vehicle speed km/h (MPH) Acceleration km/h (MPH) to km/h (MPH) Deceleration km/h (MPH) to km/h (MPH) Deceleration km/h (MPH) to km/h (MPH)
	☐ Flat road ☐ Uphill ☐ Downhill ☐ Gravel road ☐ Bumpy road ☐ Snowy road
	Does it occur when operating any part? Operated part: TROUBLE SYMPTOM:
	Are there any other troubles occurred? From where: TROUBLE SYMPTOM:

3. General Description

A: CAUTION

1. SUPPLEMENTAL RESTRAINT SYSTEM "AIRBAG"

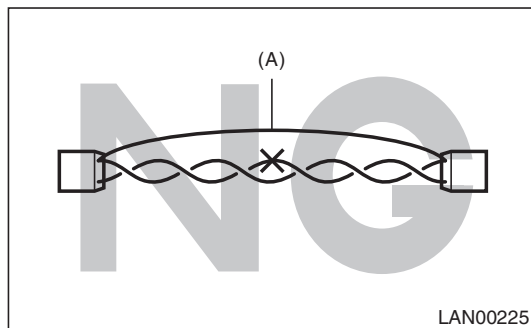
Airbag system wiring harness is routed near the body integrated unit and twisted pair line.

CAUTION:

- Do not use the electrical test equipment on all airbag system wiring harnesses and connectors.
- Be careful not to damage the airbag system wiring harness when servicing the body integrated unit and LAN system.

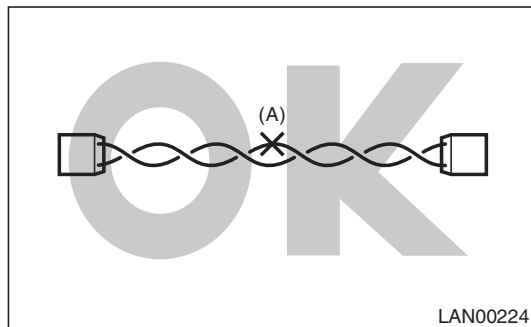
2. LAN SYSTEM

- Bus line of LAN system is twisted pair line. Be careful not to by-pass or partly unbind the twisted pair line.
- Do not make clearance between bus lines (CAN High, CAN Low).
- Difference of bus line length should be within 10 cm (3.94 in).
- Fray near the connector should be within 8 cm (3.14 in).



(A) Bypass wire connection

- If the characteristics of the twisted pair line are changed, it may extremely weaken against noise.
- When repairing the harness, connect the wires using soldering and protect it with insulating tape etc.



(A) Soldering and protection with insulating tape

General Description

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3. TIME STAMP

There are three types of record data for the information of time stamp, and they are stored together with diagnostic codes.

NOTE:

Depending on DTCs, time stamp may not be stored.

a. Trip Count

This indicates the number of times that the ignition has been turned to ON since the vehicle was manufactured. The ignition ON count of when the diagnostic code is stored is displayed on the diagnostic code check screen.

NOTE:

Subaru Select Monitor screen (A/C system diagnostic code and time stamp)

Code	Description & trouble position	Trouble occurrence record	Trip Count	Time Count	Count
B14E1	Air mix door actuator stepping motor circuit wire break (driver's seat)	Detected on the first time	983	18000	Common
B14E7	Heater core rear sensor circuit wire break	Detected on the 2nd time	984	117800	Common

The current Trip Count can be checked at "Current Data Display & Save" in "Integ. unit mode".

By comparing the current Trip Count and the Trip Count of when the diagnostic code was stored, it is possible to determine that it is how many ignition-ON operations ago that DTC was stored.

b. Time Count

The elapsed time from when the ignition is turned to ON to when the diagnostic code is stored is displayed on the diagnostic code check screen. It is possible to determine the length of time that passed between when the user started driving and when the diagnostic code was stored. Therefore, if Trip Count until the vehicle-received-date is determined by interviewing the user, it is possible to estimate where the user was driving when the diagnostic code was stored, using the information such as Trip Count and Time Count. This estimate is useful information to perform diagnosis including checking of repeatability.

NOTE:

Subaru Select Monitor screen (A/C system diagnostic code and time stamp)

Code	Description & trouble position	Trouble occurrence record	Trip Count	Time Count	Count
B14E1	Air mix door actuator stepping motor circuit wire break (driver's seat)	Detected on the first time	983	18000	Common
B14E7	Heater core rear sensor circuit wire break	Detected on the 2nd time	984	117800	Common

When multiple diagnostic codes are recorded for one trouble, it is extremely important to determine the diagnostic code that was stored first. (It is important to perform the diagnosis for the first recorded diagnostic code.) In this case, it is also possible to immediately determine which diagnostic code was recorded first, using the information such as Trip Count and Time Count.

General Description

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c. Count

Each unit individually counts the elapsed time since the ignition is turned to ON. However, these time counts may have some errors, and therefore, the control modules need to be adjusted to the time carried by the master-time unit (the body integrated unit). When the count is set as common, it means that each control module is already adjusted to the master time, and the display for the master integrated unit is always indicated as "Common". When the count is indicated as "Originally", it means that the time is not synchronized with the master time. In this case, check the communication between the corresponding control module and integrated unit. When all controls other than the body integrated unit is indicated as "Originally", perform the basic inspection for the body integrated unit. <Ref. to BC(diag)-2, PROCEDURE, Basic Diagnostic Procedure.>

NOTE:

Subaru Select Monitor screen (A/C system diagnostic code and time stamp)

Code	Description & trouble position	Trouble occurrence record	Trip Count	Time Count	Count
B14E1	Air mix door actuator stepping motor circuit wire break (driver's seat)	Detected on the first time	983	18000	Common
B14E7	Heater core rear sensor circuit wire break	Detected on the 2nd time	984	117800	Common

Even when multiple diagnostic codes are stored in multiple control modules, it is possible to determine the code stored first through the count function.

NOTE:

Troubleshooting for CAN system U-code occurrence

When the first stored diagnostic code is a U-code for CAN system, perform the troubleshooting as a U code combination, instead of a U code alone. In addition, when CAN open circuit occurs, communication of the diagnostic device itself becomes impossible beyond the particular areas. However, trouble positions can also be determined by the combination of initial communication success/failure. Thus, by performing the basic diagnostic procedure in LAN system, trouble positions can be determined efficiently on the principle above. <Ref. to LAN(diag)-2, PROCEDURE, Basic Diagnostic Procedure.>

B: INSPECTION

1. INSPECTION WITHOUT USING CAN DIAGNOSTIC

Before performing diagnosis, check the following items that might affect troubles of each module.

1) Measure the battery voltage and check electrolyte.

Standard voltage: 12 V or more

Specific gravity: 1.260 or more

2) Check the fuse condition.

Make sure that ampere of the fuse is setting value, and it is not blown out.

3) Check the connecting condition of harness and harness connector.

2. INSPECTION USING CAN DIAGNOSTIC

Before performing diagnostics, check the following item which might affect body integrated unit malfunctions.

1) Confirm settings of body integrated unit are corresponded to vehicle equipment. <Ref. to BC(diag)-17, OPERATION, Registration Body Integrated Unit.>

2) Make sure that the User Customizing of the body integrated unit matches the vehicle equipment. <Ref. to BC(diag)-15, OPERATION, User Customizing.>

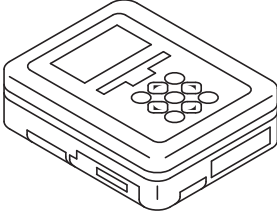
3) Confirm "Factory initial setting" of body integrated unit registrations is set to "Market".

General Description

LAN SYSTEM (DIAGNOSTICS)

C: PREPARATION TOOL

1. SPECIAL TOOL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST1B022XU0	1B022XU0	SUBARU SELECT MONITOR III KIT	Used for troubleshooting the electrical system.

2. GENERAL TOOL

TOOL NAME	REMARKS
Circuit tester	Used for measuring resistance, voltage and current.

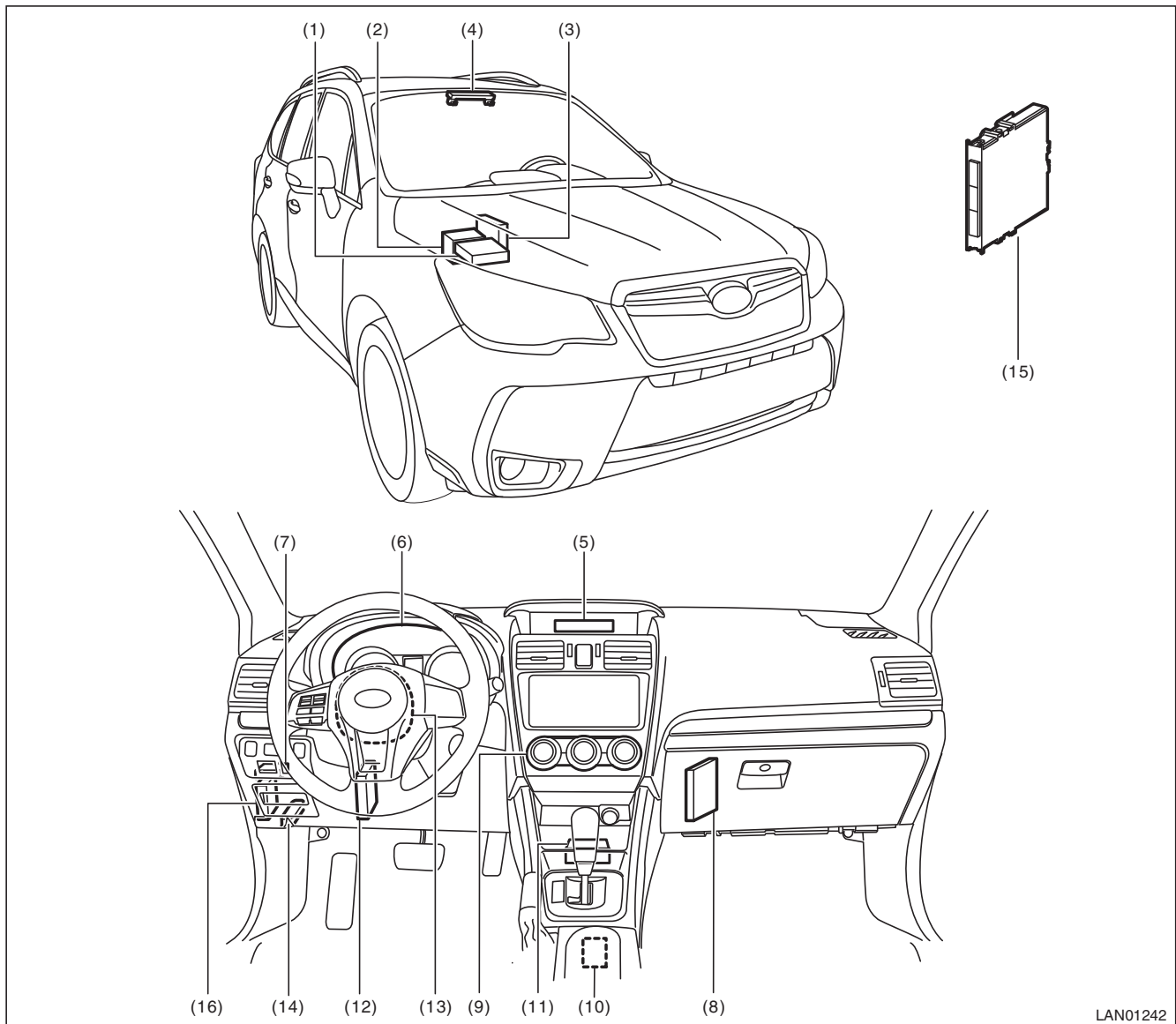


Electrical Component Location

LAN SYSTEM (DIAGNOSTICS)

4. Electrical Component Location

A: LOCATION



- | | | |
|-----------------------|------------------------------------|----------------------------|
| (1) ECM (turbo model) | (7) Auto headlight beam leveler CM | (13) Steering angle sensor |
| (2) VDC CM | (8) ECM (non-turbo model) | (14) Data link connector |
| (3) Power steering CM | (9) A/C control panel | (15) Keyless access CM |
| (4) Stereo camera | (10) Yaw rate & G sensor | (16) Body integrated unit |
| (5) MFD | (11) Airbag CM | |
| (6) Combination meter | (12) TCM | |

Control Module I/O Signal

LAN SYSTEM (DIAGNOSTICS)

5. Control Module I/O Signal

A: ELECTRICAL SPECIFICATION

- Body integrated unit

For I/O signals of the body integrated unit, refer to BODY CONTROL SYSTEM (DIAGNOSTICS). <Ref. to BC(diag)-6, Control Module I/O Signal.>

- Engine control module

For I/O signals of ECM, refer to ENGINE (DIAGNOSTICS). <Ref. to EN(H4DO)(diag)-19, ELECTRICAL SPECIFICATION, Engine Control Module (ECM) I/O Signal.>

- Transmission control module

For I/O signals of TCM, refer to AUTOMATIC TRANSMISSION (DIAGNOSTICS). <Ref. to CVT(diag)-12, Transmission Control Module (TCM) I/O Signal.>

- VDC control module, steering angle sensor, yaw rate & G sensor

For the module I/O signals of VDC CM, steering angle sensor, and yaw rate & G sensor, refer to VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS). <Ref. to VDC(diag)-12, Control Module I/O Signal.>

- Power steering CM

For unit I/O signals of power steering CM, refer to POWER ASSISTED SYSTEM (POWER STEERING) (DIAGNOSTICS). <Ref. to PS(diag)-9, Control Module I/O Signal.>

- A/C control panel

For unit I/O signals of A/C control panel, refer to HVAC SYSTEM (DIAGNOSTICS). <Ref. to AC(diag)-6, Auto A/C Control Module I/O Signal.>

- Combination meter

For I/O signals of combination meter, refer to INSTRUMENTATION/DRIVER INFO (DIAGNOSTICS). <Ref. to IDI(diag)-7, Control Module I/O Signal.>

- Airbag control module

For I/O signals of the airbag control module, refer to AIRBAG SYSTEM (DIAGNOSTICS). <Ref. to AB(diag)-16, Airbag Control Module I/O Signal.>

- High grade MFD

For I/O signals of high grade MFD, refer to INSTRUMENTATION/DRIVER INFO (DIAGNOSTICS). <Ref. to IDI(diag)-7, Control Module I/O Signal.>

- Keyless access CM

For I/O signals of keyless access CM, refer to KEYLESS ACCESS WITH PUSH BUTTON START SYSTEM (DIAGNOSTICS). <Ref. to KPS(diag)-12, Control Module I/O Signal.>

- Stereo camera

For I/O signals of stereo camera, refer to EyeSight (Diagnostics). <Ref. to ES(diag)-17, STEREO CAMERA, ELECTRICAL SPECIFICATION, Control Module I/O Signal.>

- Auto headlight beam leveler CM

For I/O signals of auto headlight beam leveler CM, refer to AUTO HEADLIGHT BEAM LEVELER SYSTEM (DIAGNOSTICS). <Ref. to AL(diag)-6, AUTO HEADLIGHT BEAM LEVELER CM, ELECTRICAL SPECIFICATION, Control Module I/O Signal.>

- Data link connector

For I/O signals of data link connector, refer to ENGINE (DIAGNOSTICS). <Ref. to EN(H4DO)(diag)-30, Data Link Connector.>

* CAN sleep state:

Hold on for approx. one minute with ignition OFF and the doors, trunk, rear gate all closed.

B: WIRING DIAGRAM

<Ref. to WI-96, WIRING DIAGRAM, CAN Communication System.>



6. Subaru Select Monitor

A: OPERATION

For details of basic operations, refer to "PC application help for Subaru Select Monitor".

B: COMMUNICATION FOR INITIALIZING IMPOSSIBLE

DIAGNOSIS:

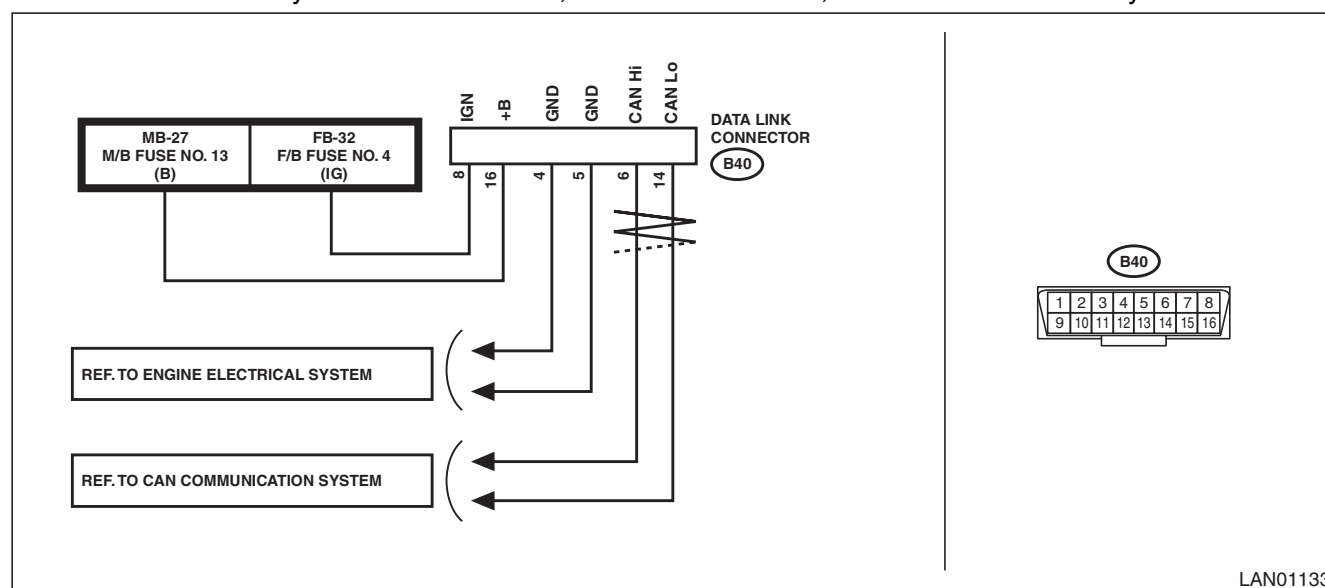
Subaru Select Monitor communication line is open or shorted.

TROUBLE SYMPTOM:

Not communicable with Subaru Select Monitor.

WIRING DIAGRAM:

CAN communication system <Ref. to WI-96, WIRING DIAGRAM, CAN Communication System.>



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. Or check the fuse on the vehicle side.
2	CHECK COMMUNICATION FOR INITIALIZING ERROR. Perform the communication for initializing with each module by connecting the Subaru Select Monitor. (only for installed modules)	Go to step 3.	Perform the inspection using the check sheet of communication for initializing. <Ref. to LAN(diag)-12, CHECK USING THE CHECK SHEET OF COMMUNICATION FOR INITIALIZING, COMMUNICATION FOR INITIALIZING IMPOSSIBLE, Subaru Select Monitor.>

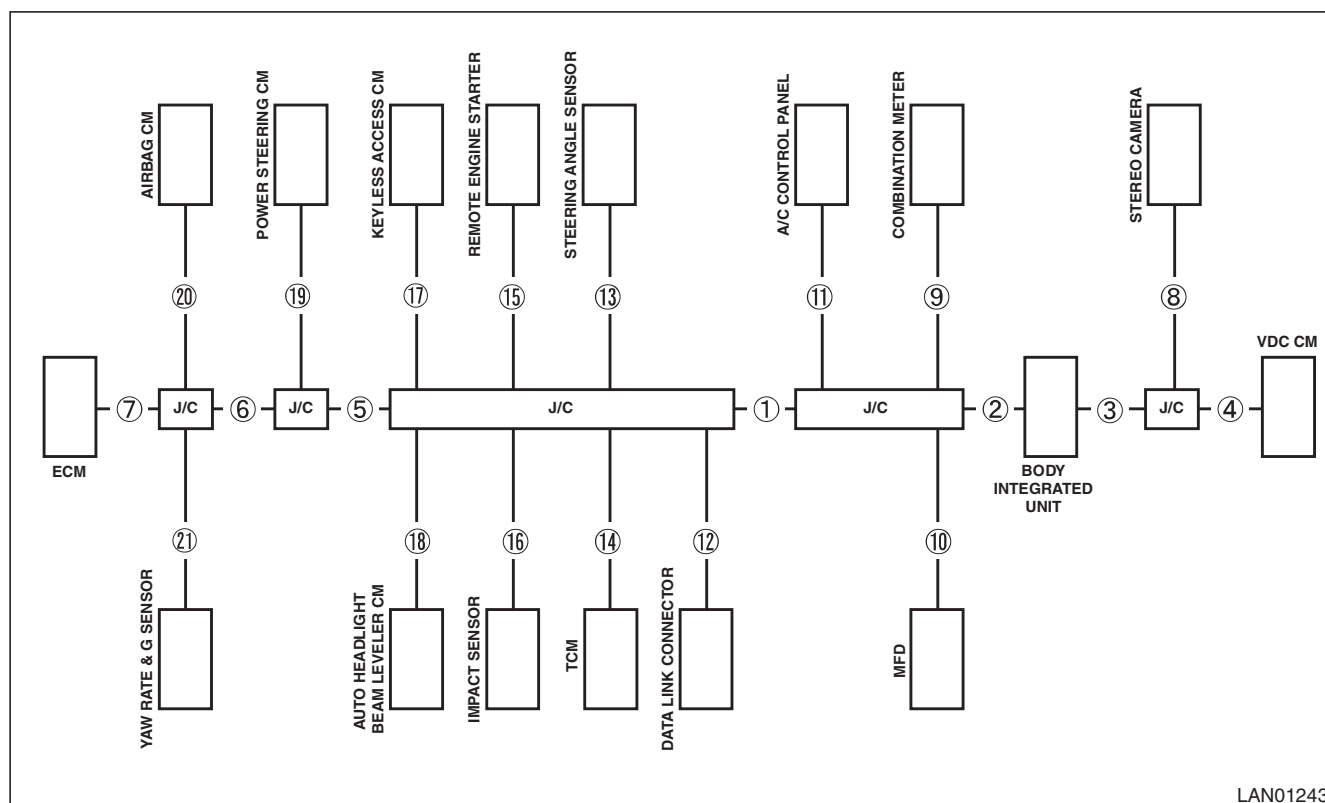
Subaru Select Monitor

LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
3 CHECK DATA LINK CONNECTOR. Use a tester to check for continuity in the ground circuit. Connector & terminal (B40) No. 4 — Chassis ground: (B40) No. 5 — Chassis ground:	Is there continuity?	Go to step 4.	Repair or replace the open circuit.
4 CHECK DATA LINK CONNECTOR. 1) Turn the ignition switch to ON. 2) Using a tester, check the power supply of data link connector. Connector & terminal (B40) No. 8 (+) — Chassis ground (-): (B40) No. 16 (+) — Chassis ground (-):	Is the voltage 10 V or more?	Check the power supply circuit of each module.	Check the power supply circuits to the data link connector.

1. CHECK USING THE CHECK SHEET OF COMMUNICATION FOR INITIALIZING

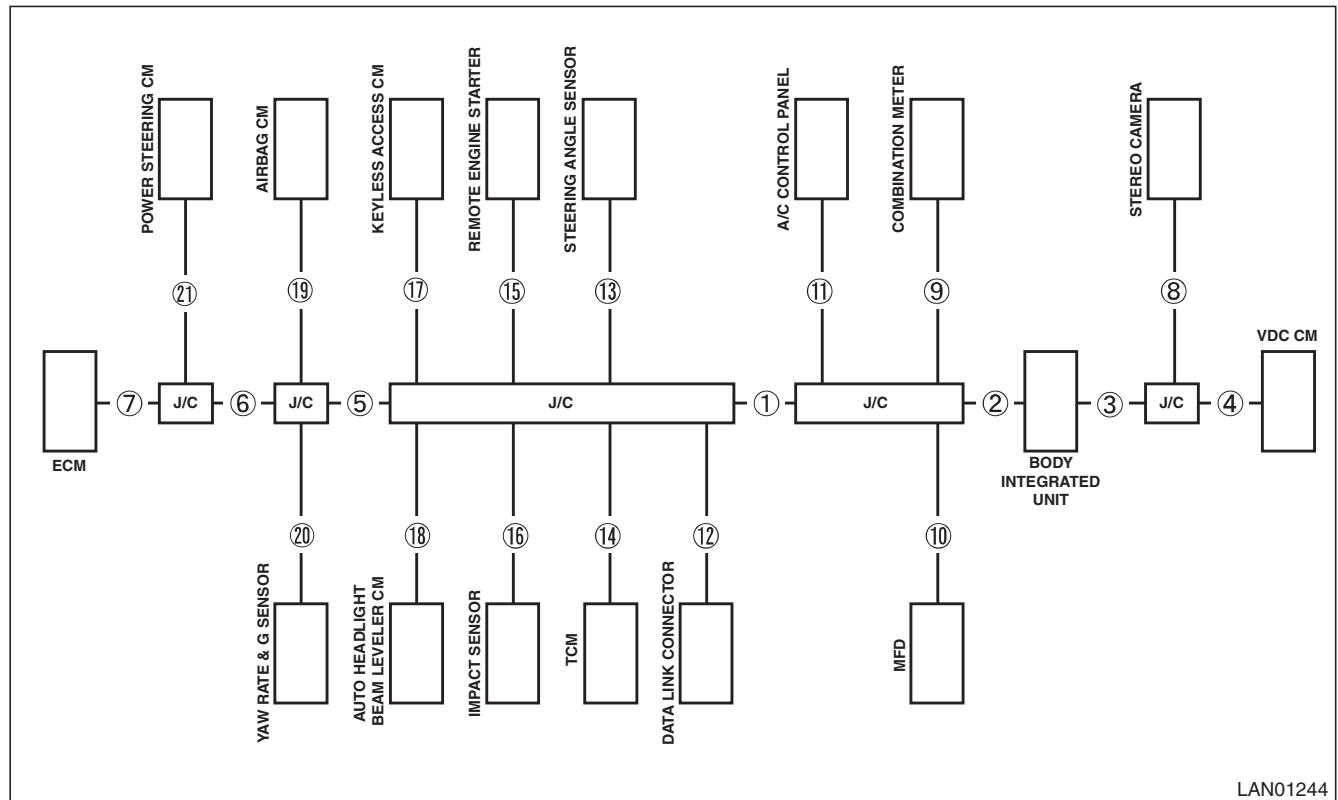
- Network diagram
- Non-turbo model



Subaru Select Monitor

LAN SYSTEM (DIAGNOSTICS)

Turbo model



LAN01244

- Check sheet of communication for initializing

Non-turbo model

	(A)	(B)	(C)																		
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲
			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
VDC																					
CAM																					
BIU																					
MET																					
MFD																					
A/C																					
STR																					
TCM																					
RST																					
IMP																					
KPS																					
HL																					
EPS																					
A/B																					
Y&G																					
ECM																					

LAN01245

Subaru Select Monitor

LAN SYSTEM (DIAGNOSTICS)

Turbo model

	(A)	(B)	(C)																		
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲
VDC																					
CAM																					
BIU																					
MET																					
MFD																					
A/C																					
STR																					
TCM																					
RST																					
IMP																					
KPS																					
HL																					
A/B																					
Y&G																					
EPS																					
ECM																					

LAN01246

(A) Installation check

(B) Communication initialization

(C) Wiring location

VDC: VDC CM

KPS: Keyless access CM

BIU: Body integrated unit

MFD: High grade MFD

A/C: A/C control panel

MET: Combination meter

RST: Remote engine starter CM

HL: Auto headlight beam leveler CM

STR: Steering angle sensor

TCM: TCM

A/B: AB CM

EPS: Power steering CM

EGI: ECM

CAM: Stereo camera

IMP: Impact sensor

Y & G: Yaw rate & G sensor

1) Module installation check

(1) Write “-” marks in the field for installation check if the vehicle to be inspected does not have relevant module.

(2) Write “-” marks in all blank fields on the same row that the “-” mark has filled in.

NOTE:

Example of writing <Ref. to LAN(diag)-15, EXAMPLE OF WRITING FOR THE CHECK SHEET OF COMMUNICATION FOR INITIALIZING, COMMUNICATION FOR INITIALIZING IMPOSSIBLE, Subaru Select Monitor.>

2) SSM communication initialization check

(1) Write “○” marks in the field for communication initialization if the module succeeded in the communication for initializing with Select Monitor.

If the communication with all modules is not possible, go to 3).

(2) Write “○” marks in all blank fields on the same row that the “○” mark has filled in.

(3) When at least one field in a column of wiring location is filled with the “○” mark, then the wiring for that location is normal. Write “○” marks in all blank fields on the same column that the “○” mark has filled in under the circled number.

(4) Check the open circuit of the modules which have no “○” mark in their columns of the wiring location in ascending order (closest to the data link connector first). (only for installed modules)

(5) If the communication is not possible after checking all harnesses, check the module power supply line.

Subaru Select Monitor

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- (6) Perform the basic diagnostic procedure of the system if the power supply line is normal.
- (7) Replace the module if the communication is not possible even after performing the basic diagnostic procedure.

NOTE:

- Example of writing <Ref. to LAN(diag)-15, EXAMPLE OF WRITING FOR THE CHECK SHEET OF COMMUNICATION FOR INITIALIZING, COMMUNICATION FOR INITIALIZING IMPOSSIBLE, Subaru Select Monitor.>
- Inspection using the communication for initializing of Subaru Select Monitor cannot be used to diagnose the wiring location marked with “-”. Example of DTC data not received <Ref. to LAN(diag)-104, EXAMPLE OF DTC DATA NOT RECEIVED, LIST, List of Diagnostic Trouble Code (DTC).> and DTC matrix <Ref. to LAN(diag)-112, DTC MATRIX, LIST, List of Diagnostic Trouble Code (DTC).> should be used to identify the faulty portion.

3) SSM communication initialization check (impossible to communicate with all modules)

NOTE:

Perform inspection regarding the trouble mode indicating that all CAN modules do not communicate. If at least one module becomes possible to communicate, return to 2).

- (1) Check for the short circuit to ground. <Ref. to LAN(diag)-44, GROUND SHORT INSPECTION, INSPECTION, CAN Communication Circuit Check.> If it is normal, go to the next.
- (2) Check for the short circuit to battery. <Ref. to LAN(diag)-47, BATTERY SHORT INSPECTION, INSPECTION, CAN Communication Circuit Check.> If it is normal, go to the next.
- (3) Perform the inspection for the resistance of 52 Ω or less (short between wires). <Ref. to LAN(diag)-53, 52 Ω OR LESS, INSPECTION, CAN Communication Circuit Check.> If it is normal, go to the next.
- (4) Check for the open circuit of data link connector (No. 12) in network diagram.

2. EXAMPLE OF WRITING FOR THE CHECK SHEET OF COMMUNICATION FOR INITIALIZING

Non-turbo model

When ① is open

	(A)	(B)	(C)																	
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱
VDC	○	×					○	○	○					○	—	○	—	○	○	○
CAM	○	×				—	—	—	—	—	—	—	—	○	—	—	—	—	—	—
BIU	○	×			—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—
MET	○	×		—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—
MFD	○	×		—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—
A/C	○	×		—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—
STR	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TCM	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—
RST	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
IMP	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	○	—	—
KPS	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—
HL	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—
EPS	○	○	—	—	—	—	○	—	—	—	—	—	—	○	—	—	—	—	○	—
A/B	○	○	—	—	—	—	○	○	—	—	—	—	—	○	—	—	—	—	—	○
Y&G	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ECM	○	○	—	—	—	—	○	○	○	—	—	—	—	○	—	—	—	—	—	—

LAN01247

Subaru Select Monitor

LAN SYSTEM (DIAGNOSTICS)

When ② is open

	(A)	(B)	(C)																		
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲
			○				○	○	○		○	○	○	○	—	○	—	○	○	○	○
VDC	○	×	○											○							
CAM	○	×	○											○							
BIU	○	×	○											○							
MET	○	○	○								○			○							
MFD	○	○	○									○		○							
A/C	○	○	○										○	○							
STR	○																				
TCM	○	○												○		○					
RST	○																				
IMP	○	○												○				○			
KPS	○	○												○					○		
HL	○	○												○					○		
EPS	○	○					○							○						○	
A/B	○	○					○	○						○							○
Y&G	○																				
ECM	○	○					○	○	○					○							

LAN01248

When ③ is open

	(A)	(B)	(C)																		
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲
			○	○			○	○	○		○	○	○	○	—	○	—	○	○	○	○
VDC	○	×	○	○										○							
CAM	○	×	○	○										○							
BIU	○	○	○	○										○							
MET	○	○	○								○			○							
MFD	○	○	○									○		○							
A/C	○	○	○										○	○							
STR	○																				
TCM	○	○												○		○					
RST	○																				
IMP	○	○												○				○			
KPS	○	○												○					○		
HL	○	○												○					○		
EPS	○	○					○							○						○	
A/B	○	○					○	○						○							○
Y&G	○																				
ECM	○	○					○	○	○					○							

LAN01249

Subaru Select Monitor

LAN SYSTEM (DIAGNOSTICS)

When ④ is open

	(A)	(B)	(C)																		
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲
			○	○	○		○	○	○	○	○	○	○	○	—	○	—	○	○	○	○
VDC	○	×	○	○	○		—	—	—	—	—	—	—	○	—	—	—	—	—	—	—
CAM	○	○	○	○	○	—	—	—	—	○	—	—	—	○	—	—	—	—	—	—	—
BIU	○	○	○	○	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—
MET	○	○	○	—	—	—	—	—	—	—	○	—	—	○	—	—	—	—	—	—	—
MFD	○	○	○	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—
A/C	○	○	○	—	—	—	—	—	—	—	—	—	○	○	—	—	—	—	—	—	—
STR	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TCM	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—
RST	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
IMP	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	○	—	—	—
KPS	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—
HL	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—
EPS	○	○	—	—	—	—	○	—	—	—	—	—	—	○	—	—	—	—	—	○	—
A/B	○	○	—	—	—	—	○	○	—	—	—	—	—	○	—	—	—	—	—	—	○
Y&G	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ECM	○	○	—	—	—	—	○	○	○	—	—	—	—	○	—	—	—	—	—	—	—

LAN01250

When ⑤ is open

	(A)	(B)	(C)																		
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲
			○	○	○	○				○	○	○	○	○	—	○	—	○	○	○	
VDC	○	○	○	○	○	○	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—
CAM	○	○	○	○	○	—	—	—	—	○	—	—	—	○	—	—	—	—	—	—	—
BIU	○	○	○	○	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—
MET	○	○	○	—	—	—	—	—	—	—	○	—	—	○	—	—	—	—	—	—	—
MFD	○	○	○	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—
A/C	○	○	○	—	—	—	—	—	—	—	—	—	○	○	—	—	—	—	—	—	—
STR	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TCM	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—
RST	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
IMP	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	○	—	—	—
KPS	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—
HL	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—
EPS	○	×	—	—	—	—		—	—	—	—	—	—	○	—	—	—	—	—		—
A/B	○	×	—	—	—	—		—	—	—	—	—	—	○	—	—	—	—	—		—
Y&G	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ECM	○	×	—	—	—	—				—	—	—	—	○	—	—	—	—	—	—	—

LAN01251

Subaru Select Monitor

LAN SYSTEM (DIAGNOSTICS)

When ⑥ is open

	(A)	(B)	(C)																				
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑳	㉑	
			○	○	○	○	○			○	○	○	○	○	—	○	—	○	○	○	○		—
VDC	○	○	○	○	○	○	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—	
CAM	○	○	○	○	○	—	—	—	—	○	—	—	—	○	—	—	—	—	—	—	—	—	
BIU	○	○	○	○	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—	
MET	○	○	○	—	—	—	—	—	—	—	○	—	—	○	—	—	—	—	—	—	—	—	
MFD	○	○	○	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—	—	
A/C	○	○	○	—	—	—	—	—	—	—	—	—	○	○	—	—	—	—	—	—	—	—	
STR	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
TCM	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	
RST	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
IMP	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	○	—	—	—	—	
KPS	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—	—	
HL	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—	—	
EPS	○	○	—	—	—	—	○	—	—	—	—	—	—	○	—	—	—	—	—	○	—	—	
A/B	○	×	—	—	—	—	○		—	—	—	—	—	○	—	—	—	—	—	—		—	
Y&G	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
ECM	○	×	—	—	—	—	○			—	—	—	—	○	—	—	—	—	—	—	—	—	

LAN01252

LAN01252

When ⑦ is open

	(A)	(B)	(C)																				
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑳	㉑	
			○	○	○	○	○	○		○	○	○	○	○	—	○	—	○	○	○	○	○	—
VDC	○	○	○	○	○	○	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—		
CAM	○	○	○	○	○	—	—	—	—	○	—	—	○	—	—	—	—	—	—	—	—		
BIU	○	○	○	○	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—		
MET	○	○	○	—	—	—	—	—	—	○	—	—	○	—	—	—	—	—	—	—	—		
MFD	○	○	○	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—	—		
A/C	○	○	○	—	—	—	—	—	—	—	—	○	○	—	—	—	—	—	—	—	—		
STR	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
TCM	○	○	—	—	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—		
RST	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
IMP	○	○	—	—	—	—	—	—	—	—	—	—	○	—	—	—	○	—	—	—	—		
KPS	○	○	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—	—		
HL	○	○	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	○	—	—		
EPS	○	○	—	—	—	—	○	—	—	—	—	—	○	—	—	—	—	—	—	○	—		
A/B	○	○	—	—	—	—	○	○	—	—	—	—	○	—	—	—	—	—	—	—	○	—	
Y&G	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
ECM	○	×	—	—	—	—	○	○		—	—	—	○	—	—	—	—	—	—	—	—		

LAN01253

LAN01253

Subaru Select Monitor

LAN SYSTEM (DIAGNOSTICS)

When ⑧ is open

	(A)	(B)	(C)																		
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲
			○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
VDC	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
CAM	○	×	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
BIU	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
MET	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
MFD	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
A/C	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
STR	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
TCM	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
RST	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
IMP	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
KPS	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
HL	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
EPS	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
A/B	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Y&G	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
ECM	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

LAN01254

When ⑨ is open

	(A)	(B)	(C)																		
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲
			○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
VDC	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
CAM	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
BIU	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
MET	○	×	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
MFD	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
A/C	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
STR	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
TCM	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
RST	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
IMP	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
KPS	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
HL	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
EPS	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
A/B	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Y&G	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
ECM	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

LAN01255

Subaru Select Monitor

LAN SYSTEM (DIAGNOSTICS)

When ⑩ is open

	(A)	(B)	(C)																		
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲
			○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
VDC	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
CAM	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
BIU	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
MET	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
MFD	○	×	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
A/C	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
STR	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
TCM	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
RST	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
IMP	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
KPS	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
HL	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
EPS	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
A/B	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Y&G	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
ECM	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

LAN01256

When ⑪ is open

	(A)	(B)	(C)																		
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲
			○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
VDC	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
CAM	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
BIU	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
MET	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
MFD	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
A/C	○	×	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
STR	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
TCM	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
RST	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
IMP	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
KPS	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
HL	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
EPS	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
A/B	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Y&G	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
ECM	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

LAN01257

Subaru Select Monitor

LAN SYSTEM (DIAGNOSTICS)

When ⑫ is open

NOTE:

Perform inspection by referring to the SSM communication initialization check (impossible to communicate with all modules).

	(A)	(B)	(C)																		
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲
VDC	○	×					—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CAM	○	×				—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
BIU	○	×			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MET	○	×		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MFD	○	×		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
A/C	○	×		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
STR	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TCM	○	×	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
RST	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
IMP	○	×	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
KPS	○	×	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HL	○	×	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
EPS	○	×	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
A/B	○	×	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Y&G	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ECM	○	×	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

LAN01258



Subaru Select Monitor

LAN SYSTEM (DIAGNOSTICS)

When ⑬, ⑮ and ⑳ are open

NOTE:

- It is the same as in the case of open circuit of ⑬, ⑮ and ⑳. However, determination is possible through the difference in the data no-receive detection condition of each module. <Ref. to LAN(diag)-104, EXAMPLE OF DTC DATA NOT RECEIVED, LIST, List of Diagnostic Trouble Code (DTC).>
- If the remote engine starter does not operate even though no DTC has been detected, check the lines of the remote engine starter.

	(A)	(B)	(C)																		
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲
			○	○	○	○	○	○	○	○	○	○	○	○	—	○	—	○	○	○	○
VDC	○	○	○	○	○	○	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—
CAM	○	○	○	○	○	—	—	—	—	○	—	—	—	○	—	—	—	—	—	—	—
BIU	○	○	○	○	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—
MET	○	○	○	—	—	—	—	—	—	—	○	—	—	○	—	—	—	—	—	—	—
MFD	○	○	○	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—
A/C	○	○	○	—	—	—	—	—	—	—	—	—	○	○	—	—	—	—	—	—	—
STR	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TCM	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—
RST	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
IMP	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	○	—	—	—
KPS	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—
HL	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—
EPS	○	○	—	—	—	—	○	—	—	—	—	—	—	○	—	—	—	—	—	○	—
A/B	○	○	—	—	—	—	○	○	—	—	—	—	—	○	—	—	—	—	—	—	○
Y&G	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ECM	○	○	—	—	—	—	○	○	○	—	—	—	—	○	—	—	—	—	—	—	—

LAN01259

Subaru Select Monitor

LAN SYSTEM (DIAGNOSTICS)

When ⑭ is open

	(A)	(B)	(C)																				
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑳	㉑	
			○	○	○	○	○	○	○	○	○	○	○	○	○	—		—	○	○	○	○	○
VDC	○	○	○	○	○	○	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—	
CAM	○	○	○	○	○	—	—	—	—	○	—	—	—	○	—	—	—	—	—	—	—	—	
BIU	○	○	○	○	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—	
MET	○	○	○	—	—	—	—	—	—	—	○	—	—	○	—	—	—	—	—	—	—	—	
MFD	○	○	○	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—	—	
A/C	○	○	○	—	—	—	—	—	—	—	—	—	○	○	—	—	—	—	—	—	—	—	
STR	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
TCM	○	×	—	—	—	—	—	—	—	—	—	—	—	○	—		—	—	—	—	—	—	
RST	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
IMP	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	○	—	—	—	—	
KPS	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—	—	
HL	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—	—	
EPS	○	○	—	—	—	—	○	—	—	—	—	—	—	○	—	—	—	—	—	○	—	—	
A/B	○	○	—	—	—	—	○	○	—	—	—	—	—	○	—	—	—	—	—	—	○	—	
Y&G	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
ECM	○	○	—	—	—	—	○	○	○	—	—	—	—	○	—	—	—	—	—	—	—	—	

LAN01260

LAN01260

When ⑯ is open

	(A)	(B)	(C)																				
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑳	㉑	
			○	○	○	○	○	○	○	○	○	○	○	○	○	—	○	—		○	○	○	○
VDC	○	○	○	○	○	○	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—	
CAM	○	○	○	○	○	—	—	—	—	○	—	—	—	○	—	—	—	—	—	—	—	—	
BIU	○	○	○	○	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—	
MET	○	○	○	—	—	—	—	—	—	—	○	—	—	○	—	—	—	—	—	—	—	—	
MFD	○	○	○	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—	—	
A/C	○	○	○	—	—	—	—	—	—	—	—	—	○	○	—	—	—	—	—	—	—	—	
STR	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
TCM	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	
RST	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
IMP	○	×	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—		—	—	—	—	
KPS	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—	—	
HL	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—	—	
EPS	○	○	—	—	—	—	○	—	—	—	—	—	—	○	—	—	—	—	—	○	—	—	
A/B	○	○	—	—	—	—	○	○	—	—	—	—	—	○	—	—	—	—	—	—	○	—	
Y&G	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
ECM	○	○	—	—	—	—	○	○	○	—	—	—	—	○	—	—	—	—	—	—	—	—	

LAN01261

LAN01261

Subaru Select Monitor

LAN SYSTEM (DIAGNOSTICS)

When ⑰ is open

	(A)	(B)	(C)																				
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑳	㉑	
			○	○	○	○	○	○	○	○	○	○	○	○	—	○	—	○		○	○	○	—
VDC	○	○	○	○	○	○	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—	—	
CAM	○	○	○	○	○	—	—	—	—	○	—	—	—	○	—	—	—	—	—	—	—	—	
BIU	○	○	○	○	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—	—	
MET	○	○	○	—	—	—	—	—	—	—	○	—	—	○	—	—	—	—	—	—	—	—	
MFD	○	○	○	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—	—	
A/C	○	○	○	—	—	—	—	—	—	—	—	—	○	○	—	—	—	—	—	—	—	—	
STR	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
TCM	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	
RST	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
IMP	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	○	—	—	—	—	
KPS	○	×	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—		—	—	—	
HL	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	○	—	—	
EPS	○	○	—	—	—	—	○	—	—	—	—	—	—	○	—	—	—	—	—	—	○	—	
A/B	○	○	—	—	—	—	○	○	—	—	—	—	—	○	—	—	—	—	—	—	—	○	—
Y&G	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
ECM	○	○	—	—	—	—	○	○	○	—	—	—	—	○	—	—	—	—	—	—	—	—	

LAN01262

LAN01262

When ⑱ is open

	(A)	(B)	(C)																				
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑳	㉑	
			○	○	○	○	○	○	○	○	○	○	○	○	○	—	○	—	○	○		○	○
VDC	○	○	○	○	○	○	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—	—	
CAM	○	○	○	○	○	—	—	—	—	○	—	—	○	—	—	—	—	—	—	—	—	—	
BIU	○	○	○	○	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—	—	
MET	○	○	○	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—	—	—	
MFD	○	○	○	—	—	—	—	—	—	—	○	—	○	—	○	—	—	—	—	—	—	—	
A/C	○	○	○	—	—	—	—	—	—	—	—	○	○	—	—	—	—	—	—	—	—	—	
STR	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
TCM	○	○	—	—	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—	
RST	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
IMP	○	○	—	—	—	—	—	—	—	—	—	—	○	—	—	—	○	—	—	—	—	—	
KPS	○	○	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—	—	—	
HL	○	×	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—		—	—	—	
EPS	○	○	—	—	—	—	○	—	—	—	—	—	○	—	—	—	—	—	—	○	—	—	
A/B	○	○	—	—	—	—	○	○	—	—	—	—	○	—	—	—	—	—	—	—	○	—	
Y&G	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
ECM	○	○	—	—	—	—	○	○	○	—	—	—	○	—	—	—	—	—	—	—	—	—	

LAN01263

LAN01263

Subaru Select Monitor

LAN SYSTEM (DIAGNOSTICS)

When ⑲ is open

	(A)	(B)	(C)																				
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑳	㉑	
			○	○	○	○	○	○	○	○	○	○	○	○	—	○	—	○	○	○		○	—
VDC	○	○	○	○	○	○	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—	—	
CAM	○	○	○	○	○	—	—	—	—	○	—	—	—	○	—	—	—	—	—	—	—	—	
BIU	○	○	○	○	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—	—	
MET	○	○	○	—	—	—	—	—	—	—	○	—	—	○	—	—	—	—	—	—	—	—	
MFD	○	○	○	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—	—	
A/C	○	○	○	—	—	—	—	—	—	—	—	—	○	○	—	—	—	—	—	—	—	—	
STR	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
TCM	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	
RST	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
IMP	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	○	—	—	—	—	
KPS	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—	—	
HL	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	○	—	—	
EPS	○	×	—	—	—	—	○	—	—	—	—	—	—	○	—	—	—	—	—	—		—	
A/B	○	○	—	—	—	—	○	○	—	—	—	—	—	○	—	—	—	—	—	—	—	○	—
Y&G	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
ECM	○	○	—	—	—	—	○	○	○	—	—	—	—	○	—	—	—	—	—	—	—	—	

LAN01264

LAN01264

When ⑳ is open

	(A)	(B)	(C)																			
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑳	㉑
			○	○	○	○	○	○	○	○	○	○	○	○	—	○	—	○	○	○	○	
VDC	○	○	○	○	○	○	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—	—
CAM	○	○	○	○	○	—	—	—	○	—	—	—	○	—	—	—	—	—	—	—	—	—
BIU	○	○	○	○	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—	—
MET	○	○	○	—	—	—	—	—	—	○	—	—	○	—	—	—	—	—	—	—	—	—
MFD	○	○	○	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—	—	—
A/C	○	○	○	—	—	—	—	—	—	—	—	○	○	—	—	—	—	—	—	—	—	—
STR	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TCM	○	○	—	—	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—
RST	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
IMP	○	○	—	—	—	—	—	—	—	—	—	—	○	—	—	—	○	—	—	—	—	—
KPS	○	○	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—	—	—
HL	○	○	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	○	—	—	—
EPS	○	○	—	—	—	—	○	—	—	—	—	—	○	—	—	—	—	—	—	○	—	—
A/B	○	×	—	—	—	—	○	○	—	—	—	—	○	—	—	—	—	—	—	—		—
Y&G	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ECM	○	○	—	—	—	—	○	○	○	—	—	—	○	—	—	—	—	—	—	—	—	—

LAN01265

LAN01265

Subaru Select Monitor

LAN SYSTEM (DIAGNOSTICS)

Turbo model

When ① is open

	(A)	(B)	(C)																			
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑳	㉑
							○	○	○					○	—	○	—	○	○	○	○	—
VDC	○	×					—	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—
CAM	○	×				—	—	—		—	—	—	○	—	—	—	—	—	—	—	—	
BIU	○	×			—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—	
MET	○	×		—	—	—	—	—	—		—	—	○	—	—	—	—	—	—	—	—	
MFD	○	×		—	—	—	—	—	—		—	—	○	—	—	—	—	—	—	—	—	
A/C	○	×		—	—	—	—	—	—	—		—	○	—	—	—	—	—	—	—	—	
STR	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
TCM	○	○	—	—	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	
RST	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
IMP	○	○	—	—	—	—	—	—	—	—	—	—	○	—	—	—	○	—	—	—	—	
KPS	○	○	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—	—	
HL	○	○	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—	—	
A/B	○	○	—	—	—	—	○	—	—	—	—	—	○	—	—	—	—	—	○	—	—	
Y&G	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
EPS	○	○	—	—	—	—	○	○	—	—	—	—	○	—	—	—	—	—	—	—	○	
ECM	○	○	—	—	—	—	○	○	○	—	—	—	○	—	—	—	—	—	—	—	—	

LAN0126

LAN01266

When ② is open

	(A)	(B)	(C)																				
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑳	㉑	
			○				○	○	○		○	○	○	○	—	○	—	○	○	○	○	—	○
VDC	○	×	○				—	—	—	—	—	—	○	—	—	—	—	—	—	—	—	—	
CAM	○	×	○			—	—	—		—	—	—	○	—	—	—	—	—	—	—	—	—	
BIU	○	×	○		—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—	—	
MET	○	○	○	—	—	—	—	—	—	○	—	—	○	—	—	—	—	—	—	—	—	—	
MFD	○	○	○	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—	—	—	
A/C	○	○	○	—	—	—	—	—	—	—	—	○	○	—	—	—	—	—	—	—	—	—	
STR	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
TCM	○	○	—	—	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—	
RST	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
IMP	○	○	—	—	—	—	—	—	—	—	—	—	○	—	—	—	○	—	—	—	—	—	
KPS	○	○	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—	—	—	
HL	○	○	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	○	—	—	—	
A/B	○	○	—	—	—	—	○	—	—	—	—	—	○	—	—	—	—	—	—	○	—	—	
Y&G	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
EPS	○	○	—	—	—	—	○	○	—	—	—	—	○	—	—	—	—	—	—	—	—	○	
ECM	○	○	—	—	—	—	○	○	○	—	—	—	○	—	—	—	—	—	—	—	—	—	

LAN0126

LAN01267

Subaru Select Monitor

LAN SYSTEM (DIAGNOSTICS)

When ③ is open

	(A)	(B)	(C)																		
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲
			○	○			○	○	○		○	○	○	○	—	○	—	○	○	○	○
VDC	○	×	○	○			—	—	—	—	—	—	—	○	—	—	—	—	—	—	—
CAM	○	×	○	○		—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—
BIU	○	○	○	○	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—
MET	○	○	○	—	—	—	—	—	—	—	○	—	—	○	—	—	—	—	—	—	—
MFD	○	○	○	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—
A/C	○	○	○	—	—	—	—	—	—	—	—	—	○	○	—	—	—	—	—	—	—
STR	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TCM	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—
RST	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
IMP	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	○	—	—	—
KPS	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—
HL	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—
A/B	○	○	—	—	—	—	○	—	—	—	—	—	—	○	—	—	—	—	—	○	—
Y&G	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
EPS	○	○	—	—	—	—	○	○	—	—	—	—	—	○	—	—	—	—	—	—	○
ECM	○	○	—	—	—	—	○	○	○	—	—	—	—	○	—	—	—	—	—	—	—

LAN01268

When ④ is open

	(A)	(B)	(C)																		
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲
			○	○	○		○	○	○	○	○	○	○	○	—	○	—	○	○	○	○
VDC	○	×	○	○	○		—	—	—	—	—	—	—	○	—	—	—	—	—	—	—
CAM	○	○	○	○	○	—	—	—	—	○	—	—	—	○	—	—	—	—	—	—	—
BIU	○	○	○	○	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—
MET	○	○	○	—	—	—	—	—	—	—	○	—	—	○	—	—	—	—	—	—	—
MFD	○	○	○	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—
A/C	○	○	○	—	—	—	—	—	—	—	—	—	○	○	—	—	—	—	—	—	—
STR	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TCM	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—
RST	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
IMP	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	○	—	—	—
KPS	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—
HL	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—
A/B	○	○	—	—	—	—	○	—	—	—	—	—	—	○	—	—	—	—	—	○	—
Y&G	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
EPS	○	○	—	—	—	—	○	○	—	—	—	—	—	○	—	—	—	—	—	—	○
ECM	○	○	—	—	—	—	○	○	○	—	—	—	—	○	—	—	—	—	—	—	—

LAN01269

Subaru Select Monitor

LAN SYSTEM (DIAGNOSTICS)

When ⑤ is open

	(A)	(B)	(C)																			
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑳	㉑
			○	○	○	○				○	○	○	○	○	—	○	—	○	○	○		—
VDC	○	○	○	○	○	○	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—
CAM	○	○	○	○	○	—	—	—	—	○	—	—	—	○	—	—	—	—	—	—	—	—
BIU	○	○	○	○	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—
MET	○	○	○	—	—	—	—	—	—	—	○	—	—	○	—	—	—	—	—	—	—	—
MFD	○	○	○	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—	—
A/C	○	○	○	—	—	—	—	—	—	—	—	—	○	○	—	—	—	—	—	—	—	—
STR	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TCM	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—
RST	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
IMP	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	○	—	—	—	—
KPS	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—	—
HL	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—	—
A/B	○	×	—	—	—	—			—	—	—	—	—	○	—	—	—	—	—			—
Y&G	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
EPS	○	×	—	—	—	—			—	—	—	—	—	○	—	—	—	—	—	—	—	
ECM	○	×	—	—	—	—				—	—	—	—	○	—	—	—	—	—	—	—	—

LAN01270

LAN01270

When ⑥ is open

	(A)	(B)	(C)																				
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑳	㉑	
			○	○	○	○	○			○	○	○	○	○	—	○	—	○	○	○	○	—	
VDC	○	○	○	○	○	○	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—	
CAM	○	○	○	○	○	—	—	—	—	○	—	—	—	○	—	—	—	—	—	—	—	—	
BIU	○	○	○	○	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—	
MET	○	○	○	—	—	—	—	—	—	—	○	—	—	○	—	—	—	—	—	—	—	—	
MFD	○	○	○	—	—	—	—	—	—	—	—	○	—	○	—	○	—	—	—	—	—	—	
A/C	○	○	○	—	—	—	—	—	—	—	—	—	○	○	—	—	—	—	—	—	—	—	
STR	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
TCM	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	
RST	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
IMP	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	○	—	—	—	—	
KPS	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—	—	
HL	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	○	—	—	
A/B	○	○	—	—	—	—	○	—	—	—	—	—	—	○	—	—	—	—	—	—	○	—	
Y&G	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
EPS	○	×	—	—	—	—	○		—	—	—	—	—	○	—	—	—	—	—	—	—		
ECM	○	×	—	—	—	—	○			—	—	—	—	○	—	—	—	—	—	—	—	—	

LAN01271

LAN01271

Subaru Select Monitor

LAN SYSTEM (DIAGNOSTICS)

When ⑦ is open

	(A)	(B)	(C)																			
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑳	㉑
			○	○	○	○	○	○		○	○	○	○	○	—	○	—	○	○	○	○	—
VDC	○	○	○	○	○	○	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—
CAM	○	○	○	○	○	—	—	—	—	○	—	—	—	○	—	—	—	—	—	—	—	—
BIU	○	○	○	○	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—
MET	○	○	○	—	—	—	—	—	—	—	○	—	—	○	—	—	—	—	—	—	—	—
MFD	○	○	○	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—	—
A/C	○	○	○	—	—	—	—	—	—	—	—	—	○	○	—	—	—	—	—	—	—	—
STR	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TCM	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—
RST	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
IMP	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	○	—	—	—	—
KPS	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—	—
HL	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	○	—	—
A/B	○	○	—	—	—	—	○	—	—	—	—	—	—	○	—	—	—	—	—	—	○	—
Y&G	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
EPS	○	○	—	—	—	—	○	○	—	—	—	—	—	○	—	—	—	—	—	—	—	○
ECM	○	×	—	—	—	—	○	○		—	—	—	—	○	—	—	—	—	—	—	—	—

LAN01272

When ⑧ is open

	(A)	(B)	(C)																			
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑳	㉑
			○	○	○	○	○	○	○	○		○	○	○	○	—	○	—	○	○	○	○
VDC	○	○	○	○	○	○	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—	—
CAM	○	×	○	○	○	—	—	—		—	—	—	○	—	—	—	—	—	—	—	—	—
BIU	○	○	○	○	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—	—
MET	○	○	○	—	—	—	—	—	—	○	—	—	○	—	—	—	—	—	—	—	—	—
MFD	○	○	○	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—	—	—
A/C	○	○	○	—	—	—	—	—	—	—	—	○	○	—	—	—	—	—	—	—	—	—
STR	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TCM	○	○	—	—	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—
RST	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
IMP	○	○	—	—	—	—	—	—	—	—	—	—	○	—	—	—	○	—	—	—	—	—
KPS	○	○	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—	—	—
HL	○	○	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	○	—	—	—
A/B	○	○	—	—	—	—	○	—	—	—	—	—	○	—	—	—	—	—	—	○	—	—
Y&G	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
EPS	○	○	—	—	—	—	○	○	—	—	—	—	○	—	—	—	—	—	—	—	—	○
ECM	○	○	—	—	—	—	○	○	○	—	—	—	○	—	—	—	—	—	—	—	—	—

LAN0127

LAN01273

Subaru Select Monitor

LAN SYSTEM (DIAGNOSTICS)

When ⑨ is open

	(A)	(B)	(C)																			
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑳	㉑
			○	○	○	○	○	○	○	○		○	○	○	—	○	—	○	○	○	○	—
VDC	○	○	○	○	○	○	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—	—
CAM	○	○	○	○	○	—	—	—	—	○	—	—	—	○	—	—	—	—	—	—	—	—
BIU	○	○	○	○	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—	—
MET	○	×	○	—	—	—	—	—	—		—	—	○	—	—	—	—	—	—	—	—	—
MFD	○	○	○	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—	—	—
A/C	○	○	○	—	—	—	—	—	—	—	—	○	○	—	—	—	—	—	—	—	—	—
STR	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TCM	○	○	—	—	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—
RST	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
IMP	○	○	—	—	—	—	—	—	—	—	—	—	○	—	—	—	○	—	—	—	—	—
KPS	○	○	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—	—	—
HL	○	○	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	○	—	—	—
A/B	○	○	—	—	—	—	○	—	—	—	—	—	○	—	—	—	—	—	—	○	—	—
Y&G	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
EPS	○	○	—	—	—	—	○	○	—	—	—	—	○	—	—	—	—	—	—	—	—	○
ECM	○	○	—	—	—	—	○	○	○	—	—	—	○	—	—	—	—	—	—	—	—	—

LAN01274

LAN01274

When ⑩ is open

	(A)	(B)	(C)																				
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑳	㉑	
			○	○	○	○	○	○	○	○	○		○	○	—	○	—	○	○	○	○	—	○
VDC	○	○	○	○	○	○	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—		
CAM	○	○	○	○	○	—	—	—	—	○	—	—	○	—	—	—	—	—	—	—	—		
BIU	○	○	○	○	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—		
MET	○	○	○	—	—	—	—	—	—	○	—	—	○	—	—	—	—	—	—	—	—		
MFD	○	×	○	—	—	—	—	—	—	—		—	○	—	—	—	—	—	—	—	—		
A/C	○	○	○	—	—	—	—	—	—	—	—	○	○	—	—	—	—	—	—	—	—		
STR	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
TCM	○	○	—	—	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—		
RST	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
IMP	○	○	—	—	—	—	—	—	—	—	—	—	○	—	—	—	○	—	—	—	—		
KPS	○	○	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—	—		
HL	○	○	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	○	—	—		
A/B	○	○	—	—	—	—	○	—	—	—	—	—	○	—	—	—	—	—	—	○	—		
Y&G	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
EPS	○	○	—	—	—	—	○	○	—	—	—	—	○	—	—	—	—	—	—	—	○		
ECM	○	○	—	—	—	—	○	○	○	—	—	—	○	—	—	—	—	—	—	—	—		

LAN01275

LAN01275

Subaru Select Monitor

LAN SYSTEM (DIAGNOSTICS)

When ⑪ is open

	(A)	(B)	(C)																		
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲
			○	○	○	○	○	○	○	○	○	○	○	○	—	○	—	○	○	○	○
VDC	○	○	○	○	○	○	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—
CAM	○	○	○	○	○	—	—	—	—	○	—	—	—	○	—	—	—	—	—	—	—
BIU	○	○	○	○	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—
MET	○	○	○	—	—	—	—	—	—	—	○	—	—	○	—	—	—	—	—	—	—
MFD	○	○	○	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—
A/C	○	×	○	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—
STR	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TCM	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—
RST	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
IMP	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	○	—	—	—
KPS	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—
HL	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—
A/B	○	○	—	—	—	—	○	—	—	—	—	—	—	○	—	—	—	—	—	○	—
Y&G	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
EPS	○	○	—	—	—	—	○	○	—	—	—	—	—	○	—	—	—	—	—	—	○
ECM	○	○	—	—	—	—	○	○	○	—	—	—	—	○	—	—	—	—	—	—	—

LAN01276



Subaru Select Monitor

LAN SYSTEM (DIAGNOSTICS)

When ⑫ is open

NOTE:

Perform inspection by referring to the SSM communication initialization check (impossible to communicate with all modules).

	(A)	(B)	(C)																				
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳	㉑
																—		—					
VDC	○	×					—	—	—	—	—	—			—	—	—	—	—	—	—	—	—
CAM	○	×				—	—	—	—		—	—			—	—		—	—	—	—	—	—
BIU	○	×			—	—	—	—	—	—	—	—			—	—	—		—	—	—	—	—
MET	○	×		—	—	—	—	—	—	—		—	—			—	—	—	—	—	—	—	—
MFD	○	×		—	—	—	—	—	—	—		—			—	—	—	—	—	—	—	—	—
A/C	○	×		—	—	—	—	—	—	—	—				—	—	—	—	—	—	—	—	—
STR	○	—	—	—	—	—	—	—	—	—	—	—		—	—	—		—	—	—	—	—	—
TCM	○	×	—	—	—	—	—	—	—	—	—	—		—		—	—	—	—	—	—	—	—
RST	○	—	—	—	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—
IMP	○	×	—	—	—	—	—	—	—	—	—	—		—	—	—		—	—	—	—	—	—
KPS	○	×	—	—	—	—	—	—	—	—	—	—		—	—	—	—		—	—	—	—	—
HL	○	×	—	—	—	—	—	—	—	—	—	—		—	—	—	—	—		—	—	—	—
A/B	○	×	—	—	—	—		—	—	—	—	—		—	—	—	—	—	—		—	—	—
Y&G	○	—	—	—	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—
EPS	○	×	—	—	—	—			—	—	—	—		—	—	—	—	—	—	—	—		—
ECM	○	×	—	—	—	—			—	—	—	—		—	—	—	—	—	—	—	—	—	—

LAN0127Z

LAN01277



Subaru Select Monitor

LAN SYSTEM (DIAGNOSTICS)

When ⑬, ⑮ and ⑳ are open

NOTE:

- It is the same as in the case of open circuit of ⑬, ⑮ and ⑳. However, determination is possible through the difference in the data no-receive detection condition of each module. <Ref. to LAN(diag)-104, EXAMPLE OF DTC DATA NOT RECEIVED, LIST, List of Diagnostic Trouble Code (DTC).>
- If the remote engine starter does not operate even though no DTC has been detected, check the lines of the remote engine starter.

	(A)	(B)	(C)																			
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑳	㉑
			○	○	○	○	○	○	○	○	○	○	○	○	○	—	○	—	○	○	○	○
VDC	○	○	○	○	○	○	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—	—
CAM	○	○	○	○	○	—	—	—	—	○	—	—	—	○	—	—	—	—	—	—	—	—
BIU	○	○	○	○	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—	—
MET	○	○	○	—	—	—	—	—	—	○	—	—	○	—	—	—	—	—	—	—	—	—
MFD	○	○	○	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—	—	—
A/C	○	○	○	—	—	—	—	—	—	—	—	○	○	—	—	—	—	—	—	—	—	—
STR	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TCM	○	○	—	—	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—
RST	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
IMP	○	○	—	—	—	—	—	—	—	—	—	—	○	—	—	—	○	—	—	—	—	—
KPS	○	○	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—	—	—
HL	○	○	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	○	—	—	—
A/B	○	○	—	—	—	—	○	—	—	—	—	—	○	—	—	—	—	—	—	○	—	—
Y&G	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
EPS	○	○	—	—	—	—	○	○	—	—	—	—	○	—	—	—	—	—	—	—	—	○
ECM	○	○	—	—	—	—	○	○	○	—	—	—	○	—	—	—	—	—	—	—	—	—

LAN0127

LAN01278

Subaru Select Monitor

LAN SYSTEM (DIAGNOSTICS)

When ⑭ is open

	(A)	(B)	(C)																		
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲
			○	○	○	○	○	○	○	○	○	○	○	○	—	—	—	○	○	○	○
VDC	○	○	○	○	○	○	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—
CAM	○	○	○	○	○	—	—	—	—	○	—	—	—	○	—	—	—	—	—	—	—
BIU	○	○	○	○	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—
MET	○	○	○	—	—	—	—	—	—	—	○	—	—	○	—	—	—	—	—	—	—
MFD	○	○	○	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—
A/C	○	○	○	—	—	—	—	—	—	—	—	—	○	○	—	—	—	—	—	—	—
STR	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TCM	○	×	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—
RST	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
IMP	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	○	—	—	—
KPS	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—
HL	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—
A/B	○	○	—	—	—	—	○	—	—	—	—	—	—	○	—	—	—	—	—	○	—
Y&G	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
EPS	○	○	—	—	—	—	○	○	—	—	—	—	—	○	—	—	—	—	—	—	○
ECM	○	○	—	—	—	—	○	○	○	—	—	—	—	○	—	—	—	—	—	—	—

LAN01279

When ⑯ is open

	(A)	(B)	(C)																		
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲
			○	○	○	○	○	○	○	○	○	○	○	○	—	○	—	—	○	○	○
VDC	○	○	○	○	○	○	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—
CAM	○	○	○	○	○	—	—	—	—	○	—	—	—	○	—	—	—	—	—	—	—
BIU	○	○	○	○	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—
MET	○	○	○	—	—	—	—	—	—	—	○	—	—	○	—	—	—	—	—	—	—
MFD	○	○	○	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—
A/C	○	○	○	—	—	—	—	—	—	—	—	—	○	○	—	—	—	—	—	—	—
STR	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TCM	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—
RST	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
IMP	○	×	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—
KPS	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—
HL	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—
A/B	○	○	—	—	—	—	○	—	—	—	—	—	—	○	—	—	—	—	—	○	—
Y&G	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
EPS	○	○	—	—	—	—	○	○	—	—	—	—	—	○	—	—	—	—	—	—	○
ECM	○	○	—	—	—	—	○	○	○	—	—	—	—	○	—	—	—	—	—	—	—

LAN01280

Subaru Select Monitor

LAN SYSTEM (DIAGNOSTICS)

When ⑰ is open

	(A)	(B)	(C)																				
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑳	㉑	
			○	○	○	○	○	○	○	○	○	○	○	○	—	○	—	○		○	○	—	○
VDC	○	○	○	○	○	○	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—		
CAM	○	○	○	○	○	—	—	—	—	○	—	—	○	—	—	—	—	—	—	—	—		
BIU	○	○	○	○	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—		
MET	○	○	○	—	—	—	—	—	—	○	—	—	○	—	—	—	—	—	—	—	—		
MFD	○	○	○	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—	—		
A/C	○	○	○	—	—	—	—	—	—	—	—	○	○	—	—	—	—	—	—	—	—		
STR	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
TCM	○	○	—	—	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—		
RST	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
IMP	○	○	—	—	—	—	—	—	—	—	—	—	○	—	—	—	○	—	—	—	—		
KPS	○	×	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—		—	—	—		
HL	○	○	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	○	—	—		
A/B	○	○	—	—	—	—	○	—	—	—	—	—	○	—	—	—	—	—	—	○	—		
Y&G	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
EPS	○	○	—	—	—	—	○	○	—	—	—	—	○	—	—	—	—	—	—	—	○		
ECM	○	○	—	—	—	—	○	○	○	—	—	—	○	—	—	—	—	—	—	—	—		

LAN01281

LAN01281

When ⑱ is open

	(A)	(B)	(C)																			
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑳	㉑
			○	○	○	○	○	○	○	○	○	○	○	○	—	○	—	○	○		○	—
VDC	○	○	○	○	○	○	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—	—
CAM	○	○	○	○	○	—	—	—	○	—	—	—	○	—	—	—	—	—	—	—	—	—
BIU	○	○	○	○	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—	—	—
MET	○	○	○	—	—	—	—	—	—	○	—	—	○	—	—	—	—	—	—	—	—	—
MFD	○	○	○	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—	—	—
A/C	○	○	○	—	—	—	—	—	—	—	—	○	○	—	—	—	—	—	—	—	—	—
STR	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TCM	○	○	—	—	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—
RST	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
IMP	○	○	—	—	—	—	—	—	—	—	—	—	○	—	—	—	○	—	—	—	—	—
KPS	○	○	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—	—	—
HL	○	×	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—		—	—	—
A/B	○	○	—	—	—	—	○	—	—	—	—	—	○	—	—	—	—	—	—	○	—	—
Y&G	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
EPS	○	○	—	—	—	—	○	○	—	—	—	—	○	—	—	—	—	—	—	—	—	○
ECM	○	○	—	—	—	—	○	○	○	—	—	—	○	—	—	—	—	—	—	—	—	—

LAN01282

LAN01282

Subaru Select Monitor

LAN SYSTEM (DIAGNOSTICS)

When ⑰ is open

	(A)	(B)	(C)																		
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲
			○	○	○	○	○	○	○	○	○	○	○	○	—	○	—	○	○	○	—
VDC	○	○	○	○	○	○	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—
CAM	○	○	○	○	○	—	—	—	—	○	—	—	—	○	—	—	—	—	—	—	—
BIU	○	○	○	○	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—
MET	○	○	○	—	—	—	—	—	—	—	○	—	—	○	—	—	—	—	—	—	—
MFD	○	○	○	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—
A/C	○	○	○	—	—	—	—	—	—	—	—	—	○	○	—	—	—	—	—	—	—
STR	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TCM	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—
RST	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
IMP	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	○	—	—	—
KPS	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—
HL	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—
A/B	○	×	—	—	—	—	○	—	—	—	—	—	—	○	—	—	—	—	—	—	—
Y&G	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
EPS	○	○	—	—	—	—	○	○	—	—	—	—	—	○	—	—	—	—	—	—	○
ECM	○	○	—	—	—	—	○	○	○	—	—	—	—	○	—	—	—	—	—	—	—

LAN01283

When ⑳ is open

	(A)	(B)	(C)																		
			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲
			○	○	○	○	○	○	○	○	○	○	○	○	—	○	—	○	○	○	—
VDC	○	○	○	○	○	○	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—
CAM	○	○	○	○	○	—	—	—	—	○	—	—	—	○	—	—	—	—	—	—	—
BIU	○	○	○	○	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	—
MET	○	○	○	—	—	—	—	—	—	—	○	—	—	○	—	—	—	—	—	—	—
MFD	○	○	○	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—	—	—
A/C	○	○	○	—	—	—	—	—	—	—	—	—	○	○	—	—	—	—	—	—	—
STR	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TCM	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	○	—	—	—	—	—
RST	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
IMP	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	○	—	—	—
KPS	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—
HL	○	○	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	○	—	—
A/B	○	○	—	—	—	—	○	—	—	—	—	—	—	○	—	—	—	—	—	○	—
Y&G	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
EPS	○	×	—	—	—	—	○	○	—	—	—	—	—	○	—	—	—	—	—	—	—
ECM	○	○	—	—	—	—	○	○	○	—	—	—	—	○	—	—	—	—	—	—	—

LAN01284

Read Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

7. Read Diagnostic Trouble Code (DTC)

A: OPERATION

For detailed operation procedures, refer to "PC application help for Subaru Select Monitor".

Clear Memory Mode

LAN SYSTEM (DIAGNOSTICS)

8. Clear Memory Mode

A: OPERATION

For detailed operation procedures, refer to “PC application help for Subaru Select Monitor”.

9. CAN Communication Circuit Check

A: PROCEDURE

NOTE:

- When measuring the resistance of CAN communication circuit, measure it in sleep status.

To enter sleep status

- With ignition switch OFF and key or switch operation stopped, keep the doors, trunk, and rear gate all closed for one minute or more.
- On models with keyless access function, keep the access key 2 m or more away from the vehicle.
- When the bus line is measured, combined resistance of the end resistance (120 Ω) in ECM and the end resistance (120 Ω) in VDC CM can be measured. The combined resistance is supposed to be approximately 53 — 61 Ω with the stabilizing circuit included. If the measured resistance value becomes 52 Ω or less, main wiring harness or related lines may be shorted. Or, the combined resistance may have changed because of a resistance other than the end resistance created on the circuit. If the measured value is 62 Ω or more, there may be a malfunction such as open circuit in one of the end resistances, or in the stabilizing circuit, or in the main wiring harness.

Also, even when the resistance value falls within approx. 53 — 61 Ω , related lines may be open if an error of communication for initializing or a CAN system U-code has occurred. (The resistance won't be between approx. 53 — 61 Ω if the main wiring harness is open.)

WIRING DIAGRAM:

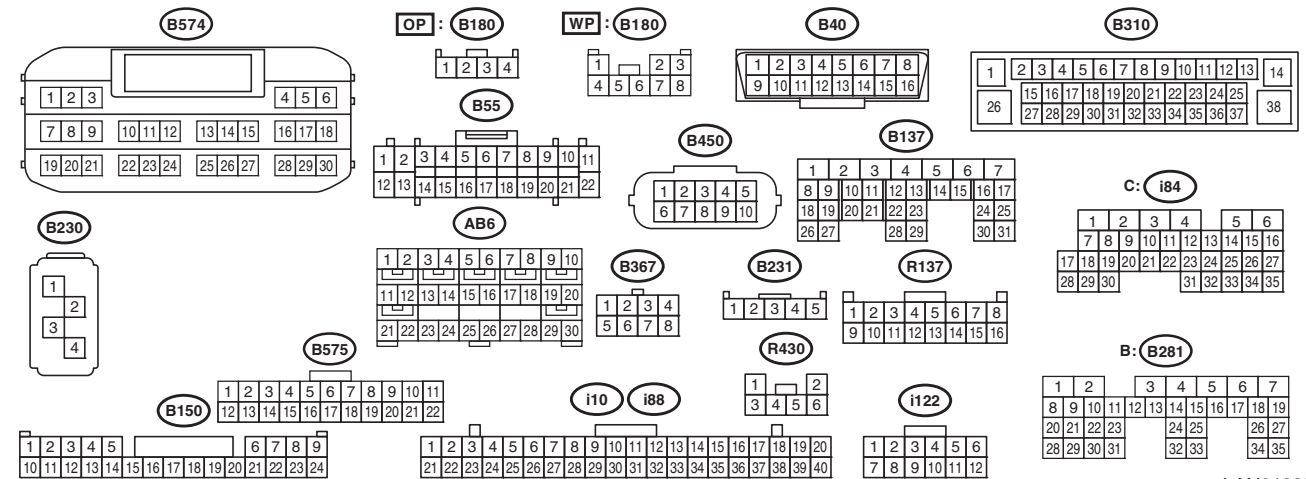
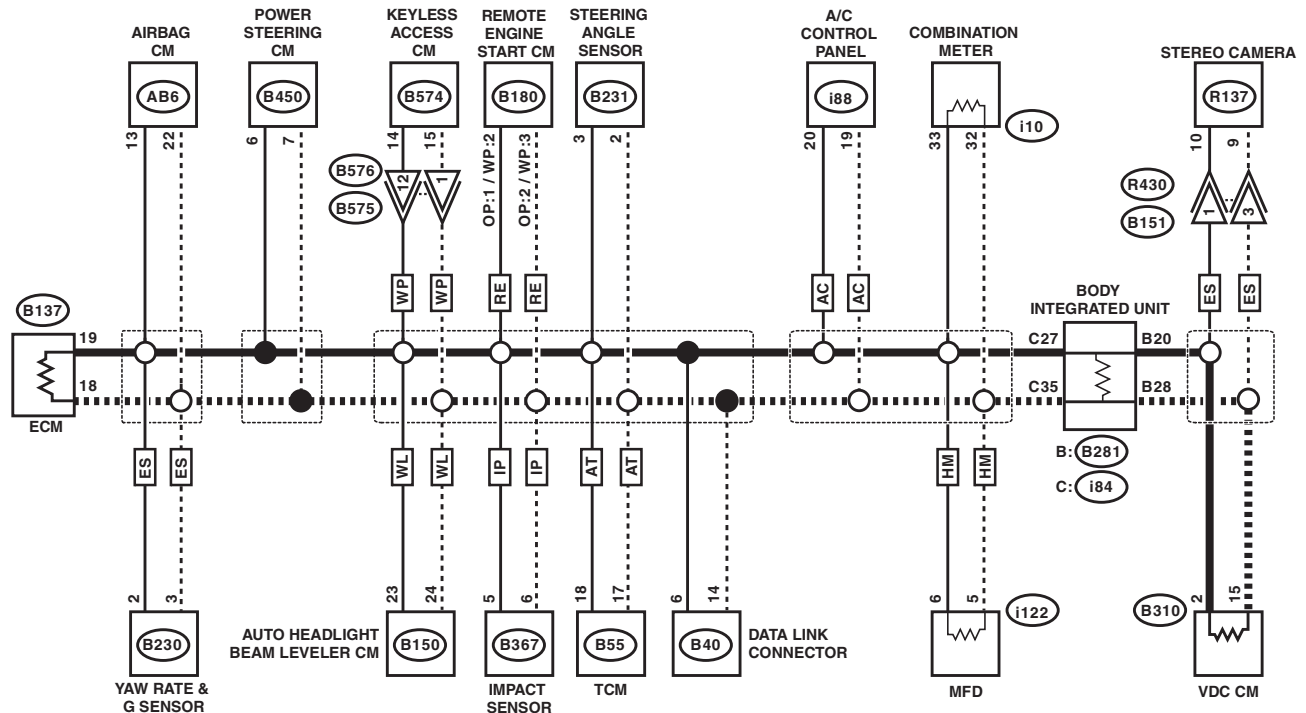
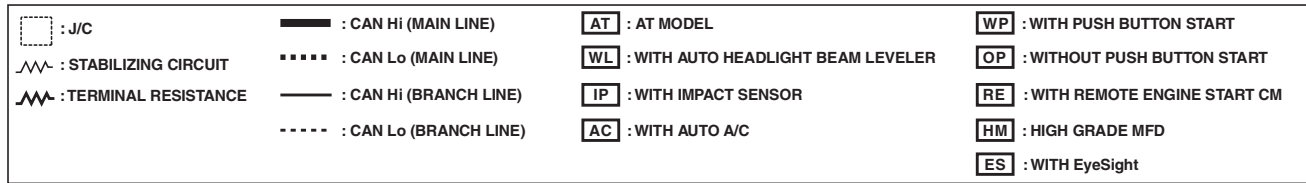
CAN communication system <Ref. to WI-96, WIRING DIAGRAM, CAN Communication System.>



CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

• Non-turbo model

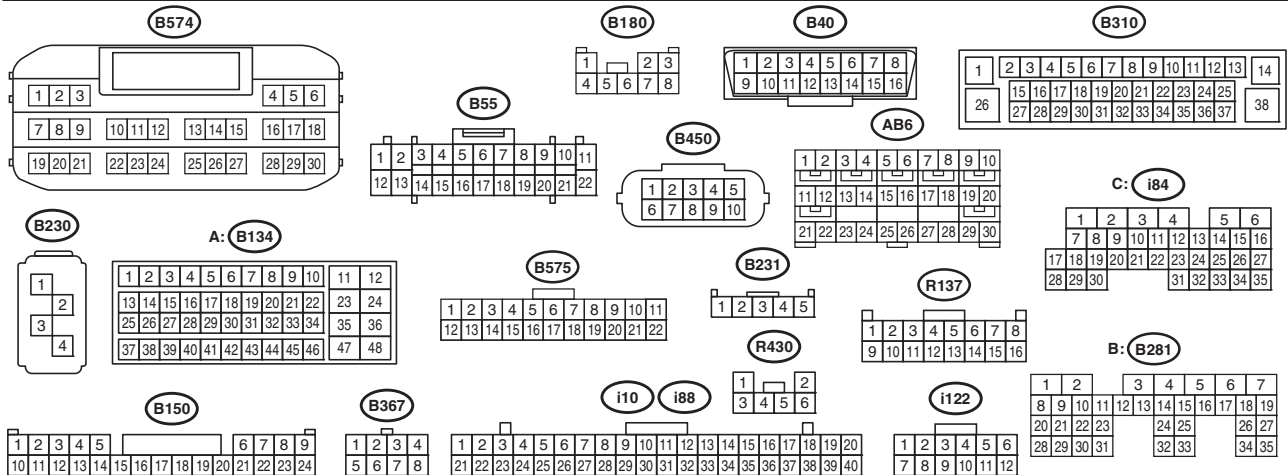
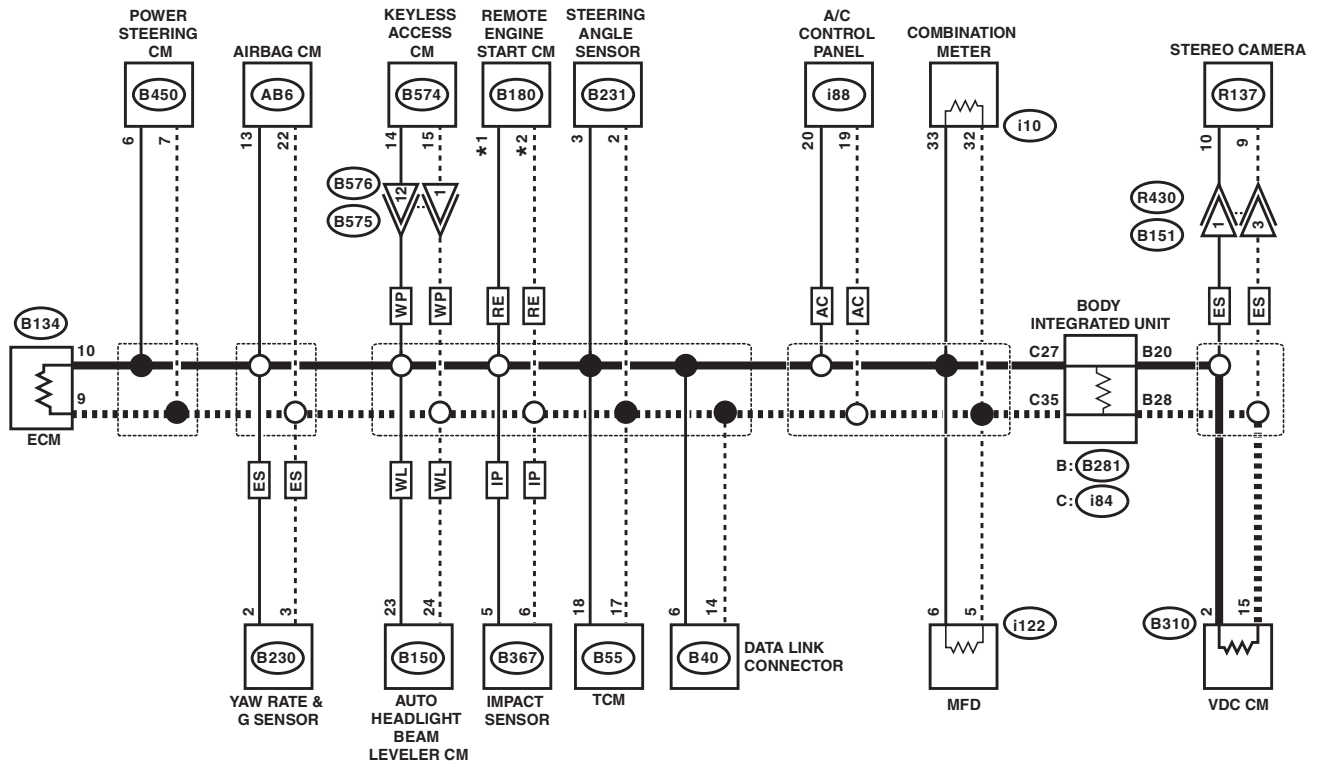
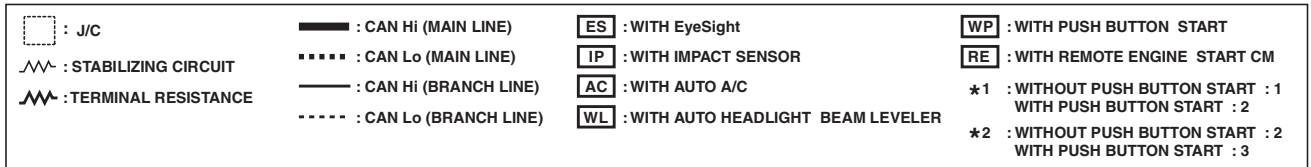


LAN01285

CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

• Turbo model



LAN01286

CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No	
1	CHECK BASIC DIAGNOSTIC PROCEDURE. Check if the basic diagnostic procedure was performed up to STEP 3. NOTE: The above-mentioned step can easily narrow down a fault part by the inspection with SSM, before performing “Inspection of CAN communication circuit” using a circuit tester.	Was the basic diagnostic procedure performed?	Go to step 2.	Perform the basic diagnostic procedure. <Ref. to LAN(diag)-2, PROCEDURE, Basic Diagnostic Procedure.>
2	CHECK FROM DATA LINK CONNECTOR. Using the tester, measure the resistance between terminals. Connector & terminal (B40) No. 6 — Chassis ground: (B40) No. 14 — Chassis ground:	Is the resistance 10 Ω or less?	Check for ground short. <Ref. to LAN(diag)-44, GROUND SHORT INSPECTION, INSPECTION, CAN Communication Circuit Check.>	Go to step 3.
3	CHECK FROM DATA LINK CONNECTOR. 1) Turn the ignition switch to ON. 2) Using the tester, measure the voltage between terminals. Connector & terminal (B40) No. 6 — Chassis ground: (B40) No. 14 — Chassis ground:	Is the voltage 5 V or less?	Go to step 4.	Check for battery short. <Ref. to LAN(diag)-47, BATTERY SHORT INSPECTION, INSPECTION, CAN Communication Circuit Check.>
4	CHECK FROM DATA LINK CONNECTOR. 1) Turn the ignition switch to OFF. 2) Using the tester, measure the resistance between terminals. Connector & terminal (B40) No. 6 — No. 14:	Is the resistance 52 Ω or less?	Perform the inspection for the resistance of 52 Ω or less. <Ref. to LAN(diag)-53, 52 Ω OR LESS, INSPECTION, CAN Communication Circuit Check.>	Go to step 5.
5	CHECK FROM DATA LINK CONNECTOR. Using the tester, measure the resistance between terminals. Connector & terminal (B40) No. 6 — No. 14:	Is the resistance 62 Ω or more?	Perform the inspection for the resistance of 62 Ω or more. <Ref. to LAN(diag)-57, 62 Ω OR MORE, INSPECTION, CAN Communication Circuit Check.>	If the display of CAN system U-code disappears from the current malfunction, the CAN network is currently normal. If the U-code has detected as current malfunction, related lines may be open. Perform the inspection for the related line corresponding to the detected DTC. <Ref. to LAN(diag)-43, LIST, CAN Communication Circuit Check.>

CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

B: LIST

Resistance value between CAN Hi and Lo	Contents of inspection	Remarks
Ground short inspection	<Ref. to LAN(diag)-44, GROUND SHORT INSPECTION, INSPECTION, CAN Communication Circuit Check.>	Shorted to ground in the communication circuit or control module.
Battery short inspection	<Ref. to LAN(diag)-47, BATTERY SHORT INSPECTION, INSPECTION, CAN Communication Circuit Check.>	Shorted to battery power supply in the communication circuit or control module.
53 — 61 Ω	<Ref. to LAN(diag)-50, 53 — 61 Ω, INSPECTION, CAN Communication Circuit Check.>	Combined resistance of end resistance does not have malfunction; short to ground or +B short of the CAN communication circuit is possible, however.
52 Ω or less	<Ref. to LAN(diag)-53, 52 Ω OR LESS, INSPECTION, CAN Communication Circuit Check.>	Resistance is lower than combined resistance of end resistance. Short to CAN Hi and CAN Lo on the CAN communication circuit is possible.
62 Ω or more	<Ref. to LAN(diag)-57, 62 Ω OR MORE, INSPECTION, CAN Communication Circuit Check.>	Resistance is higher than combined resistance of end resistance. Open circuit of CAN communication circuit is possible.
Related lines 53 — 61 Ω (TCM)	<Ref. to LAN(diag)-60, RELATED LINES 53 — 61 Ω (TCM), INSPECTION, CAN Communication Circuit Check.>	No TCM data is received. Perform inspection when faulty is detected.
Related lines 53 — 61 Ω (steering angle sensor)	<Ref. to LAN(diag)-63, RELATED LINES 53 — 61 Ω (STEERING ANGLE SENSOR), INSPECTION, CAN Communication Circuit Check.>	No steering angle sensor data is received. Perform inspection when faulty is detected.
Related line 53 — 61 Ω (A/C control panel)	<Ref. to LAN(diag)-66, RELATED LINE 53 — 61 Ω (A/C CONTROL PANEL), INSPECTION, CAN Communication Circuit Check.>	No A/C data is received. Perform inspection when faulty is detected.
Related lines 53 — 61 Ω (electric power steering CM)	<Ref. to LAN(diag)-69, RELATED LINES 53 — 61 Ω (ELECTRIC POWER STEERING CM), INSPECTION, CAN Communication Circuit Check.>	No electric power steering data is received. Perform inspection when faulty is detected.
Related lines 53 — 61 Ω (combination meter)	<Ref. to LAN(diag)-72, RELATED LINES 53 — 61 Ω (COMBINATION METER), INSPECTION, CAN Communication Circuit Check.>	No meter data is received. Perform inspection when faulty is detected.
Related lines 53 — 61 Ω (MFD)	<Ref. to LAN(diag)-75, RELATED LINES 53 — 61 Ω (MFD), INSPECTION, CAN Communication Circuit Check.>	No MFD data is received. Perform inspection when faulty is detected.
Related lines 53 — 61 Ω (A/B CM)	<Ref. to LAN(diag)-78, RELATED LINES 53 — 61 Ω (A/B CM), INSPECTION, CAN Communication Circuit Check.>	No airbag data is received. Perform inspection when faulty is detected.
Related lines 53 — 61 Ω (keyless access system)	<Ref. to LAN(diag)-81, RELATED LINES 53 — 61 Ω (KEYLESS ACCESS SYSTEM), INSPECTION, CAN Communication Circuit Check.>	No keyless access CM data is received. Perform inspection when faulty is detected.
Related line 53 — 61 Ω (stereo camera)	<Ref. to LAN(diag)-84, RELATED LINE 53 — 61 Ω (STEREO CAMERA), INSPECTION, CAN Communication Circuit Check.>	No stereo camera data is received. Perform inspection when faulty is detected.
Related lines 53 — 61 Ω (remote engine starter)	<Ref. to LAN(diag)-87, RELATED LINES 53 — 61 Ω (REMOTE ENGINE STARTER), INSPECTION, CAN Communication Circuit Check.>	Perform inspection when the remote engine starter does not operate, while the mobile key side operates normally.
Related line 53 — 61 Ω (headlight beam leveler)	<Ref. to LAN(diag)-90, RELATED LINES 53 — 61 Ω (HEADLIGHT BEAM LEVELER), INSPECTION, CAN Communication Circuit Check.>	No headlight beam leveler data is received. Perform inspection when faulty is detected.
Related lines 53 — 61 Ω (impact sensor system)	<Ref. to LAN(diag)-93, RELATED LINES 53 — 61 Ω (IMPACT SENSOR SYSTEM), INSPECTION, CAN Communication Circuit Check.>	No impact sensor data is received. Perform inspection when faulty is detected.
Related line 53 — 61 Ω (yaw rate & G sensor)	<Ref. to LAN(diag)-96, RELATED LINE 53 — 61 Ω (YAW RATE & G SENSOR), INSPECTION, CAN Communication Circuit Check.>	No yaw rate & G sensor data is received. Perform inspection when faulty is detected.

LAN(diag)-43



CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

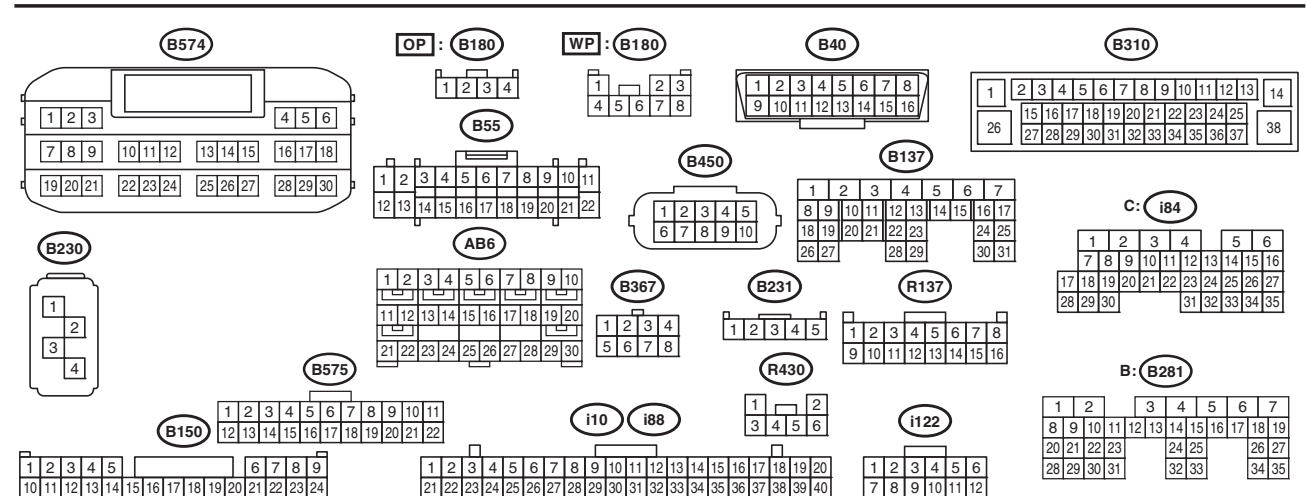
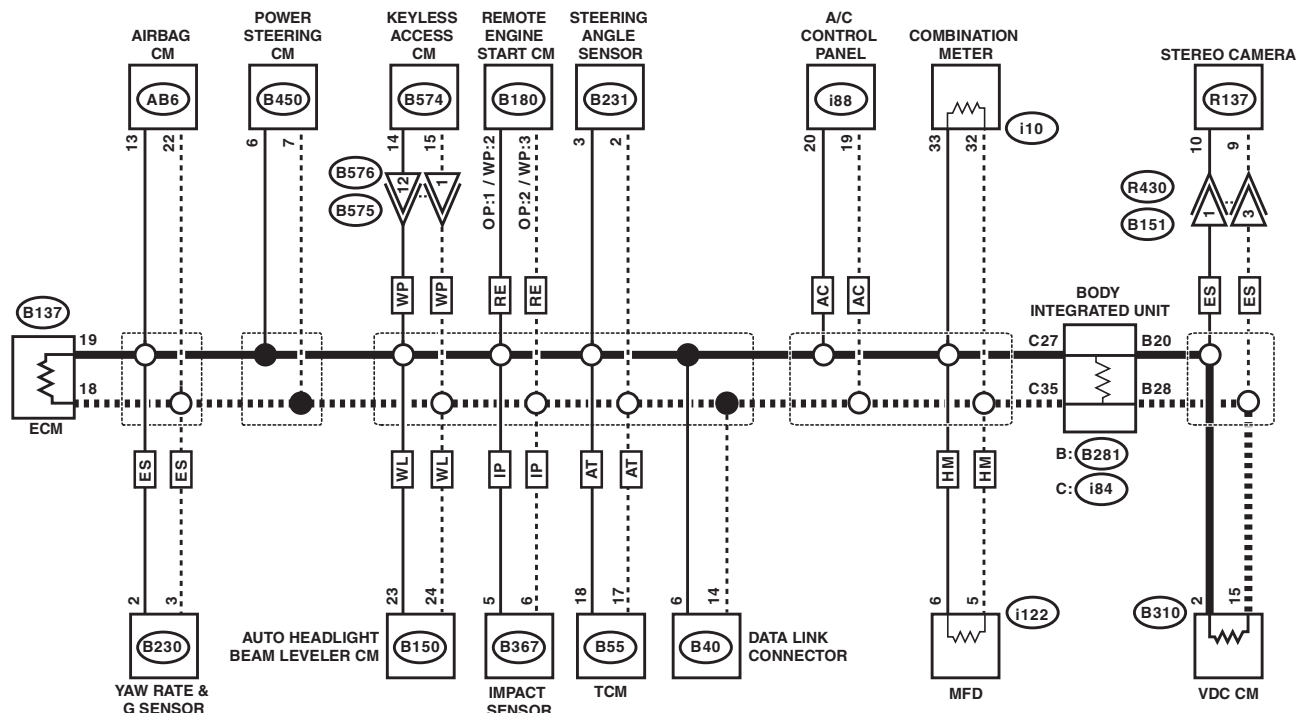
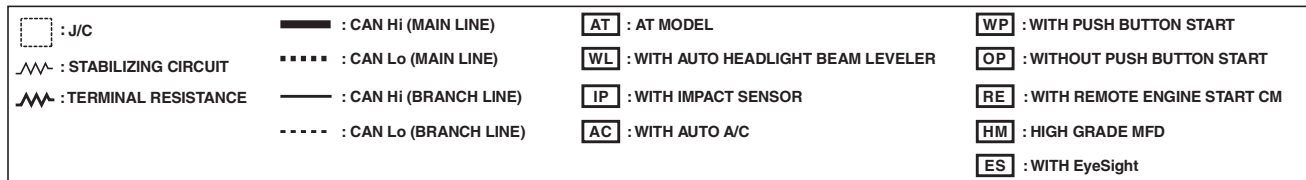
C: INSPECTION

1. GROUND SHORT INSPECTION

WIRING DIAGRAM:

CAN communication system <Ref. to WI-96, WIRING DIAGRAM, CAN Communication System.>

- Non-turbo model

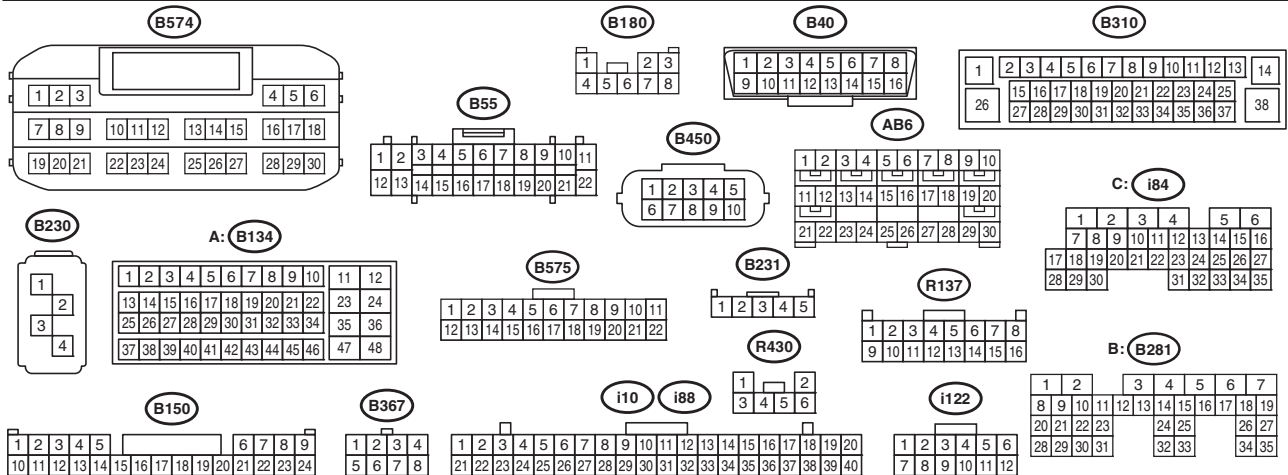
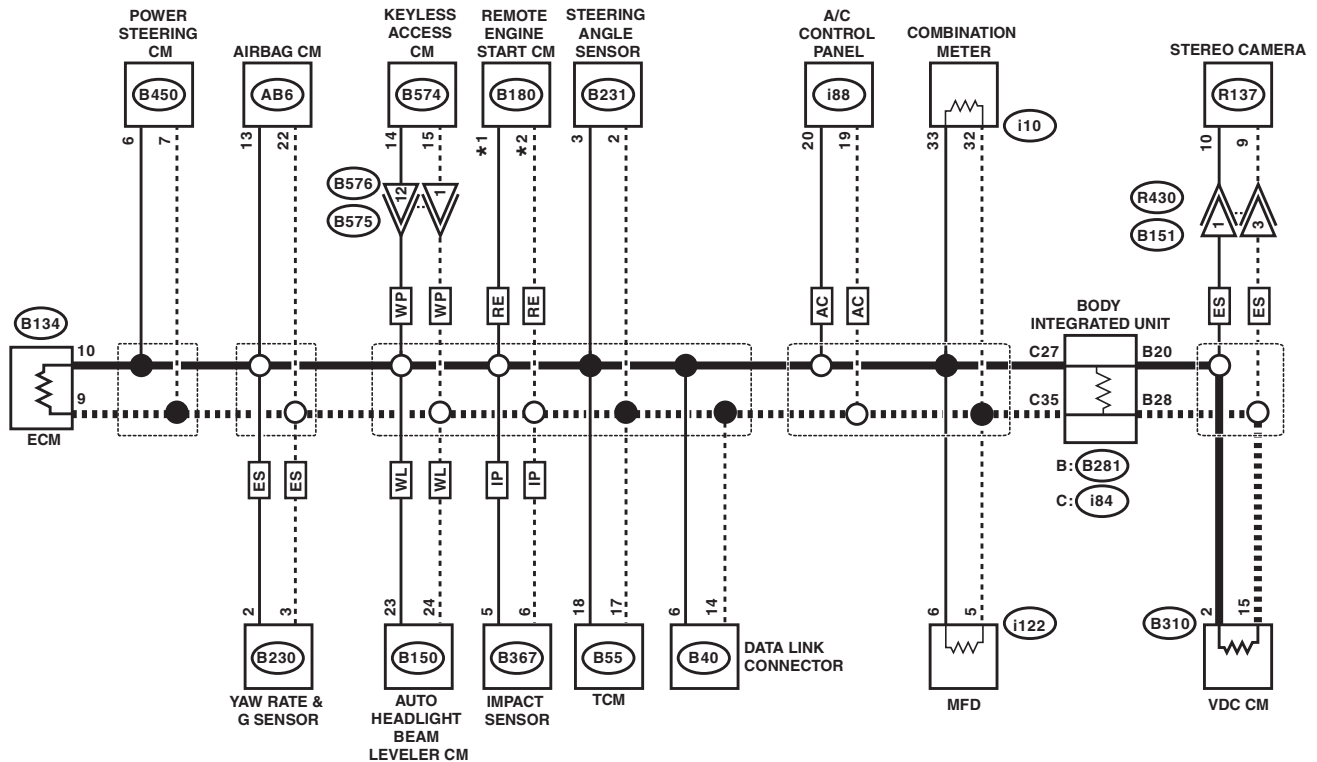
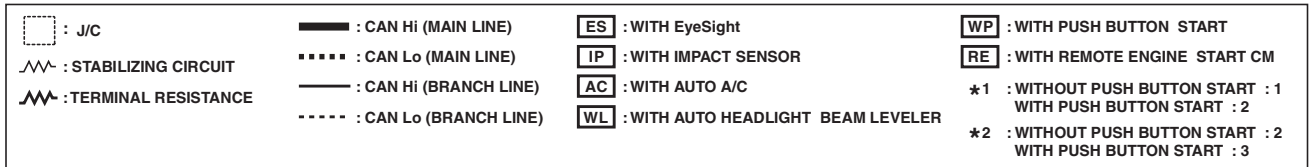


LAN01285

CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

• Turbo model



LAN01286

NOTE:

Main wiring harness or related lines may be shorted to ground, or shorted to ground in one of the control modules.

CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK BETWEEN RELATED LINES AND MAIN WIRING HARNESS. Using the tester, measure the resistance between terminals. <i>Connector & terminal</i> <i>(B40) No. 6 — Chassis ground:</i> <i>(B40) No. 14 — Chassis ground:</i>	Is the resistance 10 Ω or less?	Go to step 2.	Currently, it is normal.
2 CHECK CONTROL MODULE. With the tester connected, disconnect control module. NOTE: Disconnect the body integrated unit at the end. <i>Connector & terminal</i> <i>(B40) No. 6 — Chassis ground:</i> <i>(B40) No. 14 — Chassis ground:</i>	Did the resistance change to 10 Ω or more?	Replace the control module whose resistance has changed. When the value changed at disconnecting the body integrated unit, Go to step 3.	Repair or replace the short circuit of the main wiring harness and related lines between body integrated unit and ECM.
3 CHECK BETWEEN MAIN WIRING HARNESES. Using the tester, measure the resistance between terminals. <i>Connector & terminal</i> <i>(B281) No. 20 — Chassis ground:</i> <i>(B281) No. 28 — Chassis ground:</i>	Is the resistance 10 Ω or less?	Repair or replace the short circuit of the main wiring harness and related lines between VDC CM and body integrated unit.	Replace the body integrated unit. <Ref. to SL-74, REMOVAL, Body Integrated Unit.>

CAN Communication Circuit Check

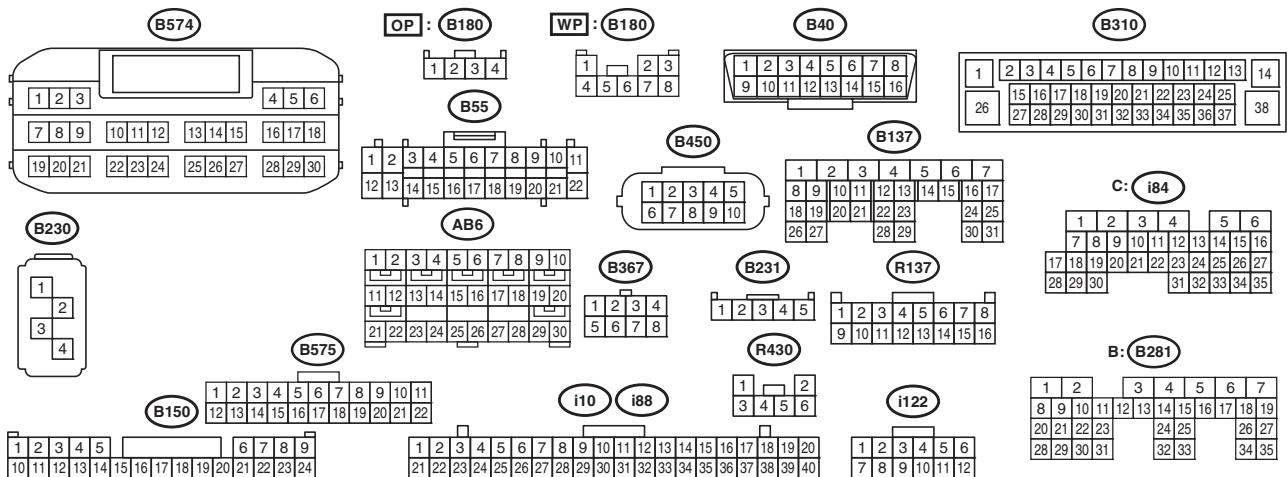
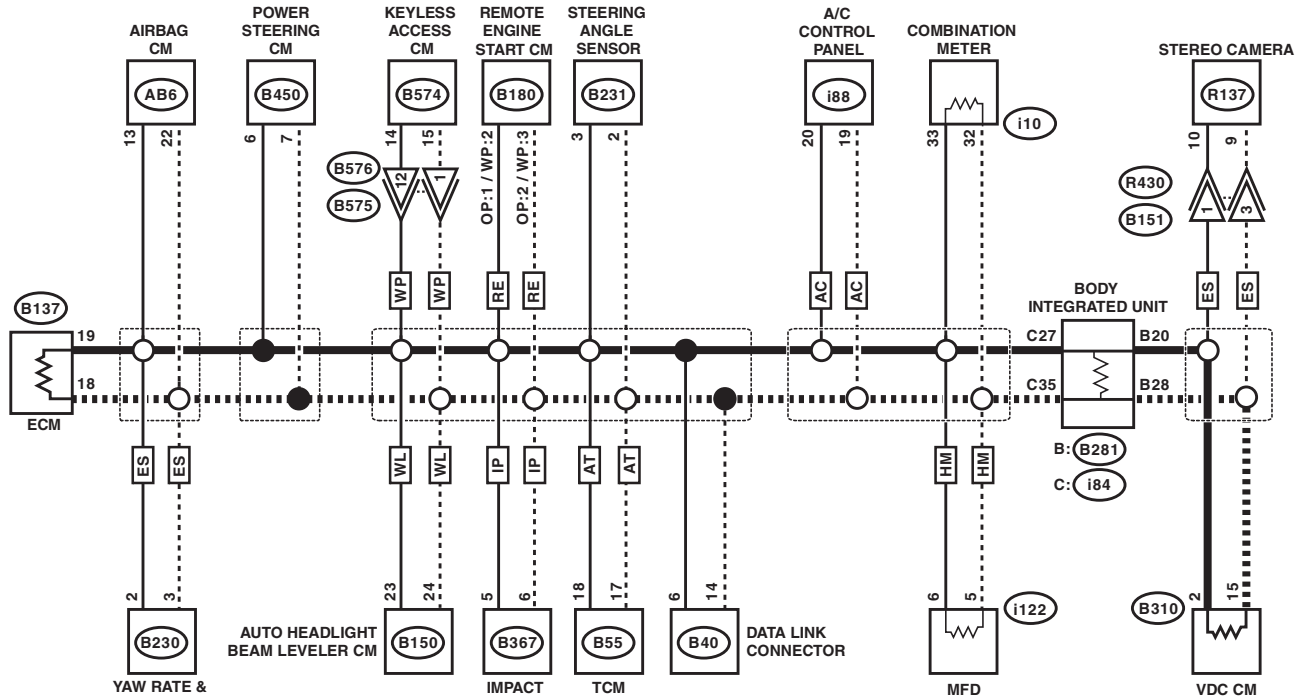
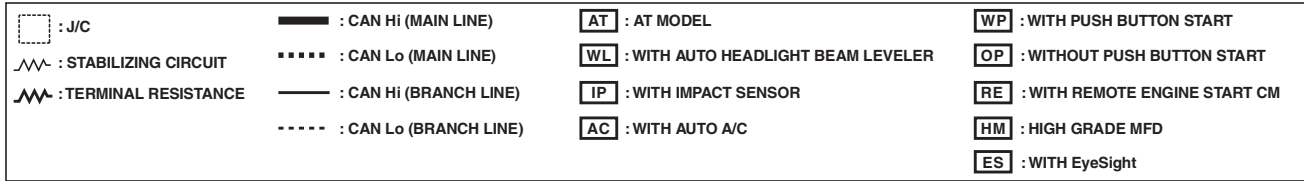
LAN SYSTEM (DIAGNOSTICS)

2. BATTERY SHORT INSPECTION

WIRING DIAGRAM:

CAN communication system <Ref. to WI-96, WIRING DIAGRAM, CAN Communication System.>

- Non-turbo model

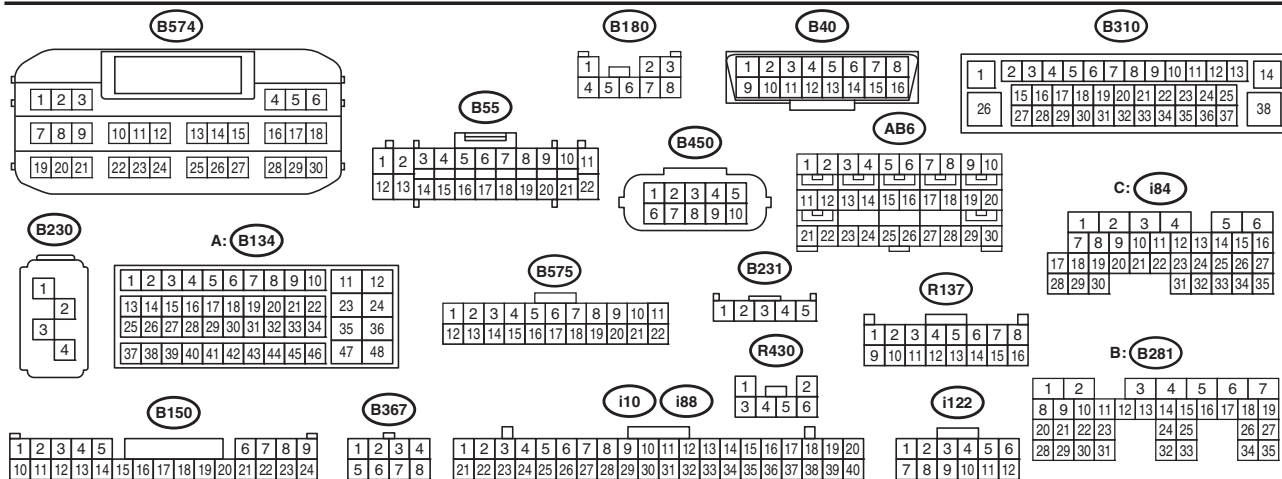
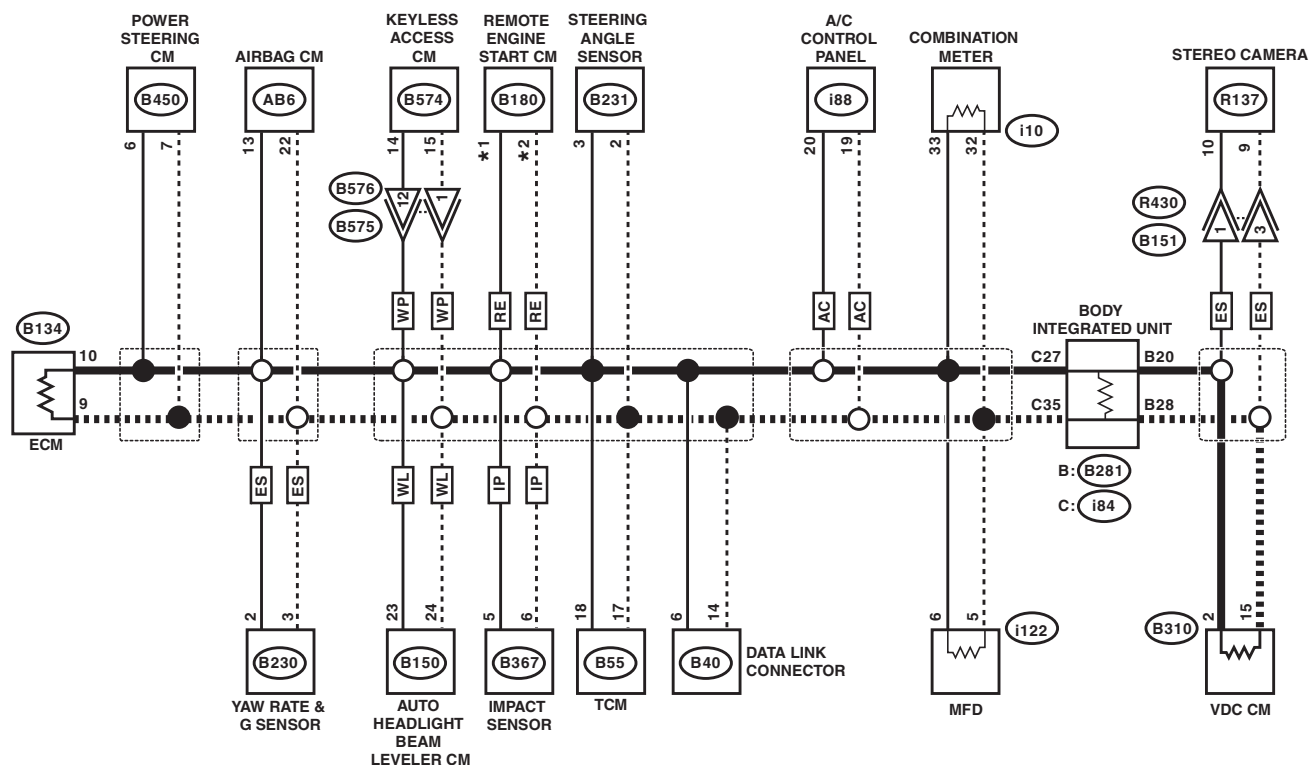
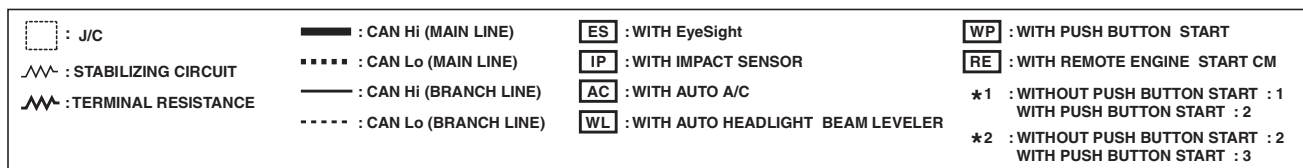


LAN01285

CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

- Turbo model



LAN01286

NOTE:

Main wiring harness or related lines may be shorted to battery circuit, or shorted to battery circuit in one of the control modules.

CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK BETWEEN RELATED LINES AND MAIN WIRING HARNESS. 1) Turn the ignition switch to ON. 2) Using the tester, measure the voltage between terminals. <i>Connector & terminal</i> <i>(B40) No. 6 — Chassis ground:</i> <i>(B40) No. 14 — Chassis ground:</i>	Is the voltage 5 V or less?	Currently, it is normal.	Go to step 2.
2 CHECK CONTROL MODULE. With the tester connected, disconnect control module. NOTE: Disconnect the body integrated unit at the end. <i>Connector & terminal</i> <i>(B40) No. 6 — Chassis ground:</i> <i>(B40) No. 14 — Chassis ground:</i>	Did the voltage change to 5 V or less?	Replace the control module whose voltage has changed. When the value changed at disconnecting the body integrated unit, Go to step 3.	Repair or replace the short circuit of the harness between body integrated unit and ECM.
3 CHECK BETWEEN MAIN WIRING HARNESSES. Using the tester, measure the voltage between terminals. <i>Connector & terminal</i> <i>(B281) No. 20 — Chassis ground:</i> <i>(B281) No. 28 — Chassis ground:</i>	Is the voltage 5 V or less?	Replace the body integrated unit. <Ref. to SL-74, REMOVAL, Body Integrated Unit.>	Repair or replace the short circuit of the harness between VDC CM and body integrated unit.



CAN Communication Circuit Check

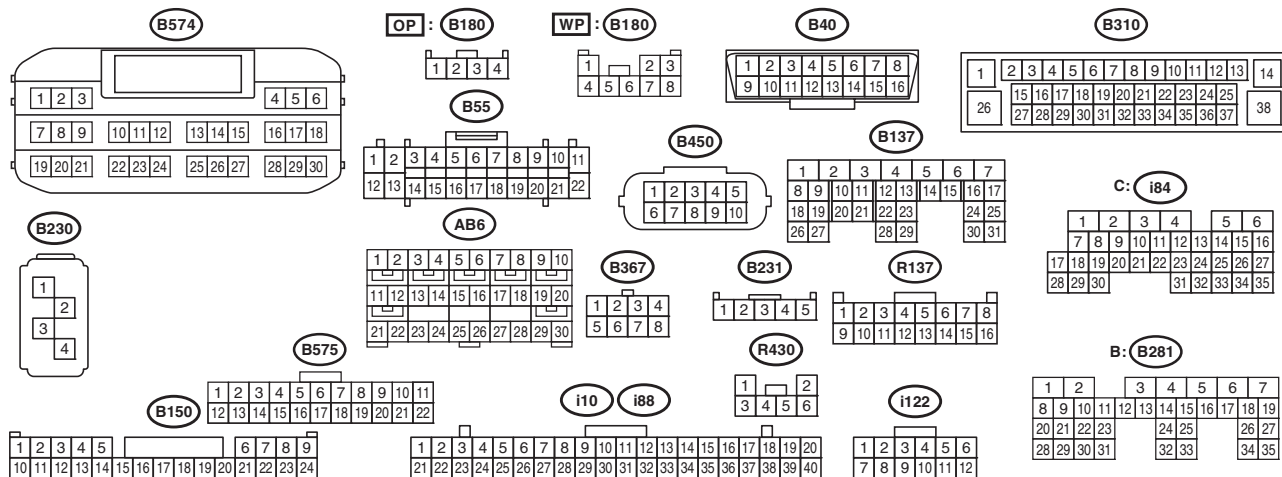
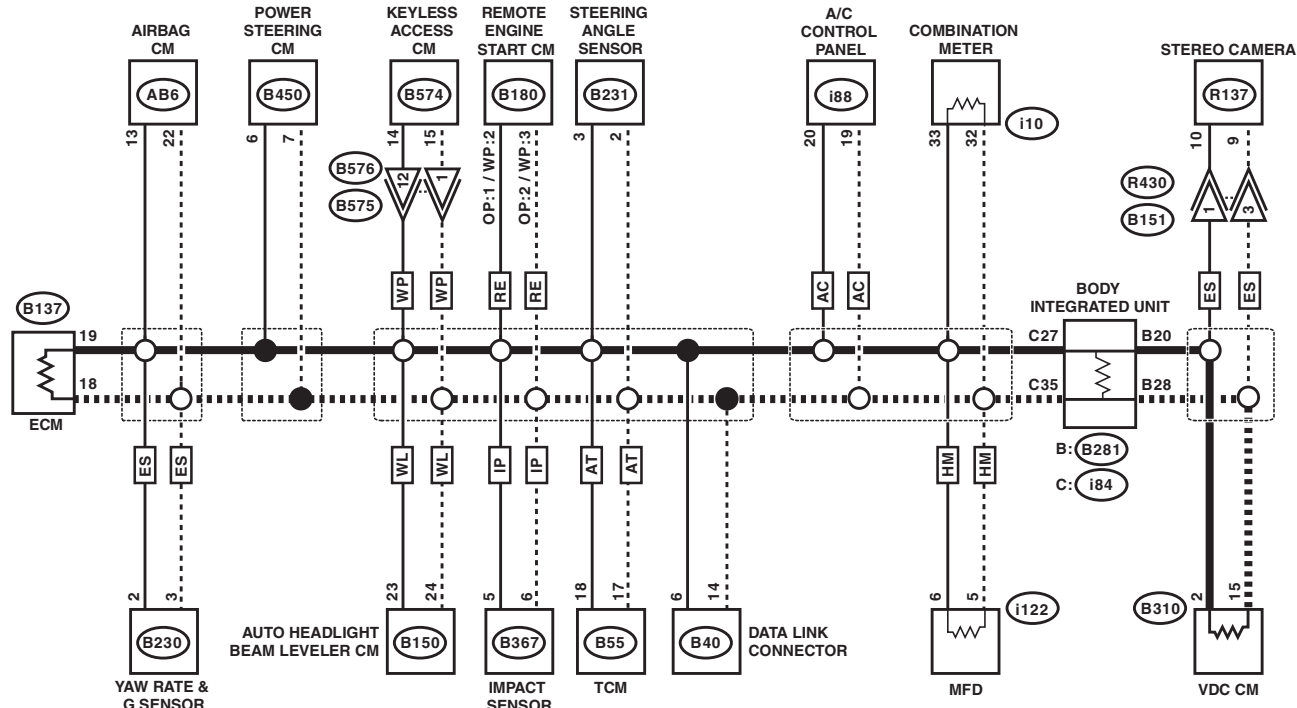
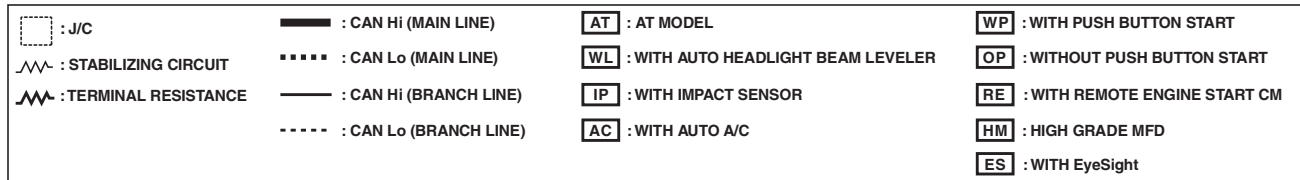
LAN SYSTEM (DIAGNOSTICS)

3. 53 — 61 Ω

WIRING DIAGRAM:

CAN communication system <Ref. to WI-96, WIRING DIAGRAM, CAN Communication System.>

- Non-turbo model

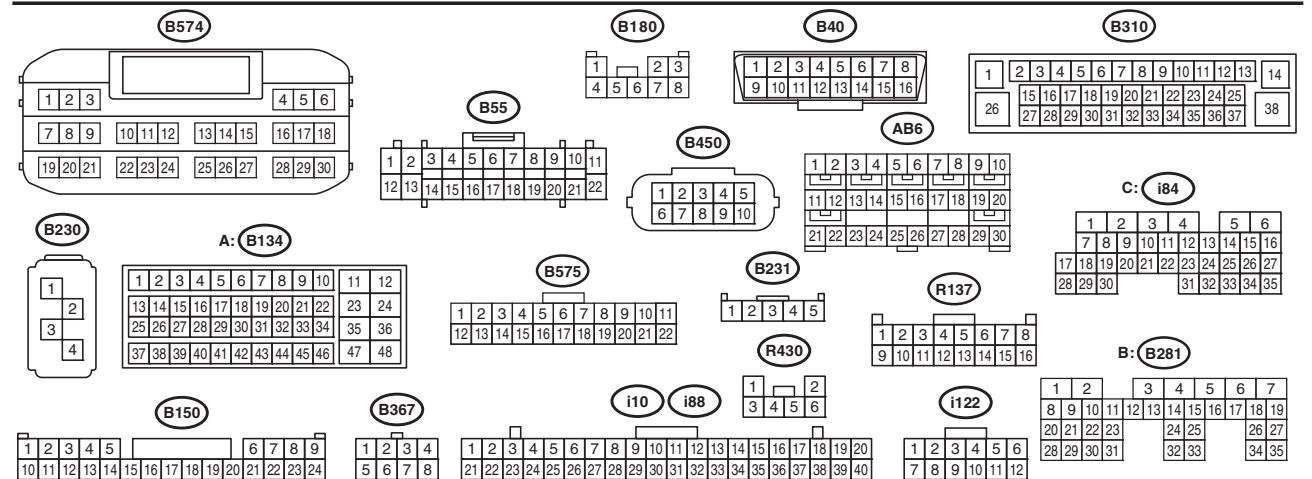
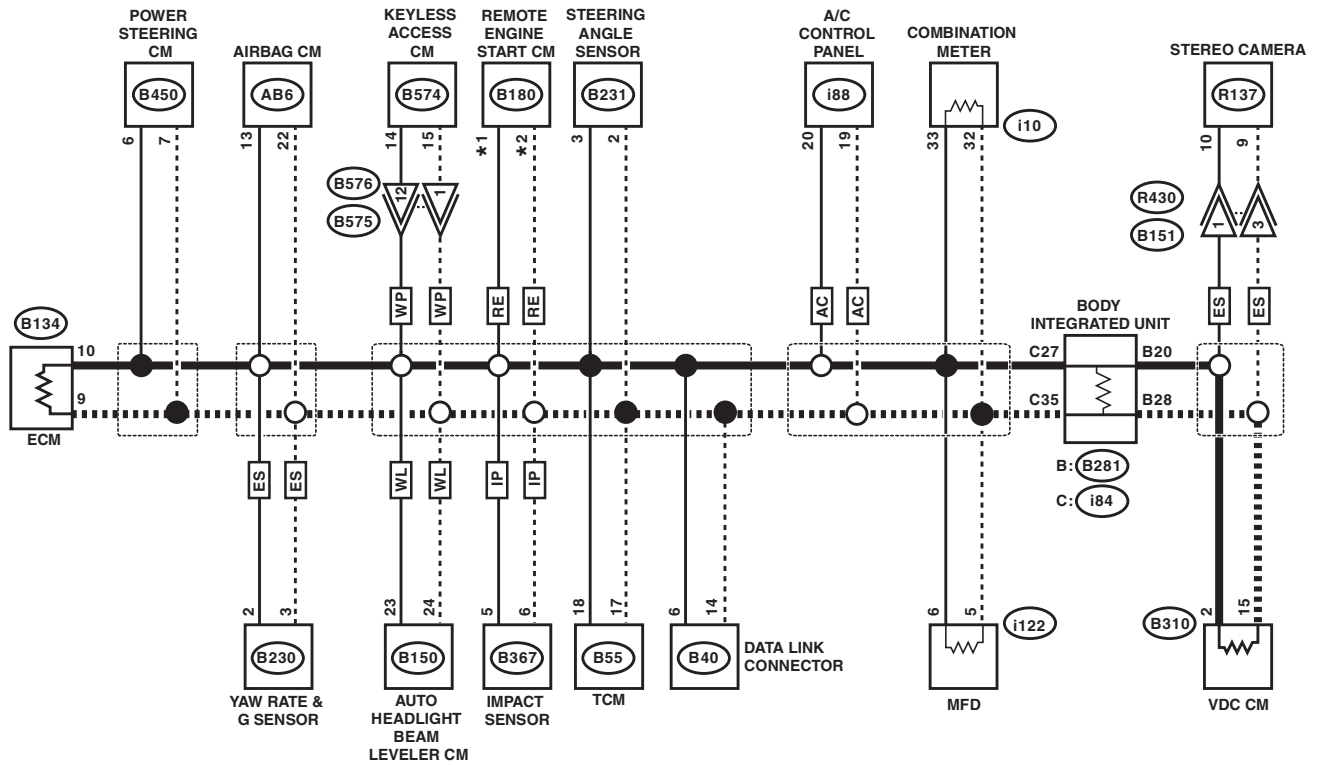
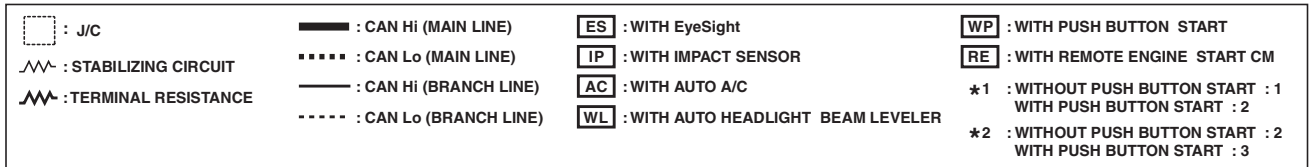


LAN01285

CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

• Turbo model



LAN01286

NOTE:

When the measured resistance value is 53 — 61 Ω , main wiring harness or related lines may be shorted to ground, or shorted to power supply line, or related line may be open.

CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK BETWEEN RELATED LINES AND MAIN WIRING HARNESS. Using the tester, measure the resistance between terminals. <i>Connector & terminal</i> <i>(B40) No. 6 — Chassis ground:</i> <i>(B40) No. 14 — Chassis ground:</i>	Is the resistance 10 Ω or less?	Go to step 2.	Go to step 4.
2 CHECK CONTROL MODULE. With the tester connected, disconnect control module. NOTE: Disconnect the body integrated unit at the end. <i>Connector & terminal</i> <i>(B40) No. 6 — Chassis ground:</i> <i>(B40) No. 14 — Chassis ground:</i>	Did the resistance change to 10 Ω or more?	Replace the control module whose resistance has changed. When the value changed at disconnecting the body integrated unit, Go to step 3.	Repair or replace the short circuit of the harness between body integrated unit and ECM.
3 CHECK MAIN WIRING HARNESS AND RELATED LINES. Using the tester, measure the resistance between terminals. <i>Connector & terminal</i> <i>(B281) No. 20 — Chassis ground:</i> <i>(B281) No. 28 — Chassis ground:</i>	Is the resistance 10 Ω or less?	Repair or replace the short circuit of the harness between VDC CM and body integrated unit.	Replace the body integrated unit. <Ref. to SL-74, REMOVAL, Body Integrated Unit.>
4 CHECK BETWEEN RELATED LINES AND MAIN WIRING HARNESS. 1) Turn the ignition switch to ON. 2) Using the tester, measure the voltage between terminals. <i>Connector & terminal</i> <i>(B40) No. 6 — Chassis ground:</i> <i>(B40) No. 14 — Chassis ground:</i>	Is the voltage 5 V or less?	CAN communication circuit is normal.	Go to step 5.
5 CHECK CONTROL MODULE. With the tester connected, disconnect control module. NOTE: Disconnect the body integrated unit at the end. <i>Connector & terminal</i> <i>(B40) No. 6 — Chassis ground:</i> <i>(B40) No. 14 — Chassis ground:</i>	Did the voltage change to 5 V or less?	Replace the control module whose voltage has changed. When the value changed at disconnecting the body integrated unit, Go to step 6.	Repair or replace the short circuit of the harness between body integrated unit and ECM.
6 CHECK HARNESS. Using a tester, measure the voltage between terminals and chassis ground. <i>Connector & terminal</i> <i>(B281) No. 20 — Chassis ground:</i> <i>(B281) No. 28 — Chassis ground:</i>	Is the voltage 5 V or less?	Replace the body integrated unit. <Ref. to SL-74, REMOVAL, Body Integrated Unit.>	Repair or replace the short circuit of the harness between VDC CM and body integrated unit.

CAN Communication Circuit Check

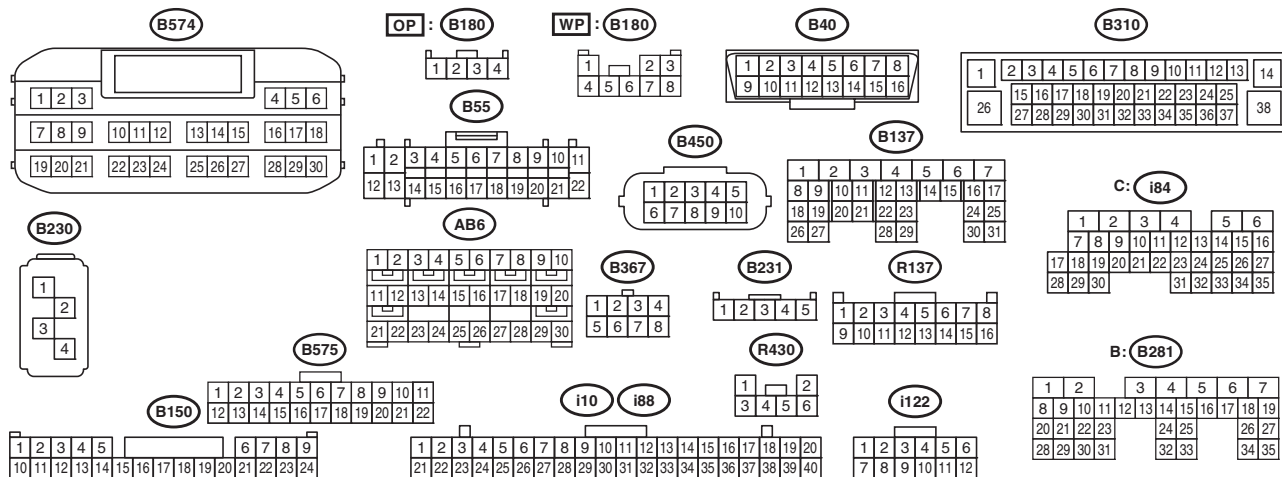
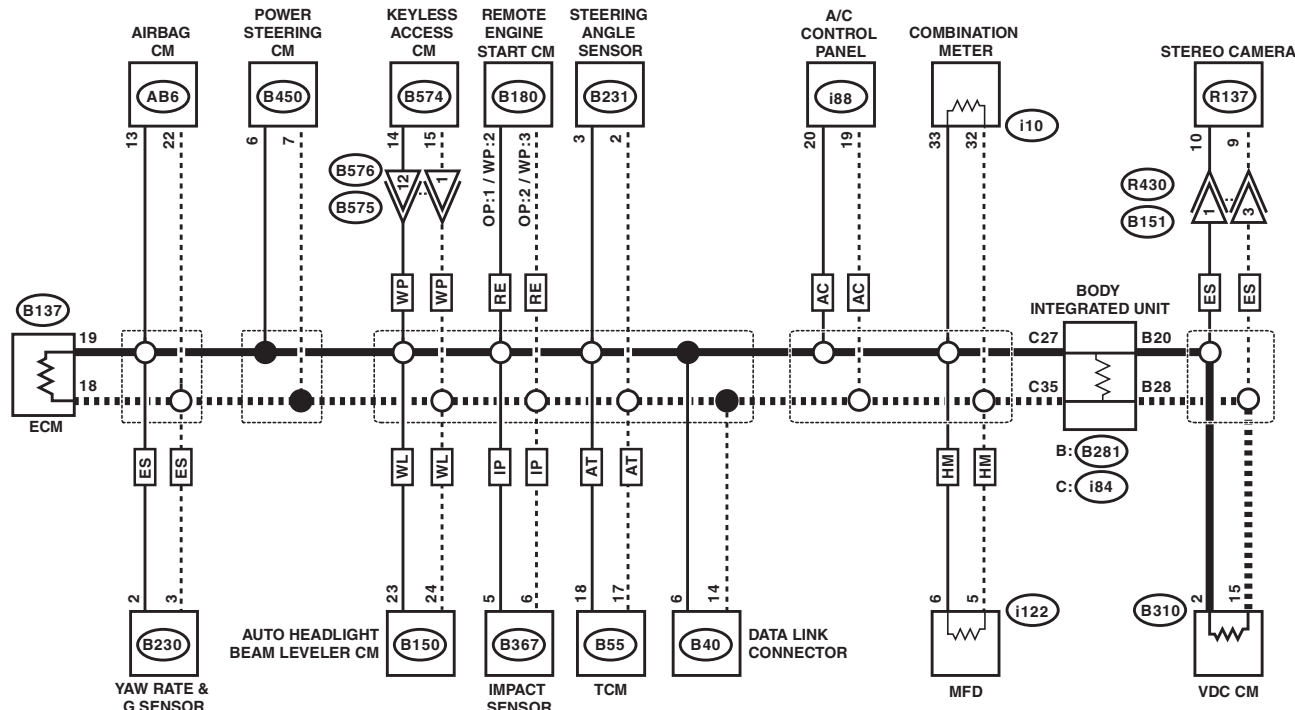
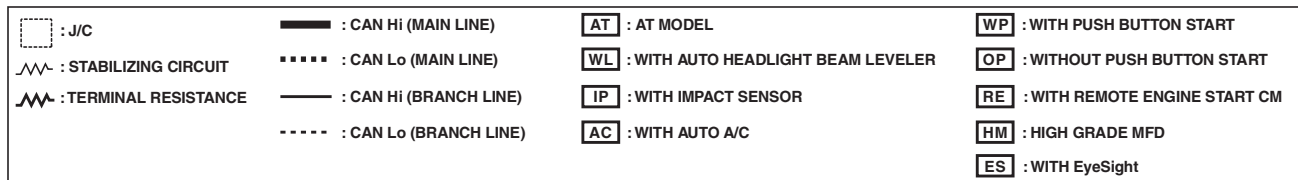
LAN SYSTEM (DIAGNOSTICS)

4. 52 Ω OR LESS

WIRING DIAGRAM:

CAN communication system <Ref. to WI-96, WIRING DIAGRAM, CAN Communication System.>

- Non-turbo model

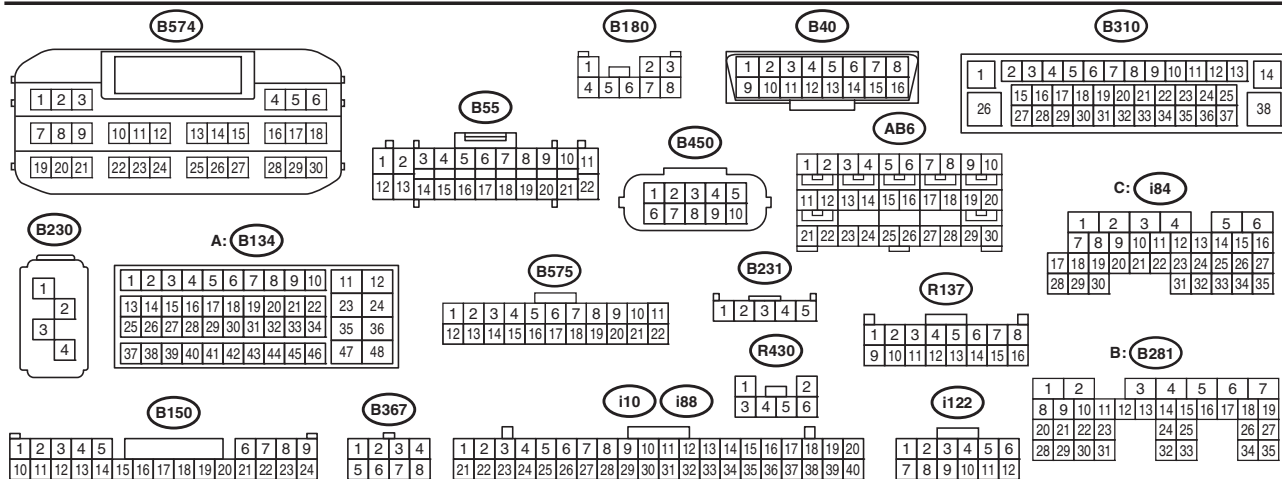
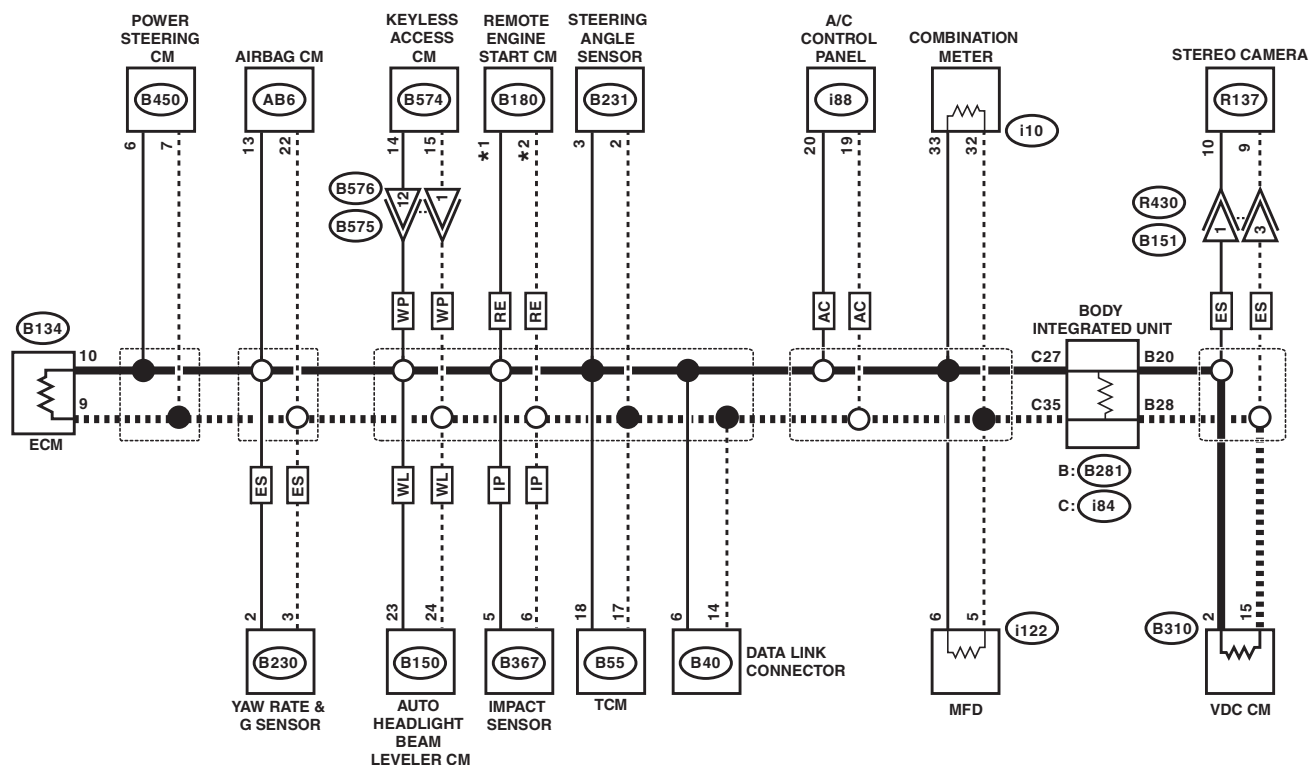
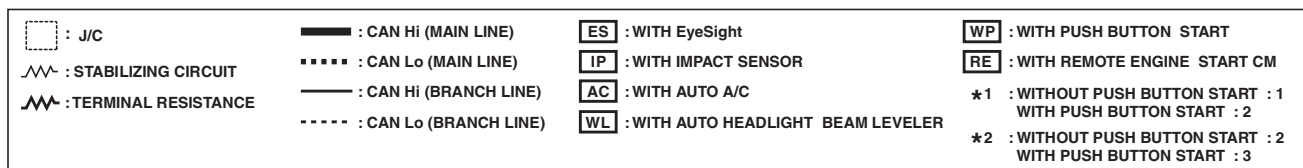


LAN01285

CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

• Turbo model



LAN01286

NOTE:

When the bus line is measured, combined resistance of end resistance (120 Ω) in ECM and end resistance (120 Ω) in VDC CM can be measured. The combined resistance is approximately 53 — 61 Ω with the stabilizing circuit included. When the measured resistance value is 52 Ω or less, main wiring harness or related lines may be shorted, or combined resistance may have changed because resistance other than end resistance is created on the circuit.

CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK BETWEEN RELATED LINES AND MAIN WIRING HARNESS. Using the tester, measure the resistance between terminals. <i>Connector & terminal (B40) No. 6 — No. 14:</i>	Is the resistance 10 Ω or less?	Go to step 2.	Go to step 4.
2 CHECK MAIN WIRING HARNESS AND RELATED LINES. With a tester connected, disconnect control module connectors in order. NOTE: Disconnect the body integrated unit at the end. <i>Connector & terminal (B40) No. 6 — No. 14:</i>	Is there any control module whose condition has changed from short state?	Replace the control module whose resistance has changed. When the value changed at disconnecting the body integrated unit, Go to step 3.	Repair or replace the short circuit of the harness between body integrated unit and ECM.
3 CHECK BETWEEN MAIN WIRING HARNESSES. Using the tester, measure the resistance between terminals. <i>Connector & terminal (B281) No. 20 — No. 28:</i>	Is the resistance 10 Ω or less?	Repair or replace the short circuit of the harness between VDC CM and body integrated unit.	Replace the body integrated unit. <Ref. to SL-74, REMOVAL, Body Integrated Unit.>
4 CHECK CONTROL MODULE. 1) Disconnect ECM and VDC CM connectors. 2) Using a tester, measure the resistance between control module terminals. <i>Connector & terminal (B137) No. 19 — No. 18 (non-turbo model): (B134) No. 9 — No. 10 (turbo model): (B310) No. 2 — No. 15:</i>	Is the resistance 114 — 126 Ω ?	Go to step 5.	Replace the control module whose end resistance value is out of the specified range.
5 CHECK CONTROL MODULE. 1) Disconnect the connector of body integrated unit. 2) Using a tester, measure the resistance between control module terminals. <i>Connector & terminal (B281) No. 28 — (i84) No. 27: (B281) No. 20 — (i84) No. 35:</i>	Is the resistance 2,850 — 3,150 Ω ?	Go to step 6.	Replace the body integrated unit. <Ref. to SL-74, REMOVAL, Body Integrated Unit.>
6 CHECK CONTROL MODULE. Using a tester, measure the resistance between control module terminals. <i>Connector & terminal (B281) No. 28 — (i84) No. 35: (B281) No. 20 — (i84) No. 27:</i>	Is the resistance less than 1 Ω ?	Go to step 7.	Replace the body integrated unit. <Ref. to SL-74, REMOVAL, Body Integrated Unit.>
7 CHECK CONTROL MODULE. 1) Disconnect the combination meter connector. 2) Using a tester, measure the resistance between control module terminals. <i>Connector & terminal (i10) No. 32 — No. 33:</i>	Is the resistance 2,850 — 3,150 Ω ?	Go to step 8.	Replace the combination meter. <Ref. to IDI-18, REMOVAL, Combination Meter.>
8 CHECK CONTROL MODULE (ONLY FOR MODELS WITH HIGH GRADE MFD). 1) Disconnect the MFD connector. 2) Using a tester, measure the resistance between control module terminals. <i>Connector & terminal (i122) No. 5 — No. 6:</i>	Is the resistance 2,850 — 3,150 Ω ?	Go to step 9.	Replace the MFD. <Ref. to IDI-25, REMOVAL, Multi-function Display (MFD).>



CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
9 CHECK HARNESS. Using the tester, check the short circuit portion of each harness. <i>Connector & terminal</i> <i>(B281) No. 28 — No. 20:</i>	Is the resistance 1 MΩ or more?	Go to step 11.	Go to step 10.
10 CHECK CONTROL MODULE. With a tester connected, disconnect control modules in order. <i>Connector & terminal</i> <i>(B281) No. 28 — No. 20:</i>	Are there any control modules whose resistance changed to 1 MΩ or more?	Replace the control module that has changed.	Repair or replace the harness part which has resistance component.
11 CHECK CONTROL MODULE. With a tester connected, disconnect control modules in order. <i>Connector & terminal</i> <i>(i84) No. 27 — No. 35:</i>	Are there any control modules whose resistance changed to 1 MΩ or more?	Replace the control module that has changed.	Repair or replace the harness part which has resistance component.



CAN Communication Circuit Check

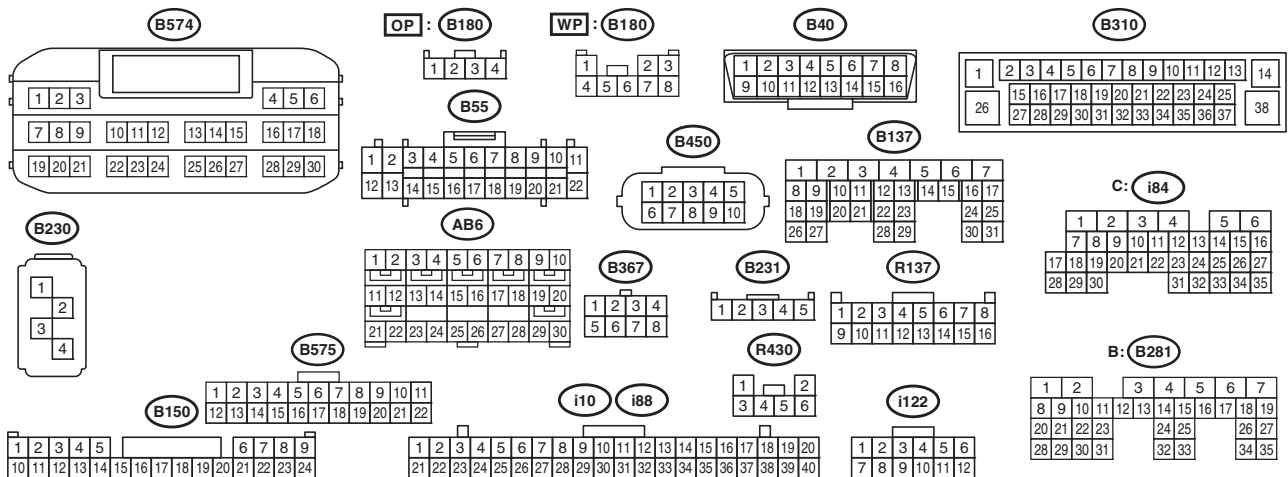
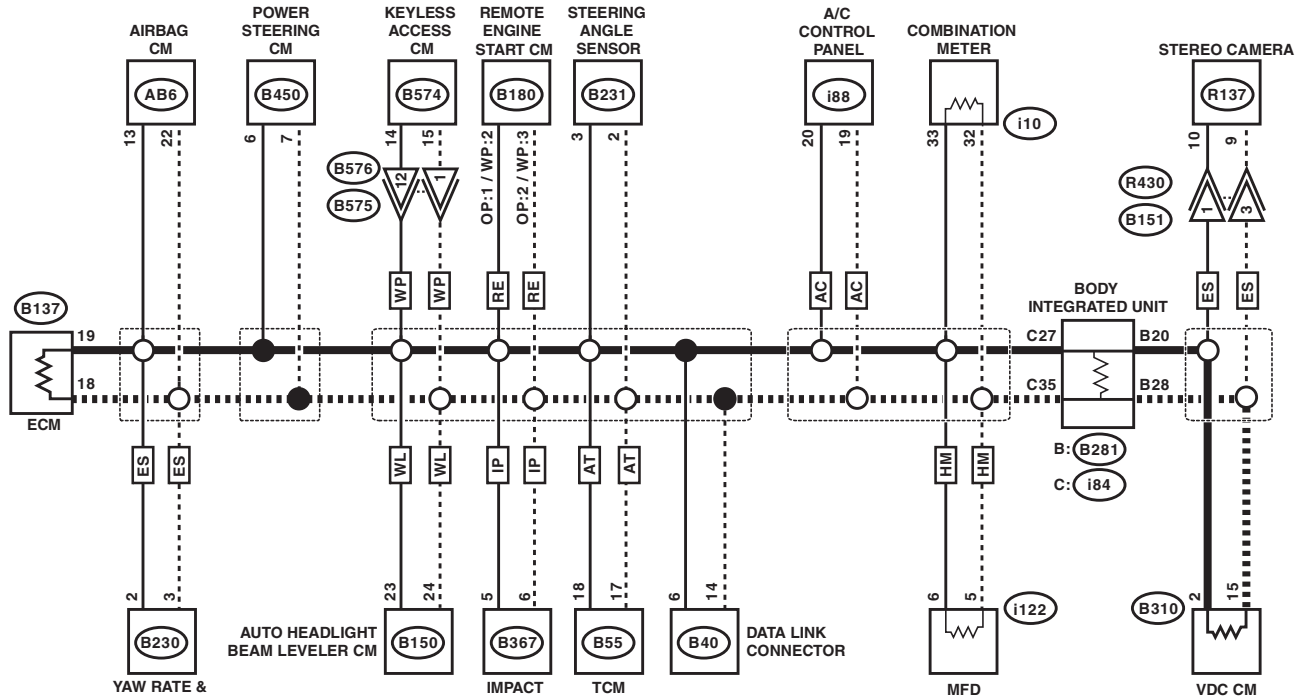
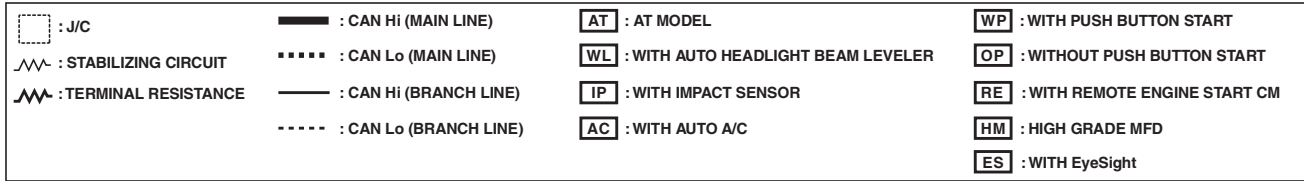
LAN SYSTEM (DIAGNOSTICS)

5. 62 Ω OR MORE

WIRING DIAGRAM:

CAN communication system <Ref. to WI-96, WIRING DIAGRAM, CAN Communication System.>

- Non-turbo model

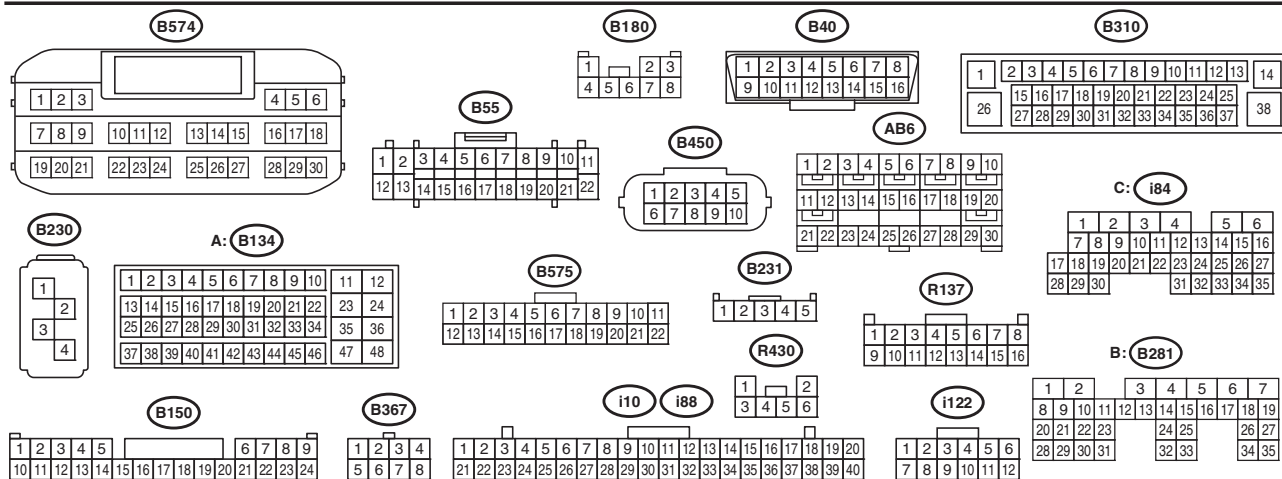
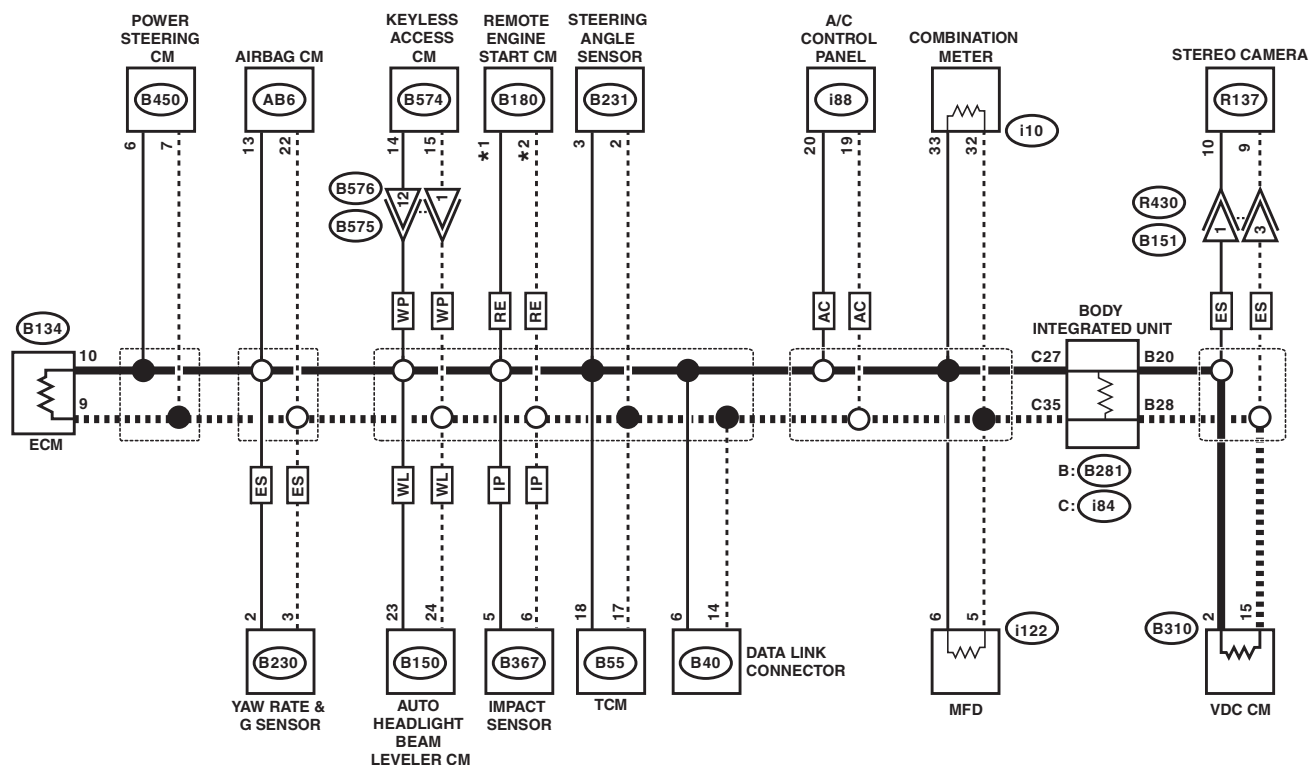
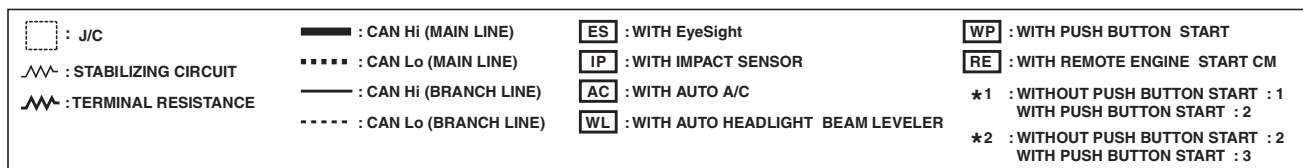


LAN01285

CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

• Turbo model



LAN01286

NOTE:

When CAN communication circuit is measured, combined resistance of end resistance (120 Ω) in ECM and end resistance (120 Ω) in VDC CM can be measured. The combined resistance is approximately 53 — 61 Ω with the stabilizing circuit included. When the measured resistance value is 62 Ω or more, either one of the end resistances, or stabilizing circuit, or main wiring harness may have malfunction such as open circuit.

CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK CONTROL MODULE. 1) Disconnect ECM and VDC CM connectors. 2) Using a tester, measure the resistance between control module terminals. Connector & terminal (B137) No. 19 — No. 18 (non-turbo model): (B134) No. 9 — No. 10 (turbo model): (B310) No. 2 — No. 15:	Is the resistance 114 — 126 Ω?	Go to step 2.	Replace the control module whose value is out of the specification.
2 CHECK CONTROL MODULE. 1) Disconnect the connector of body control module. 2) Using a tester, measure the resistance between control module terminals. Connector & terminal (B281) No. 28 — (i84) No. 27: (B281) No. 20 — (i84) No. 35:	Is the resistance 2,850 — 3,150 Ω?	Go to step 3.	Replace the body integrated unit. <Ref. to SL-74, REMOVAL, Body Integrated Unit.>
3 CHECK CONTROL MODULE. Using the tester, measure the resistance between terminals. Connector & terminal (B281) No. 28 — (i84) No. 35: (B281) No. 20 — (i84) No. 27:	Is the resistance less than 1 Ω?	Go to step 4.	Replace the body integrated unit. <Ref. to SL-74, REMOVAL, Body Integrated Unit.>
4 CHECK CONTROL MODULE. 1) Disconnect the combination meter connector. 2) Using a tester, measure the resistance between control module terminals. Connector & terminal (i10) No. 32 — No. 33:	Is the resistance 2,850 — 3,150 Ω?	Go to step 5.	Replace the combination meter. <Ref. to IDI-18, REMOVAL, Combination Meter.>
5 CHECK CONTROL MODULE (ONLY FOR MODELS WITH HIGH GRADE MFD). 1) Disconnect the MFD connector. 2) Using a tester, measure the resistance between control module terminals. Connector & terminal (i122) No. 5 — No. 6:	Is the resistance 2,850 — 3,150 Ω?	Go to step 6.	Replace the MFD. <Ref. to IDI-25, REMOVAL, Multi-function Display (MFD).>
6 CHECK HARNESS. Using a tester, check continuity between terminals. Connector & terminal (B40) No. 6 — (B137) No. 19 (non-turbo model): (B40) No. 14 — (B137) No. 18 (non-turbo model): (B40) No. 6 — (B134) No. 10 (turbo model): (B40) No. 14 — (B134) No. 9 (turbo model): (B40) No. 6 — (i84) No. 27: (B40) No. 14 — (i84) No. 35:	Is there continuity?	Go to step 7.	Repair or replace the open circuit of harness.
7 CHECK HARNESS. Using a tester, check continuity between terminals. Connector & terminal (B281) No. 20 — (B310) No. 2: (B281) No. 28 — (B310) No. 15:	Is there continuity?	It is possible that temporary poor communication occurs.	Repair or replace the open circuit of harness.

CAN Communication Circuit Check

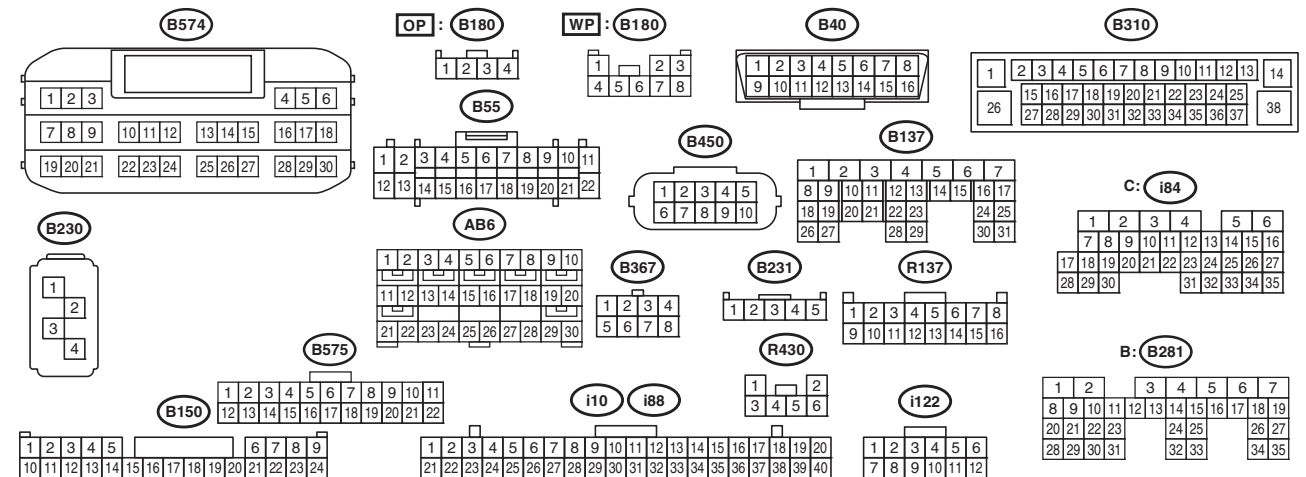
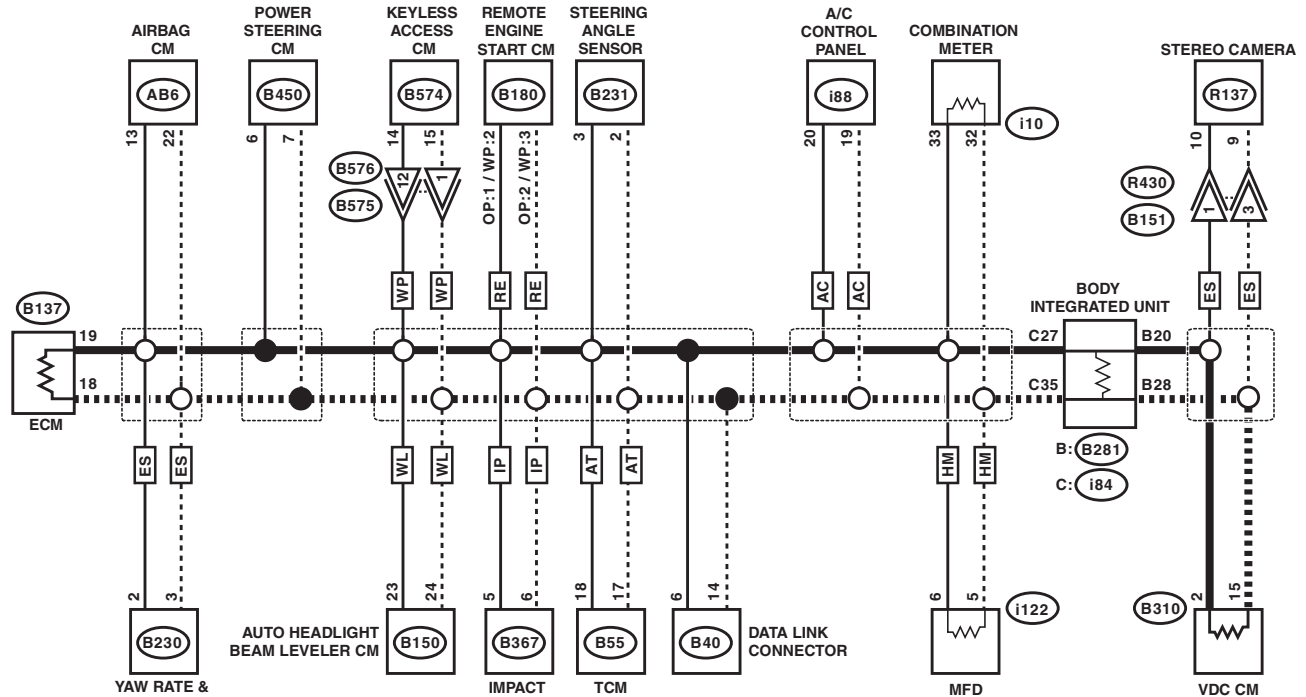
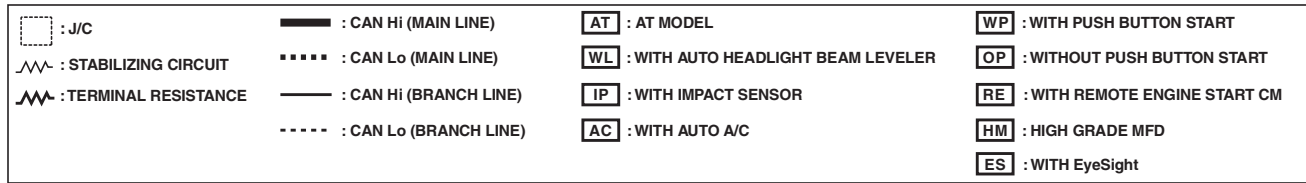
LAN SYSTEM (DIAGNOSTICS)

6. RELATED LINES 53 — 61 Ω (TCM)

WIRING DIAGRAM:

CAN communication system <Ref. to WI-96, WIRING DIAGRAM, CAN Communication System.>

- Non-turbo model

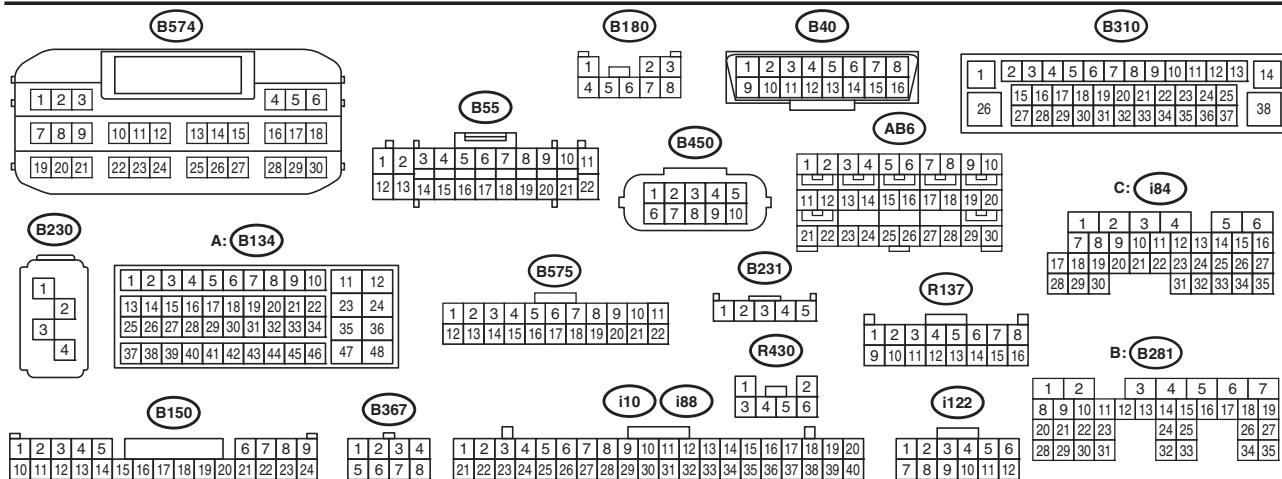
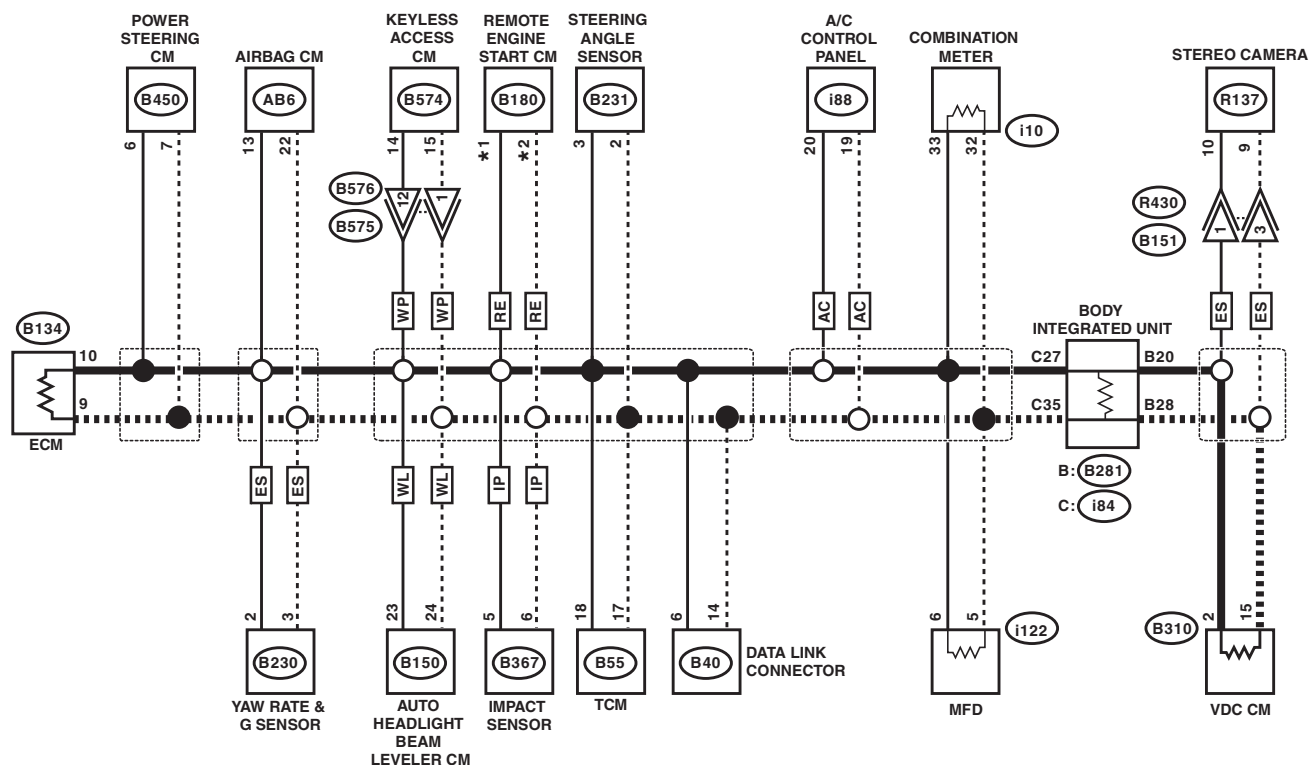
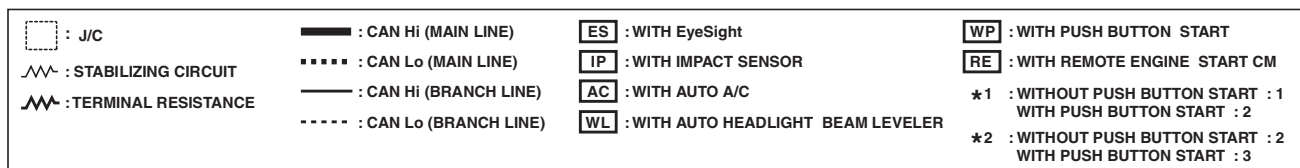


LAN01285

CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

• Turbo model



LAN01286

NOTE:

Perform inspection when no data is received, or faulty is detected. This is different from power supply shorted or ground shorted.

CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK BETWEEN RELATED LINES AND MAIN WIRING HARNESS. 1) Disconnect the TCM connector. 2) Using the tester, measure the resistance between terminals. <i>Connector & terminal</i> <i>(B55) No. 17 — No. 18:</i>	Is the resistance 400 Ω or more?	Related lines between TCM and main wiring harness is open, or main wiring harness is open at two places or more.	Go to step 2.
2 CHECK RELATED LINES. Using the tester, measure the resistance between terminals. <i>Connector & terminal</i> <i>(B55) No. 17 — (B40) No. 14:</i> <i>(B55) No. 18 — (B40) No. 6:</i>	Is the resistance 10 Ω or more?	Repair or replace the open circuit portion of TCM related lines.	Check DTC of TCM. <Ref. to CVT(diag)-23, OPERATION, Read Diagnostic Trouble Code (DTC).>



CAN Communication Circuit Check

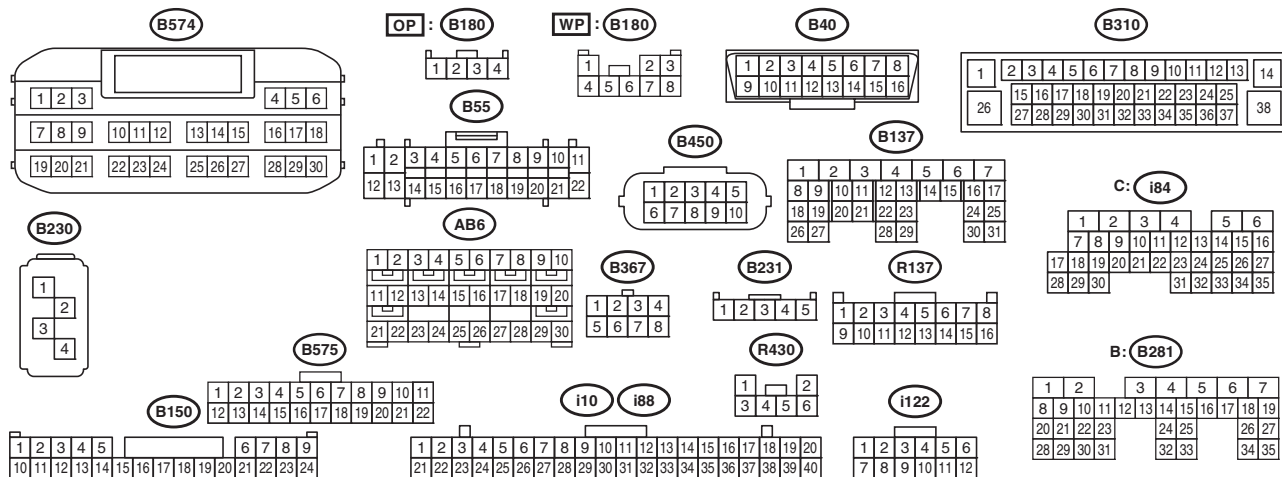
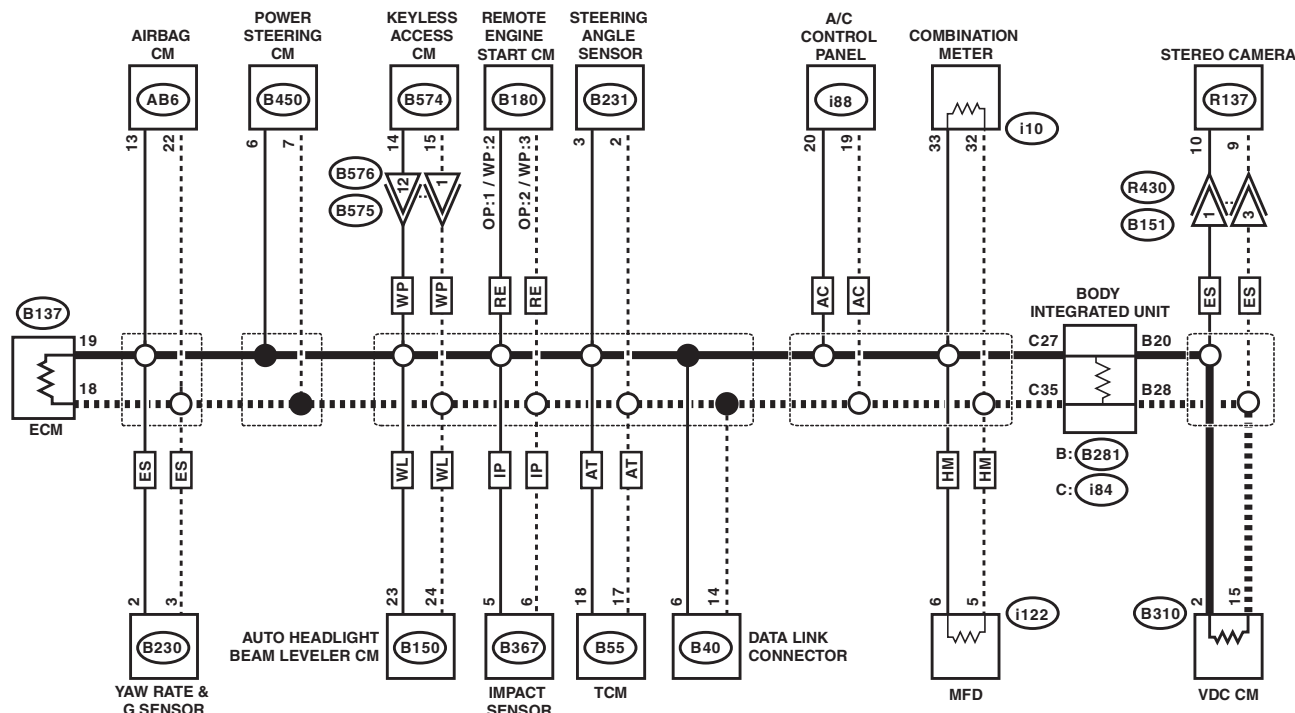
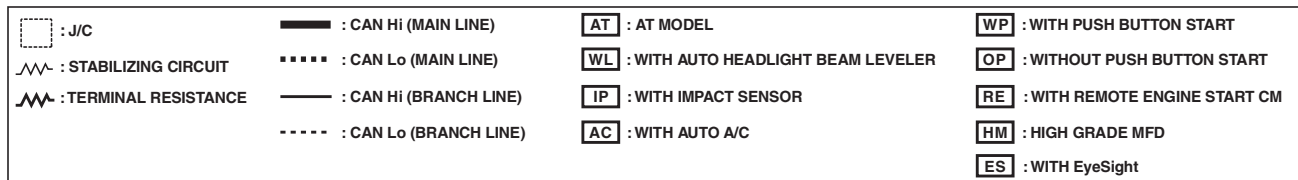
LAN SYSTEM (DIAGNOSTICS)

7. RELATED LINES 53 — 61 Ω (STEERING ANGLE SENSOR)

WIRING DIAGRAM:

CAN communication system <Ref. to WI-96, WIRING DIAGRAM, CAN Communication System.>

- Non-turbo model

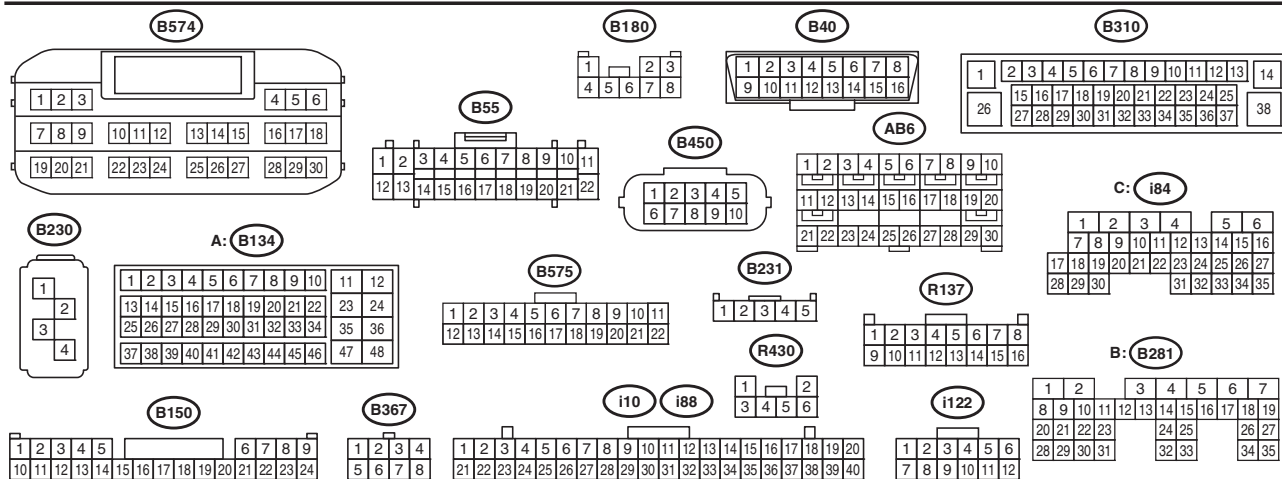
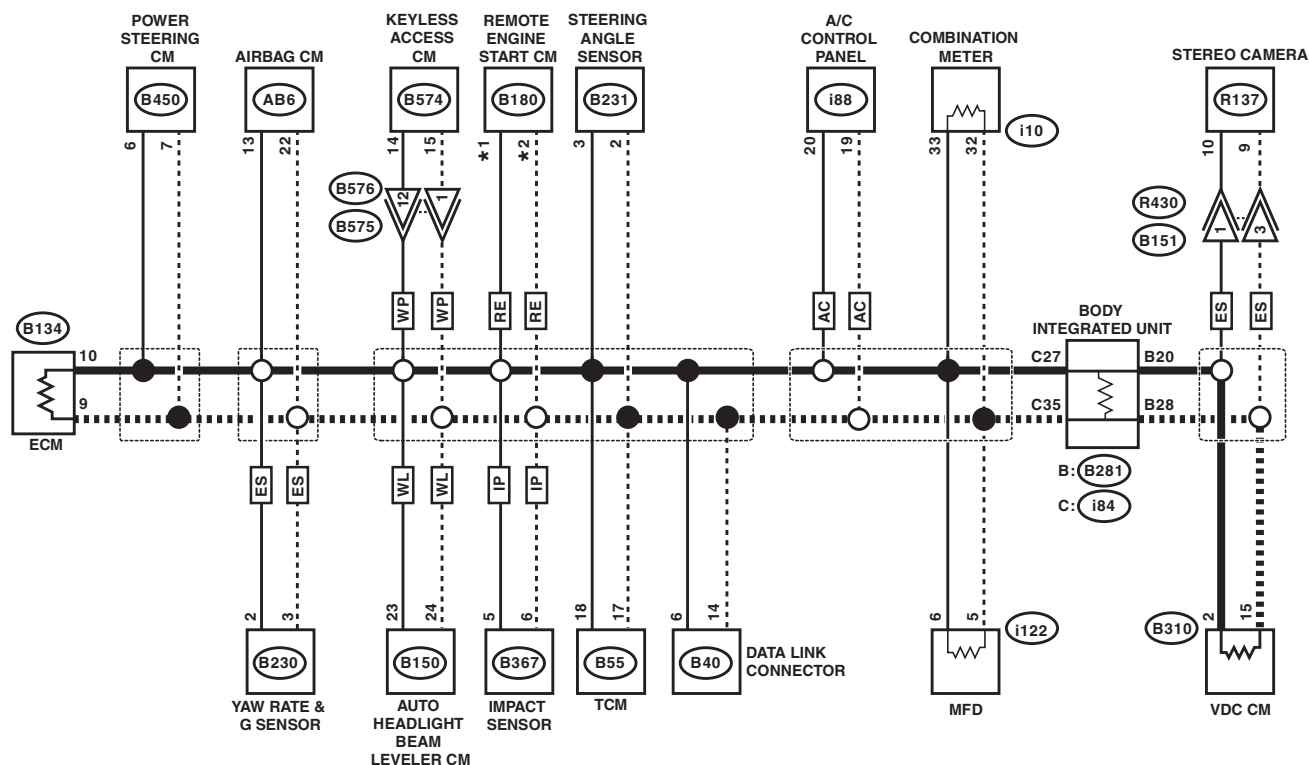
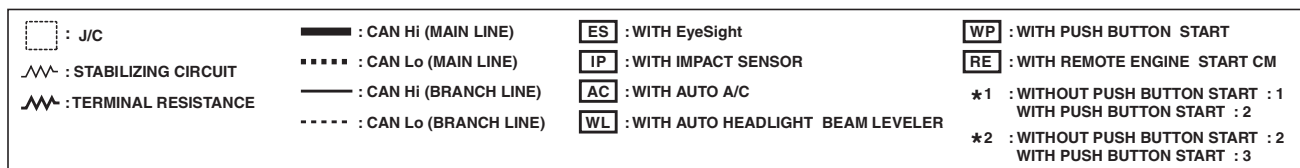


LAN01285

CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

- Turbo model



LAN01286

CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK BETWEEN RELATED LINES AND MAIN WIRING HARNESS. 1) Disconnect the steering angle sensor connector. 2) Using the tester, measure the resistance between terminals. <i>Connector & terminal</i> <i>(B231) No. 2 — No. 3:</i>	Is the resistance 400 Ω or more?	Related lines between steering angle sensor and main wiring harness is open, or main wiring harness is open at two places or more.	Go to step 2.
2 CHECK RELATED LINES. Using the tester, measure the resistance between terminals. <i>Connector & terminal</i> <i>(B231) No. 2 — (B40) No. 14:</i> <i>(B231) No. 3 — (B40) No. 6:</i>	Is the resistance 10 Ω or more?	Repair or replace the open circuit portion of steering angle sensor related lines.	Check DTC of VDC CM. <Ref. to VDC(diag)-21, OPERATION, Read Diagnostic Trouble Code (DTC).>



CAN Communication Circuit Check

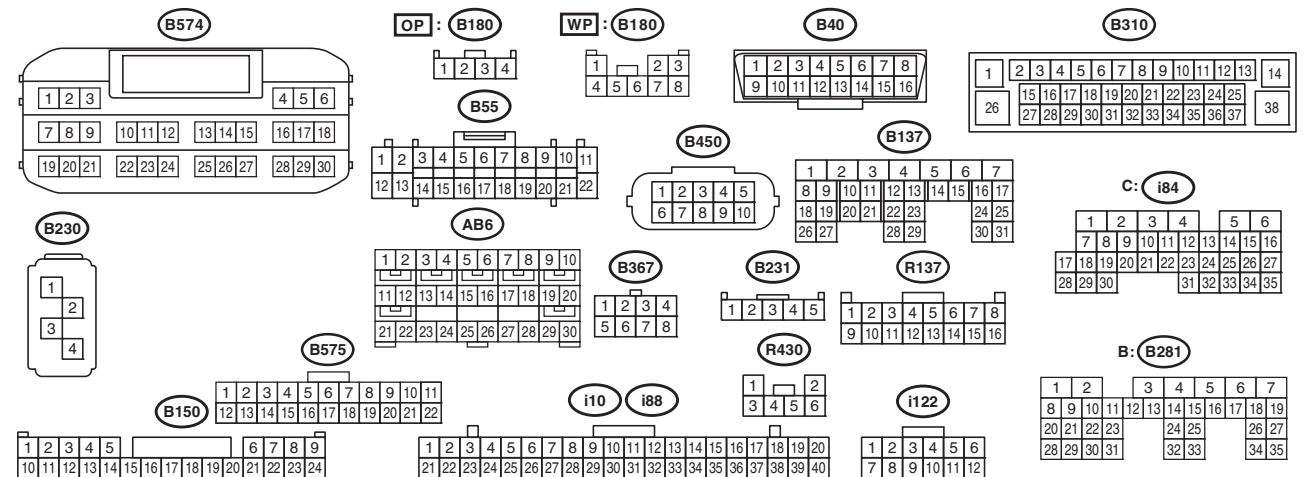
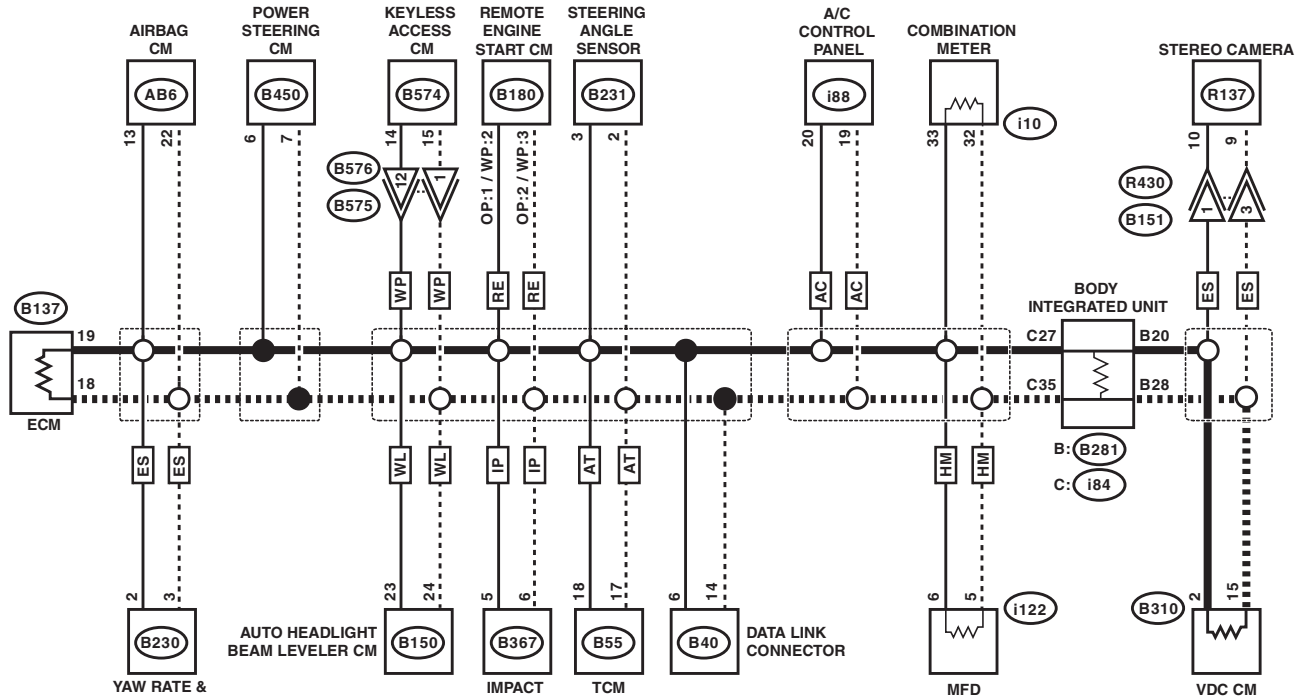
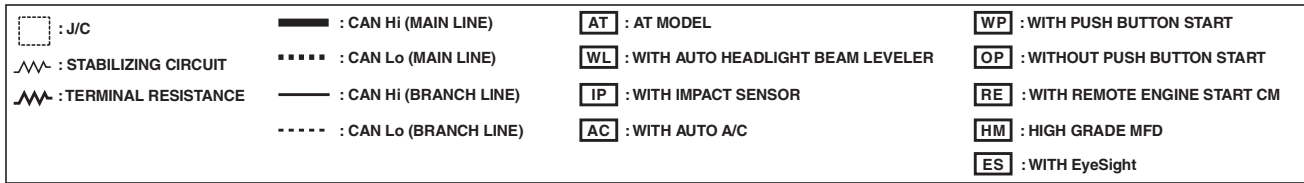
LAN SYSTEM (DIAGNOSTICS)

8. RELATED LINE 53 — 61 Ω (A/C CONTROL PANEL)

WIRING DIAGRAM:

CAN communication system <Ref. to WI-96, WIRING DIAGRAM, CAN Communication System.>

- Non-turbo model

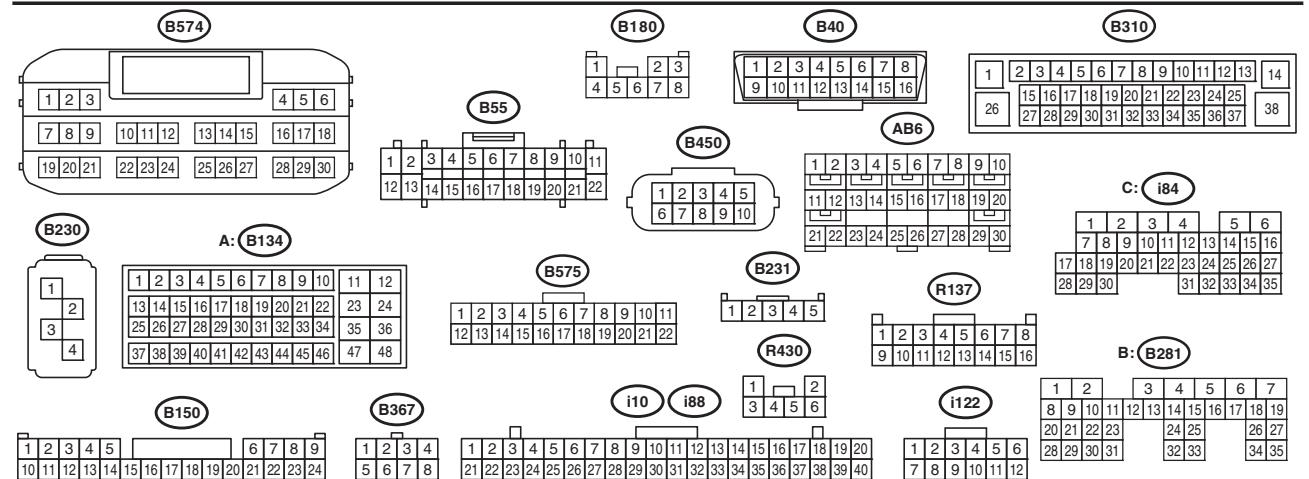
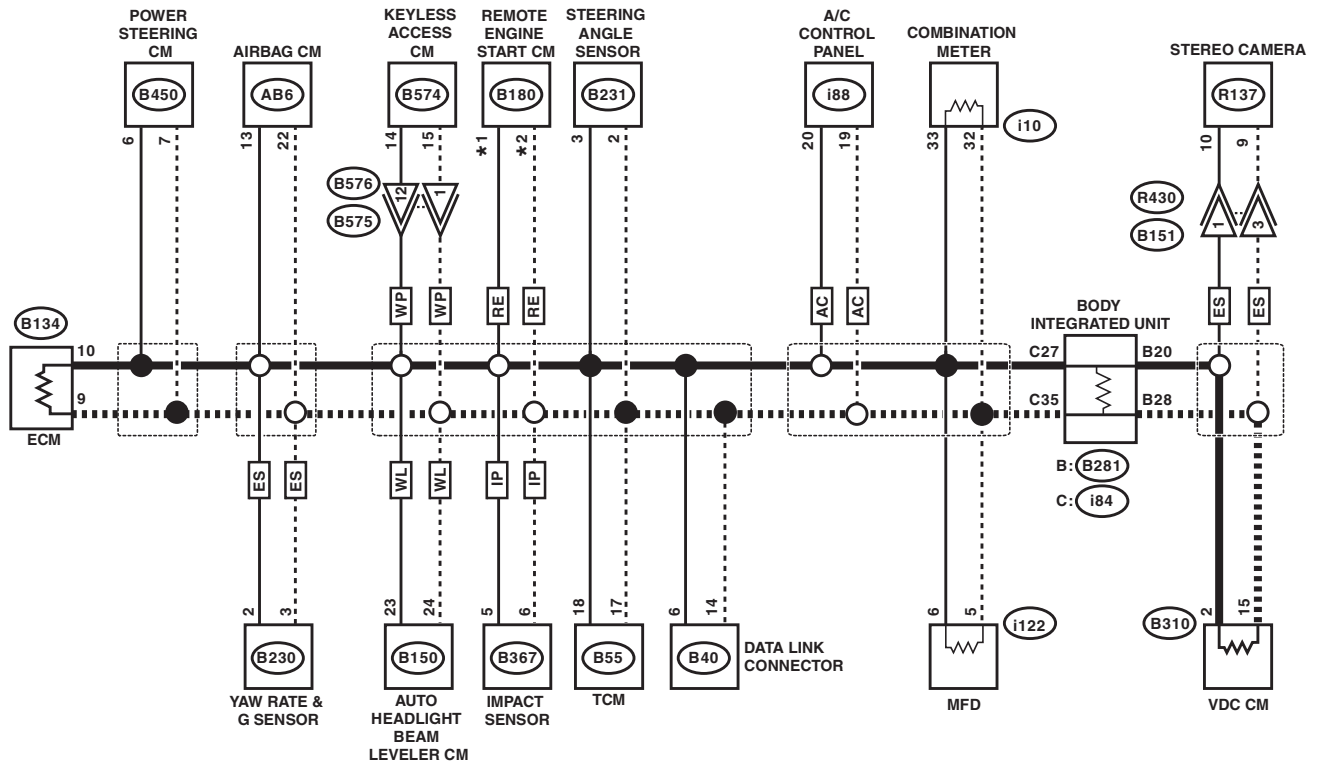
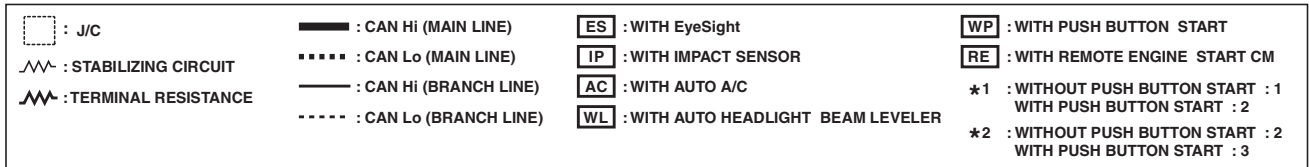


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LAN SYSTEM (DIAGNOSTICS)

Turbo model



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LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK BETWEEN RELATED LINES AND MAIN WIRING HARNESS. 1) Disconnect the A/C control panel connector. 2) Using the tester, measure the resistance between terminals. <i>Connector & terminal</i> <i>(i88) No. 19 — No. 20:</i>	Is the resistance 400 Ω or more?	Related lines between A/C control panel and main wiring harness is open, or main wiring harness is open at two places or more.	Go to step 2.
2 CHECK RELATED LINES. Using the tester, measure the resistance between terminals. <i>Connector & terminal</i> <i>(i88) No. 19 — (B40) No. 14:</i> <i>(i88) No. 20 — (B40) No. 6:</i>	Is the resistance 10 Ω or more?	Repair or replace the open circuit of A/C control panel related lines.	Check the DTC of A/C control panel. <Ref. to AC(diag)-41, Read Diagnostic Trouble Code (DTC).>



CAN Communication Circuit Check

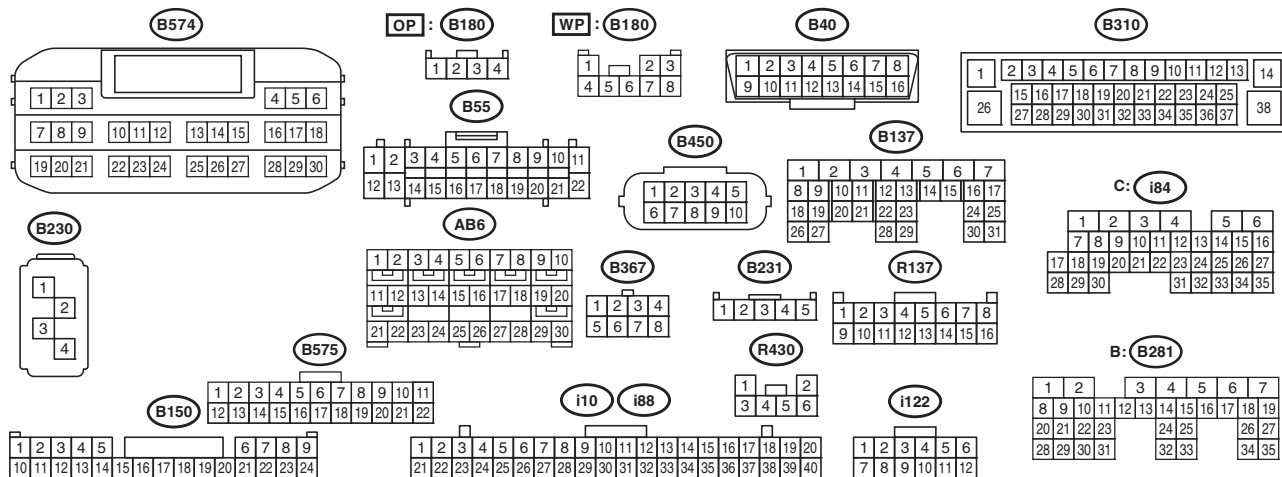
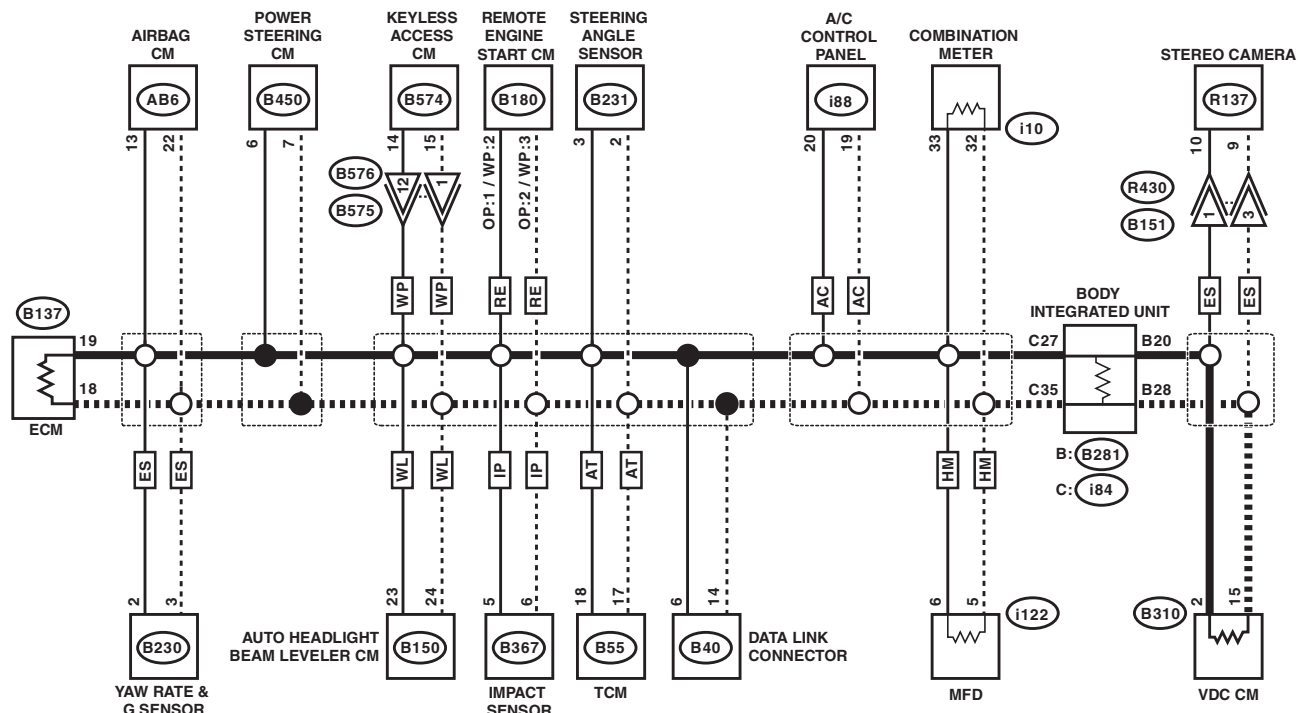
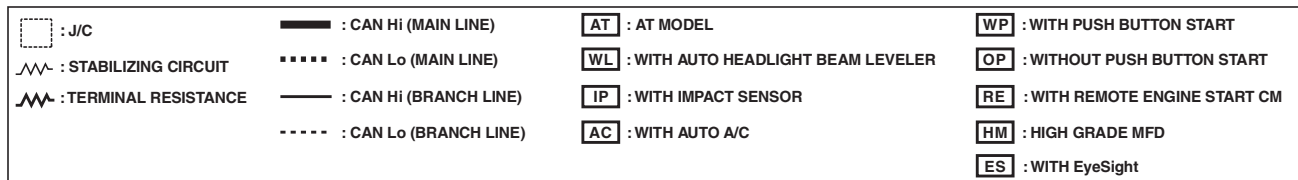
LAN SYSTEM (DIAGNOSTICS)

9. RELATED LINES 53 — 61 Ω (ELECTRIC POWER STEERING CM)

WIRING DIAGRAM:

CAN communication system <Ref. to WI-96, WIRING DIAGRAM, CAN Communication System.>

- Non-turbo model

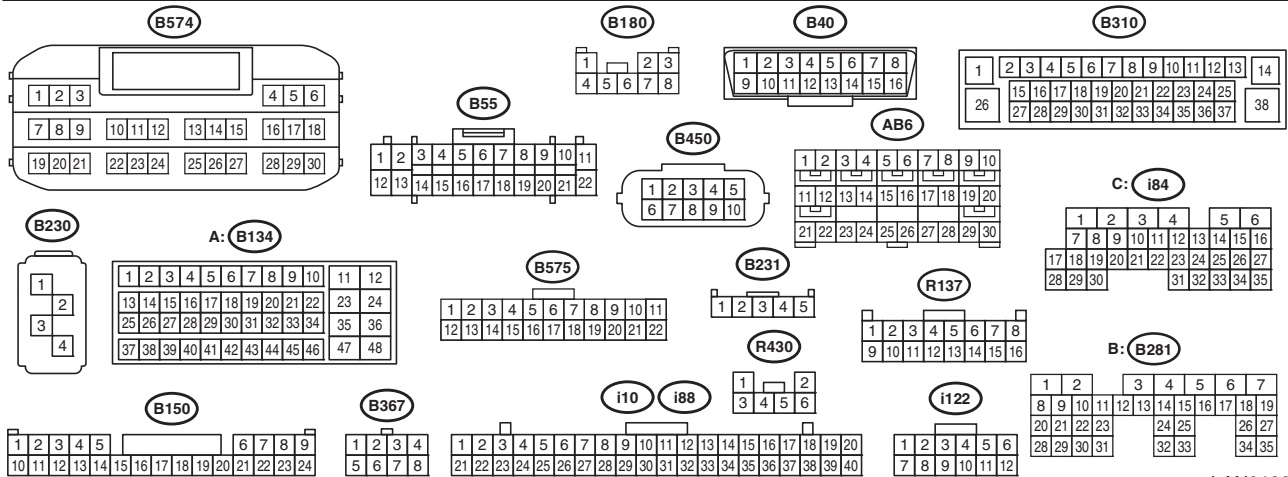
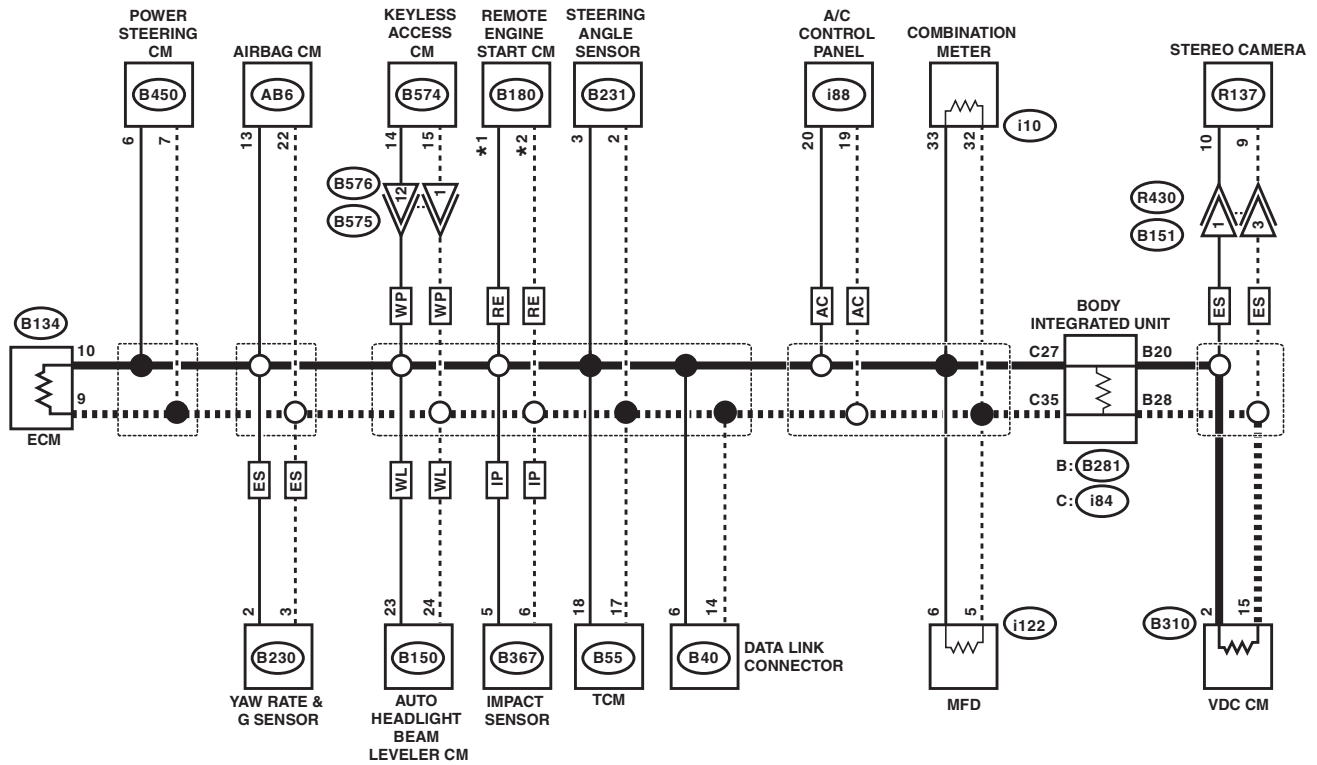
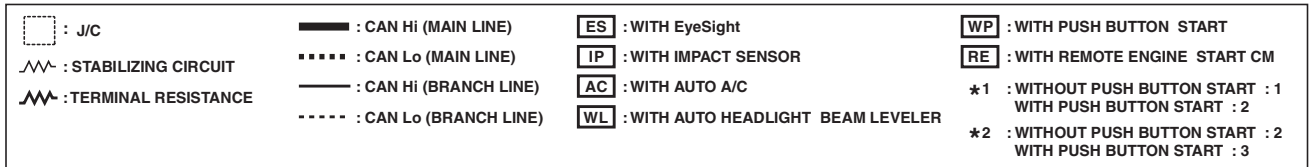


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LAN SYSTEM (DIAGNOSTICS)

• Turbo model



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LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK BETWEEN RELATED LINES AND MAIN WIRING HARNESS. 1) Disconnect the electric power steering CM connector. 2) Using the tester, measure the resistance between terminals. Connector & terminal (B450) No. 6 — No. 7:	Is the resistance 400 Ω or more?	Related lines between electric power steering CM and main wiring harness, or main wiring harness is open at two places or more.	Go to step 2.
2 CHECK RELATED LINES. Using the tester, measure the resistance between terminals. Connector & terminal (B450) No. 6 — (B40) No. 6: (B450) No. 7 — (B40) No. 14:	Is the resistance 10 Ω or more?	Repair or replace the open circuit portion of electric power steering CM related lines.	Check DTC of electric power steering CM. <Ref. to PS(diag)-15, OPERATION, Read Diagnostic Trouble Code (DTC).>



CAN Communication Circuit Check

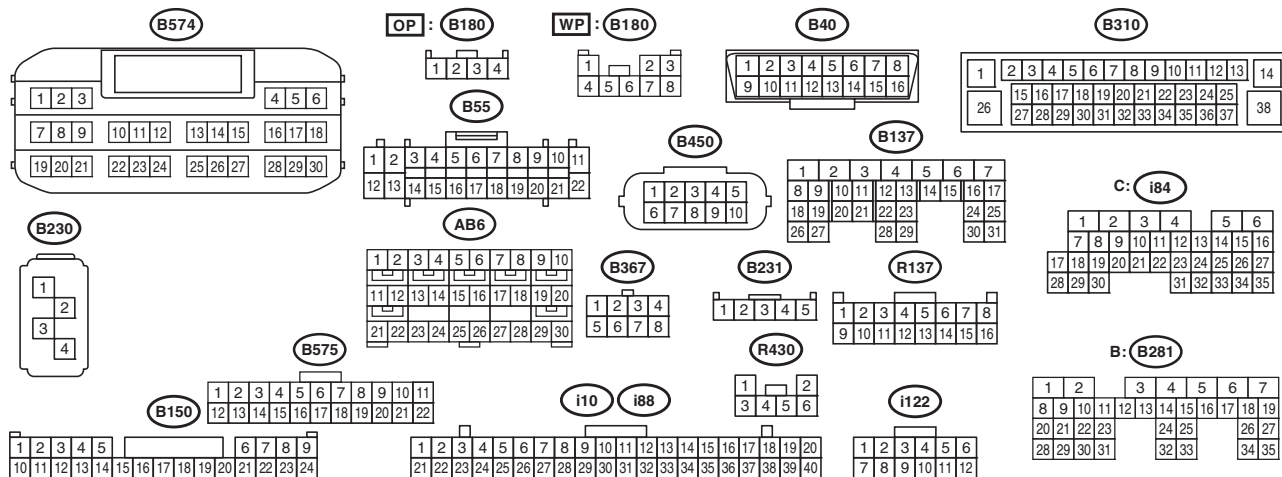
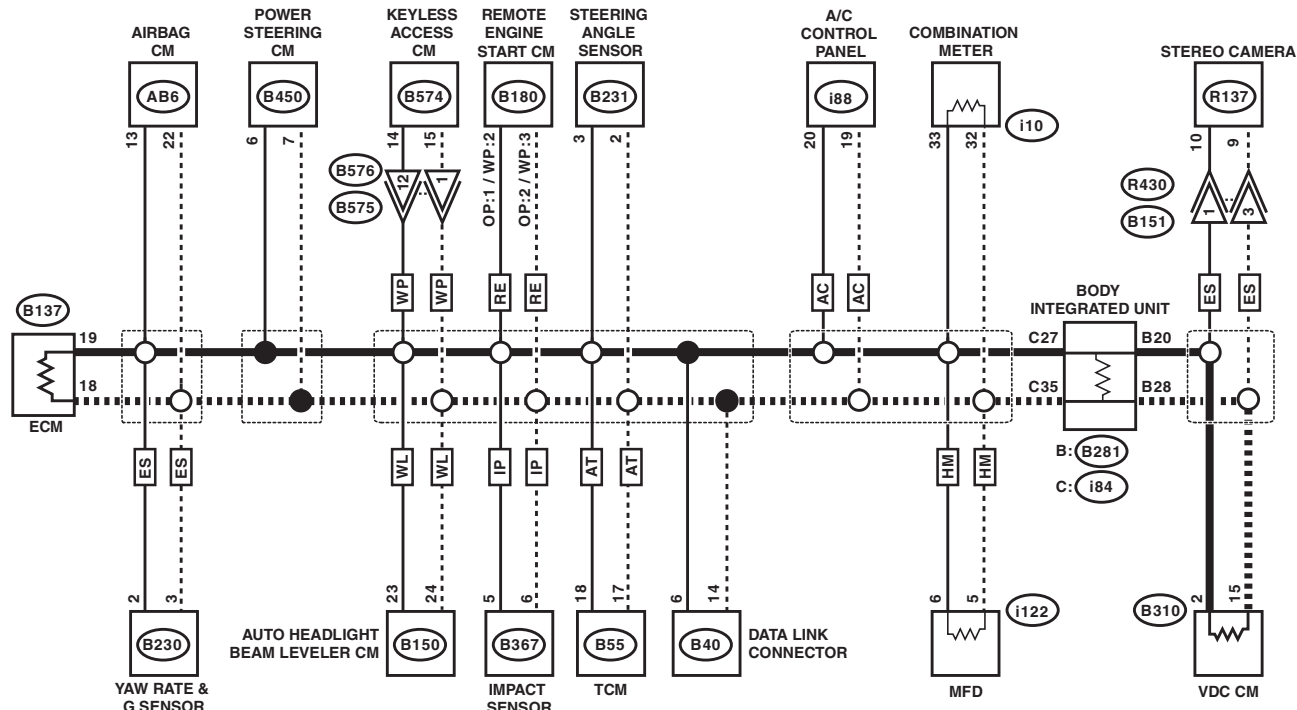
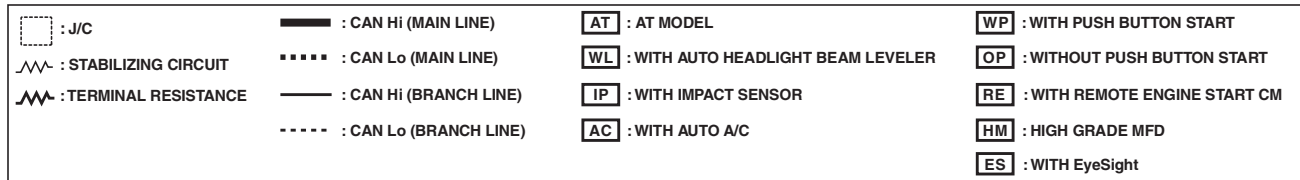
LAN SYSTEM (DIAGNOSTICS)

10.RELATED LINES 53 — 61 Ω (COMBINATION METER)

WIRING DIAGRAM:

CAN communication system <Ref. to WI-96, WIRING DIAGRAM, CAN Communication System.>

- Non-turbo model

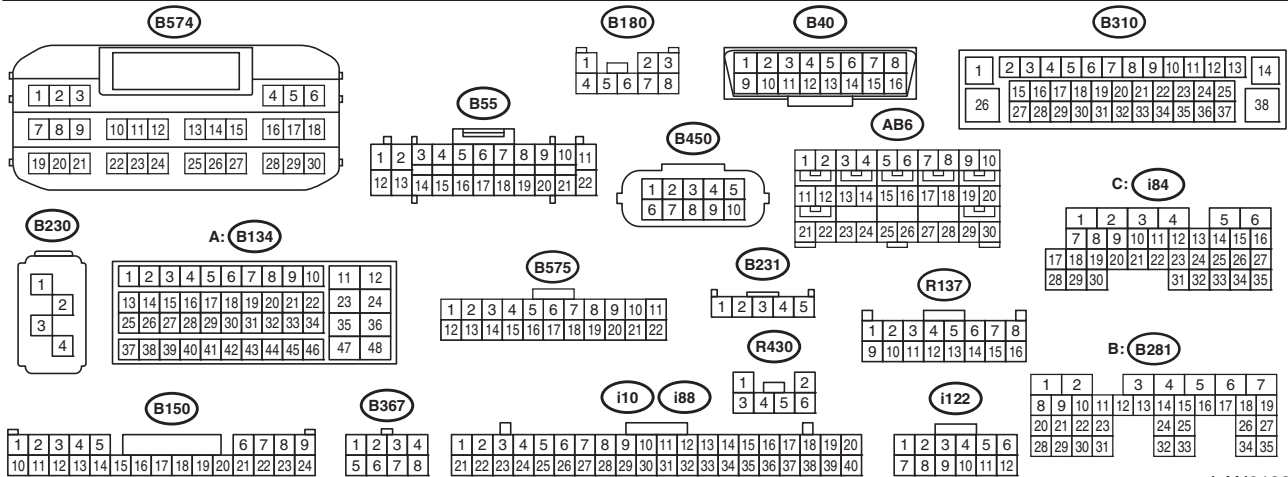
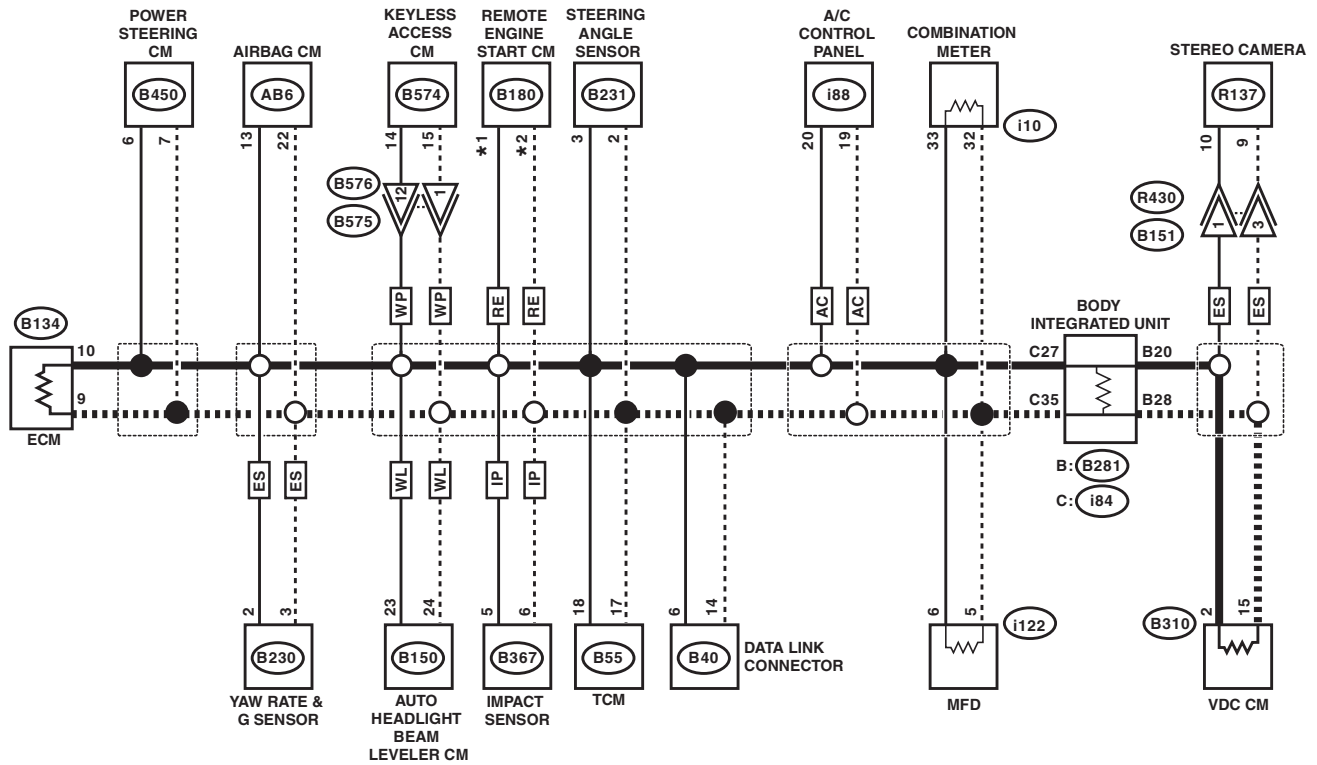
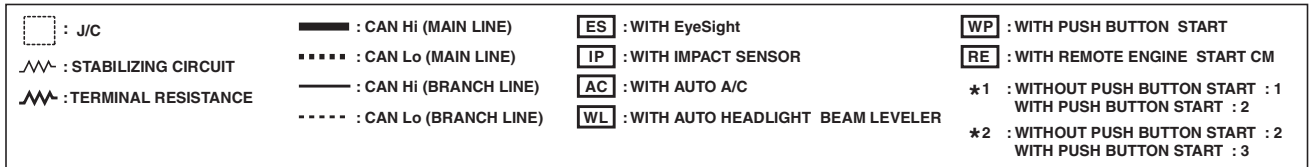


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LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK BETWEEN RELATED LINES AND MAIN WIRING HARNESS. 1) Disconnect the combination meter connector. 2) Using the tester, measure the resistance between terminals. <i>Connector & terminal</i> <i>(i10) No. 32 — No. 33:</i>	Is the resistance 400 Ω or more?	Related lines between combination meter and main wiring harness is open, or main wiring harness is open at two places or more.	Go to step 2.
2 CHECK RELATED LINES. Using the tester, measure the resistance between terminals. <i>Connector & terminal</i> <i>(i10) No. 32 — (B40) No. 14:</i> <i>(i10) No. 33 — (B40) No. 6:</i>	Is the resistance 10 Ω or more?	Repair or replace the open circuit portion of combination meter related lines.	Check DTC of combination meter. <Ref. to IDI(diag)-13, OPERATION, Read Diagnostic Trouble Code (DTC).>

CAN Communication Circuit Check

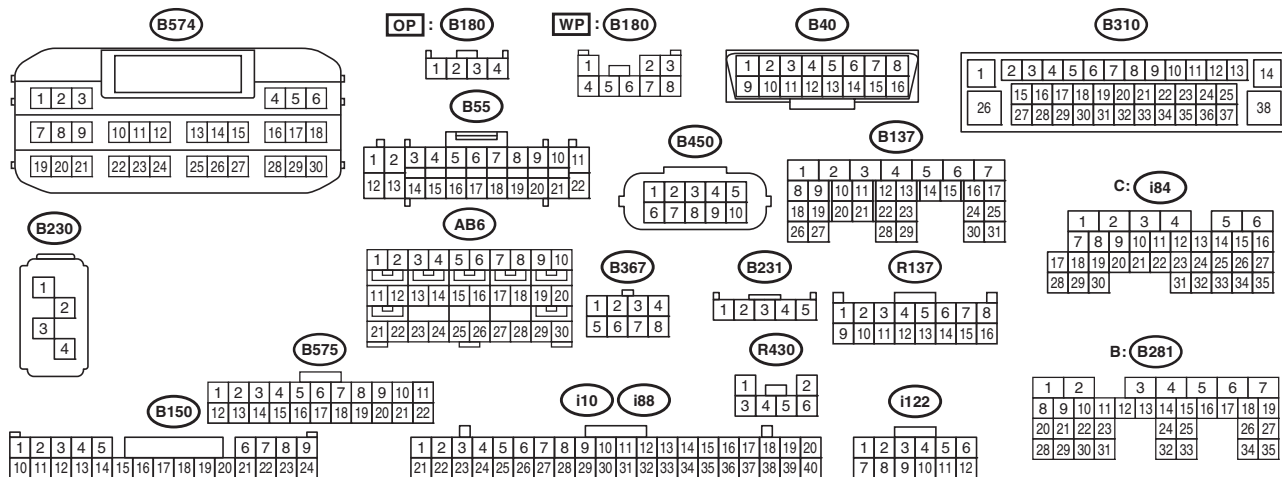
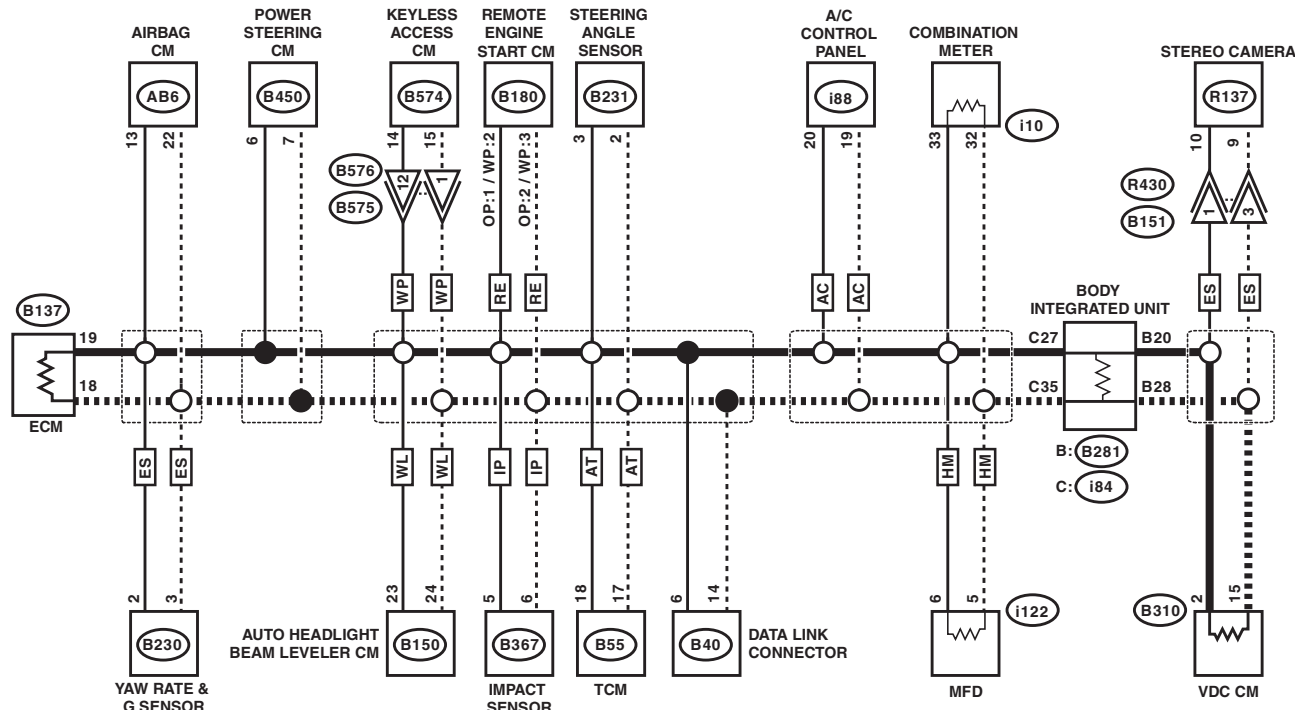
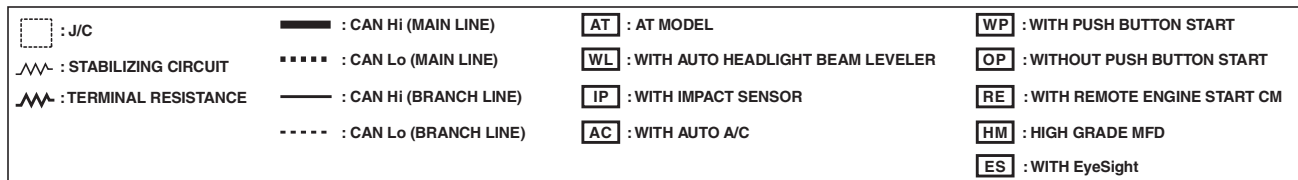
LAN SYSTEM (DIAGNOSTICS)

11.RELATED LINES 53 — 61 Ω (MFD)

WIRING DIAGRAM:

CAN communication system <Ref. to WI-96, WIRING DIAGRAM, CAN Communication System.>

- Non-turbo model

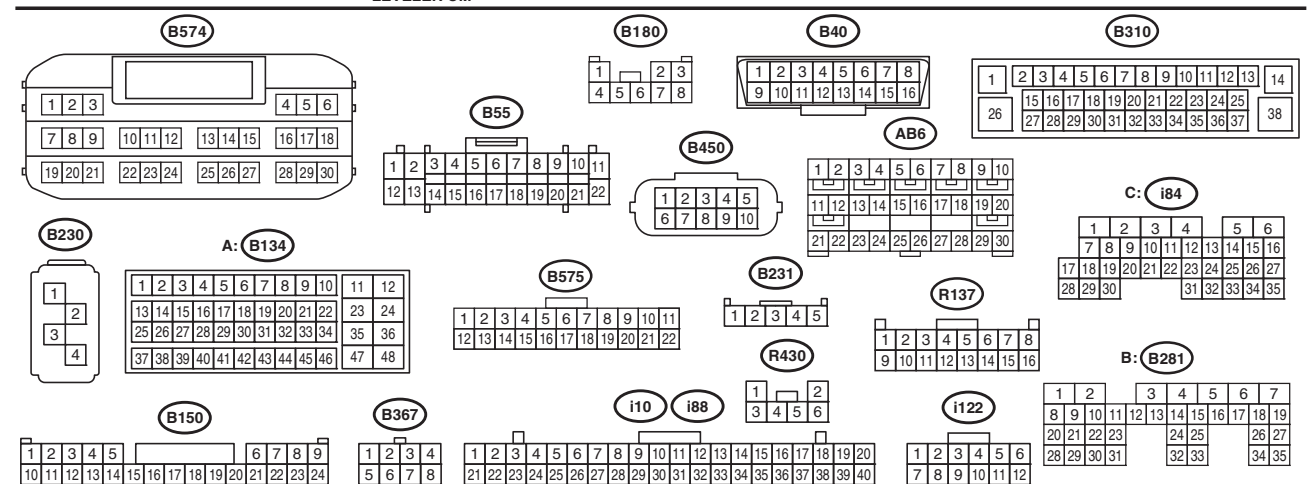
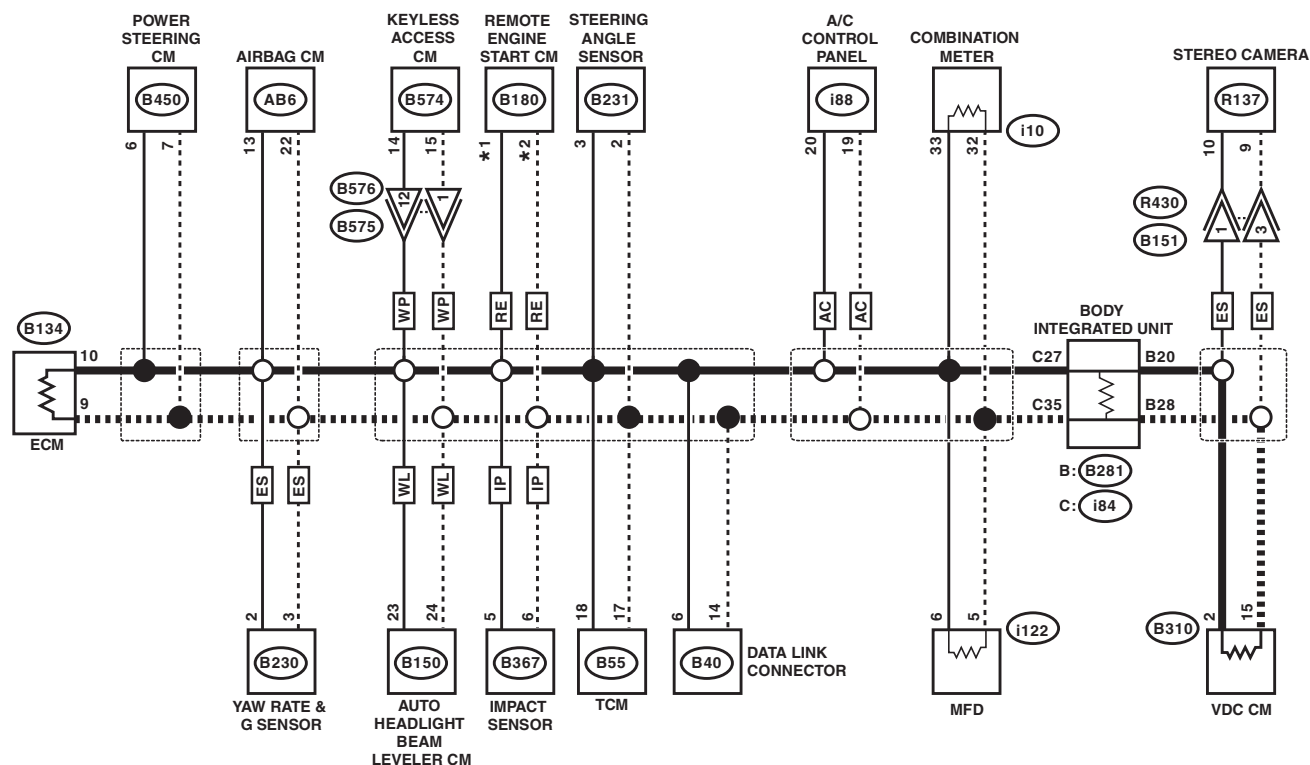
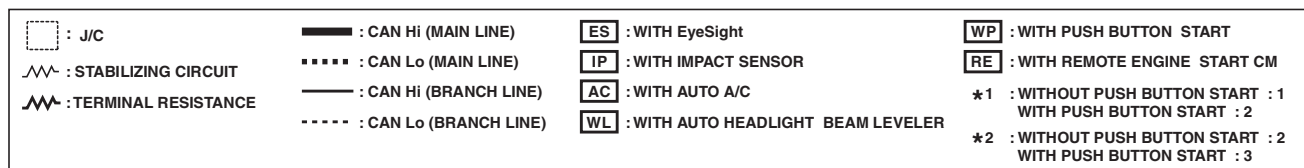


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LAN SYSTEM (DIAGNOSTICS)

- Turbo model



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Step	Check	Yes	No
1	CHECK BETWEEN RELATED LINES AND MAIN WIRING HARNESS. 1) Disconnect the MFD connector. 2) Using the tester, measure the resistance between terminals. Connector & terminal (i122) No. 5 — No. 6:	Is the resistance 400 Ω or more? Related lines between MFD and main wiring harness is open, or main wiring harness is open at two places or more.	Go to step 2.

CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
2 CHECK RELATED LINES. Using the tester, measure the resistance between terminals. Connector & terminal (i122) No. 5 — (B40) No. 14: (i122) No. 6 — (B40) No. 6:	Is the resistance 10 Ω or more?	Repair or replace the open circuit of MFD related lines.	Check DTC of MFD. <Ref. to IDI(diag)-13, OPERATION, Read Diagnostic Trouble Code (DTC).>

CAN Communication Circuit Check

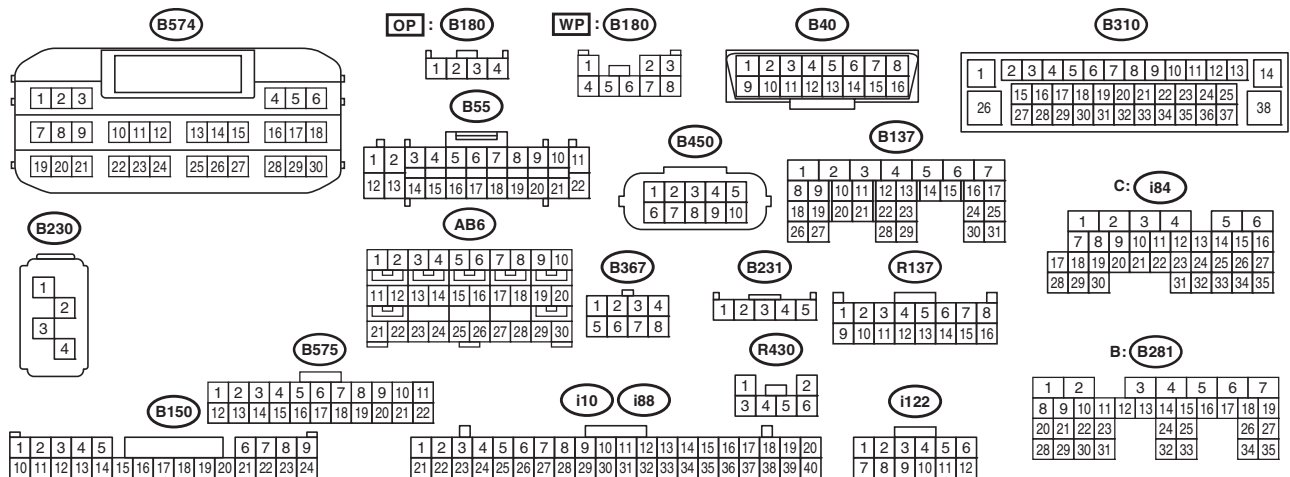
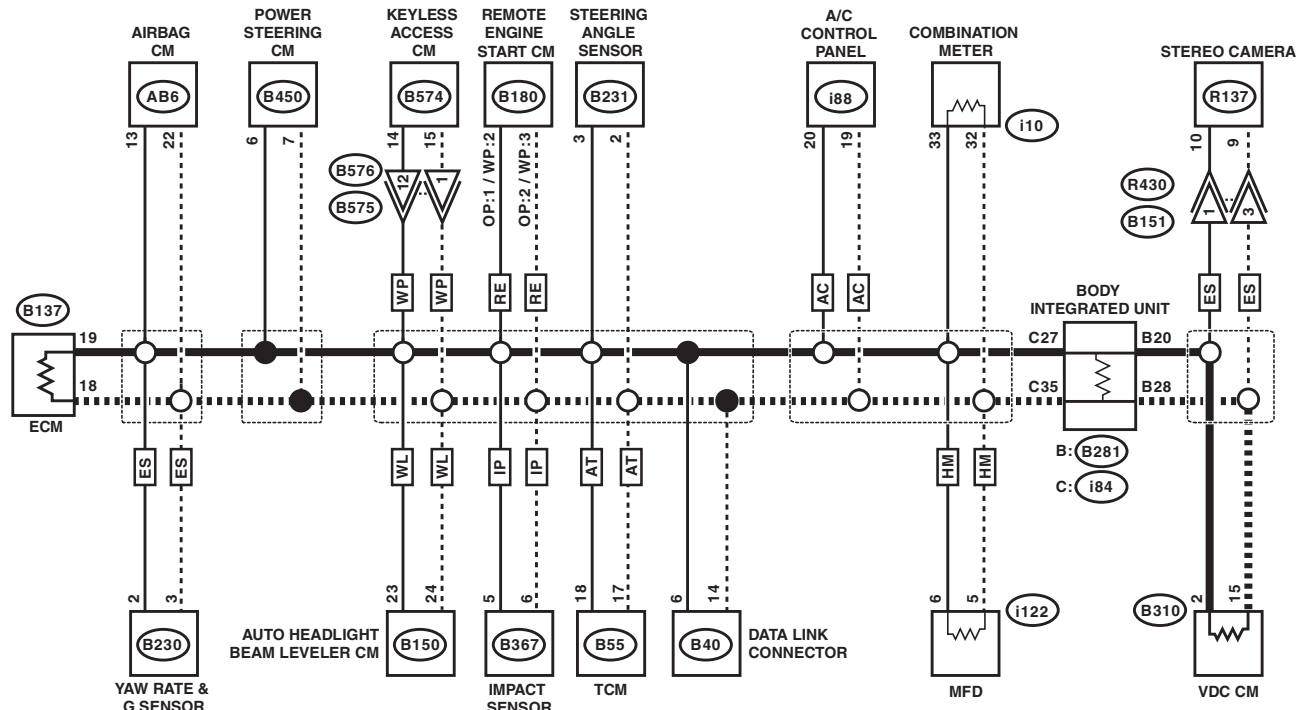
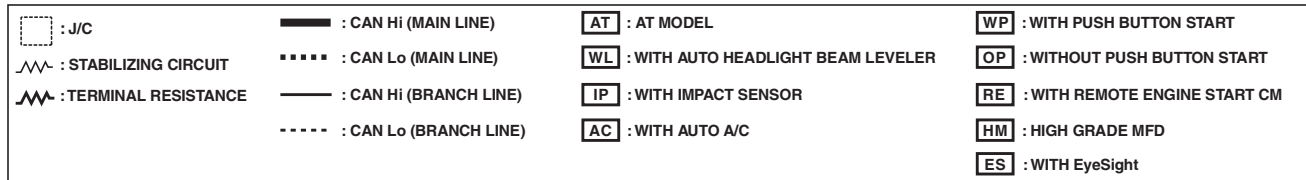
LAN SYSTEM (DIAGNOSTICS)

12.RELATED LINES 53 — 61 Ω (A/B CM)

WIRING DIAGRAM:

CAN communication system <Ref. to WI-96, WIRING DIAGRAM, CAN Communication System.>

- Non-turbo model

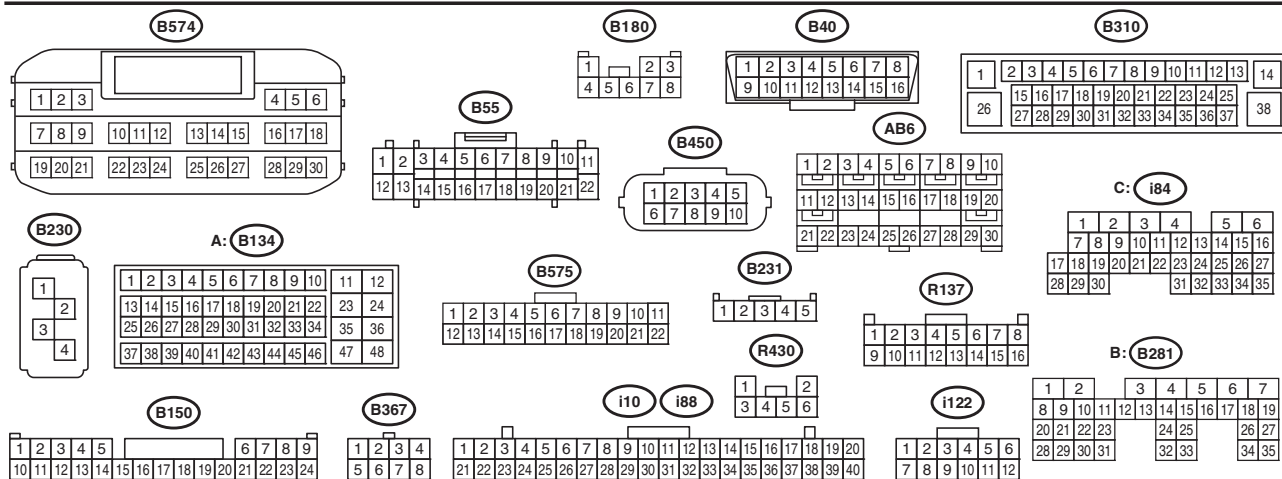
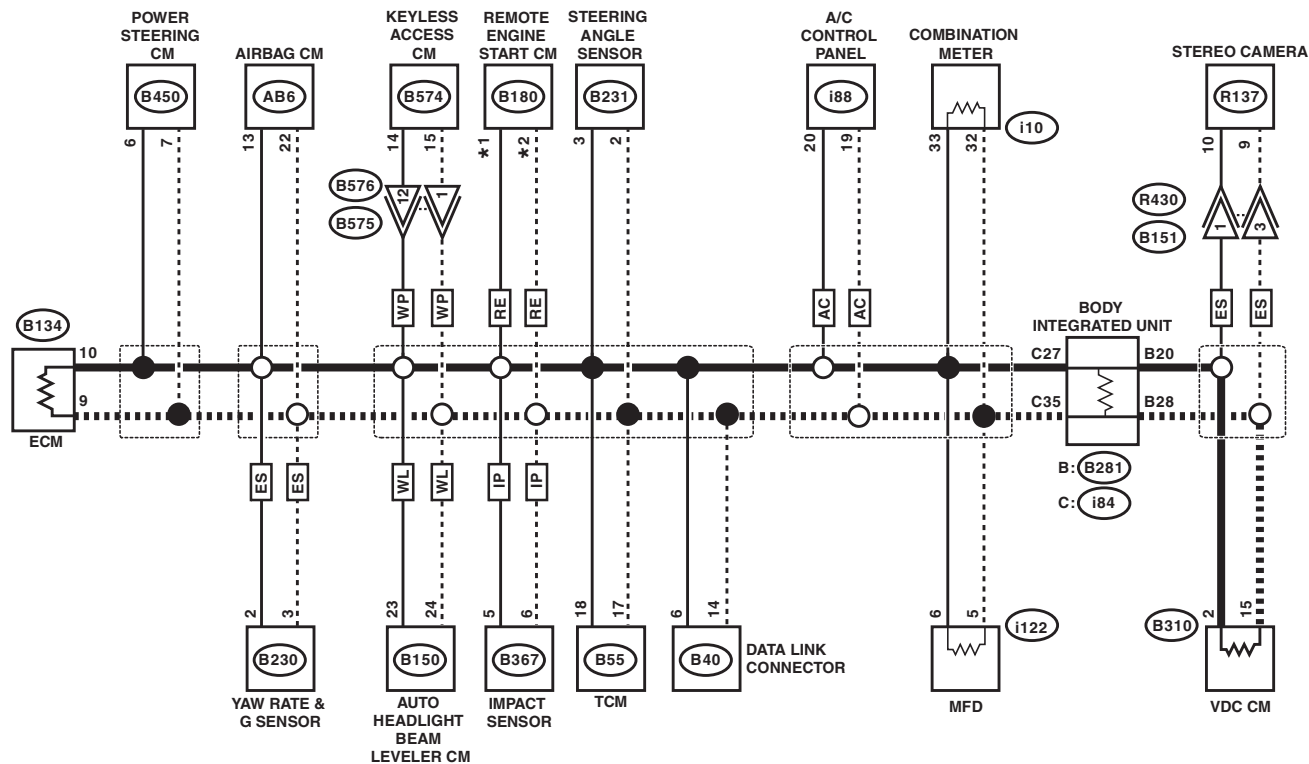
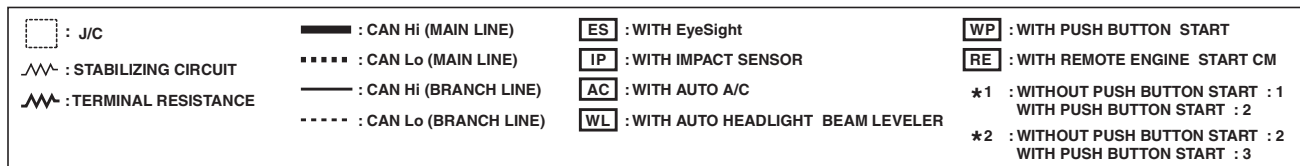


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LAN SYSTEM (DIAGNOSTICS)

• Turbo model



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LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK BETWEEN RELATED LINES AND MAIN WIRING HARNESS. NOTE: For test harness, refer to AIRBAG SYSTEM (DIAGNOSTICS). <Ref. to AB(diag)-4, PREPARATION TOOL, General Description.> 1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more. 2) Remove the instrument panel lower cover and column cover, and disconnect the connectors (AB7) and (AB2). 3) Remove the console front panel and disconnect the connector (AB9). 4) Disconnect the connectors (AB6, AB17, AB18) from airbag control module. 5) Connect the connector (1AH) in the test harness AH to the connectors (AB6, AB17, AB18). 6) Connect the connector (2AH) in the test harness AH and the connector (1AG) in the test harness AG. 7) Using the tester, measure the resistance between terminals. Connector & terminal (2AG) No. 2 — (4AG) No. 2:	Is the resistance 400 Ω or more?	Related lines between A/B CM and main wiring harness is open, or main wiring harness is open at two places or more.	Go to step 2.
2 CHECK RELATED LINES. Using the tester, measure the resistance between terminals. Connector & terminal (2AG) No. 2 — (B40) No. 14: (4AG) No. 2 — (B40) No. 6:	Is the resistance 10 Ω or more?	Repair or replace the open circuit of A/B CM related lines.	Check DTC of A/B CM. <Ref. to AB(diag)-21, OPERATION, Read Diagnostic Trouble Code (DTC).>

CAN Communication Circuit Check

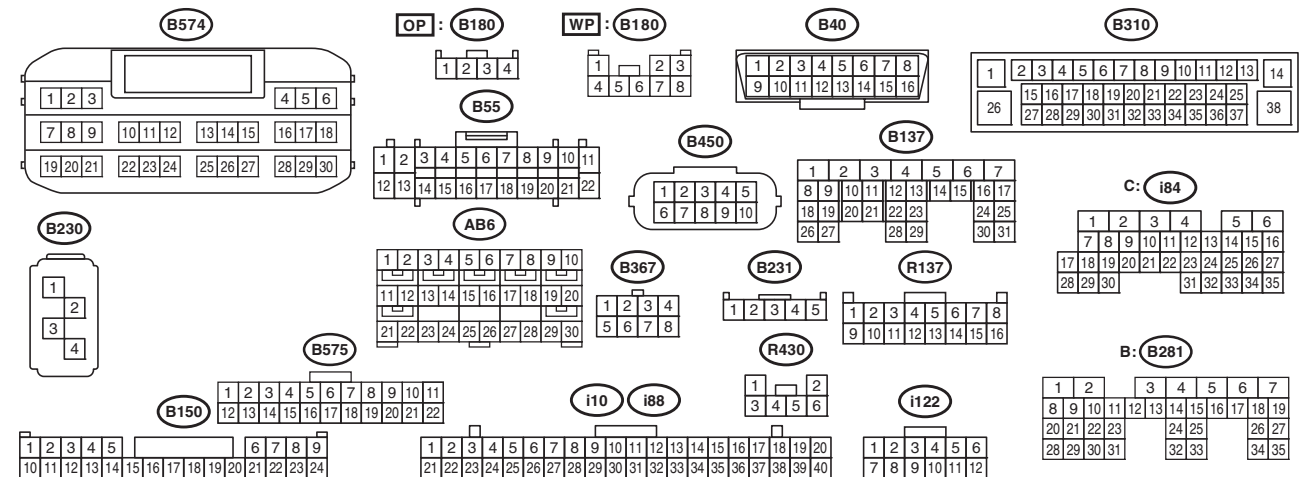
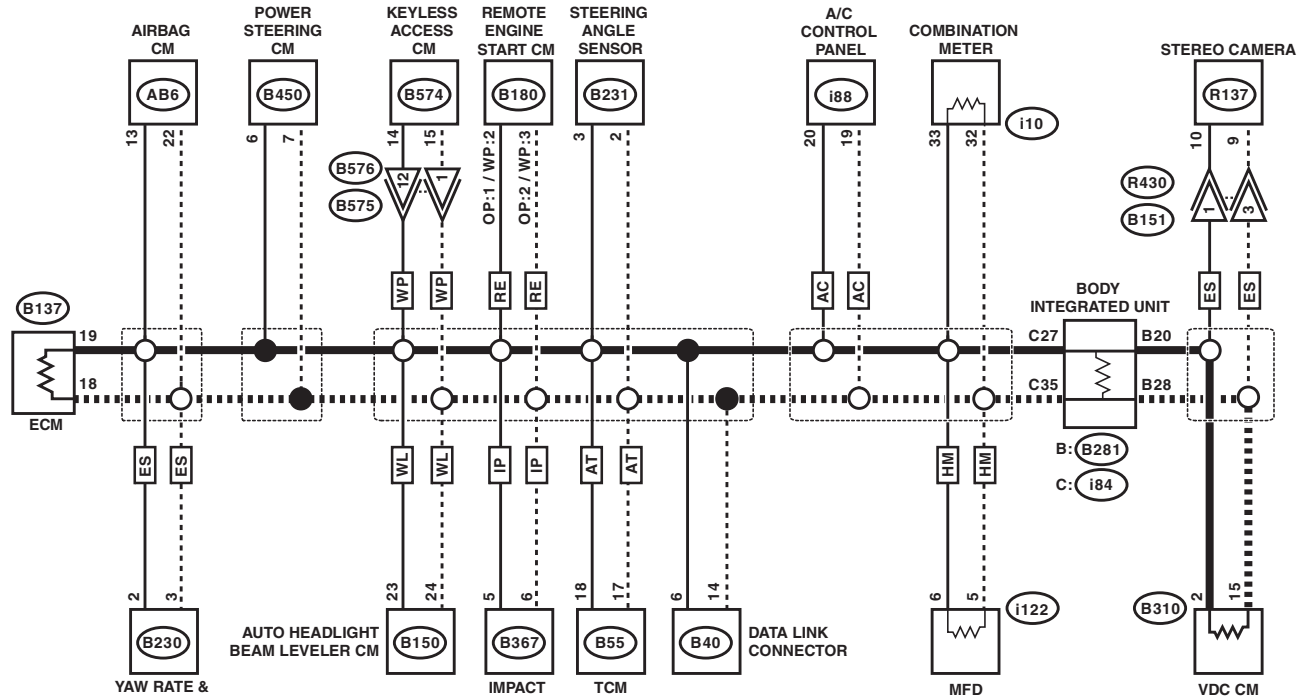
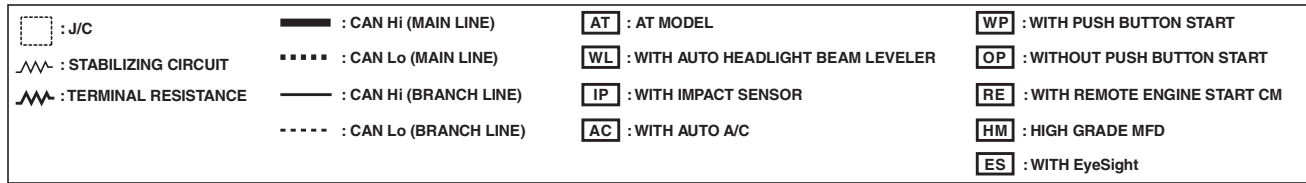
LAN SYSTEM (DIAGNOSTICS)

13.RELATED LINES 53 — 61 Ω (KEYLESS ACCESS SYSTEM)

WIRING DIAGRAM:

CAN communication system <Ref. to WI-96, WIRING DIAGRAM, CAN Communication System.>

- Non-turbo model

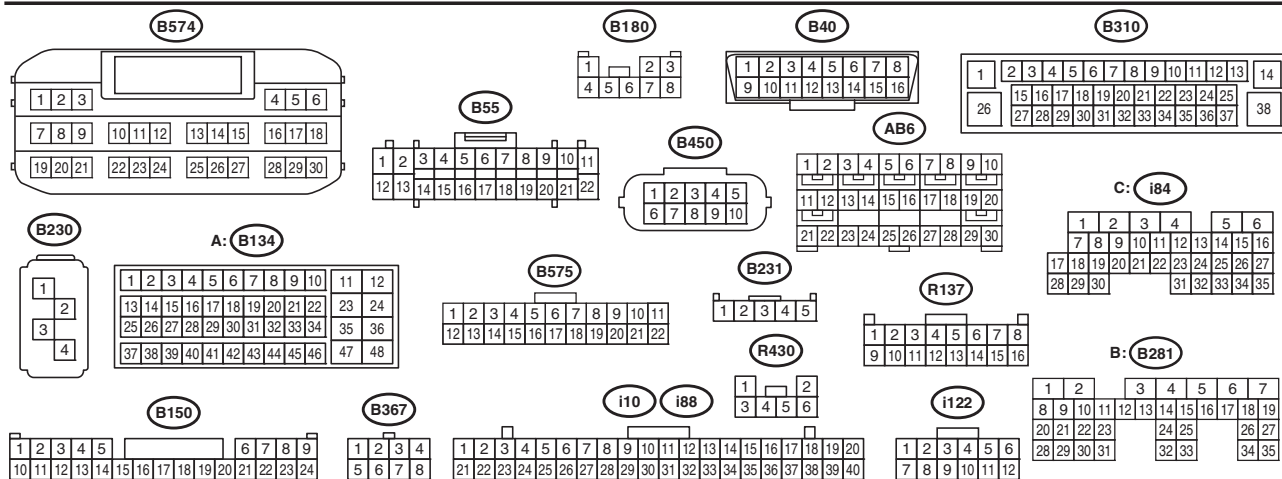
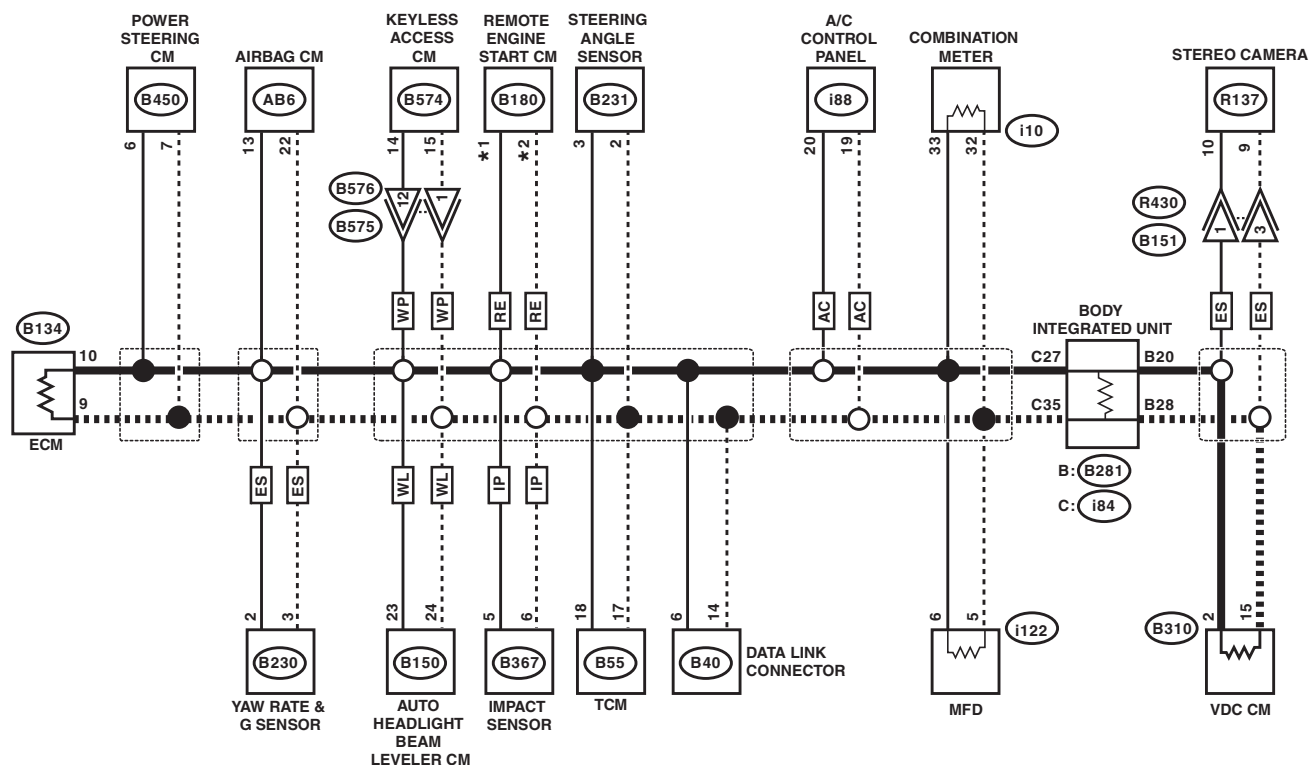
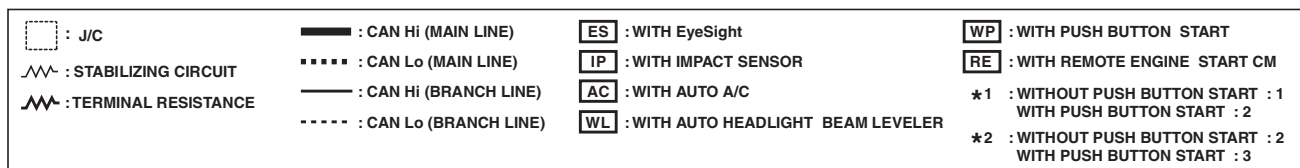


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CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

- Turbo model



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CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK BETWEEN RELATED LINES AND MAIN WIRING HARNESS. 1) Disconnect the keyless access CM connector. 2) Using the tester, measure the resistance between terminals. <i>Connector & terminal</i> <i>(B574) No. 14 — No. 15:</i>	Is the resistance 400 Ω or more?	Related lines between keyless access CM and main wiring harness is open, or main wiring harness is open at two places or more.	Go to step 2.
2 CHECK RELATED LINES. Using the tester, measure the resistance between terminals. <i>Connector & terminal</i> <i>(B574) No. 15 — (B40) No. 14:</i> <i>(B574) No. 14 — (B40) No. 6:</i>	Is the resistance 10 Ω or more?	Repair or replace the open circuit portion of keyless access CM related lines.	Check DTC of keyless access CM. <Ref. to KPS(diag)-21, OPERATION, Read Diagnostic Trouble Code (DTC).>



CAN Communication Circuit Check

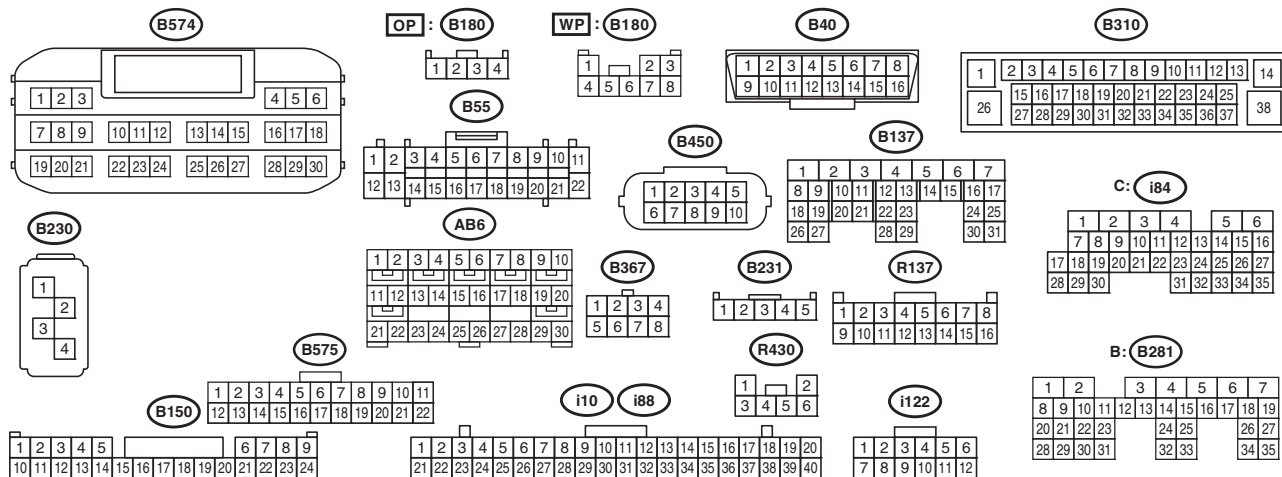
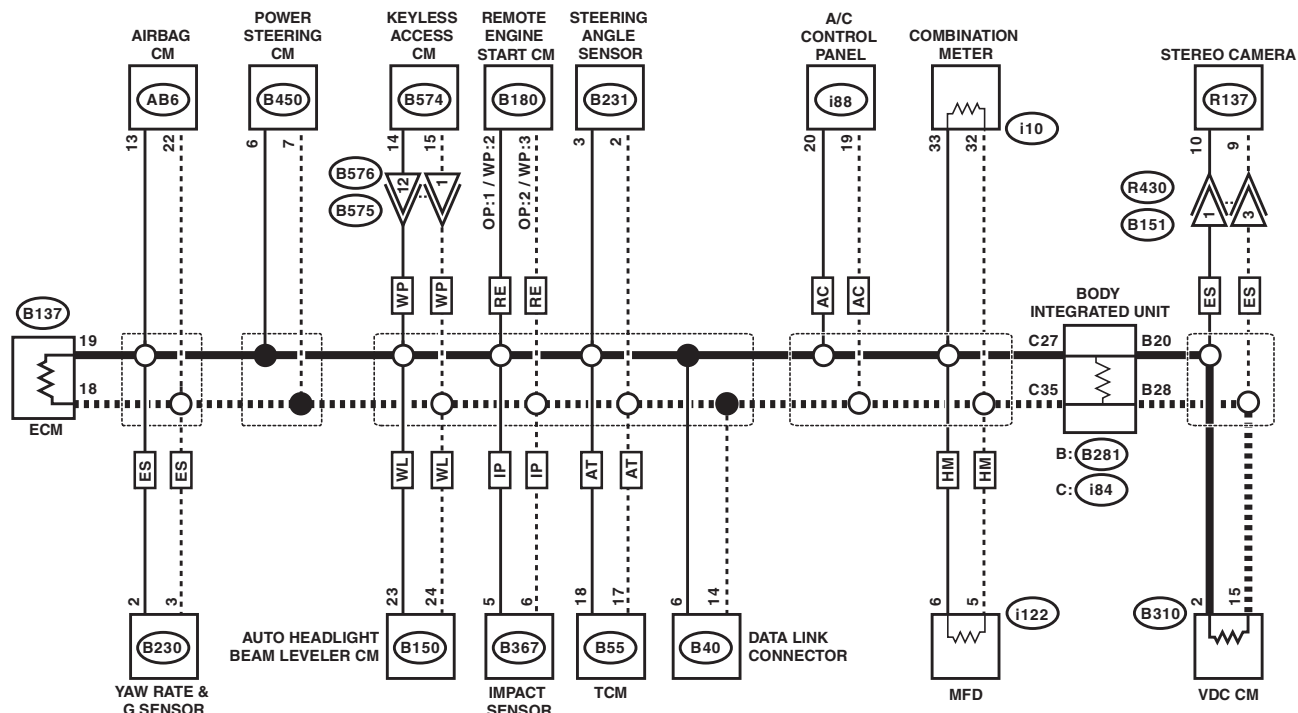
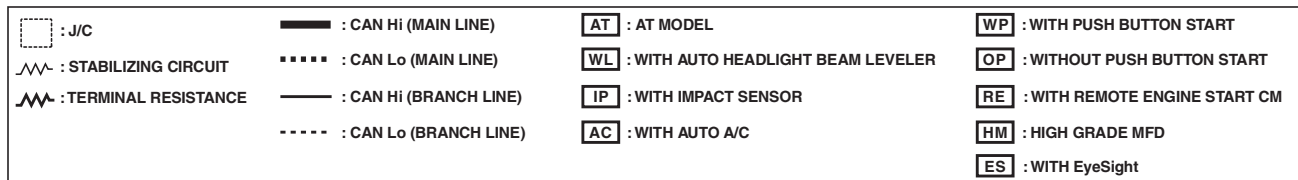
LAN SYSTEM (DIAGNOSTICS)

14.RELATED LINE 53 — 61 Ω (STEREO CAMERA)

WIRING DIAGRAM:

CAN communication system <Ref. to WI-96, WIRING DIAGRAM, CAN Communication System.>

- Non-turbo model

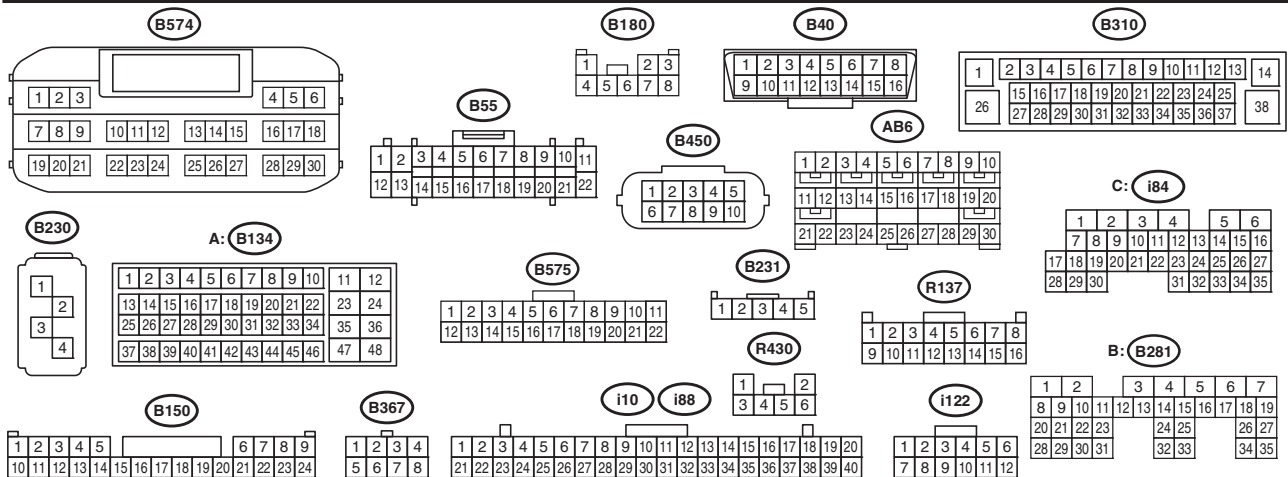
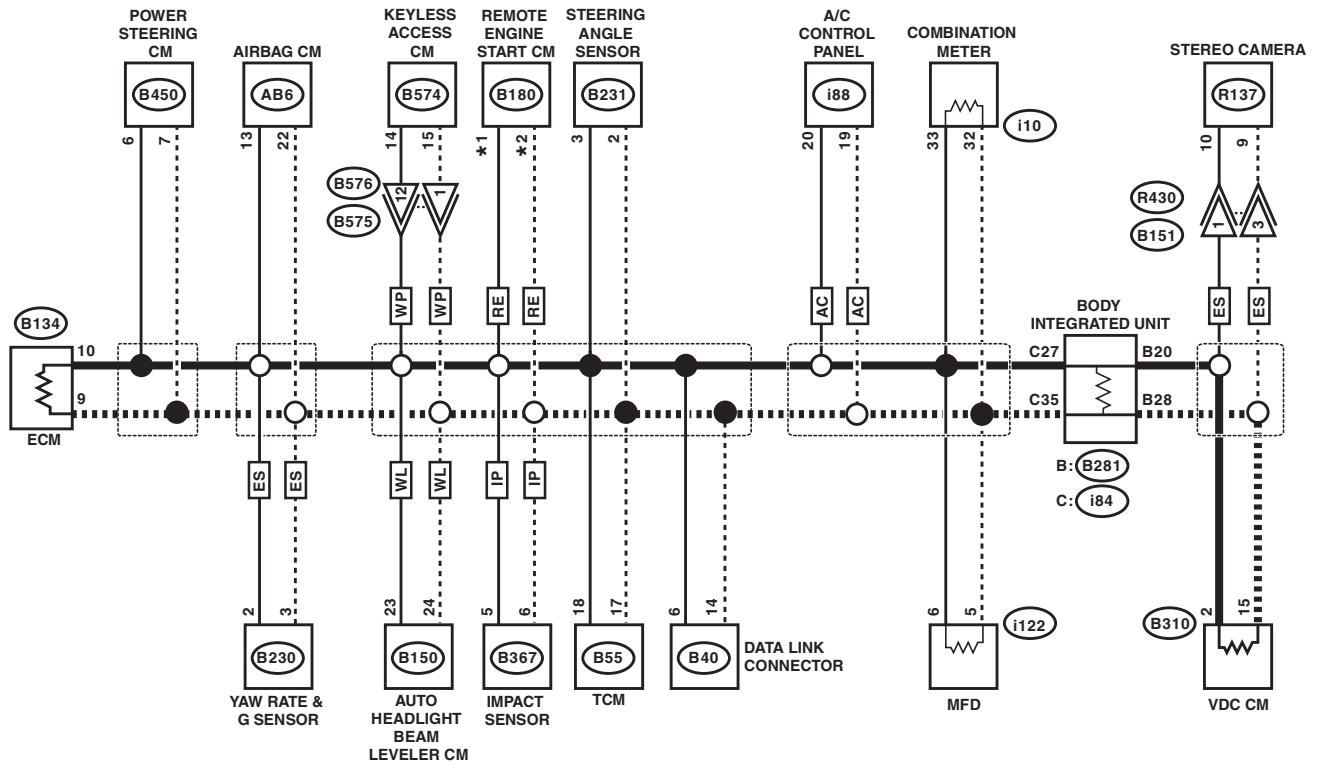
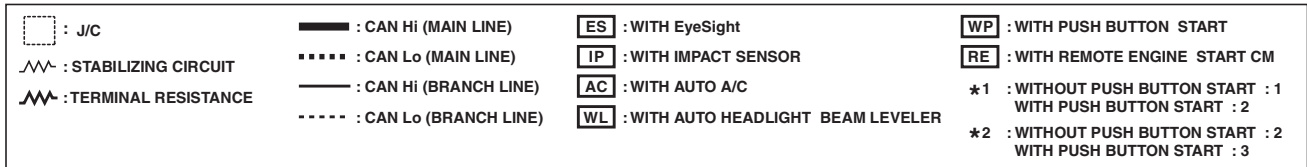


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CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

• Turbo model



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CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK BETWEEN RELATED LINES AND MAIN WIRING HARNESS. 1) Disconnect the stereo camera connector. 2) Using the tester, measure the resistance between terminals. <i>Connector & terminal</i> <i>(R137) No. 10 — No. 9:</i>	Is the resistance 400 Ω or more?	Related lines between stereo camera and main wiring harness is open, or main wiring harness is open at two places or more.	Go to step 2.
2 CHECK RELATED LINES. Using the tester, measure the resistance between terminals. <i>Connector & terminal</i> <i>(R137) No. 9 — (B40) No. 14:</i> <i>(R137) No. 10 — (B40) No. 6:</i>	Is the resistance 10 Ω or more?	Repair or replace the open circuit portion of stereo camera related lines.	Check DTC of stereo camera. <Ref. to ES(diag)-38, OPERATION, Read Diagnostic Trouble Code (DTC).>



CAN Communication Circuit Check

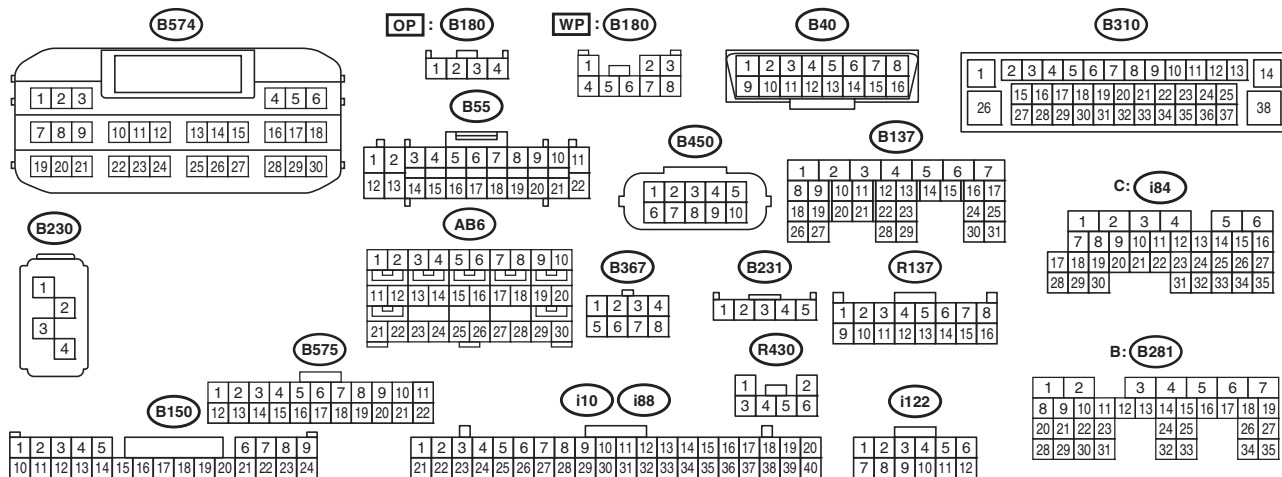
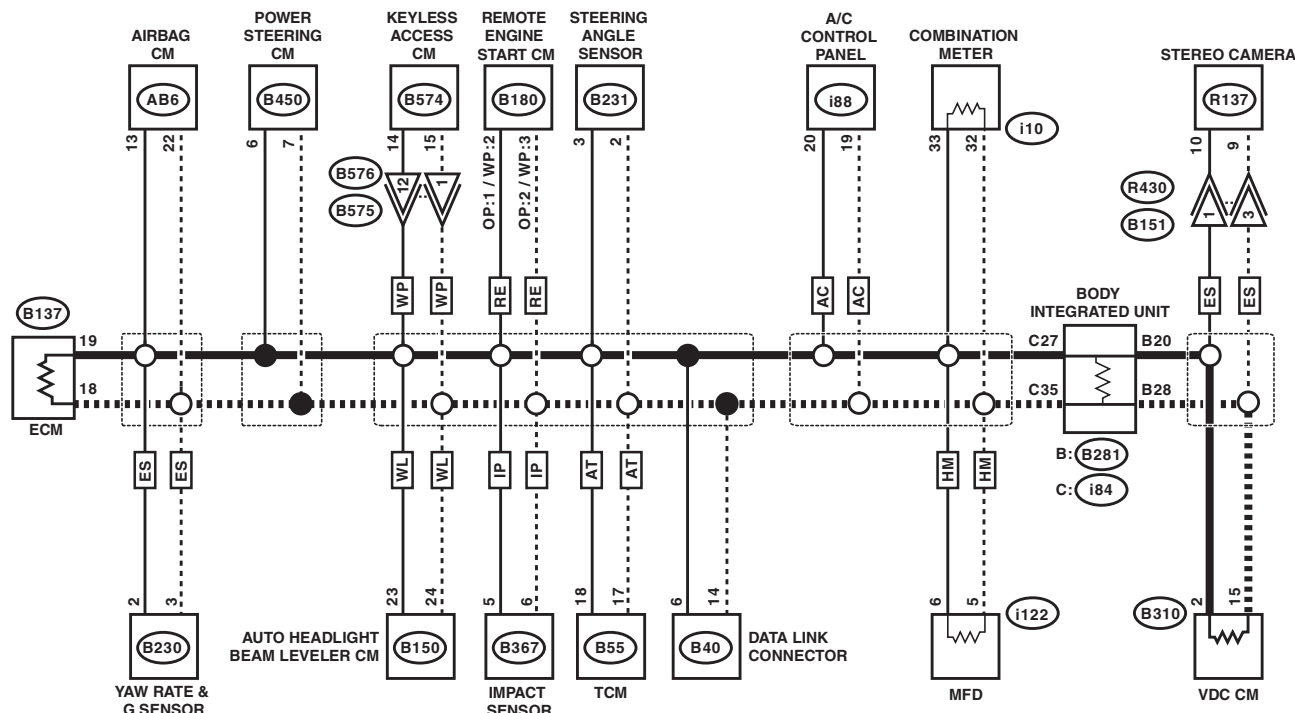
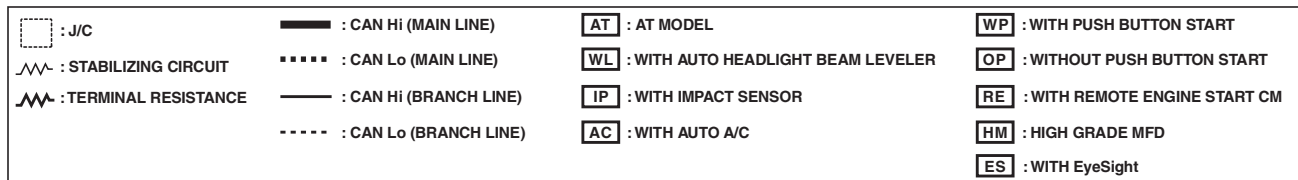
LAN SYSTEM (DIAGNOSTICS)

15.RELATED LINES 53 — 61 Ω (REMOTE ENGINE STARTER)

WIRING DIAGRAM:

CAN communication system <Ref. to WI-96, WIRING DIAGRAM, CAN Communication System.>

- Non-turbo model

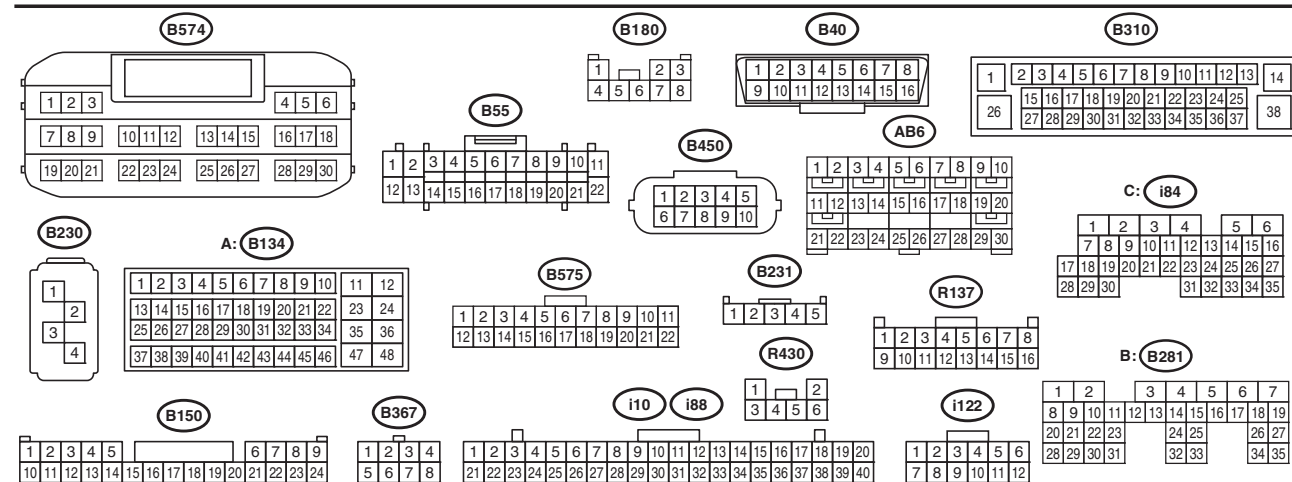
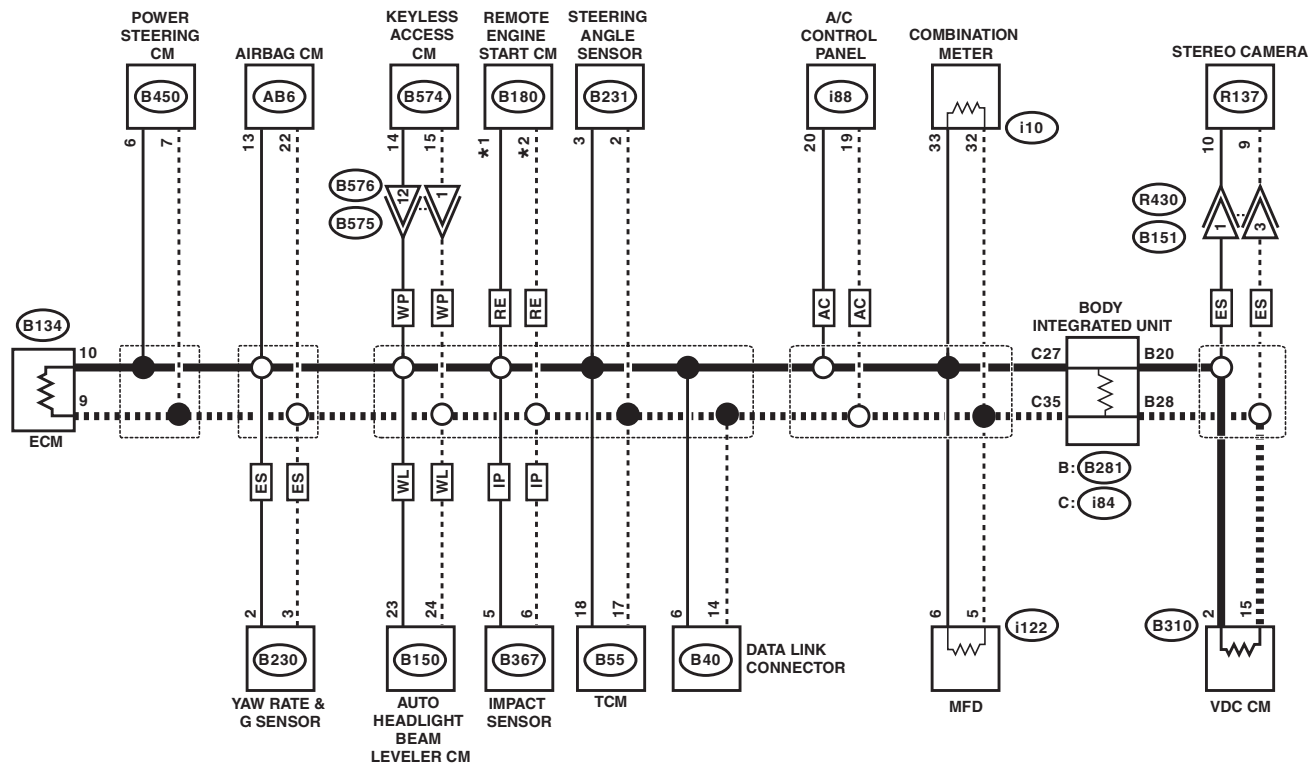
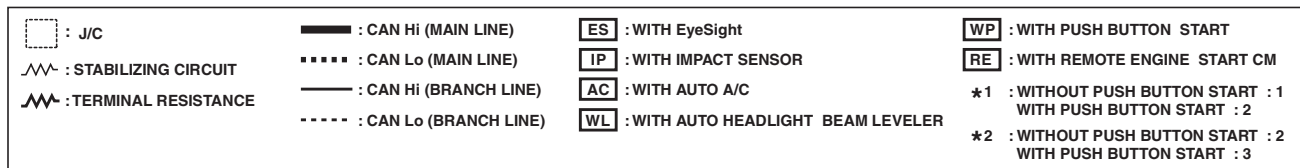


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CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

- Turbo model



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CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

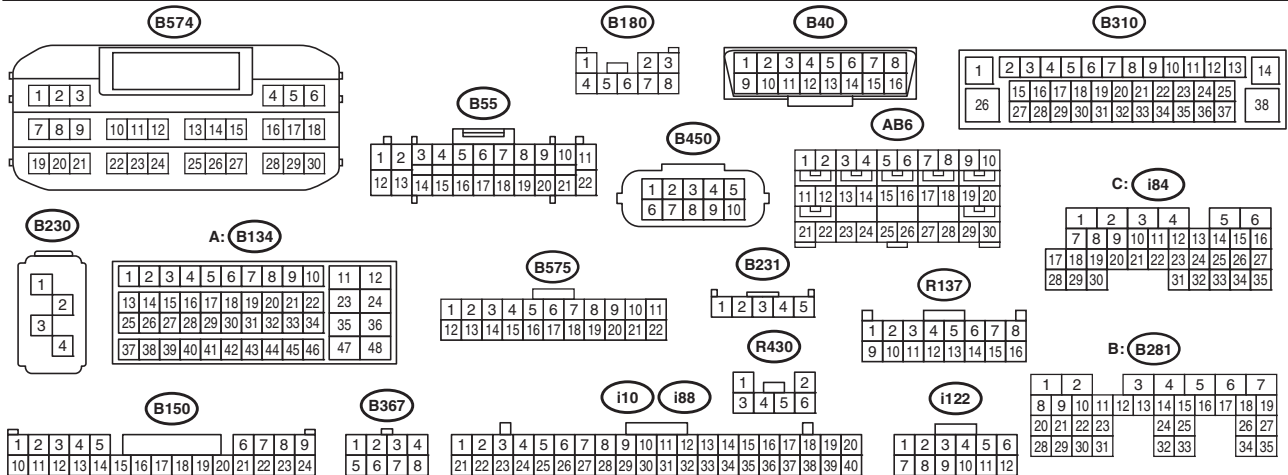
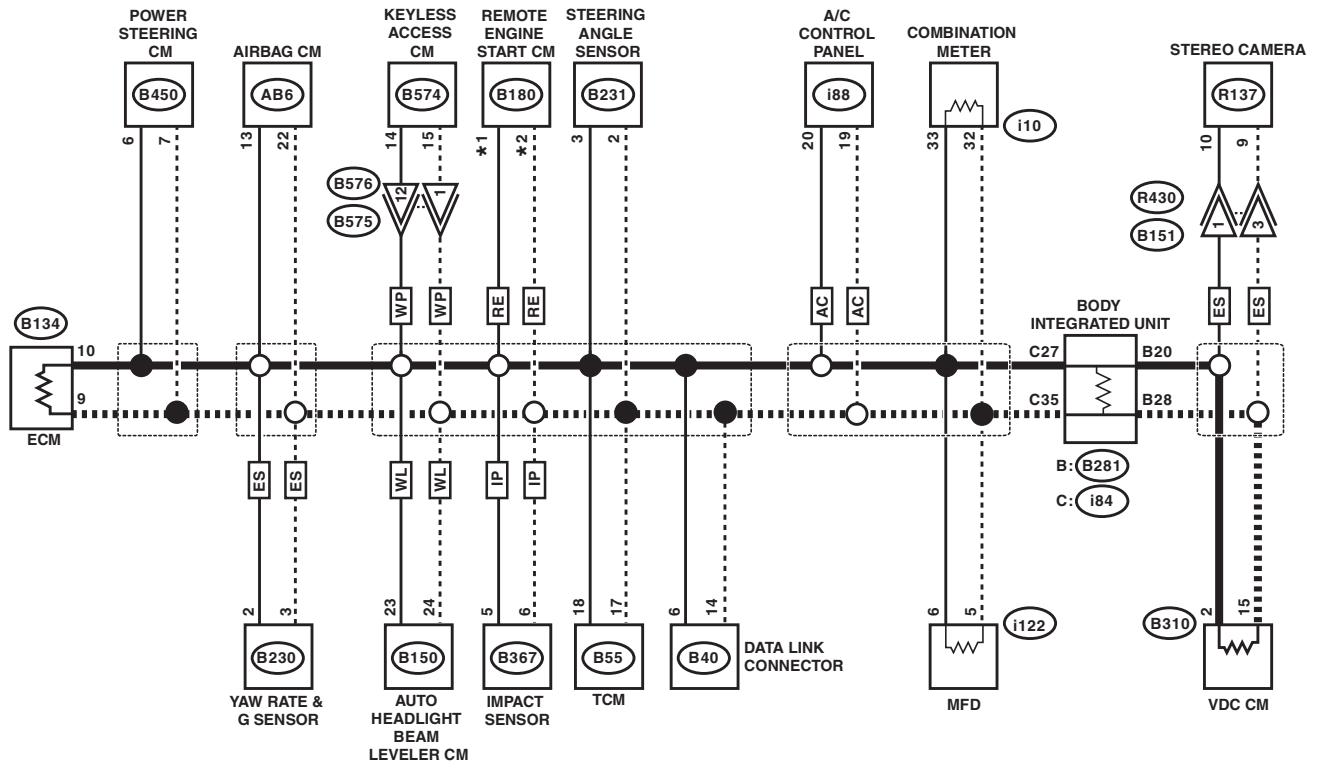
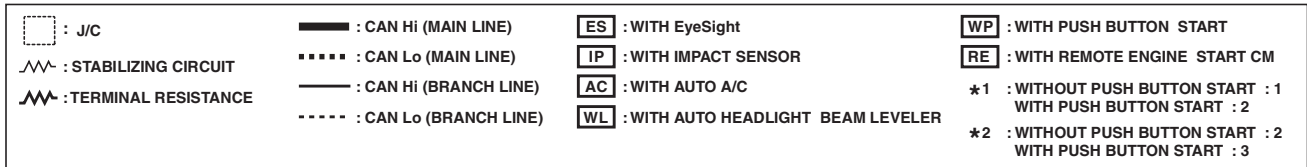
Step	Check	Yes	No
1 CHECK BETWEEN RELATED LINES AND MAIN WIRING HARNESS. 1) Disconnect the remote engine start CM connector. 2) Using the tester, measure the resistance between terminals. <i>Connector & terminal</i> <i>Without push button start</i> <i>(B180) No. 1 — (B180) No. 2:</i> <i>With push button start</i> <i>(B180) No. 2 — (B180) No. 3:</i>	Is the resistance 400 Ω or more?	Related lines between remote engine start CM and main wiring harness is open, or main wiring harness is open at two places or more.	Go to step 2.
2 CHECK RELATED LINES. Using the tester, measure the resistance between terminals. <i>Connector & terminal</i> <i>Without push button start</i> <i>(B180) No. 1 — (B40) No. 6:</i> <i>(B180) No. 2 — (B40) No. 14:</i> <i>With push button start</i> <i>(B180) No. 2 — (B40) No. 6:</i> <i>(B180) No. 3 — (B40) No. 14:</i>	Is the resistance 10 Ω or more?	Repair or replace the open circuit portion of remote engine start CM related lines.	The communication harness is normal. Check the remote engine starter CM or the mobile key.



CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

• Turbo model



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CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

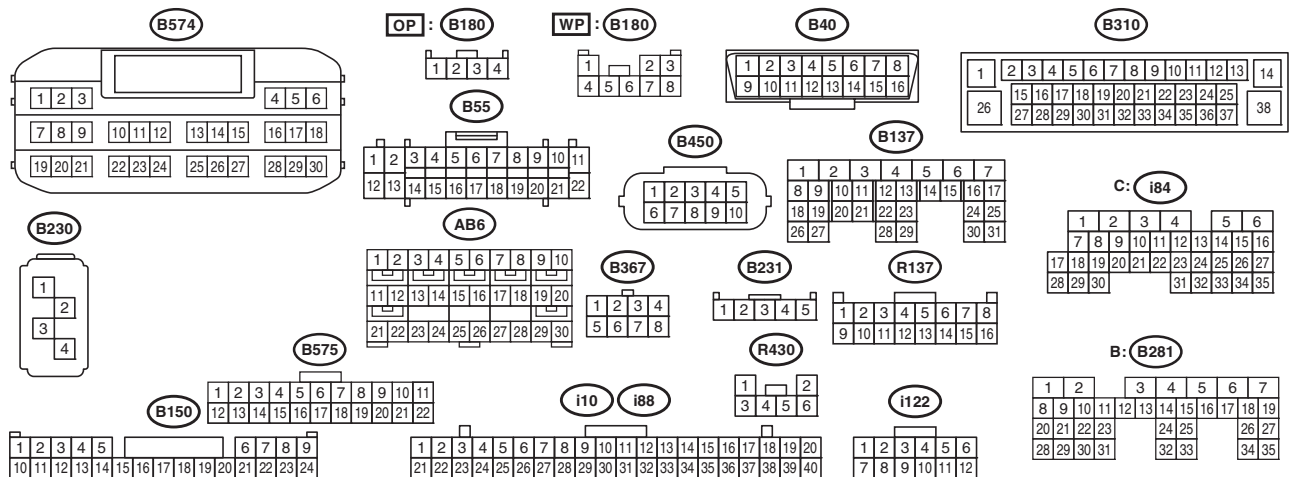
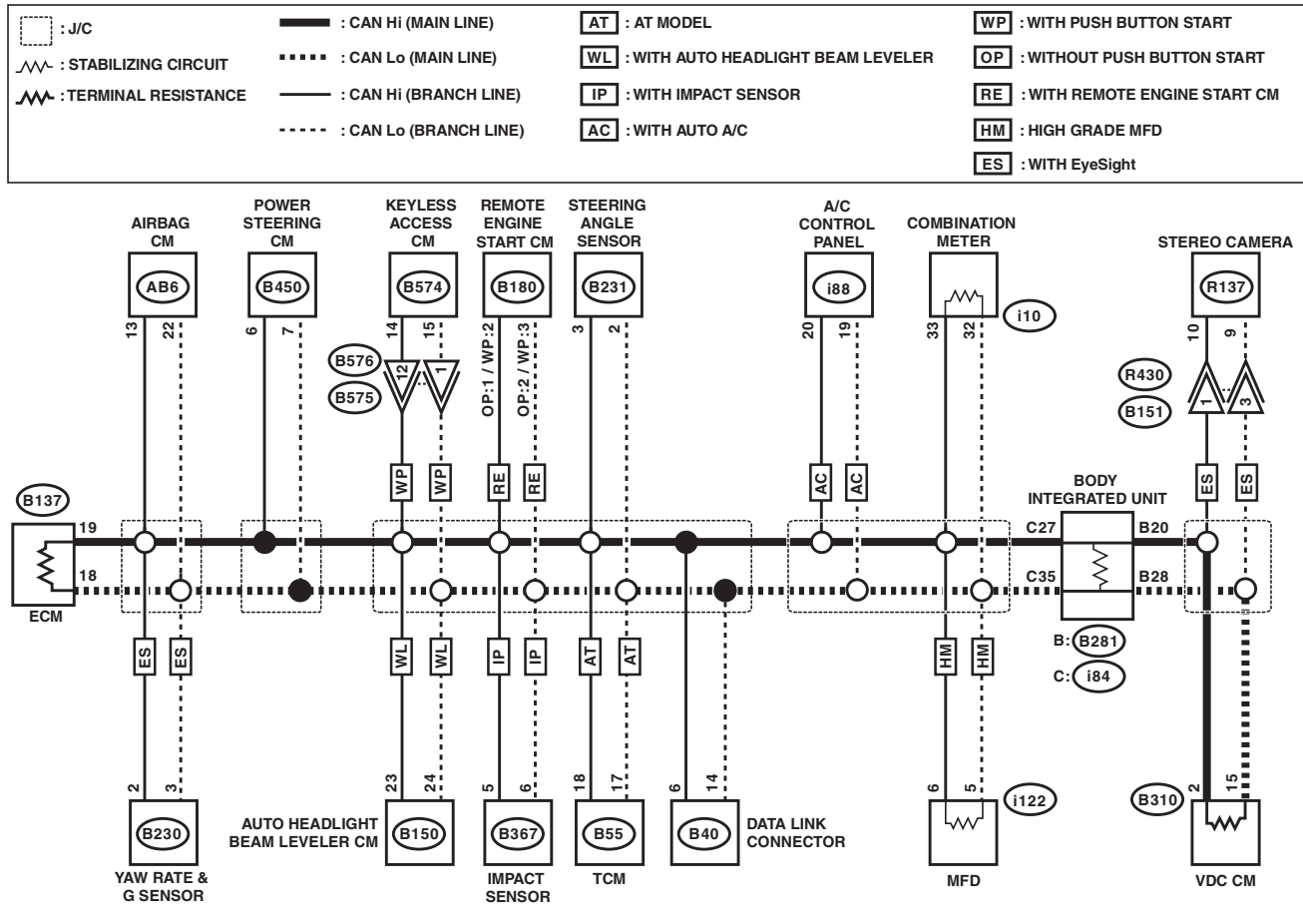
Step	Check	Yes	No
1 CHECK BETWEEN RELATED LINES AND MAIN WIRING HARNESS. 1) Disconnect the headlight beam leveler CM connector. 2) Using the tester, measure the resistance between terminals. <i>Connector & terminal</i> <i>(B150) No. 23 — No. 24:</i>	Is the resistance 400 Ω or more?	Related lines between headlight beam leveler CM and main wiring harness is open, or main wiring harness is open at two places or more.	Go to step 2.
2 CHECK RELATED LINES. Using the tester, measure the resistance between terminals. <i>Connector & terminal</i> <i>(B150) No. 24 — (B40) No. 14:</i> <i>(B150) No. 23 — (B40) No. 6:</i>	Is the resistance 10 Ω or more?	Repair or replace the open circuit portion of headlight beam leveler CM related lines.	Check DTC of headlight beam leveler system.

17.RELATED LINES 53 — 61 Ω (IMPACT SENSOR SYSTEM)

WIRING DIAGRAM:

CAN communication system <Ref. to WI-96, WIRING DIAGRAM, CAN Communication System.>

- Non-turbo model

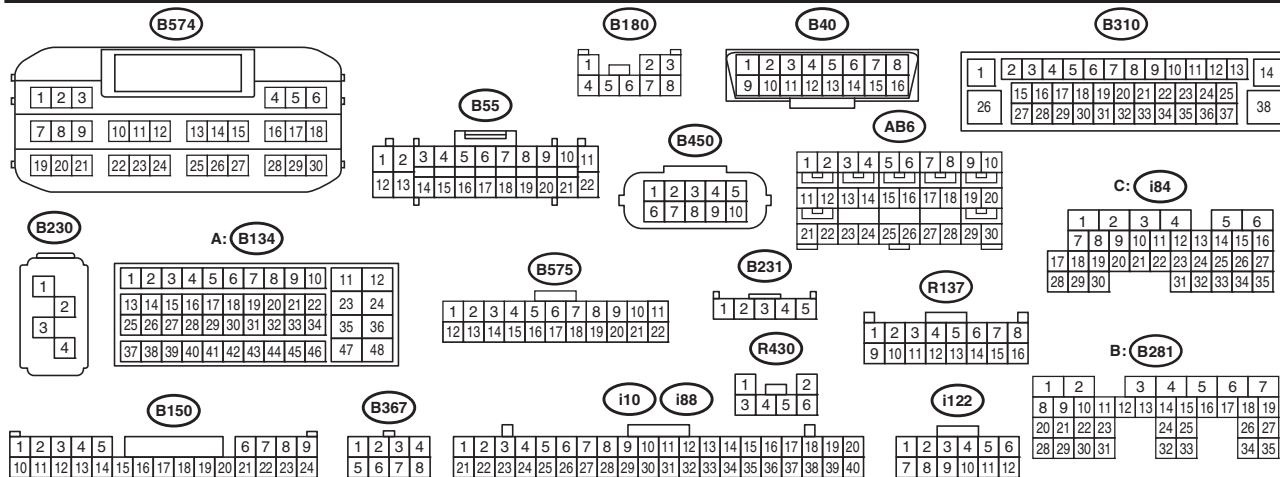
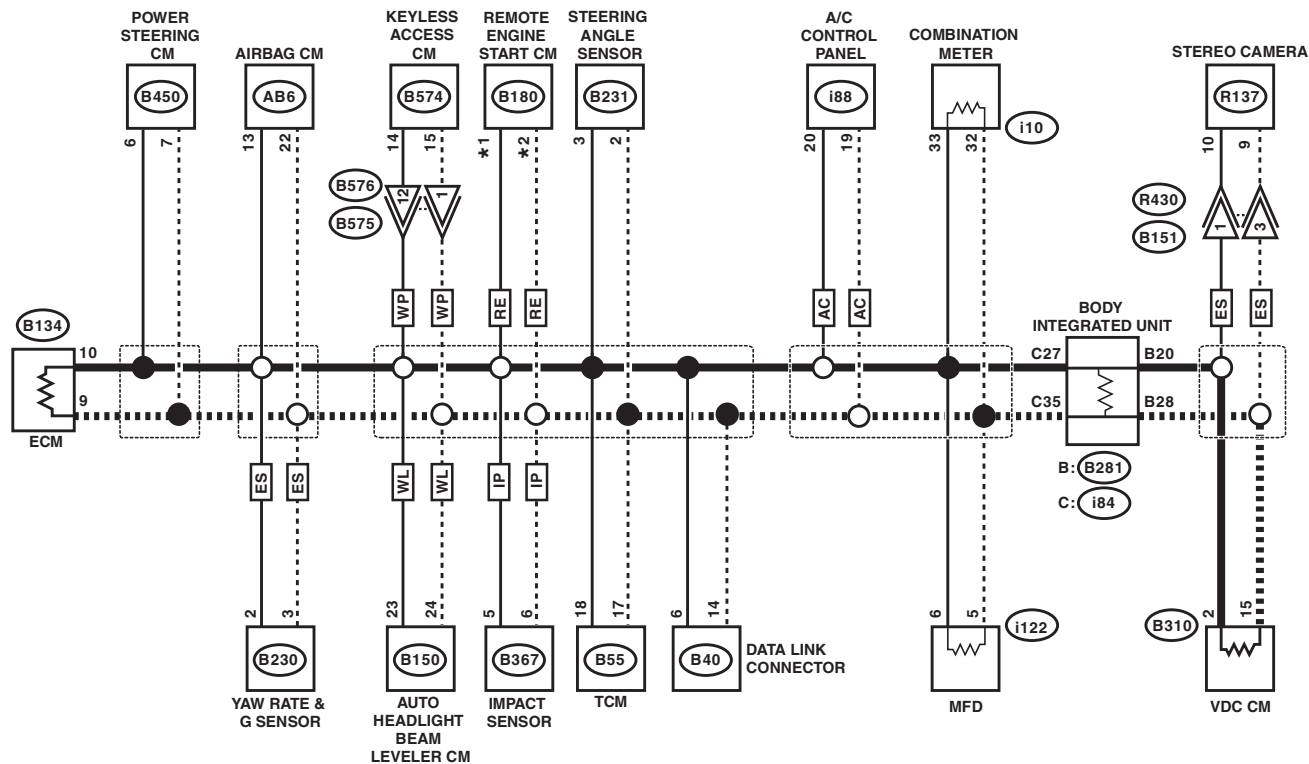
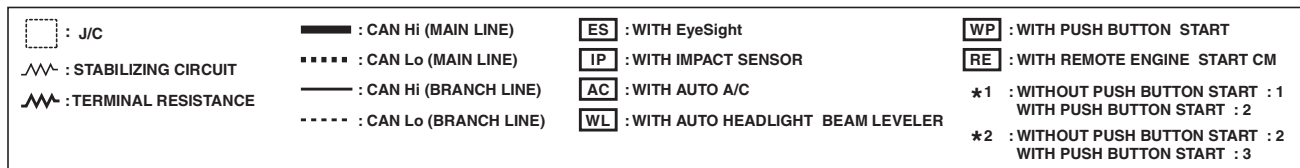


LAN01285

CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

- Turbo model



LAN01286

CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK BETWEEN RELATED LINES AND MAIN WIRING HARNESS. 1) Disconnect the impact sensor connector. 2) Using the tester, measure the resistance between terminals. <i>Connector & terminal</i> <i>(B367) No. 5 — No. 6:</i>	Is the resistance 400 Ω or more?	Related lines between the impact sensor and main wiring harness is open, or main wiring harness is open at two places or more.	Go to step 2.
2 CHECK RELATED LINES. Using the tester, measure the resistance between terminals. <i>Connector & terminal</i> <i>(B367) No. 6 — (B40) No. 14:</i> <i>(B367) No. 5 — (B40) No. 6:</i>	Is the resistance 10 Ω or more?	Repair or replace the open circuit of the impact sensor system related lines.	The communication harness is normal. Check the impact sensor.



CAN Communication Circuit Check

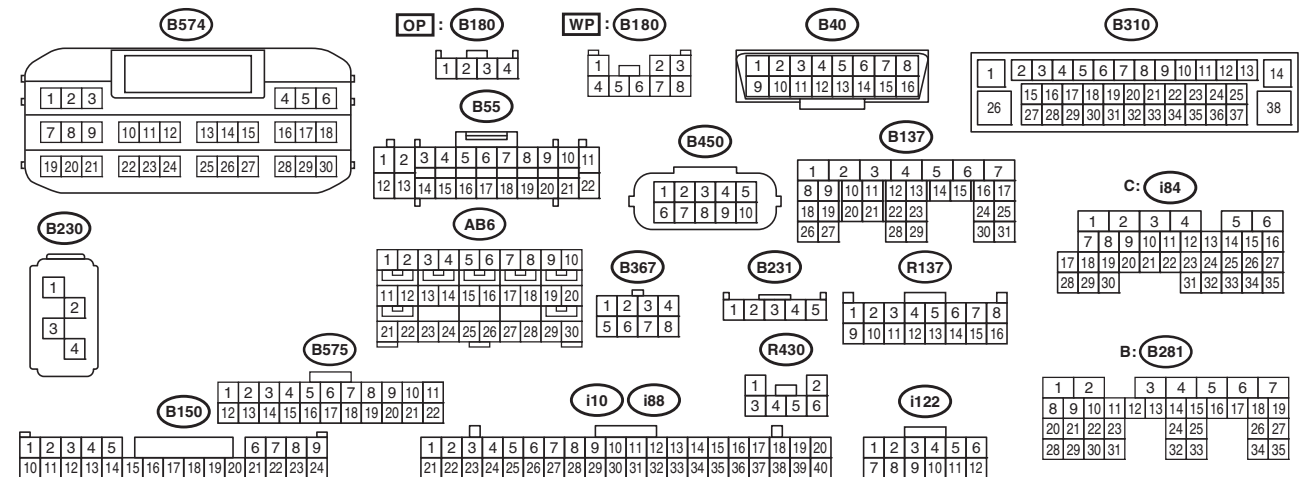
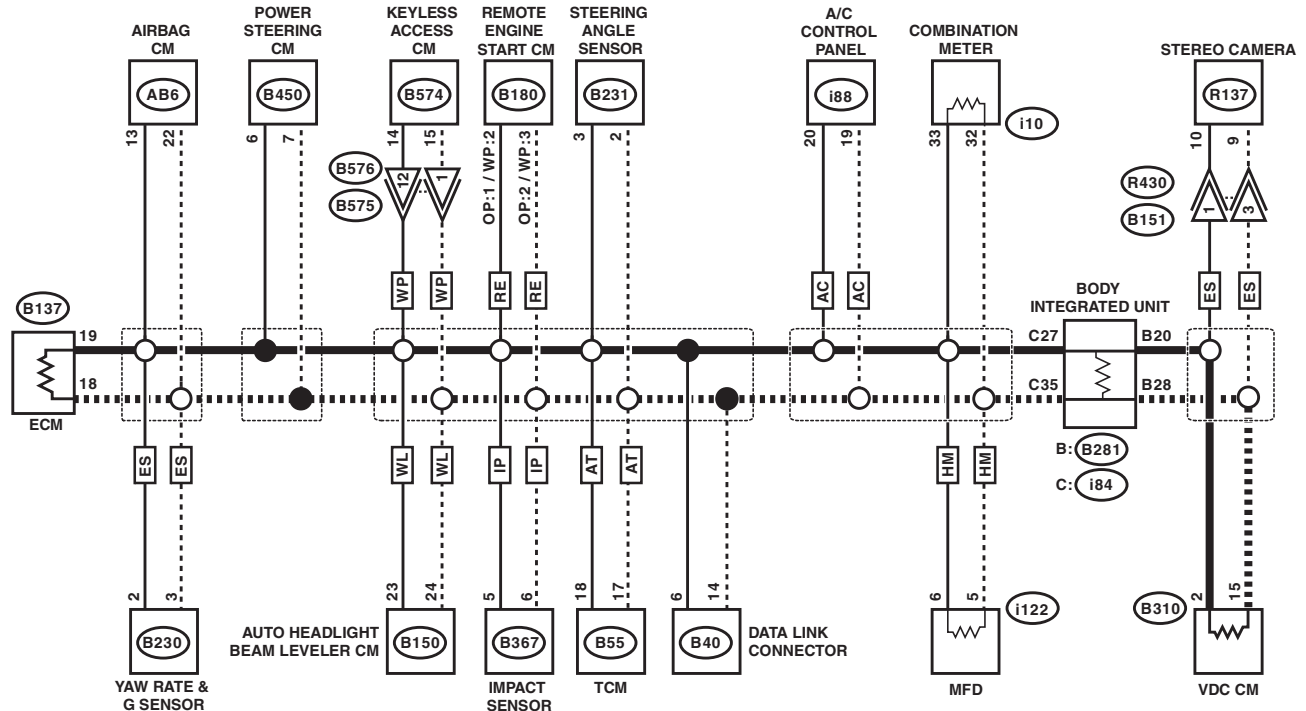
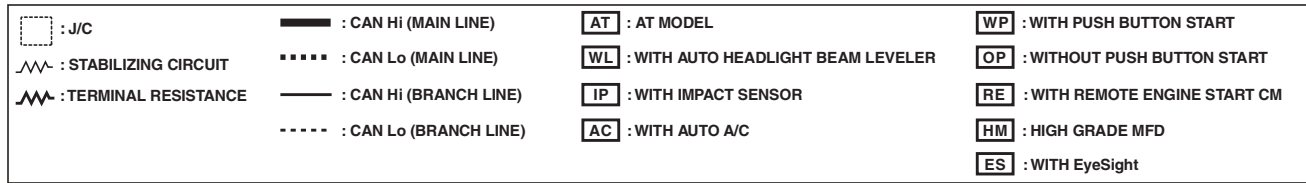
LAN SYSTEM (DIAGNOSTICS)

18.RELATED LINE 53 — 61 Ω (YAW RATE & G SENSOR)

WIRING DIAGRAM:

CAN communication system <Ref. to WI-96, WIRING DIAGRAM, CAN Communication System.>

- Non-turbo model

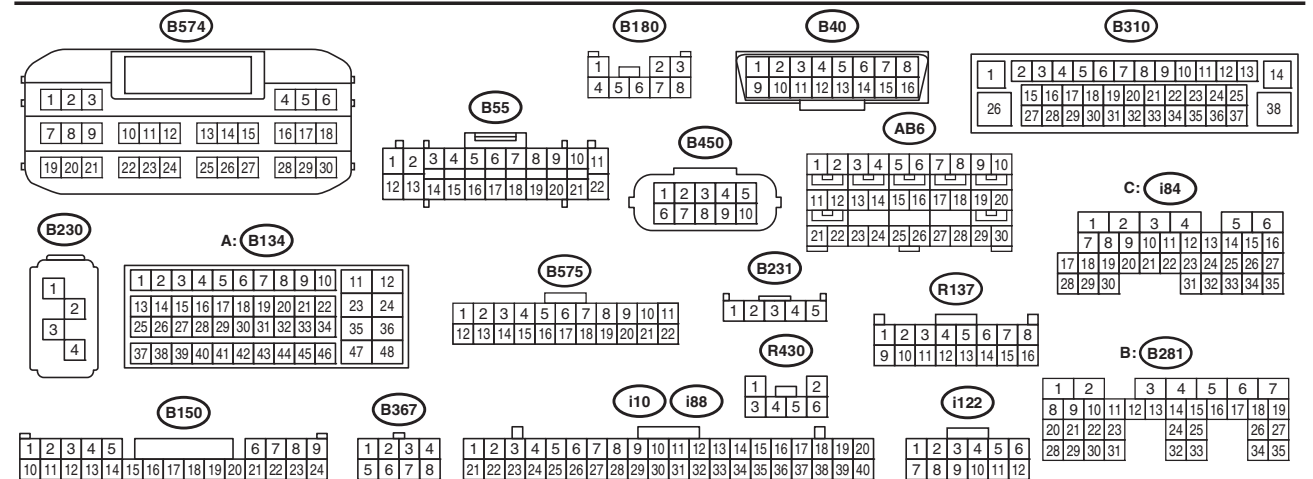
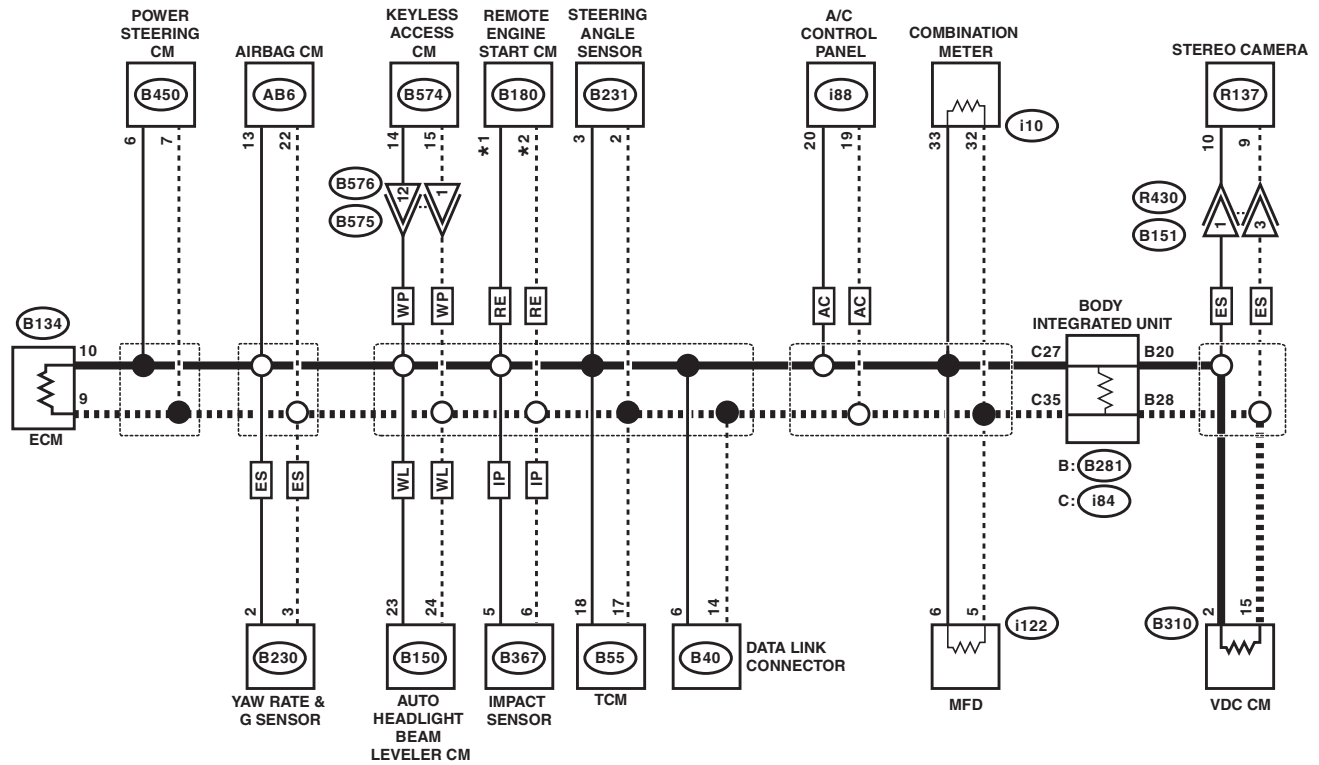
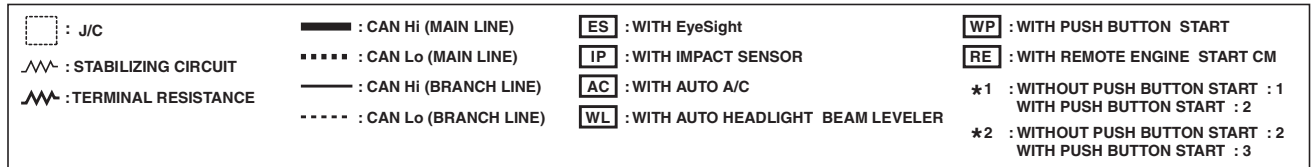


LAN01285

CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

• Turbo model



LAN01286



CAN Communication Circuit Check

LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK BETWEEN RELATED LINES AND MAIN WIRING HARNESS. 1) Disconnect the yaw rate & G sensor connector. 2) Using the tester, measure the resistance between terminals. <i>Connector & terminal</i> <i>(B230) No. 2 — No. 3:</i>	Is the resistance 400 Ω or more?	Related lines between yaw rate & G sensor and main wiring harness is open, or main wiring harness is open at two places or more.	Go to step 2.
2 CHECK RELATED LINES. Using the tester, measure the resistance between terminals. <i>Connector & terminal</i> <i>(B230) No. 3 — (B40) No. 14:</i> <i>(B230) No. 2 — (B40) No. 6:</i>	Is the resistance 10 Ω or more?	Repair or replace the open circuit portion of yaw rate & G sensor related lines.	Check DTC of VDC system.

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

10. List of Diagnostic Trouble Code (DTC)

A: LIST

DTC	Item	Content of diagnosis	Note
U1201	CAN-HS Counter Abnormal	High speed CAN communication error	<Ref. to LAN(diag)-162, DTC U1201 CAN-HS COUNTER ABNORMAL, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U0073	Control Module Communication Bus "A" Off	Communication of some module is shut down.	<Ref. to LAN(diag)-163, DTC U0073 CONTROL MODULE COMMUNICATION BUS "A" OFF, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U0401	Invalid Data Received From ECM/PCM "A"	Error data is received from ECM.	<Ref. to LAN(diag)-164, DTC U0401 INVALID DATA RECEIVED FROM ECM/PCM "A", Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U0402	Invalid Data Received From TCM	Error data is received from TCM.	<Ref. to LAN(diag)-165, DTC U0402 INVALID DATA RECEIVED FROM TCM, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U0416	Invalid Data Received From Vehicle Dynamics Control Module	Error data is received from VDC module.	<Ref. to LAN(diag)-166, DTC U0416 INVALID DATA RECEIVED FROM VEHICLE DYNAMICS CONTROL MODULE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U0420	Invalid Data Received From Power Steering Control Module	Error data is received from EPS module.	<Ref. to LAN(diag)-167, DTC U0420 INVALID DATA RECEIVED FROM POWER STEERING CONTROL MODULE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U0422	Invalid Data Received From Body Control Module	Error data is received from body integrated unit.	<Ref. to LAN(diag)-168, DTC U0422 INVALID DATA RECEIVED FROM BODY CONTROL MODULE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U0423	Invalid Data Received From Instrument Panel Cluster Control Module	Error data is received from meter.	<Ref. to LAN(diag)-169, DTC U0423 INVALID DATA RECEIVED FROM INSTRUMENT PANEL CLUSTER CONTROL MODULE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U0424	Invalid Data Received From HVAC Control Module	Error data is received from A/C control panel.	<Ref. to LAN(diag)-170, DTC U0424 INVALID DATA RECEIVED FROM HVAC CONTROL MODULE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U0427	Invalid Data Received From Vehicle Security Control Module	Error data is received from keyless access CM.	<Ref. to LAN(diag)-171, DTC U0427 INVALID DATA RECEIVED FROM VEHICLE SECURITY CONTROL MODULE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U0428	Invalid Data Received From Steering Angle Sensor Module	Error data is received from steering angle sensor.	<Ref. to LAN(diag)-172, DTC U0428 INVALID DATA RECEIVED FROM STEERING ANGLE SENSOR MODULE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U0452	Invalid Data Received From Restraints Control Module	Error data is received from airbag module.	<Ref. to LAN(diag)-173, DTC U0452 INVALID DATA RECEIVED FROM RESTRAINTS CONTROL MODULE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U0513	Invalid Data Received from Yaw Rate Sensor Module	Error data is received from yaw rate & G sensor.	<Ref. to LAN(diag)-174, DTC U0513 INVALID DATA RECEIVED FROM YAW RATE SENSOR MODULE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U0100	Lost Communication With ECM/PCM "A"	Data does not arrive from ECM.	<Ref. to LAN(diag)-176, DTC U0100 LOST COMMUNICATION WITH ECM/PCM "A", Diagnostic Procedure with Diagnostic Trouble Code (DTC).>



List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

DTC	Item	Content of diagnosis	Note
U0101	Lost Communication With TCM	Data does not arrive from TCM.	<Ref. to LAN(diag)-177, DTC U0101 LOST COMMUNICATION WITH TCM, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U0122	Lost Communication With Vehicle Dynamics Control Module	Data does not arrive from VDC module.	<Ref. to LAN(diag)-178, DTC U0122 LOST COMMUNICATION WITH VEHICLE DYNAMICS CONTROL MODULE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U0123	Lost Communication with Yaw Rate Sensor Module	Data does not arrive from yaw rate & G sensor.	<Ref. to LAN(diag)-179, DTC U0123 LOST COMMUNICATION WITH YAW RATE SENSOR MODULE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U0126	Lost Communication With Steering Angle Sensor Module	Data does not arrive from steering angle sensor.	<Ref. to LAN(diag)-180, DTC U0126 LOST COMMUNICATION WITH STEERING ANGLE SENSOR MODULE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U0131	Lost Communication With Power Steering Control Module	Data does not arrive from EPS module.	<Ref. to LAN(diag)-181, DTC U0131 LOST COMMUNICATION WITH POWER STEERING CONTROL MODULE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U0140	Lost Communication With Body Control Module	Data does not arrive from body integrated unit.	<Ref. to LAN(diag)-182, DTC U0140 LOST COMMUNICATION WITH BODY CONTROL MODULE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U0151	Lost Communication With Restraints Control Module	Data does not arrive from airbag module.	<Ref. to LAN(diag)-183, DTC U0151 LOST COMMUNICATION WITH RESTRAINTS CONTROL MODULE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U0155	Lost Communication With Instrument Panel Cluster (IPC) Control Module	Data does not arrive from meter.	<Ref. to LAN(diag)-184, DTC U0155 LOST COMMUNICATION WITH INSTRUMENT PANEL CLUSTER (IPC) CONTROL MODULE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U0164	Lost Communication With HVAC Control Module	Data does not arrive from A/C control panel.	<Ref. to LAN(diag)-185, DTC U0164 LOST COMMUNICATION WITH HVAC CONTROL MODULE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U0327	Software Incompatibility With Vehicle Security Control Module	Data does not arrive from keyless access CM.	<Ref. to LAN(diag)-186, DTC U0327 SOFTWARE INCOMPATIBILITY WITH VEHICLE SECURITY CONTROL MODULE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U1235	Lost Communication With EyeSight	Data does not arrive from stereo camera.	<Ref. to LAN(diag)-187, DTC U1235 LOST COMMUNICATION WITH EyeSight, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U1433	Invalid Data Received From EyeSight	Error data is received from stereo camera.	<Ref. to LAN(diag)-175, DTC U1433 INVALID DATA RECEIVED FROM EyeSight, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U1602	Lost Communication with Power Rear Gate Control Module	Communication error occurred with power rear gate.	<Ref. to LAN(diag)-188, DTC U1602 LOST COMMUNICATION WITH POWER REAR GATE CONTROL MODULE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

1. CHECK USING THE DTC CHECK SHEET

DTC check sheet

- For "BUS OFF" or "NO-RECEIVE DATA" entry

	(A)	(B)	(C)															
			VDC	CAM	BIU	MET	MFD	A/C	STR	TCM	RST	IMP	KPS	HL	EPS	A/B	Y&G	ECM
			U0073	U0122	U1235	U0140	U0155	U0156	U0164	U0126	U0101	—	—	U0327	—	U0131	U0151	U0123
VDC			—			—	—	—			—	—	—	—	—	—		
CAM				—			—	—	—		—	—	—	—	—	—	—	
BIU				—	—		—		—		—	—		—	—	—	—	
MET						—	—		—		—	—		—			—	
MFD			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
A/C				—			—	—	—		—	—	—	—	—	—	—	
STR		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TCM							—	—	—	—	—	—	—	—	—	—	—	
RST		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
IMP		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
KPS				—			—	—	—		—	—	—	—	—	—	—	
HL				—		—	—	—	—	—	—	—	—	—	—	—	—	—
EPS				—	—		—	—	—	—	—	—	—	—	—	—	—	
A/B			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Y&G		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ECM				—	—		—	—	—		—	—	—	—	—	—	—	—

LAN01287

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

- For data error entry

	(A)	(D)															
		VDC	CAM	BIU	MET	MFD	A/C	STR	TCM	RST	IMP	KPS	HL	EPS	A/B	Y&G	ECM
		U0416	U1433	U0422	U0423	U0457	U0424	U0428	U0402	—	—	U0427	—	U0420	U0452	U0513	U0401
VDC		—			—	—	—			—	—	—	—	—			
CAM			—			—	—	—		—	—	—	—	—	—		
BIU			—	—		—		—		—	—		—	—	—		
MET		—		—	—	—	—	—	—	—	—	—	—	—	—	—	
MFD		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
A/C			—			—	—	—		—	—	—	—	—	—		
STR		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
TCM						—	—	—	—	—	—	—	—	—	—		
RST		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
IMP		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
KPS		—	—		—	—	—	—	—	—	—	—	—	—	—		
HL		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
EPS			—	—	—	—	—	—	—	—	—	—	—	—	—		
A/B		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Y&G		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
ECM			—	—		—	—	—		—	—	—	—	—	—	—	

LAN01288

(A) Installation check

(B) Bus off detection

(C) Data no-receive detection

(D) Data abnormal detection

VDC: VDC CM

KPS: Keyless access CM

BIU: Body integrated unit

MFD: High grade MFD

A/C: A/C control panel

MET: Combination meter

RST: Remote engine starter CM

HL: Auto headlight beam leveler CM

STR: Steering angle sensor

TCM: TCM

A/B: AB CM

EPS: Power steering CM

ECM: ECM

CAM: Stereo camera

IMP: Impact sensor

Y & G: Yaw rate & G sensor

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

1) Module installation check

- (1) Write “-” marks in the field for installation check if the vehicle to be inspected does not have relevant module.
- (2) Write “-” marks in all blank fields on the same row that the “-” mark has filled in.

2) Bus off detection / data not received

NOTE:

It becomes impossible for CAN diagnostic module to read DTC, if there is a current malfunction of open harness (data not received). If this occurs, perform the “Check using the check sheet of communication for initializing” <Ref. to LAN(diag)-12, CHECK USING THE CHECK SHEET OF COMMUNICATION FOR INITIALIZING, COMMUNICATION FOR INITIALIZING IMPOSSIBLE, Subaru Select Monitor.>, and use this sheet to confirm that the corresponding part becomes the past malfunction.

- (1) Mark “X” in the field corresponding to the DTCs that has been detected by each module in the check sheet.
- (2) Identify and repair the faulty part by referring to the example of DTC data not received and the DTC matrix. <Ref. to LAN(diag)-104, EXAMPLE OF DTC DATA NOT RECEIVED, LIST, List of Diagnostic Trouble Code (DTC).> <Ref. to LAN(diag)-112, DTC MATRIX, LIST, List of Diagnostic Trouble Code (DTC).>

3) Data abnormal detection

NOTE:

If any DTC code that starts with P, B or C is detected after restarting the engine, perform the diagnosis for that code first. If any “BUS OFF” or “NO-RECEIVE DATA” condition is detected, perform the diagnosis for these problems first.

- (1) If several modules detect the DTC for the same module, replace the detected module.
- (2) If one module detects the DTC, replace the module of the detected side.
- (3) If it does not return to the normal operation, re-install the module which has been replaced, and replace the module of the detected side.
- (4) If it does not return to the normal operation, replace both modules.



List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

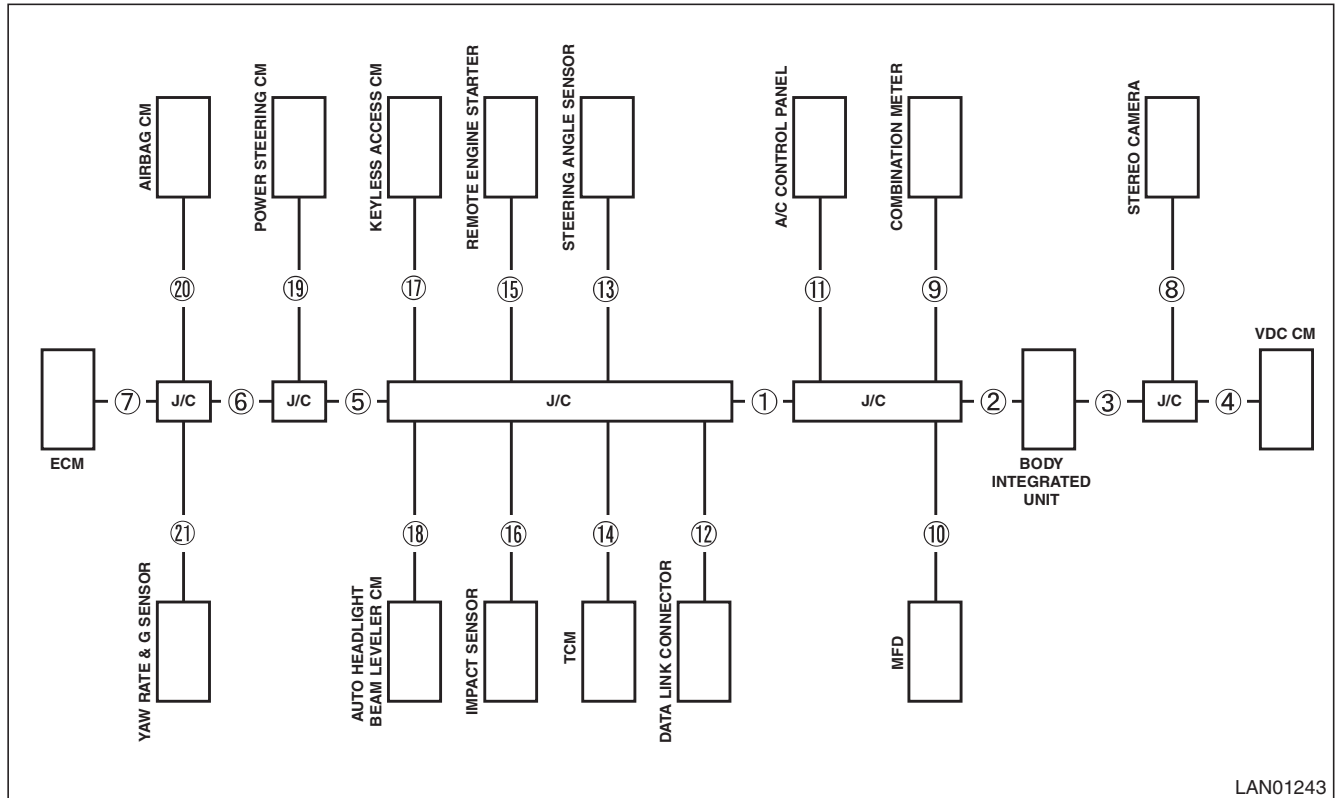
2. EXAMPLE OF DTC DATA NOT RECEIVED

NOTE:

Only the sheet for bus off, data no-receive entry is shown.

(This is because, when data error occurs at the bus off, data no-receive condition, the diagnosis for these problems is performed first.)

Non-turbo model



LAN01243

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

When ⑬ (steering angle sensor vicinity) is open

NOTE:

DTC is not detected except in VDC.

	(A)	(B)	(C)																
			VDC	CAM	BIU	MET	MFD	A/C	STR	TCM	RST	IMP	KPS	HL	EPS	A/B	Y&G	ECM	
			U0073	U0122	U1235	U0140	U0155	U0156	U0164	U0126	U0101	—	—	U0327	—	U0131	U0151	U0123	U0100
VDC			—			—	—	—	×		—	—	—	—	—	—			
CAM				—			—	—	—		—	—	—	—	—	—	—		
BIU				—	—		—		—		—	—		—	—	—	—		
MET						—	—		—		—	—		—			—		
MFD			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
A/C				—			—	—	—		—	—	—	—	—	—	—		
STR		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
TCM							—	—	—	—	—	—	—	—	—	—	—		
RST		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
IMP		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
KPS				—			—	—	—		—	—	—	—	—	—	—		
HL				—		—	—	—	—	—	—	—	—	—	—	—	—	—	
EPS				—	—		—	—	—	—	—	—	—	—	—	—	—		
A/B			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Y&G		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
ECM				—	—		—	—	—		—	—	—	—	—	—	—	—	

LAN01289



List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

When ⑮ (remote engine start CM vicinity) is open

NOTE:

The remote engine starter does not operate while no DTC is detected.

	(A)	(B)	(C)																
			VDC	CAM	BIU	MET	MFD	A/C	STR	TCM	RST	IMP	KPS	HL	EPS	A/B	Y&G	ECM	
			U0073	U0122	U1235	U0140	U0155	U0156	U0164	U0126	U0101	—	—	U0327	—	U0131	U0151	U0123	U0100
VDC			—			—	—	—			—	—	—	—	—	—			
CAM				—			—	—	—		—	—	—	—	—	—	—		
BIU				—	—		—		—		—	—		—	—	—	—		
MET						—	—		—		—	—		—			—		
MFD			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
A/C				—			—	—	—		—	—	—	—	—	—	—		
STR		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
TCM							—	—	—	—	—	—	—	—	—	—	—		
RST		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
IMP		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
KPS				—			—	—	—		—	—	—	—	—	—	—		
HL				—		—	—	—	—	—	—	—	—	—	—	—	—	—	
EPS				—	—		—	—	—	—	—	—	—	—	—	—	—		
A/B			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Y&G		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
ECM				—	—		—	—	—		—	—	—	—	—	—	—	—	

LAN01287



List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

When ⑳ (yaw rate & G sensor vicinity) is open

NOTE:

DTC is not detected except in VDC.

	(A)	(B)	(C)																
			VDC	CAM	BIU	MET	MFD	A/C	STR	TCM	RST	IMP	KPS	HL	EPS	A/B	Y&G	ECM	
			U0073	U0122	U1235	U0140	U0155	U0156	U0164	U0126	U0101	—	—	U0327	—	U0131	U0151	U0123	U0100
VDC			—			—	—	—			—	—	—	—	—	—	×		
CAM				—			—	—	—		—	—	—	—	—	—	—		
BIU				—	—		—		—		—	—		—	—	—	—		
MET						—	—		—		—	—		—			—		
MFD			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
A/C				—			—	—	—		—	—	—	—	—	—	—		
STR		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
TCM							—	—	—	—	—	—	—	—	—	—	—		
RST		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
IMP		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
KPS				—			—	—	—		—	—	—	—	—	—	—		
HL				—		—	—	—	—	—	—	—	—	—	—	—	—	—	
EPS				—	—		—	—	—	—	—	—	—	—	—	—	—		
A/B			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Y&G		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
ECM				—	—		—	—	—		—	—	—	—	—	—	—	—	

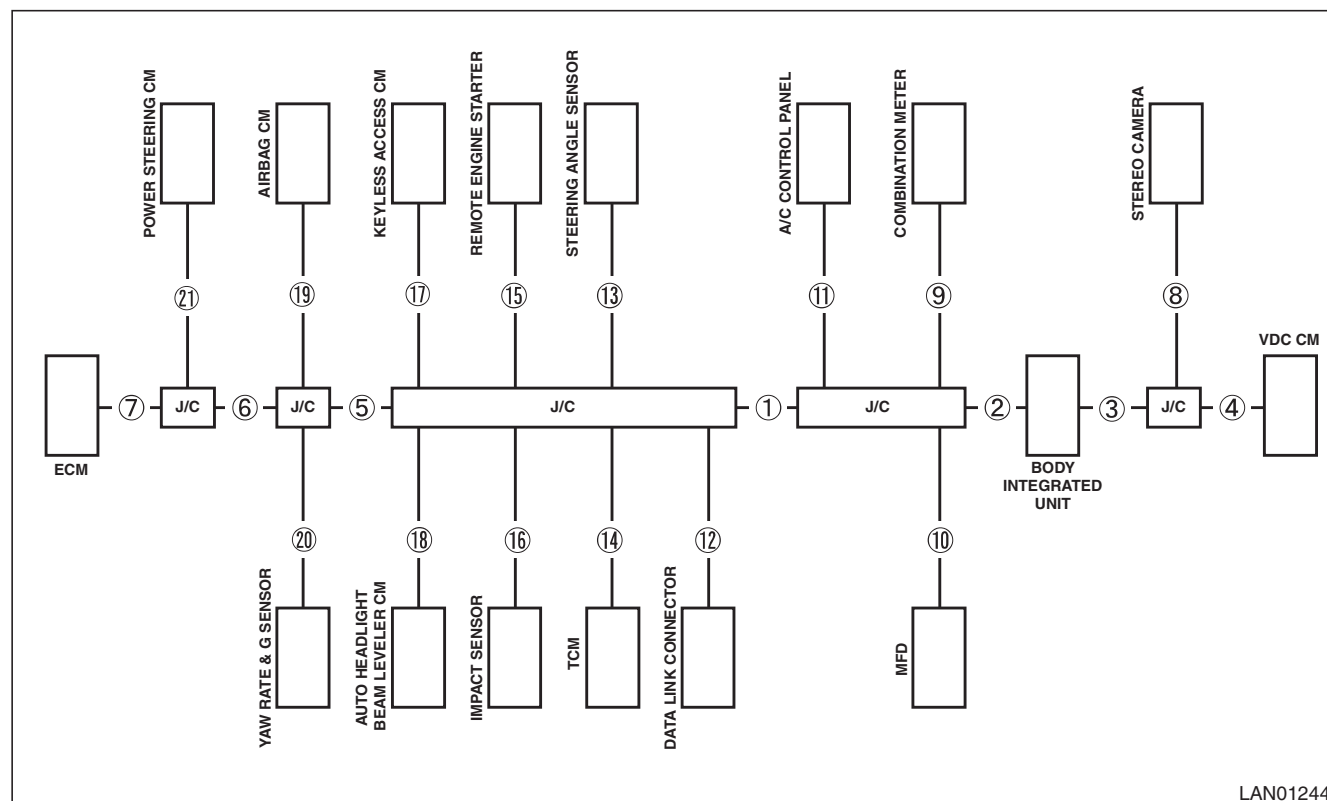
LAN01290



List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Turbo model



List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

When ⑬ (steering angle sensor vicinity) is open

NOTE:

DTC is not detected except in VDC.

	(A)	(B)	(C)																
			VDC	CAM	BIU	MET	MFD	A/C	STR	TCM	RST	IMP	KPS	HL	EPS	A/B	Y&G	ECM	
			U0073	U0122	U1235	U0140	U0155	U0156	U0164	U0126	U0101	—	—	U0327	—	U0131	U0151	U0123	U0100
VDC			—			—	—	—	×		—	—	—	—	—	—			
CAM				—			—	—	—		—	—	—	—	—	—	—		
BIU				—	—		—		—		—	—		—	—	—	—		
MET						—	—		—		—	—		—			—		
MFD			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
A/C				—			—	—	—		—	—	—	—	—	—	—		
STR		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
TCM							—	—	—	—	—	—	—	—	—	—	—		
RST		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
IMP		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
KPS				—			—	—	—		—	—	—	—	—	—	—		
HL				—		—	—	—	—	—	—	—	—	—	—	—	—	—	
EPS				—	—		—	—	—	—	—	—	—	—	—	—	—		
A/B			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Y&G		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
ECM				—	—		—	—	—		—	—	—	—	—	—	—	—	

LAN01289



List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

When ⑮ (remote engine start CM vicinity) is open

NOTE:

The remote engine starter does not operate while no DTC is detected.

	(A)	(B)	(C)															
			VDC	CAM	BIU	MET	MFD	A/C	STR	TCM	RST	IMP	KPS	HL	EPS	A/B	Y&G	ECM
			U0073	U0122	U1235	U0140	U0155	U0156	U0164	U0126	U0101	—	—	U0327	—	U0131	U0151	U0123
VDC			—			—	—	—			—	—	—	—	—	—		
CAM				—			—	—	—		—	—	—	—	—	—	—	
BIU				—	—		—		—		—	—		—	—	—	—	
MET						—	—		—		—	—		—			—	
MFD			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
A/C				—			—	—	—		—	—	—	—	—	—	—	
STR		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TCM							—	—	—	—	—	—	—	—	—	—	—	
RST		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
IMP		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
KPS				—			—	—	—		—	—	—	—	—	—	—	
HL				—		—	—	—	—	—	—	—	—	—	—	—	—	—
EPS				—	—		—	—	—	—	—	—	—	—	—	—	—	
A/B			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Y&G		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ECM				—	—		—	—	—		—	—	—	—	—	—	—	—

LAN01287



List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

When ⑳ (yaw rate & G sensor vicinity) is open

NOTE:

DTC is not detected except in VDC.

	(A)	(B)	(C)																
			VDC	CAM	BIU	MET	MFD	A/C	STR	TCM	RST	IMP	KPS	HL	EPS	A/B	Y&G	ECM	
			U0073	U0122	U1235	U0140	U0155	U0156	U0164	U0126	U0101	—	—	U0327	—	U0131	U0151	U0123	U0100
VDC			—			—	—	—			—	—	—	—	—	—	×		
CAM				—			—	—	—		—	—	—	—	—	—	—		
BIU				—	—		—		—		—	—		—	—	—	—		
MET						—	—		—		—	—		—			—		
MFD			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
A/C				—			—	—	—		—	—	—	—	—	—	—		
STR		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
TCM							—	—	—	—	—	—	—	—	—	—	—		
RST		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
IMP		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
KPS				—			—	—	—		—	—	—	—	—	—	—		
HL				—		—	—	—	—	—	—	—	—	—	—	—	—	—	
EPS				—	—		—	—	—	—	—	—	—	—	—	—	—		
A/B			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Y&G		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
ECM				—	—		—	—	—		—	—	—	—	—	—	—	—	

LAN01290



List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

3. DTC MATRIX

NOTE:

Perform the following procedure when using this chart in which the detailed trouble mode corresponds to the trouble status.

1. Search the trouble mode that corresponds to the vehicle status from the chart.
2. Perform the repair that corresponds to the trouble mode.

Control module (which module vicinity)		Trouble mode 1	Trouble mode 2	Trouble mode 3	Trouble mode 4	Trouble mode 5	...	...	Trouble mode n
Detailed location (which location)									
Detailed trouble mode (what kind)									
Trouble status (trouble exists/trouble existed)									
DTC reading result from each module using Subaru Select Monitor	VDC CM	Vehicle status 1	Vehicle status 2	Vehicle status 3	Vehicle status 4	Vehicle status 5	...	...	Vehicle status n
	Body integrated unit								
	Combination meter								
	MFD								
	A/C control panel								
	TCM								
	...								
	...								
	ECM								
Indicators illuminate/blink.									



List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

1. Hi-side circuit of CAN communication circuit is open.

NOTE:

- If the module has a limit of DTC memory and the number of DTC occurrence exceeds the limit, older DTCs are preferentially stored.
- When there is no description in Current, it is referred to as "None".
- When DTC is in parentheses, it is referred to as "Not always occur".
- "Trouble exists" is referred to as the status before performing inspection and repair. "Trouble existed" is referred to as the status before performing DTC clear after repair.

Control module		Stereo camera vicinity	Stereo camera vicinity	VDC CM vicinity	VDC CM vicinity	Keyless access vicinity	Keyless access vicinity	Body integrated unit (VDC CM side) vicinity	Body integrated unit (VDC CM side) vicinity
Detailed location		Hi side	Hi side	Hi side	Hi side	Hi side	Hi side	Hi side	Hi side
Detailed trouble mode		Open	Open	Open	Open	Open	Open	Open	Open
Trouble status		Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
DTC reading result from each module using Subaru Select Monitor	Stereo camera ^{*11}	Communication failure	Latest B2801 U0100 U0101 (Old) U0100 U0101 U0122 U0140 U0155 U1120 Any 3 items from above	Current B2806 B2801 U0122 (Old) U0122	Latest B2807 B2806 B2801 (Old) B2806 B2801 U0122 (Older) U0122	Current None Past None	Current None Past None	Communication failure	(Old) U0100 U0101 U0155
	VDC CM ^{*1*8}	Current U1235 Past Same as above	Past U1235	Communication failure	Current C1424 C1431 Past C1424 C1431 U0073 U0100 U0101 U0126 U0140 U0123 U1120 U1235	Current None Past None	Current None Past None	Communication failure	Current C1424 C1431 Past C1424 C1431 U0073 U0100 U0101 U0126 U0140 U0123 U1120

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module		Stereo camera vicinity	Stereo camera vicinity	VDC CM vicinity	VDC CM vicinity	Keyless access vicinity	Keyless access vicinity	Body integrated unit (VDC CM side) vicinity	Body integrated unit (VDC CM side) vicinity
Detailed location		Hi side	Hi side	Hi side	Hi side	Hi side	Hi side	Hi side	Hi side
Detailed trouble mode		Open	Open	Open	Open	Open	Open	Open	Open
Trouble status		Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
DTC reading result from each module using Subaru Select Monitor	Keyless access CM ^{*9}	None	None	Current U0122 Past Same as above	Past U0122	Communication failure	Past (U0073) (*) U0100 U0101 U0122 U0140 U0155 U1120 When * occurs, part of no-receive judgment may not be stored.	Current U0122 Past Same as above	Past U0122
	Body integrated unit ^{*2}	None	None	Current U0122 Past Same as above	Past U0122	Current U0327 Past Same as above	Past U0327	Current U0122 Past Same as above	Past U0122
	Combination meter ^{*3}	Current U1235 Past Same as above	Past U1235	Current U0122 Past Same as above	Past U0122	Current U0327 Past Same as above	Past U0327	Current U0122 U1235 Past Same as above	Past U0122 U1235
	MFD ^{*4}	Current U1235 Past Same as above	Past U1235	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	A/C control panel ^{*5}	Current None Past None	Current None Past None	Current U0122 Past Same as above	Past U0122	Current None Past None	Current None Past None	Current U0122 Past Same as above	Past U0122
	TCM ^{*1}	Current U1235 Past Same as above	Past U1235	Current U0122 Past Same as above	Past U0122	Current None Past None	Current None Past None	Current U0122 U1235 Past Same as above	Past U0122 U1235

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module		Stereo camera vicinity	Stereo camera vicinity	VDC CM vicinity	VDC CM vicinity	Keyless access vicinity	Keyless access vicinity	Body integrated unit (VDC CM side) vicinity	Body integrated unit (VDC CM side) vicinity
Detailed location		Hi side	Hi side	Hi side	Hi side	Hi side	Hi side	Hi side	Hi side
Detailed trouble mode		Open	Open	Open	Open	Open	Open	Open	Open
Trouble status		Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
DTC reading result from each module using Subaru Select Monitor	A/B CM ^{*6}	Current None	Current None	Current None	Current None	Current None	Current None	Current None	Current None
		Past None	Past None	Past None	Past None	Past None	Past None	Past None	Past None
	Electric power steering CM ^{*7}	Current None	Current None	Current U0122	Past U0122	Current None	Current None	Current U0122	Past U0122
		Past None	Past None	Past Same as above		Past None	Past None	Past Same as above	
	Auto Start Stop CM ^{*10}	Current None	Current None	Current (U0122)	Past (U0122)	Current None	Current None	Current (U0122)	Past (U0122)
		Past None	Past None	Past Same as above		Past None	Past None	Past Same as above	
	ECM ^{*1}	Current None	Current None	Current U0122 P0700 [*] *AT only	Past U0122 P0700 [*] *AT only	Current None	Current None	Current U0122 P0700 [*] *AT only	Past U0122 P0700 [*] *AT only
		Past None	Past None	Past Same as above		Past None	Past None	Past Same as above	
	Auto headlight beam leveler CM ^{*6}	Current None	Current None	Current U0122	Past U0122	Current None	Current None	Current U0122	Past U0122
		Past None	Past None	Past Same as above		Past None	Past None	Past Same as above	



List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module	Stereo camera vicinity	Stereo camera vicinity	VDC CM vicinity	VDC CM vicinity	Keyless access vicinity	Keyless access vicinity	Body integrated unit (VDC CM side) vicinity	Body integrated unit (VDC CM side) vicinity
Detailed location	Hi side	Hi side	Hi side	Hi side	Hi side	Hi side	Hi side	Hi side
Detailed trouble mode	Open	Open	Open	Open	Open	Open	Open	Open
Trouble status	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
Indicators illuminate/blink.	Pre-collision, lane-off illuminate EyeSight, AT OIL TEMP blink	No change	CHECK ENGINE, VDC, VDC off, ABS, BRAKE, headlight beam leveler indicator illuminate; AT OIL TEMP blink; hill hold blink; SI-DRIVE (S) blink; CRUISE blink (With EyeSight) EyeSight, pre-collision, lane-off illuminate; CRUISE not blink	CHECK ENGINE, VDC, ABS illuminate; hill hold blink; SI-DRIVE (S) blink; CRUISE blink (With EyeSight) EyeSight, pre-collision, lane-off illuminate; CRUISE not blink; ABS not illuminate	No change	No change	CHECK ENGINE, VDC, VDC off, ABS, BRAKE, headlight beam leveler indicator illuminate; AT OIL TEMP blink; hill hold blink; SI-DRIVE (S) blink; CRUISE blink (With EyeSight) EyeSight, pre-collision, lane-off illuminate; CRUISE not blink	CHECK ENGINE, VDC, ABS illuminate; hill hold blink; SI-DRIVE (S) blink; CRUISE blink (With EyeSight) EyeSight, pre-collision, lane-off illuminate; CRUISE not blink; ABS not illuminate

*1: When U0073 occurs, other U-codes are not stored. (Judge timing affects the storing order.)

*2: The number of DTC memory is limited to 8 items. (Older items are preferentially stored.)

*3: The number of DTC memory is limited to 5 items. (Older items are preferentially stored.)

*4: The number of DTC memory is limited to 2 items. (Older items are preferentially stored.)

*5: All types of DTCs can be simultaneously stored. When U0073 occurs, other U-codes are not displayed.

*6: All types of DTCs can be simultaneously stored.

*7: The number of DTC memory is limited to 1 item for Current and 3 items for Latest.

*8: If C1431 contains a current malfunction after repair, perform IGN OFF → ON. (It remains immediately after repair.)

*9: All types of DTCs can be simultaneously stored.

*10: All types of DTCs can be simultaneously stored. DTC in parenthesis is not always detected.

*11: Up to three DTCs can be stored for each of current, old, and older trouble occurrence trips. When U0073 occurs, data no-receive is not stored.

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module		Body integrated unit (ECM side) vicinity	Body integrated unit (ECM side) vicinity	Combination meter vicinity	Combination meter vicinity	MFD vicinity	MFD vicinity	A/C control panel vicinity	A/C control panel vicinity
Detailed location		Hi side	Hi side	Hi side	Hi side	Hi side	Hi side	Hi side	Hi side
Detailed trouble mode		Open	Open	Open	Open	Open	Open	Open	Open
Trouble status		Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
DTC reading result from each module using Subaru Select Monitor	Stereo camera ^{*11}	Communication failure	(Old) U0100 U0101 U0155	Latest B2806 U0155 (Old) U0155	Latest B2807 B2806 (Old) B2806 U0155 (Older) U0155	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	VDC CM ^{*1*8}	Communication failure	Current C1424 C1431 Past C1424 C1431 U0100 U0101 U0126 U0123 U1120	Current C1424 Past Same as above	Current C1424 Past Same as above	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Keyless access CM ^{*9}	Current U0122 U0140 Past Same as above	Past U0122 U0140	Current U0155 Past Same as above	Past U0155	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Body integrated unit ^{*2}	Communication failure	Past U0100 U0101 U0155 U0164 U0327	Current U0155 Past Same as above	Past U0155	Current None Past None	Current None Past None	Current U0164 Past Same as above	Past U0164
	Combination meter ^{*3}	Current U0122 U0140 U1235 Past Same as above	Past U0122 U0140 U1235	Communication failure	Past U0073 U0100 U0101 U0122 U0131 U0140 U0151 U0164 U0327 U1120 U1235 Any 5 items from above	Current None Past None	Current None Past None	Current U0164 Past Same as above	Past U0164



List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module		Body integrated unit (ECM side) vicinity	Body integrated unit (ECM side) vicinity	Combination meter vicinity	Combination meter vicinity	MFD vicinity	MFD vicinity	A/C control panel vicinity	A/C control panel vicinity
Detailed location		Hi side	Hi side	Hi side	Hi side	Hi side	Hi side	Hi side	Hi side
Detailed trouble mode		Open	Open	Open	Open	Open	Open	Open	Open
Trouble status		Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
DTC reading result from each module using Subaru Select Monitor	MFD ^{*4}	Current U1650 Past Same as above	Current None Past U1650	Current (U1650) Past Same as above	Past (U1650)	Communication failure	Past (U0073)	Current None Past None	Current None Past None
	A/C control panel ^{*5}	Current U0122 U0140 Past Same as above	Past U0122 U0140	Current U0155 Past Same as above	Past U0155	Current None Past None	Current None Past None	Communication failure	Past U0073 U0100 U0155 U0140 U0122 U0101 U1120
	TCM ^{*1}	Current U0122 U0140 U1235 Past Same as above	Past U0122 U0140 U1235	Current U0155 Past Same as above	Past U0155	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	A/B CM ^{*6}	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Electric power steering CM ^{*7}	Current U0122 Past Same as above	Past U0122	Current U0155 Past Same as above	Past U0155	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Auto Start Stop CM ^{*10}	Current (U0122) (U0140) Past Same as above	Past (U0140) (U0122)	Current (U0155) Past Same as above	Past (U0155)	Current None Past None	Current None Past None	Current (U0164) Past Same as above	Past (U0164)
	ECM ^{*1}	Current U0122 P0700 [*] *AT only Past Same as above	Past U0122 P0700 [*] *AT only	Current U0155 Past Same as above	Past U0155	Current None Past None	Current None Past None	Current None Past None	Current None Past None

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module		Body integrated unit (ECM side) vicinity	Body integrated unit (ECM side) vicinity	Combination meter vicinity	Combination meter vicinity	MFD vicinity	MFD vicinity	A/C control panel vicinity	A/C control panel vicinity
Detailed location		Hi side	Hi side	Hi side	Hi side	Hi side	Hi side	Hi side	Hi side
Detailed trouble mode		Open	Open	Open	Open	Open	Open	Open	Open
Trouble status		Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
DTC reading result from each module using Subaru Select Monitor	Auto headlight beam leveler CM* ⁶	Current U0122 U0140 Past Same as above	Past U0122 U0140	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module	Body integrated unit (ECM side) vicinity	Body integrated unit (ECM side) vicinity	Combination meter vicinity	Combination meter vicinity	MFD vicinity	MFD vicinity	A/C control panel vicinity	A/C control panel vicinity
Detailed location	Hi side	Hi side	Hi side	Hi side	Hi side	Hi side	Hi side	Hi side
Detailed trouble mode	Open	Open	Open	Open	Open	Open	Open	Open
Trouble status	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
Indicators illuminate/blink.	CHECK ENGINE, VDC, VDC off, ABS, BRAKE, headlight beam leveler indicator illuminate; AT OIL TEMP blink; hill hold blink; SI-DRIVE (S) blink; CRUISE blink; Auto Start Stop illuminate (With EyeSight) EyeSight, pre-collision, lane-off illuminate; CRUISE not blink	CHECK ENGINE, VDC, ABS illuminate; hill hold blink; SI-DRIVE (S) blink; CRUISE blink (With EyeSight) EyeSight, pre-collision, lane-off illuminate; CRUISE not blink; ABS not illuminate; CHECK ENGINE not illuminate	CHECK ENGINE, EMPTY, VDC, ABS illuminate Airbag, VDC off, BRAKE, EPS intermittently illuminate (EPS may not illuminate) Hill hold, SI-DRIVE (I) blink; engine coolant temperature gauge (red/blue) blink; AT OIL TEMP blink (A cycle of blinking four times and then going off may repeat) Fuel gauge 0, tachometer 0 rpm, shift indicator go off occasionally (CRUISE goes off) (With EyeSight) Pre-collision, lane-off illuminate; EyeSight blink (constant frequency)	CHECK ENGINE illuminate; hill hold, SI-DRIVE (S), CRUISE blink (With EyeSight) EyeSight, pre-collision, lane-off illuminate; CRUISE not blink; VDC illuminate	No change Door-open not reflected (not indicated as open) on MFD	No change No change in MFD	No change A/C unit, rear defogger only no response. A/C operation not reflected on MFD.	No change

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

- *1: When U0073 occurs, other U-codes are not stored. (Judge timing affects the storing order.)
- *2: The number of DTC memory is limited to 8 items. (Older items are preferentially stored.)
- *3: The number of DTC memory is limited to 5 items. (Older items are preferentially stored.)
- *4: The number of DTC memory is limited to 2 items. (Older items are preferentially stored.)
- *5: All types of DTCs can be simultaneously stored. When U0073 occurs, other U-codes are not displayed.
- *6: All types of DTCs can be simultaneously stored.
- *7: The number of DTC memory is limited to 1 item for Current and 3 items for Latest.
- *8: If C1431 contains a current malfunction after repair, perform IGN OFF → ON. (It remains immediately after repair.)
- *9: All types of DTCs can be simultaneously stored.
- *10: All types of DTCs can be simultaneously stored. DTC in parenthesis is not always detected.
- *11: Up to three DTCs can be stored for each of current, old, and older trouble occurrence trips. When U0073 occurs, data no-receive is not stored.

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module		Steering angle sensor vicinity	Steering angle sensor vicinity	TCM vicinity	TCM vicinity	A/B vicinity	A/B vicinity	Electric power steering CM vicinity	Electric power steering CM vicinity
Detailed location		Hi side	Hi side	Hi side	Hi side	Hi side	Hi side	Hi side	Hi side
Detailed trouble mode		Open	Open	Open	Open	Open	Open	Open	Open
Trouble status		Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
DTC reading result from each module using Subaru Select Monitor	Stereo camera ^{*11}	Current None Past None	Current None Past None	Latest B2806 B2801 U0101 (Old) U0101	Current B2807 B2806 B2801 (Old) B2806 B2801 U0101 (Older) U0101	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	VDC CM ^{*1*8}	Current C1424 C1431 U0126 Past Same as above	Current C1424 C1431 Past C1424 C1431 U0126	Current C1424 U0101 Past Same as above	Current C1424 C1431 Past C1424 C1431 U0101	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Keyless access CM ^{*9}	Current None Past None	Current None Past None	Current U0101 Past Same as above	Past U0101	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Body integrated unit ^{*2}	Current None Past None	Current None Past None	Current U0101 Past Same as above	Past U0101	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Combination meter ^{*3}	Current None Past None	Current None Past None	Current U0101 Past Same as above	Past U0101	Current U0151 Past Same as above	Current None Past U0151	Current U0131 Past Same as above	Past U0131
	MFD ^{*4}	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	A/C control panel ^{*5}	Current None Past None	Current None Past None	Current U0101 Past Same as above	Past U0101	Current None Past None	Current None Past None	Current None Past None	Current None Past None

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module		Steering angle sensor vicinity	Steering angle sensor vicinity	TCM vicinity	TCM vicinity	A/B vicinity	A/B vicinity	Electric power steering CM vicinity	Electric power steering CM vicinity
Detailed location		Hi side	Hi side	Hi side	Hi side	Hi side	Hi side	Hi side	Hi side
Detailed trouble mode		Open	Open	Open	Open	Open	Open	Open	Open
Trouble status		Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
DTC reading result from each module using Subaru Select Monitor	TCM ^{*1}	Current None Past None	Current None Past None	Communication failure	Past U0100 U0122 U0140 U0155 U1120 U1235	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	A/B CM ^{*6}	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Communication failure Past None	Current None Past None	Current None Past None	Current None Past None
	Electric power steering CM ^{*7}	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Communication failure	Past U0100 U0122 U0155 U1120
	Auto Start Stop CM ^{*10}	Current None Past None	Current None Past None	Current (U0101) Past Same as above	Past (U0101)	Current None Past None	Current None Past None	Current (U0131) Past Same as above	Past (U0131)
	ECM ^{*1}	Current None Past None	Current None Past None	Current U0101 Past Same as above	Past U0101	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Auto headlight beam leveler CM ^{*6}	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None



List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module	Steering angle sensor vicinity	Steering angle sensor vicinity	TCM vicinity	TCM vicinity	A/B vicinity	A/B vicinity	Electric power steering CM vicinity	Electric power steering CM vicinity
Detailed location	Hi side	Hi side	Hi side	Hi side	Hi side	Hi side	Hi side	Hi side
Detailed trouble mode	Open	Open	Open	Open	Open	Open	Open	Open
Trouble status	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
Indicators illuminate/blink.	VDC, ABS illuminate; hill hold blink *12	No change When unstable communication condition due to open circuit on one side has occurred, the following may occur. CHECK ENGINE, VDC, ABS illuminate; hill hold blink; SI-DRIVE (S), CC blink	CHECK ENGINE, VDC, ABS illuminate; hill hold, SI-DRIVE (S) blink; CRUISE blink; shift indicator go off (With EyeSight) EyeSight, pre-collision, lane-off illuminate; CRUISE not blink; ABS not illuminate; VDC illuminate	CHECK ENGINE, VDC, ABS illuminate; hill hold, SI-DRIVE (S) blink; CRUISE blink (With EyeSight) EyeSight, pre-collision, lane-off illuminate; CRUISE not blink; ABS not illuminate; VDC illuminate	A/B illuminates.	No change	EPS warning light illumination	No change

*1: When U0073 occurs, other U-codes are not stored. (Judge timing affects the storing order.)

*2: The number of DTC memory is limited to 8 items. (Older items are preferentially stored.)

*3: The number of DTC memory is limited to 5 items. (Older items are preferentially stored.)

*4: The number of DTC memory is limited to 2 items. (Older items are preferentially stored.)

*5: All types of DTCs can be simultaneously stored. When U0073 occurs, other U-codes are not displayed.

*6: All types of DTCs can be simultaneously stored.

*7: The number of DTC memory is limited to 1 item for Current and 3 items for Latest.

*8: If C1431 contains a current malfunction after repair, perform IGN OFF → ON. (It remains immediately after repair.)

*9: All types of DTCs can be simultaneously stored.

*10: All types of DTCs can be simultaneously stored. DTC in parenthesis is not always detected.

*11: Up to three DTCs can be stored for each of current, old, and older trouble occurrence trips. When U0073 occurs, data no-receive is not stored.

*12: When unstable communication condition due to open circuit on one side has occurred, CHECK ENGINE illuminate; SI-DRIVE (S), CC blink may occur. When unstable communication condition is in progress, EMPTY illuminates; AT OIL TEMP, engine coolant temperature gauge (red/blue), SI-DRIVE (i), immobilizer light blink; fuel gauge zero; tachometer 0 rpm may occur.

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module		Auto Start Stop CM vicinity	Auto Start Stop CM vicinity	ECM vicinity	ECM vicinity	Headlight beam leveler CM vicinity	Headlight beam leveler CM vicinity	Yaw rate & G sensor vicinity	Yaw rate & G sensor vicinity
Detailed location		Hi side	Hi side	Hi side	Hi side	Hi side	Hi side	Hi side	Hi side
Detailed trouble mode		Open	Open	Open	Open	Open	Open	Open	Open
Trouble status		Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
DTC reading result from each module using Subaru Select Monitor	Stereo cam- era ^{*11}	Latest B2801 (Old) B2809 B2801	Latest B2801 (Old) B2801 (Older) B2801 B2809	Latest B2801 U0100 (Old) U0100	Latest B2807 B2806 B2801 (Old) B2801 U0100 (Older) U0100	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	VDC CM ^{*1*8}	Current C1431 U1120 Past Same as above	Current C1431 Past C1431 U1120	Current C1431 U0100 Past Same as above	Current C1424 C1431 Past C1424 C1431 U0100	Current None Past None	Current None Past None	Current C1721 U0123 Past Same as above	Past C1721 U0123
	Keyless access CM ^{*9}	Current U1120 Past None	Past U1120	Current U0100 Past Same as above	Past U0100	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Body integrated unit ^{*2}	Current None Past None	Current None Past None	Current U0100 Past Same as above	Past U0100	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Combination meter ^{*3}	Current U1120 Past Same as above	Past U1120	Current U0100 Past Same as above	Past U0100	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	MFD ^{*4}	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	A/C control panel ^{*5}	Current U1120 Past Same as above	Past U1120	Current U0100 Past Same as above	Past U0100	Current None Past None	Current None Past None	Current None Past None	Current None Past None



List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module		Auto Start Stop CM vicinity	Auto Start Stop CM vicinity	ECM vicinity	ECM vicinity	Headlight beam leveler CM vicinity	Headlight beam leveler CM vicinity	Yaw rate & G sensor vicinity	Yaw rate & G sensor vicinity
Detailed location		Hi side	Hi side	Hi side	Hi side	Hi side	Hi side	Hi side	Hi side
Detailed trouble mode		Open	Open	Open	Open	Open	Open	Open	Open
Trouble status		Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
DTC reading result from each module using Subaru Select Monitor	TCM ^{*1}	Current U1120	Past U1120	Current U0100	Past U0100	Current None	Current None	Current None	Current None
		Past Same as above		Past Same as above		Past None	Past None	Past None	Past None
	A/B CM ^{*6}	Current None	Current None	Current None	Current None	Current None	Current None	Current None	Current None
		Past None	Past None	Past None	Past None	Past None	Past None	Past None	Past None
	Electric power steering CM ^{*7}	Current U1120	Past U1120	Current U0100	Past U0100	Current None	Current None	Current None	Current None
		Past Same as above		Past Same as above		Past None	Past None	Past None	Past None
	Auto Start Stop CM ^{*10}	Communication failure	Current (P1614)	Current (U0100)	Past (U0100)	Current None	Current None	Current None	Current None
			Past Same as above	Past Same as above		Past None	Past None	Past None	Past None
	ECM ^{*1}	Current None	Past (P1531)	Communication failure	Past U0073 (*) (U0101) (U0122) (U0155)	Current None	Current None	Current None	Current None
		Past (P1531)			*Occasionally this may not occur. In such a case, all other data no-receive errors will remain.	Past None	Past None	Past None	Past None
	Headlight beam leveler CM ^{*6}	Current None	Current None	Current None	Current None	Communication failure	Past U0122 U0140	Current None	Current None
		Past None	Past None	Past None	Past None			Past None	Past None



List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module	Auto Start Stop CM vicinity	Auto Start Stop CM vicinity	ECM vicinity	ECM vicinity	Headlight beam leveler CM vicinity	Headlight beam leveler CM vicinity	Yaw rate & G sensor vicinity	Yaw rate & G sensor vicinity
Detailed location	Hi side	Hi side	Hi side	Hi side	Hi side	Hi side	Hi side	Hi side
Detailed trouble mode	Open	Open	Open	Open	Open	Open	Open	Open
Trouble status	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
Indicators illuminate/blink.	(Without EyeSight) VDC, ABS illuminate. Auto Start Stop CM OFF, AT OIL TEMP blink (With EyeSight) VDC, EyeSight, pre-collision, lane- off illuminate Auto Start Stop CM OFF, AT OIL TEMP blink	(Without EyeSight) VDC, ABS illuminate. (With EyeSight) VDC, EyeSight, pre-collision, lane- off illuminate Auto Start Stop OFF blink	CHECK ENGINE, VDC, ABS, EMPTY, AWD, AT OIL TEMP, EPS illuminate; engine coolant temperature gauge (red/blue) blink Hill hold, SI-DRIVE (I) blink; fuel gauge go off; tachometer 0 rpm (With EyeSight) EyeSight, pre-collision, lane- off illuminate; ABS not illuminate	CHECK ENGINE, VDC, ABS illuminate. Hill hold, SI-DRIVE (S), CRUISE blink (With EyeSight) EyeSight, pre-collision, lane- off illuminate; ABS not illuminate	Headlight beam indicator illuminate	No abnormality	VDC, ABS, EyeSight, pre-collision, lane- off illuminate; hill hold blink	No abnormality

*1: When U0073 occurs, other U-codes are not stored. (Judge timing affects the storing order.)

*2: The number of DTC memory is limited to 8 items. (Older items are preferentially stored.)

*3: The number of DTC memory is limited to 5 items. (Older items are preferentially stored.)

*4: The number of DTC memory is limited to 2 items. (Older items are preferentially stored.)

*5: All types of DTCs can be simultaneously stored. When U0073 occurs, other U-codes are not displayed.

*6: All types of DTCs can be simultaneously stored.

*7: The number of DTC memory is limited to 1 item for Current and 3 items for Latest.

*8: If C1431 contains a current malfunction after repair, perform IGN OFF → ON. (It remains immediately after repair.)

*9: All types of DTCs can be simultaneously stored.

*10: All types of DTCs can be simultaneously stored. DTC in parenthesis is not always detected.

*11: Up to three DTCs can be stored for each of current, old, and older trouble occurrence trips. When U0073 occurs, data no-receive is not stored.

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

2. Lo-side circuit of CAN communication circuit is open.

NOTE:

- If the module has a limit of DTC memory and the number of DTC occurrence exceeds the limit, older DTCs are preferentially stored.
- When there is no description in Current, it is referred to as "None".
- When DTC is in parentheses, it is referred to as "Not always occur".
- "Trouble exists" is referred to as the status before performing inspection and repair. "Trouble existed" is referred to as the status before performing DTC clear after repair.

Control module		Stereo camera vicinity	Stereo camera vicinity	VDC CM vicinity	VDC CM vicinity	Keyless access vicinity	Keyless access vicinity	Body integrated unit (VDC CM side) vicinity	Body integrated unit (VDC CM side) vicinity
Detailed location		Lo side	Lo side	Lo side	Lo side	Lo side	Lo side	Lo side	Lo side
Detailed trouble mode		Open	Open	Open	Open	Open	Open	Open	Open
Trouble status		Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
DTC reading result from each module using Subaru Select Monitor	Stereo camera ^{*11}	Communication failure	Latest B2801 U0100 U0101 (Old) U0100 U0101 U0122 U0140 U0155 U1120 Any 3 items from above	Current B2806 B2801 U0122 (Old) U0122	Latest B2807 B2806 B2801 (Old) B2806 B2801 U0122 (Older) U0122	Current None Past None	Current None Past None	Communication failure	(Old) U0100 U0101 U0155 (Older) Same as above
	VDC CM ^{*1*8}	Current U1235 Past Same as above	Past U1235	Communication failure	Current C1424 C1431 Past C1424 C1431 U0073 U0100 U0101 U0126 U0140 U0123 U1120 U1235	Current None Past None	Current None Past None	Communication failure	Current C1424 C1431 Past C1424 C1431 U0073 U0100 U0101 U0126 U0140 U0123 U1120

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module		Stereo camera vicinity	Stereo camera vicinity	VDC CM vicinity	VDC CM vicinity	Keyless access vicinity	Keyless access vicinity	Body integrated unit (VDC CM side) vicinity	Body integrated unit (VDC CM side) vicinity
Detailed location		Lo side	Lo side	Lo side	Lo side	Lo side	Lo side	Lo side	Lo side
Detailed trouble mode		Open	Open	Open	Open	Open	Open	Open	Open
Trouble status		Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
DTC reading result from each module using Subaru Select Monitor	Keyless access CM ^{*9}	None	None	Current U0122 Past Same as above	Past U0122	Communication failure	Past (U0073) (*) U0100 U0101 U0122 U0140 U0155 U1120 When * occurs, part of no-receive judgment may not be stored.	Current U0122 Past Same as above	Past U0122
	Body integrated unit ^{*2}	None	None	Current U0122 Past Same as above	Past U0122	Current U0327 Past Same as above	Past U0327	Current U0122 Past Same as above	Past U0122
	Combination meter ^{*3}	Current U1235 Past Same as above	Past U1235	Current U0122 Past Same as above	Past U0122	Current U0327 Past Same as above	Past U0327	Current U0122 U1235 Past Same as above	Past U0122 U1235
	MFD ^{*4}	Current U1235 Past Same as above	Past U1235	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	A/C control panel ^{*5}	Current None Past None	Current None Past None	Current U0122 Past Same as above	Past U0122	Current None Past None	Current None Past None	Current U0122 Past Same as above	Past U0122
	TCM ^{*1}	Current U1235 Past Same as above	Past U1235	Current U0122 Past Same as above	Past U0122	Current None Past None	Current None Past None	Current U0122 U1235 Past Same as above	Past U0122 U1235



List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module		Stereo camera vicinity	Stereo camera vicinity	VDC CM vicinity	VDC CM vicinity	Keyless access vicinity	Keyless access vicinity	Body integrated unit (VDC CM side) vicinity	Body integrated unit (VDC CM side) vicinity
Detailed location		Lo side	Lo side	Lo side	Lo side	Lo side	Lo side	Lo side	Lo side
Detailed trouble mode		Open	Open	Open	Open	Open	Open	Open	Open
Trouble status		Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
DTC reading result from each module using Subaru Select Monitor	A/B CM ^{*6}	Current None	Current None	Current None	Current None	Current None	Current None	Current None	Current None
		Past None	Past None	Past None	Past None	Past None	Past None	Past None	Past None
	Electric power steering CM ^{*7}	Current None	Current None	Current U0122	Past U0122	Current None	Current None	Current U0122	Past U0122
		Past None	Past None	Past Same as above		Past None	Past None	Past Same as above	
	Auto Start Stop CM ^{*10}	Current None	Current None	Current (U0122)	Past (U0122)	Current None	Current None	Current (U0122)	Past (U0122)
		Past None	Past None	Past Same as above		Past None	Past None	Past Same as above	
	ECM ^{*1}	Current None	Current None	Current U0122 P0700 [*] *AT only	Past U0122 P0700 [*] *AT only	Current None	Current None	Current U0122 P0700 [*] *AT only	Past U0122 P0700 [*] *AT only
		Past None	Past None	Past Same as above		Past None	Past None	Past Same as above	
	Auto headlight beam leveler CM ^{*6}	Current None	Current None	Current U0122	Past U0122	Current None	Current None	Current U0122	Past U0122
		Past None	Past None	Past Same as above		Past None	Past None	Past Same as above	



List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module	Stereo camera vicinity	Stereo camera vicinity	VDC CM vicinity	VDC CM vicinity	Keyless access vicinity	Keyless access vicinity	Body integrated unit (VDC CM side) vicinity	Body integrated unit (VDC CM side) vicinity
Detailed location	Lo side	Lo side	Lo side	Lo side	Lo side	Lo side	Lo side	Lo side
Detailed trouble mode	Open	Open	Open	Open	Open	Open	Open	Open
Trouble status	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
Indicators illuminate/blink.	Pre-collision, lane-off illuminate EyeSight, AT OIL TEMP blink	No change	CHECK ENGINE, VDC, VDC off, ABS, BRAKE, headlight beam leveler indicator illuminate; AT OIL TEMP blink; hill hold blink; SI-DRIVE (S) blink; CRUISE blink (With EyeSight) EyeSight, pre-collision, lane-off illuminate; CRUISE not blink	CHECK ENGINE, VDC, ABS illuminate; hill hold blink; SI-DRIVE (S) blink; CRUISE blink (With EyeSight) EyeSight, pre-collision, lane-off illuminate; CRUISE not blink; ABS not illuminate	No change	No change	CHECK ENGINE, VDC, VDC off, ABS, BRAKE, headlight beam leveler indicator illuminate; AT OIL TEMP blink; hill hold blink; SI-DRIVE (S) blink; CRUISE blink (With EyeSight) EyeSight, pre-collision, lane-off illuminate; CRUISE not blink	CHECK ENGINE, VDC, ABS illuminate; hill hold blink; SI-DRIVE (S) blink; CRUISE blink (With EyeSight) EyeSight, pre-collision, lane-off illuminate; CRUISE not illuminate

*1: When U0073 occurs, other U-codes are not stored. (Judge timing affects the storing order.)

*2: The number of DTC memory is limited to 8 items. (Older items are preferentially stored.)

*3: The number of DTC memory is limited to 5 items. (Older items are preferentially stored.)

*4: The number of DTC memory is limited to 2 items. (Older items are preferentially stored.)

*5: All types of DTCs can be simultaneously stored. When U0073 occurs, other U-codes are not displayed.

*6: All types of DTCs can be simultaneously stored.

*7: The number of DTC memory is limited to 1 item for Current and 3 items for Latest.

*8: If C1431 contains a current malfunction after repair, perform IGN OFF → ON. (It remains immediately after repair.)

*9: All types of DTCs can be simultaneously stored.

*10: All types of DTCs can be simultaneously stored. DTC in parenthesis is not always detected.

*11: Up to three DTCs can be stored for each of current, old, and older trouble occurrence trips. When U0073 occurs, data no-receive is not stored.

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module		Body integrated unit (ECM side) vicinity	Body integrated unit (ECM side) vicinity	Combination meter vicinity	Combination meter vicinity	MFD vicinity	MFD vicinity	A/C control panel vicinity	A/C control panel vicinity
Detailed location		Lo side	Lo side	Lo side	Lo side	Lo side	Lo side	Lo side	Lo side
Detailed trouble mode		Open	Open	Open	Open	Open	Open	Open	Open
Trouble status		Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
DTC reading result from each module using Subaru Select Monitor	Stereo camera ^{*11}	Communication failure	(Old) U0100 U0101 U0155	Latest B2806 U0155 (Old) U0155	Latest B2807 B2806 (Old) B2806 U0155 (Older) U0155	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	VDC CM ^{*1*8}	Communication failure	Current C1424 C1431 Past C1424 C1431 U0100 U0101 U0126 U0123 U1120	Current C1424 Past Same as above	Current C1424 Past Same as above	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Keyless access CM ^{*9}	Current U0122 U0140 Past Same as above	Past U0122 U0140	Current U0155 Past Same as above	Past U0155	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Body integrated unit ^{*2}	Communication failure	Past U0100 U0101 U0155 U0164 U0327	Current U0155 Past Same as above	Past U0155	Current None Past None	Current None Past None	Current U0164 Past Same as above	Past U0164
	Combination meter ^{*3}	Current U0122 U0140 U1235 Past Same as above	Past U0122 U0140 U1235	Communication failure	Past U0073 U0100 U0101 U0122 U0131 U0140 U0151 U0164 U0327 U1120 U1235 Any 5 items from above	Current None Past None	Current None Past None	Current U0164 Past Same as above	Past U0164



List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module		Body integrated unit (ECM side) vicinity	Body integrated unit (ECM side) vicinity	Combination meter vicinity	Combination meter vicinity	MFD vicinity	MFD vicinity	A/C control panel vicinity	A/C control panel vicinity
Detailed location		Lo side	Lo side	Lo side	Lo side	Lo side	Lo side	Lo side	Lo side
Detailed trouble mode		Open	Open	Open	Open	Open	Open	Open	Open
Trouble status		Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
DTC reading result from each module using Subaru Select Monitor	MFD ^{*4}	Current U1650 Past Same as above	Past U1650	Current (U1650) Past Same as above	Past (U1650)	Communication failure	Past (U0073)	Current None Past None	Current None Past None
	A/C control panel ^{*5}	Current U0122 U0140 Past Same as above	Past U0122 U0140	Current U0155 Past Same as above	Past U0155	Current None Past None	Current None Past None	Communication failure	Past U0073 U0100 U0155 U0140 U0122 U0101 U1120
	TCM ^{*1}	Current U0122 U0140 U1235 Past Same as above	Past U0122 U0140 U1235	Current U0155 Past Same as above	Past U0155	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	A/B CM ^{*6}	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Electric power steering CM ^{*7}	Current U0122 Past Same as above	Past U0122	Current U0155 Past Same as above	Past U0155	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Auto Start Stop CM ^{*10}	Current (U0122) (U0140) Past Same as above	Past (U0140) (U0122)	Current (U0155) Past Same as above	Past (U0155)	Current None Past None	Current None Past None	Current (U0164) Past Same as above	Past (U0164)
	ECM ^{*1}	Current U0122 P0700 [*] *AT only Past Same as above	Past U0122 P0700 [*] *AT only	Current U0155 Past Same as above	Past U0155	Current None Past None	Current None Past None	Current None Past None	Current None Past None



List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module		Body integrated unit (ECM side) vicinity	Body integrated unit (ECM side) vicinity	Combination meter vicinity	Combination meter vicinity	MFD vicinity	MFD vicinity	A/C control panel vicinity	A/C control panel vicinity
Detailed location		Lo side	Lo side	Lo side	Lo side	Lo side	Lo side	Lo side	Lo side
Detailed trouble mode		Open	Open	Open	Open	Open	Open	Open	Open
Trouble status		Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
DTC reading result from each module using Subaru Select Monitor	Auto headlight beam leveler CM*6	Current U0122 U0140	Past U0122 U0140	Current None	Current None	Current None	Current None	Current None	Current None
		Past Same as above		Past None	Past None	Past None	Past None	Past None	Past None

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module	Body integrated unit (ECM side) vicinity	Body integrated unit (ECM side) vicinity	Combination meter vicinity	Combination meter vicinity	MFD vicinity	MFD vicinity	A/C control panel vicinity	A/C control panel vicinity
Detailed location	Lo side	Lo side	Lo side	Lo side	Lo side	Lo side	Lo side	Lo side
Detailed trouble mode	Open	Open	Open	Open	Open	Open	Open	Open
Trouble status	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
Indicators illuminate/blink.	CHECK ENGINE, VDC, VDC off, ABS, BRAKE, headlight beam leveler indicator illuminate; AT OIL TEMP blink; hill hold blink; SI-DRIVE (S) blink; CRUISE blink; Auto Start Stop illuminate (With EyeSight) EyeSight, pre-collision, lane-off illuminate; CRUISE not blink	CHECK ENGINE, VDC, ABS illuminate; hill hold blink; SI-DRIVE (S) blink; CRUISE blink (With EyeSight) EyeSight, pre-collision, lane-off illuminate; CRUISE not blink; ABS not illuminate; CHECK ENGINE not illuminate	CHECK ENGINE, Air-bag illuminate; VDC, VDC off, BRAKE, ABS intermittently illuminate; hill hold, SI-DRIVE (i) always blink; EMPTY intermittently illuminate; engine coolant temperature gauge (red/blue) blink as a set; fuel gauge 0 when EMPTY illuminate Tachometer 0 rpm ←→ normal Shift indicator go off occasionally CRUISE, EPS illuminate occasionally (AT OIL TEMP go off) (With EyeSight) BRAKE, pre-collision, lane-off illuminate; AT OIL TEMP, EyeSight blink (constant frequency)	CHECK ENGINE illuminate; hill hold, SI-DRIVE (S), CRUISE blink (With EyeSight) EyeSight, pre-collision, lane-off illuminate; CRUISE not blink; VDC illuminate	No change Door-open may not be reflected (not indicated as open) on MFD	No change No change in MFD	No change A/C unit Rear defogger only no response A/C operation not reflected on MFD	No change

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

- *1: When U0073 occurs, other U-codes are not stored. (Judge timing affects the storing order.)
- *2: The number of DTC memory is limited to 8 items. (Older items are preferentially stored.)
- *3: The number of DTC memory is limited to 5 items. (Older items are preferentially stored.)
- *4: The number of DTC memory is limited to 2 items. (Older items are preferentially stored.)
- *5: All types of DTCs can be simultaneously stored. When U0073 occurs, other U-codes are not displayed.
- *6: All types of DTCs can be simultaneously stored.
- *7: The number of DTC memory is limited to 1 item for Current and 3 items for Latest.
- *8: If C1431 contains a current malfunction after repair, perform IGN OFF → ON. (It remains immediately after repair.)
- *9: All types of DTCs can be simultaneously stored.
- *10: All types of DTCs can be simultaneously stored. DTC in parenthesis is not always detected.
- *11: Up to three DTCs can be stored for each of current, old, and older trouble occurrence trips. When U0073 occurs, data no-receive is not stored.

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module		Steering angle sensor vicinity	Steering angle sensor vicinity	TCM vicinity	TCM vicinity	A/B vicinity	A/B vicinity	Electric power steering CM vicinity	Electric power steering CM vicinity
Detailed location		Lo side	Lo side	Lo side	Lo side	Lo side	Lo side	Lo side	Lo side
Detailed trouble mode		Open	Open	Open	Open	Open	Open	Open	Open
Trouble status		Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
DTC reading result from each module using Subaru Select Monitor	Stereo camera ^{*11}	Current None Past None	Current None Past None	Latest B2806 B2801 U0101 (Old) U0101	Current B2807 B2806 B2801 (Old) B2806 B2801 U0101 (Older) U0101	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	VDC CM ^{*1*8}	Current U0126 Past Same as above	Past U0126	Current C1424 U0101 Past Same as above	Current C1424 C1431 Past C1424 C1431 U0101	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Keyless access CM ^{*9}	Current None Past None	Current None Past None	Current U0101 Past Same as above	Past U0101	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Body integrated unit ^{*2}	Current None Past None	Current None Past None	Current U0101 Past Same as above	Past U0101	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Combination meter ^{*3}	Current None Past None	Current None Past None	Current U0101 Past Same as above	Past U0101	Current U0151 Past Same as above	Past U0151	Current U0131 Past Same as above	Past U0131
	MFD ^{*4}	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	A/C control panel ^{*5}	Current None Past None	Current None Past None	Current U0101 Past Same as above	Past U0101	Current None Past None	Current None Past None	Current None Past None	Current None Past None



List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module		Steering angle sensor vicinity	Steering angle sensor vicinity	TCM vicinity	TCM vicinity	A/B vicinity	A/B vicinity	Electric power steering CM vicinity	Electric power steering CM vicinity
Detailed location		Lo side	Lo side	Lo side	Lo side	Lo side	Lo side	Lo side	Lo side
Detailed trouble mode		Open	Open	Open	Open	Open	Open	Open	Open
Trouble status		Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
DTC reading result from each module using Subaru Select Monitor	TCM ^{*1}	Current None Past None	Current None Past None	Communication failure	Past U0100 U0122 U0140 U0155 U1120 U1235	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	A/B CM ^{*6}	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Communication failure Past None	Current None Past None	Current None Past None	Current None Past None
	Electric power steering CM ^{*7}	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Communication failure	Past U0100 U0122 U0155 U1120
	Auto Start Stop CM ^{*10}	Current None Past None	Current None Past None	Current (U0101) Past Same as above	Past (U0101)	Current None Past None	Current None Past None	Current (U0131) Past Same as above	Past (U0131)
	ECM ^{*1}	Current None Past None	Current None Past None	Current U0101 Past Same as above	Past U0101	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Auto headlight beam leveler CM ^{*6}	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None



List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module	Steering angle sensor vicinity	Steering angle sensor vicinity	TCM vicinity	TCM vicinity	A/B vicinity	A/B vicinity	Electric power steering CM vicinity	Electric power steering CM vicinity
Detailed location	Lo side	Lo side	Lo side	Lo side	Lo side	Lo side	Lo side	Lo side
Detailed trouble mode	Open	Open	Open	Open	Open	Open	Open	Open
Trouble status	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
Indicators illuminate/blink.	VDC, ABS illuminate; hill hold blink	No change	CHECK ENGINE, VDC, ABS illuminate; hill hold, SI-DRIVE (S) blink; CRUISE blink; shift indicator go off (With EyeSight) EyeSight, pre-collision, lane-off illuminate; CRUISE not blink; ABS not illuminate; VDC illuminate	CHECK ENGINE, VDC, ABS illuminate; hill hold, SI-DRIVE (S) blink; CRUISE blink (With EyeSight) EyeSight, pre-collision, lane-off illuminate; CRUISE not blink; ABS not illuminate; VDC illuminate	A/B illuminates.	No change	EPS warning light illumination	No change

*1: When U0073 occurs, other U-codes are not stored. (Judge timing affects the storing order.)

*2: The number of DTC memory is limited to 8 items. (Older items are preferentially stored.)

*3: The number of DTC memory is limited to 5 items. (Older items are preferentially stored.)

*4: The number of DTC memory is limited to 2 items. (Older items are preferentially stored.)

*5: All types of DTCs can be simultaneously stored. When U0073 occurs, other U-codes are not displayed.

*6: All types of DTCs can be simultaneously stored.

*7: The number of DTC memory is limited to 1 item for Current and 3 items for Latest.

*8: If C1431 contains a current malfunction after repair, perform IGN OFF → ON. (It remains immediately after repair.)

*9: All types of DTCs can be simultaneously stored.

*10: All types of DTCs can be simultaneously stored. DTC in parenthesis is not always detected.

*11: Up to three DTCs can be stored for each of current, old, and older trouble occurrence trips. When U0073 occurs, data no-receive is not stored.

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module		Auto Start Stop CM vicinity	Auto Start Stop CM vicinity	ECM vicinity	ECM vicinity	Headlight beam lev- eler CM vicinity	Headlight beam lev- eler CM vicinity	Yaw rate & G sensor vicinity	Yaw rate & G sensor vicinity
Detailed location		Lo side	Lo side	Lo side	Lo side	Lo side	Lo side	Lo side	Lo side
Detailed trouble mode		Open	Open	Open	Open	Open	Open	Open	Open
Trouble status		Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
DTC reading result from each module using Subaru Select Monitor	Stereo camera ^{*11}	Latest B2801 (Old) B2809 B2801	Latest B2801 (Old) B2801 (Older) B2801 B2809	Latest B2801 U0100 (Old) U0100	Latest B2807 B2806 B2801 (Old) B2801 U0100 (Older) U0100	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	VDC CM ^{*1*8}	Current C1431 U1120 Past Same as above	Current C1431 Past C1431 U1120	Current C1431 U0100 Past Same as above	Current C1424 C1431 Past C1424 C1431 U0100	Current None Past None	Current None Past None	Current C1721 U0123 Past Same as above	Past C1721 U0123
	Keyless access CM ^{*9}	Current U1120 Past None	Past U1120	Current U0100 Past Same as above	Past U0100	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Body integrated unit ^{*2}	Current None Past None	Current None Past None	Current U0100 Past Same as above	Past U0100	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Combination meter ^{*3}	Current U1120 Past Same as above	Past U1120	Current U0100 Past Same as above	Past U0100	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	MFD ^{*4}	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	A/C control panel ^{*5}	Current U1120 Past Same as above	Past U1120	Current U0100 Past Same as above	Past U0100	Current None Past None	Current None Past None	Current None Past None	Current None Past None

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module		Auto Start Stop CM vicinity	Auto Start Stop CM vicinity	ECM vicinity	ECM vicinity	Headlight beam lev-eler CM vicinity	Headlight beam lev-eler CM vicinity	Yaw rate & G sensor vicinity	Yaw rate & G sensor vicinity
Detailed location		Lo side	Lo side	Lo side	Lo side	Lo side	Lo side	Lo side	Lo side
Detailed trouble mode		Open	Open	Open	Open	Open	Open	Open	Open
Trouble status		Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
DTC reading result from each module using Subaru Select Monitor	TCM ^{*1}	Current U1120	Past U1120	Current U0100	Past U0100	Current None	Current None	Current None	Current None
		Past Same as above		Past Same as above		Past None	Past None	Past None	Past None
	A/B CM ^{*6}	Current None	Current None	Current None	Current None	Current None	Current None	Current None	Current None
		Past None	Past None	Past None	Past None	Past None	Past None	Past None	Past None
	Electric power steering CM ^{*7}	Current U1120	Past U1120	Current U0100	Past U0100	Current None	Current None	Current None	Current None
		Past Same as above		Past Same as above		Past None	Past None	Past None	Past None
	Auto Start Stop CM ^{*10}	Communication failure	Current (P1614)	Current (U0100)	Past (U0100)	Current None	Current None	Current None	Current None
			Past Same as above	Past Same as above		Past None	Past None	Past None	Past None
	ECM ^{*1}	Current None	Past (P1531)	Communication failure	Past U0073 (*) (U0101) (U0122) (U0155)	Current None	Current None	Current None	Current None
		Past (P1531)			*Occasionally this may not occur. In such a case, all other data no-receive errors will remain.	Past None	Past None	Past None	Past None
	Headlight beam leveler CM ^{*6}	Current None	Current None	Current None	Current None	Communication failure	Past U0122 U0140	Current None	Current None
		Past None	Past None	Past None	Past None			Past None	Past None

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module	Auto Start Stop CM vicinity	Auto Start Stop CM vicinity	ECM vicinity	ECM vicinity	Headlight beam lev- eler CM vicinity	Headlight beam lev- eler CM vicinity	Yaw rate & G sensor vicinity	Yaw rate & G sensor vicinity
Detailed location	Lo side	Lo side	Lo side	Lo side	Lo side	Lo side	Lo side	Lo side
Detailed trouble mode	Open	Open	Open	Open	Open	Open	Open	Open
Trouble status	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
Indicators illuminate/blink.	(Without EyeSight) VDC, ABS illuminate. Auto Start Stop CM OFF, AT OIL TEMP blink (With EyeSight) VDC, EyeSight, pre-collision, lane- off illuminate Auto Start Stop CM OFF, AT OIL TEMP blink	(Without EyeSight) VDC, ABS illuminate. (With EyeSight) VDC, EyeSight, pre-collision, lane- off illuminate Auto Start Stop OFF blink	CHECK ENGINE, VDC, ABS, EMPTY, AWD, AT OIL TEMP, EPS illu- minate; engine coolant tempera- ture gauge (red/blue) blink Hill hold, SI-DRIVE (I) blink; fuel gauge go off; tachome- ter 0 rpm (With EyeSight) EyeSight, pre-collision, lane- off illuminate; ABS not illuminate	CHECK ENGINE, VDC, ABS illuminate. Hill hold, SI-DRIVE (S), CRUISE blink (With EyeSight) EyeSight, pre-collision, lane- off illuminate; ABS not illuminate	Headlight beam indi- cator illu- minate	No abnor- mality	VDC, ABS, EyeSight, pre-collision, lane- off illuminate; hill hold blink	No abnor- mality

*1: When U0073 occurs, other U-codes are not stored. (Judge timing affects the storing order.)

*2: The number of DTC memory is limited to 8 items. (Older items are preferentially stored.)

*3: The number of DTC memory is limited to 5 items. (Older items are preferentially stored.)

*4: The number of DTC memory is limited to 2 items. (Older items are preferentially stored.)

*5: All types of DTCs can be simultaneously stored. When U0073 occurs, other U-codes are not displayed.

*6: All types of DTCs can be simultaneously stored.

*7: The number of DTC memory is limited to 1 item for Current and 3 items for Latest.

*8: If C1431 contains a current malfunction after repair, perform IGN OFF → ON. (It remains immediately after repair.)

*9: All types of DTCs can be simultaneously stored.

*10: All types of DTCs can be simultaneously stored. DTC in parenthesis is not always detected.

*11: Up to three DTCs can be stored for each of current, old, and older trouble occurrence trips. When U0073 occurs, data no-receive is not stored.

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

3. Hi/Lo-side circuit of CAN communication circuit is open.

NOTE:

- If the module has a limit of DTC memory and the number of DTC occurrence exceeds the limit, older DTCs are preferentially stored.
- When there is no description in Current, it is referred to as "None".
- When DTC is in parentheses, it is referred to as "Not always occur".
- "Trouble exists" is referred to as the status before performing inspection and repair. "Trouble existed" is referred to as the status before performing DTC clear after repair.

Control module		Stereo camera vicinity	Stereo camera vicinity	VDC CM vicinity	VDC CM vicinity	Keyless access CM vicinity	Keyless access CM vicinity	Body integrated unit (VDC side) vicinity	Body integrated unit (VDC side) vicinity
Detailed location		Both sides	Both sides	Both sides	Both sides	Both sides	Both sides	Both sides	Both sides
Detailed trouble mode		Open	Open	Open	Open	Open	Open	Open	Open
Trouble status		Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
DTC reading result from each module using Subaru Select Monitor	Stereo camera *11	Communication failure	Latest B2801 U0100 U0101 (Old) U0100 U0101 U0122 U0140 U0155 U1120 Any 3 items from above	Current B2806 B2801 U0122 (Old) U0122	Latest B2807 B2806 B2801 (Old) B2806 B2801 U0122 (Older) U0122	Current None Past None	Current None Past None	Communication failure	(Old) U0100 U0101 U0155
	VDCCM *1*8	Current U1235 Past Same as above	Current None Past U1235	Communication failure	Current C1424 C1431 Past C1424 C1431 U0100 U0101 U0126 U0140 U0123 U1120 U1235	Current None Past None	Current None Past None	Communication failure	Current C1424 C1431 Past C1424 C1431 U0100 U0101 U0126 U0140 U0123 U1120

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module		Stereo camera vicinity	Stereo camera vicinity	VDC CM vicinity	VDC CM vicinity	Keyless access CM vicinity	Keyless access CM vicinity	Body integrated unit (VDC side) vicinity	Body integrated unit (VDC side) vicinity
Detailed location		Both sides	Both sides	Both sides	Both sides	Both sides	Both sides	Both sides	Both sides
Detailed trouble mode		Open	Open	Open	Open	Open	Open	Open	Open
Trouble status		Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
DTC reading result from each module using Subaru Select Monitor	Keyless access CM ^{*9}	None	None	Current U0122 Past Same as above	Past U0122	Communication failure	Past (U0073) (*) U0100 U0101 U0122 U0140 U0155 U1120 *When bus off occurs, part of no-receive judgment may not be stored.	Current U0122 Past Same as above	Past U0122
	Body integrated unit ^{*2}	None	None	Current U0122 Past Same as above	Past U0122	Current U0327 Past Same as above	Past U0327	Current U0122 Past Same as above	Past U0122
	Combination meter ^{*3}	Current U1235 Past Same as above	Past U1235	Current U0122 Past Same as above	Past U0122	Current U0327 Past Same as above	Past U0327	Current U0122 U1235 Past Same as above	Past U0122 U1235
	MFD ^{*4}	Current U1235 Past Same as above	Past U1235	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	A/C control panel ^{*5}	Current None Past None	Current None Past None	Current U0122 Past Same as above	Past U0122	Current None Past None	Current None Past None	Current U0122 Past Same as above	Past U0122
	TCM ^{*1}	Current U1235 Past Same as above	Past U1235	Current U0122 Past Same as above	Past U0122	Current None Past None	Current None Past None	Current U0122 U1235 Past Same as above	Past U0122 U1235



List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module		Stereo camera vicinity	Stereo camera vicinity	VDC CM vicinity	VDC CM vicinity	Keyless access CM vicinity	Keyless access CM vicinity	Body integrated unit (VDC side) vicinity	Body integrated unit (VDC side) vicinity
Detailed location		Both sides	Both sides	Both sides	Both sides	Both sides	Both sides	Both sides	Both sides
Detailed trouble mode		Open	Open	Open	Open	Open	Open	Open	Open
Trouble status		Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
DTC reading result from each module using Subaru Select Monitor	A/B CM ^{*6}	Current None	Current None	Current None	Current None	Current None	Current None	Current None	Current None
		Past None	Past None	Past None	Past None	Past None	Past None	Past None	Past None
	Electric power steering CM ^{*7}	Current None	Current None	Current U0122	Past U0122	Current None	Current None	Current U0122	Past U0122
		Past None	Past None	Past Same as above		Past None	Past None	Past Same as above	
	Auto Start Stop CM ^{*10}	Current None	Current None	Current (U0122)	Past (U0122)	Current None	Current None	Current (U0122)	Past (U0122)
		Past None	Past None	Past Same as above		Past None	Past None	Past Same as above	
	ECM ^{*1}	Current None	Current None	Current U0122 P0700 [*] *AT only	Past U0122 P0700 [*] *AT only	Current None	Current None	Current U0122 P0700 [*] *AT only	Past U0122 P0700 [*] *AT only
		Past None	Past None	Past Same as above		Past None	Past None	Past Same as above	
	Auto headlight beam leveler CM ^{*6}	Current None	Current None	Current U0122	Past U0122	Current None	Current None	Current U0122	Past U0122
		Past None	Past None	Past Same as above		Past None	Past None	Past Same as above	



List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module	Stereo camera vicinity	Stereo camera vicinity	VDC CM vicinity	VDC CM vicinity	Keyless access CM vicinity	Keyless access CM vicinity	Body integrated unit (VDC side) vicinity	Body integrated unit (VDC side) vicinity
Detailed location	Both sides	Both sides	Both sides	Both sides	Both sides	Both sides	Both sides	Both sides
Detailed trouble mode	Open	Open	Open	Open	Open	Open	Open	Open
Trouble status	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
Indicators illuminate/blink.	Pre-collision, lane-off illuminate EyeSight, AT OIL TEMP blink	No change	CHECK ENGINE, VDC, VDC off, ABS, BRAKE, headlight beam leveler indicator illuminate; AT OIL TEMP blink; hill hold blink; SI-DRIVE (S) blink; CRUISE blink (With EyeSight) EyeSight, pre-collision, lane-off illuminate; CRUISE not blink	CHECK ENGINE, VDC, ABS illuminate; hill hold, SI-DRIVE (S), CRUISE blink (With EyeSight) EyeSight, pre-collision, lane-off illuminate; CRUISE not blink; ABS not illuminate	No change	No change	CHECK ENGINE, VDC, ABS, VDC off, BRAKE, headlight beam leveler indicator illuminate; AT OIL TEMP, CRUISE blink; hill hold blink; SI-DRIVE (S) blink (With EyeSight) EyeSight, pre-collision, lane-off illuminate; CRUISE not blink	CHECK ENGINE, VDC, ABS illuminate; hill hold, SI-DRIVE (S), CRUISE blink (With EyeSight) EyeSight, pre-collision, lane-off illuminate; CRUISE not blink; ABS not illuminate

*1: When U0073 occurs, other U-codes are not stored. (Judge timing affects the storing order.)

*2: The number of DTC memory is limited to 8 items. (Older items are preferentially stored.)

*3: The number of DTC memory is limited to 5 items. (Older items are preferentially stored.)

*4: The number of DTC memory is limited to 2 items. (Older items are preferentially stored.)

*5: All types of DTCs can be simultaneously stored. When U0073 occurs, other U-codes are not displayed.

*6: All types of DTCs can be simultaneously stored.

*7: The number of DTC memory is limited to 1 item for Current and 3 items for Latest.

*8: If C1431 contains a current malfunction after repair, perform IGN OFF → ON. (It remains immediately after repair.)

*9: All types of DTCs can be simultaneously stored.

*10: All types of DTCs can be simultaneously stored. DTC in parenthesis is not always detected.

*11: Up to three DTCs can be stored for each of current, old, and older trouble occurrence trips. When U0073 occurs, data no-receive is not stored.

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module		Body integrated unit (ECM side) vicinity	Body integrated unit (ECM side) vicinity	Combination meter vicinity	Combination meter vicinity	MFD vicinity	MFD vicinity	A/C control panel vicinity	A/C control panel vicinity
Detailed location		Both sides	Both sides	Both sides	Both sides	Both sides	Both sides	Both sides	Both sides
Detailed trouble mode		Open	Open	Open	Open	Open	Open	Open	Open
Trouble status		Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
DTC reading result from each module using Subaru Select Monitor	Stereo camera ^{*11}	Communication failure	(Old) U0100 U0101 U0155	Latest B2806 U0155 (Old) U0155	Latest B2807 B2806 (Old) B2806 U0155 (Older) U0155	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	VDCCM ^{*1*8}	Communication failure	Current C1424 C1431 Past C1424 C1431 U0100 U0101 U0126 U0123 U1120	Current C1424 Past Same as above	Current C1424 Past Same as above	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Keyless access CM ^{*9}	Current U0122 U0140 Past Same as above	Past U0122 U0140	Current U0155 Past Same as above	Past U0155	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Body integrated unit ^{*2}	Communication failure	Past U0100 U0101 U0155 U0164 U0327	Current U0155 Past Same as above	Past U0155	Current None Past None	Current None Past None	Current U0164 Past Same as above	Past U0164
	Combination meter ^{*3}	Current U0122 U0140 U1235 Past Same as above	Past U0122 U0140 U1235	Communication failure	Past U0073 U0100 U0101 U0122 U0131 U0140 U0151 U0164 U0327 U1120 U1235 Any 5 items from above	Current None Past None	Current None Past None	Current U0164 Past Same as above	Past U0164



List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module		Body integrated unit (ECM side) vicinity	Body integrated unit (ECM side) vicinity	Combination meter vicinity	Combination meter vicinity	MFD vicinity	MFD vicinity	A/C control panel vicinity	A/C control panel vicinity
Detailed location		Both sides	Both sides	Both sides	Both sides	Both sides	Both sides	Both sides	Both sides
Detailed trouble mode		Open	Open	Open	Open	Open	Open	Open	Open
Trouble status		Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
DTC reading result from each module using Subaru Select Monitor	MFD ^{*4}	Current U1650 Past Same as above	Latest U1650	Current (U1650) Past Same as above	Past (U1650)	Communication failure	Past (U0073)	Current None Past None	Current None Past None
	A/C control panel ^{*5}	Current U0122 U0140 U1235 Past Same as above	Past U0122 U0140 U1235	Current U0155 Past Same as above	Past U0155	Current None Past None	Current None Past None	Communication failure	Past U0100 U0155 U0140 U0122 U0101 U1120
	TCM ^{*1}	Current U0122 U0140 Past Same as above	Past U0122 U0140	Current U0155 Past Same as above	Past U0155	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	A/B CM ^{*6}	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Electric power steering CM ^{*7}	Current U0122 Past Same as above	Past U0122	Current U0155 Past Same as above	Past U0155	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Auto Start Stop CM ^{*10}	Current (U0122) (U0140) Past Same as above	Past (U0140) (U0122)	Current (U0155) Past Same as above	Past (U0155)	Current None Past None	Current None Past None	Current (U0164) Past Same as above	Past (U0164)
	ECM ^{*1}	Current U0122 P0700 [*] *AT only Past Same as above	Past U0122 P0700 [*] *AT only	Current U0155 Past Same as above	Past U0155	Current None Past None	Current None Past None	Current None Past None	Current None Past None

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module		Body integrated unit (ECM side) vicinity	Body integrated unit (ECM side) vicinity	Combination meter vicinity	Combination meter vicinity	MFD vicinity	MFD vicinity	A/C control panel vicinity	A/C control panel vicinity
Detailed location		Both sides	Both sides	Both sides	Both sides	Both sides	Both sides	Both sides	Both sides
Detailed trouble mode		Open	Open	Open	Open	Open	Open	Open	Open
Trouble status		Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
DTC reading result from each module using Subaru Select Monitor	Auto headlight beam leveler CM ^{*6}	Current U0122 U0140	Past U0122 U0140	Current None	Current None	Current None	Current None	Current None	Current None
		Past Same as above		Past None	Past None	Past None	Past None	Past None	Past None
Indicators illuminate/blink.		CHECK ENGINE, VDC, VDC off, ABS, BRAKE illuminate; headlight beam leveler indicator illuminate AT OIL TEMP, CRUISE, hill hold, SI-DRIVE (S) blink Auto Start Stop illuminate (With EyeSight) EyeSight, pre-collision, lane-off illuminate; CRUISE not blink	CHECK ENGINE, VDC, ABS illuminate; hill hold, SI-DRIVE (S), CRUISE blink (With EyeSight) EyeSight, pre-collision, lane-off illuminate; CRUISE not blink; ABS not illuminate; CHECK ENGINE not illuminate	CHECK ENGINE, Airbag, VDC, VDC off, BRAKE, ABS, EMPTY, EPS illuminate Hill hold, SI-DRIVE (I) blink; engine coolant temperature gauge (red/blue) blink Fuel gauge 0; tachometer 0 rpm; shift indicator go off (CRUISE, AT OIL go off) (With EyeSight) Pre-collision, lane-off illuminate; AT OIL TEMP, EyeSight blink	CHECK ENGINE illuminate; hill hold, SI-DRIVE (S), CRUISE blink (With EyeSight) EyeSight, pre-collision, lane-off illuminate; CRUISE not blink; VDC illuminate	No change Door-open not reflected (not indicated as open) on MFD	No change No change in MFD	No change A/C unit Rear defogger only no response A/C operation not reflected on MFD	No change



List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

- *1: When U0073 occurs, other U-codes are not stored. (Judge timing affects the storing order.)
- *2: The number of DTC memory is limited to 8 items. (Older items are preferentially stored.)
- *3: The number of DTC memory is limited to 5 items. (Older items are preferentially stored.)
- *4: The number of DTC memory is limited to 2 items. (Older items are preferentially stored.)
- *5: All types of DTCs can be simultaneously stored. When U0073 occurs, other U-codes are not displayed.
- *6: All types of DTCs can be simultaneously stored.
- *7: The number of DTC memory is limited to 1 item for Current and 3 items for Latest.
- *8: If C1431 contains a current malfunction after repair, perform IGN OFF → ON. (It remains immediately after repair.)
- *9: All types of DTCs can be simultaneously stored.
- *10: All types of DTCs can be simultaneously stored. DTC in parenthesis is not always detected.
- *11: Up to three DTCs can be stored for each of current, old, and older trouble occurrence trips. When U0073 occurs, data no-receive is not stored.

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module		Steering angle sensor vicinity	Steering angle sensor vicinity	TCM vicinity	TCM vicinity	A/B vicinity	A/B vicinity	Electric power steering CM vicinity	Electric power steering CM vicinity
Detailed location		Both sides	Both sides	Both sides	Both sides	Both sides	Both sides	Both sides	Both sides
Detailed trouble mode		Open	Open	Open	Open	Open	Open	Open	Open
Trouble status		Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
DTC reading result from each module using Subaru Select Monitor	Stereo camera ^{*11}	Current None Past None	Current None Past None	Latest B2806 B2801 U0101 (Old) U0101	Current B2807 B2806 B2801 (Old) B2806 B2801 U0101 (Older) U0101	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	VDC CM ^{*1*8}	Current U0126 Past Same as above	Past U0126	Current C1424 U0101 Past Same as above	Current C1424 C1431 Past C1424 C1431 U0101	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Keyless access CM ^{*9}	Current None Past None	Current None Past None	Current U0101 Past Same as above	Past U0101	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Body integrated unit ^{*2}	Current None Past None	Current None Past None	Current U0101 Past Same as above	Past U0101	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Combination meter ^{*3}	Current None Past None	Current None Past None	Current U0101 Past Same as above	Past U0101	Current U0151 Past Same as above	Past U0151	Current U0131 Past Same as above	Past U0131
	MFD ^{*4}	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	A/C control panel ^{*5}	Current None Past None	Current None Past None	Current U0101 Past Same as above	Past U0101	Current None Past None	Current None Past None	Current None Past None	Current None Past None



List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module		Steering angle sensor vicinity	Steering angle sensor vicinity	TCM vicinity	TCM vicinity	A/B vicinity	A/B vicinity	Electric power steering CM vicinity	Electric power steering CM vicinity
Detailed location		Both sides	Both sides	Both sides	Both sides	Both sides	Both sides	Both sides	Both sides
Detailed trouble mode		Open	Open	Open	Open	Open	Open	Open	Open
Trouble status		Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
DTC reading result from each module using Subaru Select Monitor	TCM* ¹	Current None Past None	Current None Past None	Communication failure	Past U0122 U0140 U0100 U0155 U1120 U1235	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	A/B CM* ⁶	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Communication failure Past None	Current None Past None	Current None Past None	Current None Past None
	Electric power steering CM* ⁷	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Communication failure Past U0100 U0122 U0155 U1120	Past U0100 U0122 U0155 U1120
	Auto Start Stop CM* ¹⁰	Current None Past None	Current None Past None	Current (U0101) Past Same as above	Past (U0101)	Current None Past None	Current None Past None	Current (U0131) Past Same as above	Past (U0131)
	ECM* ¹	Current None Past None	Current None Past None	Current U0101 Past Same as above	Past U0101	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Auto headlight beam leveler CM* ⁶	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None



List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module	Steering angle sensor vicinity	Steering angle sensor vicinity	TCM vicinity	TCM vicinity	A/B vicinity	A/B vicinity	Electric power steering CM vicinity	Electric power steering CM vicinity
Detailed location	Both sides	Both sides	Both sides	Both sides	Both sides	Both sides	Both sides	Both sides
Detailed trouble mode	Open	Open	Open	Open	Open	Open	Open	Open
Trouble status	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
Indicators illuminate/blink.	VDC, ABS illuminate; hill hold blink	No change	CHECK ENGINE, VDC, ABS illuminate; hill hold, SI-DRIVE (S) blink; CRUISE blink; shift indicator go off (With EyeSight) EyeSight, pre-collision, lane-off illuminate; CRUISE not blink; ABS not illuminate; VDC illuminate	CHECK ENGINE, VDC, ABS illuminate; hill hold, SI-DRIVE (S) blink; CRUISE blink (With EyeSight) EyeSight, pre-collision, lane-off illuminate; CRUISE not blink; ABS not illuminate; VDC illuminate	A/B illuminates.	No change	EPS warning light illumination	No change

*1: When U0073 occurs, other U-codes are not stored. (Judge timing affects the storing order.)

*2: The number of DTC memory is limited to 8 items. (Older items are preferentially stored.)

*3: The number of DTC memory is limited to 5 items. (Older items are preferentially stored.)

*4: The number of DTC memory is limited to 2 items. (Older items are preferentially stored.)

*5: All types of DTCs can be simultaneously stored. When U0073 occurs, other U-codes are not displayed.

*6: All types of DTCs can be simultaneously stored.

*7: The number of DTC memory is limited to 1 item for Current and 3 items for Latest.

*8: If C1431 contains a current malfunction after repair, perform IGN OFF → ON. (It remains immediately after repair.)

*9: All types of DTCs can be simultaneously stored.

*10: All types of DTCs can be simultaneously stored. DTC in parenthesis is not always detected.

*11: Up to three DTCs can be stored for each of current, old, and older trouble occurrence trips. When U0073 occurs, data no-receive is not stored.

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module		Auto Start Stop CM vicinity	Auto Start Stop CM vicinity	ECM vicinity	ECM vicinity	Headlight beam leveler CM vicinity	Headlight beam leveler CM vicinity	Yaw rate & G sensor vicinity	Yaw rate & G sensor vicinity
Detailed location		Both sides	Both sides	Both sides	Both sides	Both sides	Both sides	Both sides	Both sides
Detailed trouble mode		Open	Open	Open	Open	Open	Open	Open	Open
Trouble status		Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
DTC reading result from each module using Subaru Select Monitor	Stereo camera ^{*11}	Latest B2801 (Old) B2801 B2809	Latest B2801 (Old) B2801 (Older) B2801	Latest B2801 U0100 (Old) U0100	Latest B2807 B2806 B2801 (Old) B2801 U0100 (Older) U0100	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	VDC CM (with- out Eye- Sight) ^{*1*8}	Current C1431 U1120 Past Same as above	Current C1431 Past C1431 U1120	Current C1431 U0100 Past Same as above	Current C1424 C1431 Past C1424 C1431 U0100	Current None Past None	Current None Past None	Current C1721 U0123 Past Same as above	Past C1721 U0123
	Keyless access CM ^{*9}	Current U1120 Past Same as above	Past U1120	Current U0100 Past Same as above	Past U0100	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Body integrated unit ^{*2}	Current None Past None	Current None Past None	Current U0100 Past Same as above	Past U0100	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Combination meter ^{*3}	Current U1120 Past Same as above	Past U1120	Current U0100 Past Same as above	Past U0100	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	MFD ^{*4}	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	A/C control panel ^{*5}	Current U1120 Past Same as above	Past U1120	Current U0100 Past Same as above	Past U0100	Current None Past None	Current None Past None	Current None Past None	Current None Past None

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module		Auto Start Stop CM vicinity	Auto Start Stop CM vicinity	ECM vicinity	ECM vicinity	Headlight beam leveler CM vicinity	Headlight beam leveler CM vicinity	Yaw rate & G sensor vicinity	Yaw rate & G sensor vicinity
Detailed location		Both sides	Both sides	Both sides	Both sides	Both sides	Both sides	Both sides	Both sides
Detailed trouble mode		Open	Open	Open	Open	Open	Open	Open	Open
Trouble status		Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
DTC reading result from each module using Subaru Select Monitor	TCM* ¹	Current U1120 Past Same as above	Past U1120	Current U0100 Past Same as above	Past U0100	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	A/B CM* ⁶	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Electric power steering CM* ⁷	Current U1120 Past Same as above	Past U1120	Current U0100 Past Same as above	Past U0100	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Auto Start Stop CM* ¹⁰	Communi- cation fail- ure	Current (P1614) Past Same as above	Current (U0100) Past Same as above	Past (U0100)	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	ECM* ¹	Current None Past (P1531)	Past (P1531)	Communi- cation fail- ure	Past U0073 (*) (U0101) (U0122) (U0155) *Occa- sionally this may not occur. In such a case, all other data no-receive errors will remain.	Current None Past None	Current None Past None	Current None Past None	Current None Past None
	Headlight beam leveler CM* ⁶	Current None Past None	Current None Past None	Current None Past None	Current None Past None	Communi- cation fail- ure	Past U0122 U0140	Current None Past None	Current None Past None



List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module	Auto Start Stop CM vicinity	Auto Start Stop CM vicinity	ECM vicinity	ECM vicinity	Headlight beam leveler CM vicinity	Headlight beam leveler CM vicinity	Yaw rate & G sensor vicinity	Yaw rate & G sensor vicinity
Detailed location	Both sides	Both sides	Both sides	Both sides	Both sides	Both sides	Both sides	Both sides
Detailed trouble mode	Open	Open	Open	Open	Open	Open	Open	Open
Trouble status	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed	Trouble exists	Trouble existed
Indicators illuminate/blink.	(Without EyeSight) ABS, VDC illuminate. Auto Start Stop OFF, AT OIL TEMP blink (With EyeSight) VDC, EyeSight, pre-collision, lane- off illuminate Auto Start Stop OFF, AT OIL TEMP blink	(Without EyeSight) ABS, VDC illuminate. (With EyeSight) VDC, EyeSight, pre-collision, lane- off illuminate Auto Start Stop OFF blink	CHECK ENGINE, VDC, ABS, EMPTY, AWD, AT OIL TEMP, EPS illuminate; engine coolant temperature gauge (red/blue) blink; hill hold, SI-DRIVE (I) blink Fuel gauge go off; tachometer 0 rpm (With EyeSight) EyeSight, pre-collision, lane- off illuminate; ABS not illuminate	CHECK ENGINE, VDC, ABS illuminate. Hill hold, SI-DRIVE (S), CRUISE blink (With EyeSight) EyeSight, pre-collision, lane- off illuminate; ABS not illuminate	Headlight beam indicator illuminate	No abnormality	VDC, ABS, EyeSight, pre-collision, lane- off illuminate Hill hold blink	No abnormality

*1: When U0073 occurs, other U-codes are not stored. (Judge timing affects the storing order.)

*2: The number of DTC memory is limited to 8 items. (Older items are preferentially stored.)

*3: The number of DTC memory is limited to 5 items. (Older items are preferentially stored.)

*4: The number of DTC memory is limited to 2 items. (Older items are preferentially stored.)

*5: All types of DTCs can be simultaneously stored. When U0073 occurs, other U-codes are not displayed.

*6: All types of DTCs can be simultaneously stored.

*7: The number of DTC memory is limited to 1 item for Current and 3 items for Latest.

*8: If C1431 contains a current malfunction after repair, perform IGN OFF → ON. (It remains immediately after repair.)

*9: All types of DTCs can be simultaneously stored.

*10: All types of DTCs can be simultaneously stored. DTC in parenthesis is not always detected.

*11: Up to three DTCs can be stored for each of current, old, and older trouble occurrence trips. When U0073 occurs, data no-receive is not stored.



List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

4. Power supply-output short, GND-output short and short circuit in CAN communication circuit

NOTE:

- If the module has a limit of DTC memory and the number of DTC occurrence exceeds the limit, older DTCs are preferentially stored.
- When there is no description in Current, it is referred to as "None".
- When DTC is in parentheses, it is referred to as "Not always occur".
- "Trouble exists" is referred to as the status before performing inspection and repair. "Trouble existed" is referred to as the status before performing DTC clear after repair.

Control module ^{*9}		Option	Option	Option	Option	Option	Option	Option	Option	Option
Detailed location		Hi side	Hi side	Lo side	Hi to Low	Hi side	Hi side	Lo side	Hi to Low	Lo side
Detailed trouble mode		GND-out-put short	Power supply-output short	Power supply-output short	Short circuit	GND-out-put short	Power supply-output short	Power supply-output short	Short circuit	GND-out-put short
Trouble status		Trouble exists	←	←	←	Trouble existed	←	←	←	Trouble exists Trouble existed
DTC reading result from each module using Subaru Select Monitor	Stereo camera ^{*12}	Communication failure	←	←	←	Current B2807 B2806 B2801 (Old) B2810 B28A2 B2801 (Older) B2809 For old and older, U0073 may occur instead of DTCs shown above.	←	←	←	Current None Past None
	VDC CM ^{*1*8}	Communication failure	←	←	←	Current C1431 C1424 Past U0073 C1431 C1424	←	←	←	Current None Past None
	Keyless access CM ^{*10}	Communication failure	←	←	←	Past U0073	←	←	←	Current None Past None



List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module ^{*9}		Option	Option	Option	Option	Option	Option	Option	Option
Detailed location		Hi side	Hi side	Lo side	Hi to Low	Hi side	Hi side	Lo side	Hi to Low
Detailed trouble mode		GND-out-put short	Power supply-output short	Power supply-output short	Short circuit	GND-out-put short	Power supply-output short	Power supply-output short	Short circuit
Trouble status		Trouble exists	←	←	←	Trouble existed	←	←	←
DTC reading result from each module using Subaru Select Monitor	Body integrated unit ^{*2}	Communication failure	←	←	←	Past U0073 U0100 U0101 U0122 U0155 U0164 U0327 U1201	←	←	←
	Combination meter ^{*3}	Communication failure	←	←	←	Past U0073 U0100 U0101 U0122 U0131 U0140 U0151 U0164 U0327 U1120 U1235 Any 5 items from above	←	←	←
	MFD ^{*4}	Communication failure	←	←	←	Past U0073 U1201 U1235 U1650 None or any 1 or 2 items from above	←	←	←
	A/C control panel ^{*5}	Communication failure	←	←	←	Past U0073	←	←	←
	TCM ^{*1}	Communication failure	←	←	←	Past U0073 U0100 U0122 U0140 U0155 U1120 U1235	←	←	←

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module ^{*9}		Option	Option	Option	Option	Option	Option	Option	Option
Detailed location		Hi side	Hi side	Lo side	Hi to Low	Hi side	Hi side	Lo side	Hi to Low
Detailed trouble mode		GND-out-put short	Power supply-output short	Power supply-output short	Short circuit	GND-out-put short	Power supply-output short	Power supply-output short	Short circuit
Trouble status		Trouble exists	←	←	←	Trouble existed	←	←	←
DTC reading result from each module using Subaru Select Monitor	A/B CM ^{*6}	Communication failure	←	←	←	Past U0073	←	←	←
	Electric power steering CM ^{*7}	Communication failure	←	←	←	Past U0073 U0100 U0122 U0155 U1120 C2543 Any 4 items from above	←	←	←
	Auto Start Stop CM ^{*11}	Communication failure	←	←	←	Past U0073 and add none or any 1 to 7 items from below U0100 U0101 U0122 U0131 U0140 U0155 U0164	←	←	←
	ECM ^{*1}	Communication failure	←	←	←	Past U0073 (*) (U0101) (U0122) (U0155) *Occasionally this may not occur. In such a case, all other data no-receive errors will remain.	←	←	←

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

Control module* ⁹		Option	Option	Option	Option	Option	Option	Option	Option
Detailed location		Hi side	Hi side	Lo side	Hi to Low	Hi side	Hi side	Lo side	Hi to Low
Detailed trouble mode		GND-out-put short	Power supply-output short	Power supply-output short	Short circuit	GND-out-put short	Power supply-output short	Power supply-output short	Short circuit
Trouble status		Trouble exists	←	←	←	Trouble existed	←	←	←
DTC reading result from each module using Subaru Select Monitor	Auto head-light beam leveler CM* ⁶	Communication failure	←	←	←	Past U0122 U0140	←	←	←
Indicators illuminate/blink.		CHECK ENGINE, A/B, BRAKE, VDC, EMPTY, VDC off, ABS, head-light beam leveler indicator, EPS illuminate; hill hold, Auto Start Stop, SI-DRIVE (i) blink; engine coolant temperature gauge (blue/red) alternately blink; shift indicator go off; fuel level warning indicator go off; tachometer 0 rpm; door indicator no response (With EyeSight) EyeSight, pre-collision, lane-off illuminate; EyeSight blink	←	←	←	CHECK ENGINE, VDC, ABS illuminate; CRUISE blink; hill hold blink; SI-DRIVE (S) blink (With EyeSight) EyeSight, pre-collision, lane-off illuminate; CRUISE not blink; ABS not illuminate	←	←	←
									No change

List of Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

- *1: When U0073 occurs, other U-codes are not stored. (Judge timing affects the storing order.)
- *2: The number of DTC memory is limited to 8 items. (Older items are preferentially stored.)
- *3: The number of DTC memory is limited to 5 items. (Older items are preferentially stored.)
- *4: The number of DTC memory is limited to 2 items. (Older items are preferentially stored.)
- *5: All types of DTCs can be simultaneously stored. When U0073 occurs, other U-codes are not displayed.
- *6: All types of DTCs can be simultaneously stored.
- *7: The number of DTC memory is limited to 1 item for Current and 3 items for Latest.
- *8: If C1431 contains a current malfunction after repair, perform IGN OFF → ON. (It remains immediately after repair.)
- *9: In this trouble mode, a faulty portion can only be identified by inspection using a tester.
- *10: All types of DTCs can be simultaneously stored.
- *11: All types of DTCs can be simultaneously stored. DTC in parenthesis is not always detected.
- *12: Up to three DTCs can be stored for each of current, old, and older trouble occurrence trips. When U0073 occurs, data no-receive is not stored.

NOTE:

- If the module has a limit of DTC memory and the number of DTC occurrence exceeds the limit, older DTCs are preferentially stored.
- When there is no description in Current, it is referred to as "None".
- When DTC is in parentheses, it is referred to as "Not always occur".
- "Trouble exists" is referred to as the status before performing inspection and repair. "Trouble existed" is referred to as the status before performing DTC clear after repair.



Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

11. Diagnostic Procedure with Diagnostic Trouble Code (DTC)

A: 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 PERFORMING OF BASIC DIAGNOSTIC PROCEDURE.	Was the basic diagnostic procedure performed up to step 8?	Go to step 2.	Perform the basic diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
2 CHECK DTC. 1) Start the engine. 2) Using the Subaru Select Monitor, read DTC of CAN system.	Is U0073 a current malfunction?	Perform the diagnosis of U0073. <Ref. to LAN(diag)-163, DTC U0073 CONTROL MODULE COMMUNICATION BUS "A" OFF, 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)

B: DTC U0073 CONTROL MODULE COMMUNICATION BUS "A" 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 PERFORMING OF BASIC DIAGNOSTIC PROCEDURE.	Was the basic diagnostic procedure performed up to step 8?	Go to step 2.	Perform the basic diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
2 CHECK DTC. 1) Start the engine. 2) Using the Subaru Select Monitor, read DTC of CAN system.	Is U0073 a current malfunction?	Go to step 3.	It may be a temporary poor contact. Perform the clear memory.
3 CHECK CAN COMMUNICATION CIRCUIT. Check CAN communication circuit. <Ref. to LAN(diag)-39, PROCEDURE, CAN Communication Circuit Check.>	Is CAN communication circuit faulty?	Repair the faulty portion, following the diagnosis procedure.	Go to step 4.
4 CHECK DTC. 1) Perform the inspection using the DTC check sheet. <Ref. to LAN(diag)-101, CHECK USING THE DTC CHECK SHEET, LIST, List of Diagnostic Trouble Code (DTC).> 2) Using the Subaru Select Monitor, read DTC of CAN system.	Is U0073 a current malfunction?	Go to step 5.	System is normal.
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 U0073 is not detected as current malfunction?	Replace the control module.	Repeat 1) to 4) in step 3 until U0073 is not detected.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

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

DTC DETECTING CONDITION:

Defective data from ECM.

TROUBLE SYMPTOM:

Defective data on CAN communication occurs.

Step	Check	Yes	No
1	CHECK PERFORMING OF BASIC DIAGNOSTIC PROCEDURE.	Go to step 2.	Perform the basic diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
2	CHECK DTC. Check the displayed DTC.	Are DTCs other than U*** displayed?	Perform the diagnosis according to DTC.
3	CHECK DTC. Check the displayed DTC.	Is DTC for the bus off or the data no-receive displayed?	Go to step 3.
4	CHECK DTC. Check the displayed DTC.	Is U0401 a current malfunction?	Go to step 4.
5	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.
6	CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is the engine data abnormal detected in several modules?	Go to step 6.
7	REPLACE MODULE. 1) Replace the ECM. 2) Read the DTC using Subaru Select Monitor.	Replace the ECM. <Ref. to FU(H4DO)-94, Engine Control Module (ECM).>	Go to step 7.
8	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?	Go to step 8.
9	CHECK HARNESS. 1) Shake the harness, and check for poor contact. 2) Using the Subaru Select Monitor, read DTC of CAN system.	Repair the ECM. <Ref. to FU(H4DO)-94, Engine Control Module (ECM).>	System is normal.
10	CHECK CONNECTOR. Check the connector used for high speed CAN for poor contact.	Repair the poor contact of harness, or replace the harness.	Go to step 9.
		Is there poor contact of connector?	Go to step 10.
		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)

D: DTC U0402 INVALID DATA RECEIVED FROM TCM

DTC DETECTING CONDITION:

Received error data from TCM.

TROUBLE SYMPTOM:

Sport indicator light blinks.

Step	Check	Yes	No
1	CHECK PERFORMING OF BASIC DIAGNOSTIC PROCEDURE.	Go to step 2.	Perform the basic diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
2	CHECK DTC. Check the displayed DTC.	Are DTCs other than U*** displayed?	Perform the diagnosis according to DTC.
3	CHECK DTC. Check the displayed DTC.	Is DTC for the bus off or the data no-receive displayed?	Go to step 3.
4	CHECK DTC. Check the displayed DTC.	Is U0402 a current malfunction?	Go to step 4.
5	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.
6	CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is the transmission data abnormal detected in several modules?	Go to step 6.
7	REPLACE MODULE. 1) Replace the TCM. 2) Read the DTC using Subaru Select Monitor.	Replace the TCM. <Ref. to CVT(TR580)-144, Transmission Control Module (TCM).> <Ref. to CVT(TR690)-123, Transmission Control Module (TCM).>	Go to step 7.
8	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?	Go to step 8.
9	CHECK HARNESS. 1) Shake the harness, and check for poor contact. 2) Using the Subaru Select Monitor, read DTC of CAN system.	Repair the poor contact of harness, or replace the harness.	System is normal.
10	CHECK CONNECTOR. Check the connector used for high speed CAN for poor contact.	Is there poor contact of connector?	System is normal.
		Repair the connector that has poor contact, or replace harness.	Go to step 10.
			It is possible that temporary poor communication occurs. Delete the DTC.



Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

E: DTC U0416 INVALID DATA RECEIVED FROM VEHICLE DYNAMICS CONTROL MODULE

DTC DETECTING CONDITION:

Data from VDCCM is faulty.

TROUBLE SYMPTOM:

ABS warning light and VDC warning light illuminate.

Step	Check	Yes	No
1 CHECK PERFORMING OF BASIC DIAGNOSTIC PROCEDURE.	Was the basic diagnostic procedure performed up to step 8?	Go to step 2.	Perform the basic diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
2 CHECK DTC. Check the displayed DTC.	Are DTCs other than U*** displayed?	Perform the diagnosis according to DTC.	Go to step 3.
3 CHECK DTC. Check the displayed DTC.	Is DTC for the bus off or the data no-receive displayed?	Perform the diagnosis according to DTC.	Go to step 4.
4 CHECK DTC. Check the displayed DTC.	Is U0416 a current malfunction?	Go to step 5.	Go to step 9.
5 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 6.	Go to step 9.
6 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 7.
7 REPLACE MODULE. 1) Replace the VDC CM. 2) Read the DTC using Subaru Select Monitor.	Is U0416 a current malfunction?	Go to step 8.	System is normal.
8 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.
9 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 10.
10 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)

F: DTC U0420 INVALID DATA RECEIVED FROM POWER STEERING CONTROL MODULE

DTC DETECTING CONDITION:

Defective data was transmitted from EPS CM.

TROUBLE SYMPTOM:

Cooperation control with EPS CM does not operate properly.

	Step	Check	Yes	No
1	CHECK PERFORMING OF BASIC DIAGNOSTIC PROCEDURE.	Was the basic diagnostic procedure performed up to step 8?	Go to step 2.	Perform the basic diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
2	CHECK DTC. Check the displayed DTC.	Are DTCs other than U*** displayed?	Perform the diagnosis according to DTC.	Go to step 3.
3	CHECK DTC. Check the displayed DTC.	Is DTC for the bus off or the data no-receive displayed?	Perform the diagnosis according to DTC.	Go to step 4.
4	CHECK DTC. Check the displayed DTC.	Is U0420 a current malfunction?	Go to step 5.	Go to step 9.
5	CHECK DTC. 1) Turn the ignition switch to OFF. 2) Disconnect the power steering CM connector. 3) Connect the disconnected connectors. 4) Read the DTC using Subaru Select Monitor.	Is U0420 a current malfunction?	Go to step 6.	Go to step 9.
6	CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is the electric power steering data abnormal detected in several modules?	Replace the power steering CM. <Ref. to PS-41, Power Steering Control Module.>	Go to step 7.
7	REPLACE MODULE. 1) Replace the power steering CM. 2) Read the DTC using Subaru Select Monitor.	Is U0420 a current malfunction?	Go to step 8.	System is normal.
8	CHECK MODULE. 1) Reinstall the power steering CM. 2) Replace the module that the DTC has been detected. 3) Read the DTC using Subaru Select Monitor.	Is U0420 a current malfunction?	Replace the power steering CM. <Ref. to PS-41, Power Steering Control Module.>	System is normal.
9	CHECK HARNESS. 1) Shake the harness, and check for poor contact. 2) Using the Subaru Select Monitor, read DTC of CAN system.	Is U0420 a current malfunction?	Repair the poor contact of harness, or replace the harness.	Go to step 10.
10	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)

G: 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.

Step	Check	Yes	No
1 CHECK PERFORMING OF BASIC DIAGNOSTIC PROCEDURE.	Was the basic diagnostic procedure performed up to step 8?	Go to step 2.	Perform the basic diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
2 CHECK DTC. Check the displayed DTC.	Are DTCs other than U*** displayed?	Perform the diagnosis according to DTC.	Go to step 3.
3 CHECK DTC. Check the displayed DTC.	Is DTC for the bus off or the data no-receive displayed?	Perform the diagnosis according to DTC.	Go to step 4.
4 CHECK DTC. Check the displayed DTC.	Is U0422 a current malfunction?	Go to step 5.	Go to step 9.
5 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 6.	Go to step 9.
6 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-74, Body Integrated Unit.>	Go to step 7.
7 REPLACE MODULE. 1) Replace the body integrated unit. 2) Read the DTC using Subaru Select Monitor.	Is U0422 a current malfunction?	Go to step 8.	System is normal.
8 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-74, Body Integrated Unit.>	System is normal.
9 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 10.
10 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)

H: 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.

Step	Check	Yes	No
1 CHECK PERFORMING OF BASIC DIAGNOSTIC PROCEDURE.	Was the basic diagnostic procedure performed up to step 8?	Go to step 2.	Perform the basic diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
2 CHECK DTC. Check the displayed DTC.	Are DTCs other than U*** displayed?	Perform the diagnosis according to DTC.	Go to step 3.
3 CHECK DTC. Check the displayed DTC.	Is DTC for the bus off or the data no-receive displayed?	Perform the diagnosis according to DTC.	Go to step 4.
4 CHECK DTC. Check the displayed DTC.	Is U0423 a current malfunction?	Go to step 5.	Go to step 9.
5 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 6.	Go to step 9.
6 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-18, Combination Meter.>	Go to step 7.
7 REPLACE MODULE. 1) Replace the combination meter. 2) Read the DTC using Subaru Select Monitor.	Is U0423 a current malfunction?	Go to step 8.	System is normal.
8 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-18, Combination Meter.>	System is normal.
9 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 10.
10 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)

I: DTC U0424 INVALID DATA RECEIVED FROM HVAC CONTROL MODULE

DTC DETECTING CONDITION:

Defective data was transmitted from A/C control panel.

TROUBLE SYMPTOM:

Cooperation control of air conditioner does not operate properly.

Step	Check	Yes	No
1 CHECK PERFORMING OF BASIC DIAGNOSTIC PROCEDURE.	Was the basic diagnostic procedure performed up to step 8?	Go to step 2.	Perform the basic diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
2 CHECK DTC. Check the displayed DTC.	Are DTCs other than U*** displayed?	Perform the diagnosis according to DTC.	Go to step 3.
3 CHECK DTC. Check the displayed DTC.	Is DTC for the bus off or the data no-receive displayed?	Perform the diagnosis according to DTC.	Go to step 4.
4 CHECK DTC. Check the displayed DTC.	Is U0424 a current malfunction?	Go to step 5.	Go to step 9.
5 CHECK DTC. 1) Turn the ignition switch to OFF. 2) Disconnect the A/C control panel connector. 3) Connect the disconnected connectors. 4) Read the DTC using Subaru Select Monitor.	Is U0424 a current malfunction?	Go to step 6.	Go to step 9.
6 CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is the air conditioner data abnormal detected in several modules?	Replace the A/C control panel. <Ref. to AC-48, Control Panel.>	Go to step 7.
7 REPLACE MODULE. 1) Replace the A/C control panel. 2) Read the DTC using Subaru Select Monitor.	Is U0424 a current malfunction?	Go to step 8.	System is normal.
8 CHECK MODULE. 1) Restore the A/C control panel. 2) Replace the module that the DTC has been detected. 3) Read the DTC using Subaru Select Monitor.	Is U0424 a current malfunction?	Replace the A/C control panel. <Ref. to AC-48, Control Panel.>	System is normal.
9 CHECK HARNESS. 1) Shake the harness, and check for poor contact. 2) Read the DTC using Subaru Select Monitor.	Is U0424 a current malfunction?	Repair the poor contact of harness, or replace the harness.	Go to step 10.
10 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)

J: DTC U0427 INVALID DATA RECEIVED FROM VEHICLE SECURITY CONTROL MODULE

DTC DETECTING CONDITION:

Defective data was transmitted from keyless access CM.

TROUBLE SYMPTOM:

Cooperation control of keyless access does not operate properly.

CAUTION:

When the keyless access CM is replaced, registration of the immobilizer is required. For the relevant procedures, refer to the "REGISTRATION MANUAL FOR IMMOBILIZER".

Step	Check	Yes	No
1 CHECK PERFORMING OF BASIC DIAGNOSTIC PROCEDURE.	Was the basic diagnostic procedure performed up to step 8?	Go to step 2.	Perform the basic diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
2 CHECK DTC. Check the displayed DTC.	Are DTCs other than U*** displayed?	Perform the diagnosis according to DTC.	Go to step 3.
3 CHECK DTC. Check the displayed DTC.	Is DTC for the bus off or the data no-receive displayed?	Perform the diagnosis according to DTC.	Go to step 4.
4 CHECK DTC. Check the displayed DTC.	Is U0427 a current malfunction?	Go to step 5.	Go to step 9.
5 CHECK DTC. 1) Turn the ignition switch to OFF. 2) Disconnect the keyless access CM connector. 3) Connect the disconnected connectors. 4) Read the DTC using Subaru Select Monitor.	Is U0427 a current malfunction?	Go to step 6.	Go to step 9.
6 CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is the smart data abnormal detected in several modules?	Replace the keyless access CM. <Ref. to SL-93, Keyless Access CM.>	Go to step 7.
7 REPLACE MODULE. 1) Replace the keyless access CM. CAUTION: Do not register the immobilizer. 2) Read the DTC using Subaru Select Monitor.	Is U0427 a current malfunction?	Go to step 8.	System is normal.
8 CHECK MODULE. 1) Reinstall the keyless access CM. 2) Replace the body integrated unit. <Ref. to SL-74, Body Integrated Unit.> 3) Read the DTC using Subaru Select Monitor.	Is U0427 a current malfunction?	Replace the keyless access CM. <Ref. to SL-93, Keyless Access CM.>	System is normal.
9 CHECK HARNESS. 1) Shake the harness, and check for poor contact. 2) Read the DTC using Subaru Select Monitor.	Is U0427 a current malfunction?	Repair the poor contact of harness, or replace the harness.	Go to step 10.
10 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)

K: DTC U0428 INVALID DATA RECEIVED FROM STEERING ANGLE SENSOR MODULE

DTC DETECTING CONDITION:

Defective data was transmitted from steering angle sensor.

TROUBLE SYMPTOM:

VDC CM does not operate normally.

	Step	Check	Yes	No
1	CHECK PERFORMING OF BASIC DIAGNOSTIC PROCEDURE.	Was the basic diagnostic procedure performed up to step 8?	Go to step 2.	Perform the basic diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
2	CHECK DTC. Check the displayed DTC.	Are DTCs other than U*** displayed?	Perform the diagnosis according to DTC.	Go to step 3.
3	CHECK DTC. Check the displayed DTC.	Is DTC for the bus off or the data no-receive displayed?	Perform the diagnosis according to DTC.	Go to step 4.
4	CHECK DTC. Check the displayed DTC.	Is U0428 a current malfunction?	Go to step 5.	Go to step 9.
5	CHECK DTC. 1) Turn the ignition switch to OFF. 2) Disconnect the steering angle sensor connector. 3) Connect the disconnected connectors. 4) Read the DTC using Subaru Select Monitor.	Is U0428 a current malfunction?	Go to step 6.	Go to step 9.
6	CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is the steering angle sensor data abnormal detected in several modules?	Replace the steering angle sensor. <Ref. to VDC-33, Steering Angle Sensor.>	Go to step 7.
7	REPLACE MODULE. 1) Replace the steering angle sensor. 2) Read the DTC using Subaru Select Monitor.	Is U0428 a current malfunction?	Go to step 8.	System is normal.
8	CHECK MODULE. 1) Reinstall the steering angle sensor. 2) Replace the module that the DTC has been detected. 3) Read the DTC using Subaru Select Monitor.	Is U0428 a current malfunction?	Replace the steering angle sensor. <Ref. to VDC-33, Steering Angle Sensor.>	System is normal.
9	CHECK HARNESS. 1) Shake the harness, and check for poor contact. 2) Using the Subaru Select Monitor, read DTC of CAN system.	Is U0428 a current malfunction?	Repair the poor contact of harness, or replace the harness.	Go to step 10.
10	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)

L: DTC U0452 INVALID DATA RECEIVED FROM RESTRAINTS CONTROL MODULE

DTC DETECTING CONDITION:

Defective data was transmitted from A/B CM.

TROUBLE SYMPTOM:

Cooperation control with airbag does not operate properly.

Step	Check	Yes	No
1	CHECK PERFORMING OF BASIC DIAGNOSTIC PROCEDURE.	Go to step 2.	Perform the basic diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
2	CHECK DTC. Check the displayed DTC.	Are DTCs other than U*** displayed?	Perform the diagnosis according to DTC.
3	CHECK DTC. Check the displayed DTC.	Is DTC for the bus off or the data no-receive displayed?	Go to step 3.
4	CHECK DTC. Check the displayed DTC.	Is U0452 a current malfunction?	Go to step 4.
5	CHECK DTC. 1) Turn the ignition switch to OFF. 2) Disconnect the A/B CM connector. 3) Connect the disconnected connectors. 4) Read the DTC using Subaru Select Monitor.	Is U0452 a current malfunction?	Go to step 5.
6	CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is the airbag data abnormal detected in several modules?	Go to step 6.
7	REPLACE MODULE. 1) Replace the A/B CM. 2) Read the DTC using Subaru Select Monitor.	Is U0452 a current malfunction?	Go to step 7.
8	CHECK MODULE. 1) Reinstall the A/B CM. 2) Replace the module that the DTC has been detected. 3) Read the DTC using Subaru Select Monitor.	Is U0452 a current malfunction?	Go to step 8.
9	CHECK HARNESS. 1) Shake the harness, and check for poor contact. 2) Using the Subaru Select Monitor, read DTC of CAN system.	Repair the poor contact of harness, or replace the harness.	Go to step 9.
10	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)

M: DTC U0513 INVALID DATA RECEIVED FROM YAW RATE SENSOR MODULE

DTC DETECTING CONDITION:

Invalid data was transmitted from yaw rate & G sensor.

TROUBLE SYMPTOM:

VDC control does not operate normally.

Step	Check	Yes	No
1	CHECK PERFORMING OF BASIC DIAGNOSTIC PROCEDURE.	Go to step 2.	Perform the basic diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
2	CHECK DTC. Check the displayed DTC.	Are DTCs other than U*** displayed?	Perform the diagnosis according to DTC.
3	CHECK DTC. Check the displayed DTC.	Is DTC for the bus off or the data no-receive displayed?	Go to step 3.
4	CHECK DTC. Check the displayed DTC.	Is U0513 a current malfunction?	Go to step 4.
5	CHECK DTC. 1) Turn the ignition switch to OFF. 2) Disconnect the yaw rate & G sensor connector. 3) Connect the disconnected connectors. 4) Read the DTC using Subaru Select Monitor.	Is U0513 a current malfunction?	Go to step 5.
6	CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is the yaw rate sensor invalid data detected in several modules?	Go to step 6.
7	REPLACE MODULE. 1) Replace the yaw rate & G sensor. 2) Read the DTC using Subaru Select Monitor.	Is U0513 a current malfunction?	Go to step 7.
8	CHECK MODULE. 1) Return the yaw rate & G sensor. 2) Replace the module that the DTC has been detected. 3) Read the DTC using Subaru Select Monitor.	Is U0513 a current malfunction?	Go to step 8.
9	CHECK HARNESS. 1) Shake the harness, and check for poor contact. 2) Using the Subaru Select Monitor, read DTC of CAN system.	Is U0513 a current malfunction?	Go to step 9.
10	CHECK CONNECTOR. Check the connector used for high speed CAN for poor contact.	Is there poor contact of connector?	Go to step 10.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

N: 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.

Step	Check	Yes	No
1	CHECK PERFORMING OF BASIC DIAGNOSTIC PROCEDURE.	Go to step 2.	Perform the basic diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
2	CHECK DTC. Check the displayed DTC.	Are DTCs other than U*** displayed?	Perform the diagnosis according to DTC.
3	CHECK DTC. Check the displayed DTC.	Is DTC for the bus off or the data no-receive displayed?	Go to step 3.
4	CHECK DTC. Check the displayed DTC.	Is U1433 a current malfunction?	Go to step 4.
5	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.
6	CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is the EyeSight data abnormal detected in several modules?	Go to step 6.
7	REPLACE MODULE. 1) Replace the stereo camera. 2) Read the DTC using Subaru Select Monitor.	Replace the stereo camera. <Ref. to ES-11, Stereo Camera.>	Go to step 7.
8	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?	Go to step 8.
9	CHECK HARNESS. 1) Shake the harness, and check for poor contact. 2) Using the Subaru Select Monitor, read DTC of CAN system.	Repair the stereo camera. <Ref. to ES-11, Stereo Camera.>	System is normal.
10	CHECK CONNECTOR. Check the connector used for high speed CAN for poor contact.	Repair the poor contact of harness, or replace the harness.	Go to step 9.
		Repair the connector that has poor contact, or replace harness.	Go to step 10.
			It is possible that temporary poor communication occurs. Delete the DTC.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

LAN SYSTEM (DIAGNOSTICS)

O: 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.

Step	Check	Yes	No
1 CHECK PERFORMING OF BASIC DIAGNOSTIC PROCEDURE.	Was the basic diagnostic procedure performed up to step 8?	Go to step 2.	Perform the basic diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
2 CHECK DTC. Check the displayed DTC.	Is U0100 a current malfunction?	Go to step 3.	Go to step 6.
3 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)-94, Engine Control Module (ECM).>	Go to step 4.
4 REPLACE MODULE. 1) Replace the ECM. 2) Read the DTC using Subaru Select Monitor.	Is U0100 a current malfunction?	Go to step 5.	System is normal.
5 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)-94, Engine Control Module (ECM).>	System is normal.
6 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 7.
7 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)

P: DTC U0101 LOST COMMUNICATION WITH TCM

DTC DETECTING CONDITION:

Not received data from TCM.

TROUBLE SYMPTOM:

Cooperation control with transmission is not performed.

Step	Check	Yes	No
1 CHECK PERFORMING OF BASIC DIAGNOSTIC PROCEDURE.	Was the basic diagnostic procedure performed up to step 8?	Go to step 2.	Perform the basic diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
2 CHECK DTC. Check the displayed DTC.	Is U0101 a current malfunction?	Go to step 3.	Go to step 6.
3 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. <Ref. to CVT(TR580)-144, Transmission Control Module (TCM).> <Ref. to CVT(TR690)-123, Transmission Control Module (TCM).>	Go to step 4.
4 REPLACE MODULE. 1) Replace the TCM. 2) Read the DTC using Subaru Select Monitor.	Is U0101 a current malfunction?	Go to step 5.	System is normal.
5 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. <Ref. to CVT(TR580)-144, Transmission Control Module (TCM).> <Ref. to CVT(TR690)-123, Transmission Control Module (TCM).>	System is normal.
6 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 7.
7 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)

Q: 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.

Step	Check	Yes	No
1 CHECK PERFORMING OF BASIC DIAGNOSTIC PROCEDURE.	Was the basic diagnostic procedure performed up to step 8?	Go to step 2.	Perform the basic diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
2 CHECK DTC. Check the displayed DTC.	Is U0122 a current malfunction?	Go to step 3.	Go to step 6.
3 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 4.
4 REPLACE MODULE. 1) Replace the VDC CM. 2) Read the DTC using Subaru Select Monitor.	Is U0122 a current malfunction?	Go to step 5.	System is normal.
5 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.
6 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 7.
7 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)

R: DTC U0123 LOST COMMUNICATION WITH YAW RATE SENSOR MODULE

DTC DETECTING CONDITION:

No data from the yaw rate & G sensor is received.

TROUBLE SYMPTOM:

ABS warning light and VDC warning light illuminate.

Step	Check	Yes	No
1 CHECK PERFORMING OF BASIC DIAGNOSTIC PROCEDURE.	Was the basic diagnostic procedure performed up to step 8?	Go to step 2.	Perform the basic diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
2 CHECK DTC. Check the displayed DTC.	Is U0123 a current malfunction?	Go to step 3.	Go to step 6.
3 CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is the yaw rate sensor data not received detected in several modules?	Replace the yaw rate & G sensor.	Go to step 4.
4 REPLACE MODULE. 1) Replace the yaw rate & G sensor. 2) Read the DTC using Subaru Select Monitor.	Is U0123 a current malfunction?	Go to step 5.	System is normal.
5 CHECK MODULE. 1) Return the yaw rate & G sensor. 2) Replace the module that the DTC has been detected. 3) Read the DTC using Subaru Select Monitor.	Is U0123 a current malfunction?	Replace the yaw rate & G sensor.	System is normal.
6 CHECK HARNESS. 1) Shake the harness, and check for poor contact. 2) Read the DTC using Subaru Select Monitor.	Is U0123 a current malfunction?	Repair the poor contact of harness, or replace the harness.	Go to step 7.
7 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)

S: DTC U0126 LOST COMMUNICATION WITH STEERING ANGLE SENSOR MODULE

DTC DETECTING CONDITION:

No data is received from steering angle sensor.

TROUBLE SYMPTOM:

VDC CM does not operate normally.

Step	Check	Yes	No
1 CHECK PERFORMING OF BASIC DIAGNOSTIC PROCEDURE.	Was the basic diagnostic procedure performed up to step 8?	Go to step 2.	Perform the basic diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
2 CHECK DTC. Check the displayed DTC.	Is U0126 a current malfunction?	Go to step 3.	Go to step 6.
3 CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is the steering angle sensor data no-receive detected in several modules?	Replace the steering angle sensor. <Ref. to VDC-33, Steering Angle Sensor.>	Go to step 4.
4 REPLACE MODULE. 1) Replace the steering angle sensor. 2) Read the DTC using Subaru Select Monitor.	Is U0126 a current malfunction?	Go to step 5.	System is normal.
5 CHECK MODULE. 1) Reinstall the steering angle sensor. 2) Replace the module that the DTC has been detected. 3) Read the DTC using Subaru Select Monitor.	Is U0126 a current malfunction?	Replace the steering angle sensor. <Ref. to VDC-33, Steering Angle Sensor.>	System is normal.
6 CHECK HARNESS. 1) Shake the harness, and check for poor contact. 2) Read the DTC using Subaru Select Monitor.	Is U0126 a current malfunction?	Repair the poor contact of harness, or replace the harness.	Go to step 7.
7 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 U0131 LOST COMMUNICATION WITH POWER STEERING CONTROL MODULE

DTC DETECTING CONDITION:

No data is received from power steering CM.

TROUBLE SYMPTOM:

Cooperation control with power steering CM does not operate properly.

	Step	Check	Yes	No
1	CHECK PERFORMING OF BASIC DIAGNOSTIC PROCEDURE.	Was the basic diagnostic procedure performed up to step 8?	Go to step 2.	Perform the basic diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
2	CHECK DTC. Check the displayed DTC.	Is U0131 a current malfunction?	Go to step 3.	Go to step 6.
3	CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is the electric power steering data no-receive detected in several modules?	Replace the power steering CM. <Ref. to PS-41, Power Steering Control Module.>	Go to step 4.
4	REPLACE MODULE. 1) Replace the power steering CM. 2) Read the DTC using Subaru Select Monitor.	Is U0131 a current malfunction?	Go to step 5.	System is normal.
5	CHECK MODULE. 1) Reinstall the power steering CM. 2) Replace the module that the DTC has been detected. 3) Read the DTC using Subaru Select Monitor.	Is U0131 a current malfunction?	Replace the power steering CM. <Ref. to PS-41, Power Steering Control Module.>	System is normal.
6	CHECK HARNESS. 1) Shake the harness, and check for poor contact. 2) Read the DTC using Subaru Select Monitor.	Is U0131 a current malfunction?	Repair the poor contact of harness, or replace the harness.	Go to step 7.
7	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)

U: 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.

Step	Check	Yes	No
1 CHECK PERFORMING OF BASIC DIAGNOSTIC PROCEDURE.	Was the basic diagnostic procedure performed up to step 8?	Go to step 2.	Perform the basic diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
2 CHECK DTC. Check the displayed DTC.	Is U0140 a current malfunction?	Go to step 3.	Go to step 6.
3 CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is the body integrated data not received detected in several modules?	Replace the body integrated unit. <Ref. to SL-74, Body Integrated Unit.>	Go to step 4.
4 REPLACE MODULE. 1) Replace the body integrated unit. 2) Read the DTC using Subaru Select Monitor.	Is U0140 a current malfunction?	Go to step 5.	System is normal.
5 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-74, Body Integrated Unit.>	System is normal.
6 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 7.
7 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)

V: DTC U0151 LOST COMMUNICATION WITH RESTRAINTS CONTROL MODULE

DTC DETECTING CONDITION:

No data is received from A/B CM.

TROUBLE SYMPTOM:

Cooperation control with A/B CM does not operate properly.

Step	Check	Yes	No
1 CHECK PERFORMING OF BASIC DIAGNOSTIC PROCEDURE.	Was the basic diagnostic procedure performed up to step 8?	Go to step 2.	Perform the basic diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
2 CHECK DTC. Check the displayed DTC.	Is U0151 a current malfunction?	Go to step 3.	Go to step 6.
3 CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is the airbag data no-receive detected in several modules?	Replace the A/B CM. <Ref. to AB-75, Airbag Control Module.>	Go to step 4.
4 REPLACE MODULE. 1) Replace the A/B CM. 2) Read the DTC using Subaru Select Monitor.	Is U0151 a current malfunction?	Go to step 5.	System is normal.
5 CHECK MODULE. 1) Reinstall the A/B CM. 2) Replace the module that the DTC has been detected. 3) Read the DTC using Subaru Select Monitor.	Is U0151 a current malfunction?	Replace the A/B CM. <Ref. to AB-75, Airbag Control Module.>	System is normal.
6 CHECK HARNESS. 1) Shake the harness, and check for poor contact. 2) Read the DTC using Subaru Select Monitor.	Is U0151 a current malfunction?	Repair the poor contact of harness, or replace the harness.	Go to step 7.
7 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 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.

Step	Check	Yes	No
1 CHECK PERFORMING OF BASIC DIAGNOSTIC PROCEDURE.	Was the basic diagnostic procedure performed up to step 8?	Go to step 2.	Perform the basic diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
2 CHECK DTC. Check the displayed DTC.	Is U0155 a current malfunction?	Go to step 3.	Go to step 6.
3 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-18, Combination Meter.>	Go to step 4.
4 REPLACE MODULE. 1) Replace the combination meter. 2) Read the DTC using Subaru Select Monitor.	Is U0155 a current malfunction?	Go to step 5.	System is normal.
5 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-18, Combination Meter.>	System is normal.
6 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 7.
7 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 U0164 LOST COMMUNICATION WITH HVAC CONTROL MODULE

DTC DETECTING CONDITION:

No data is received from A/C control panel.

TROUBLE SYMPTOM:

Cooperation control of air conditioner does not operate properly.

Step	Check	Yes	No
1 CHECK PERFORMING OF BASIC DIAGNOSTIC PROCEDURE.	Was the basic diagnostic procedure performed up to step 8?	Go to step 2.	Perform the basic diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
2 CHECK DTC. Check the displayed DTC.	Is U0164 a current malfunction?	Go to step 3.	Go to step 6.
3 CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is the air conditioner data no-receive detected in several modules?	Replace the A/C control panel. <Ref. to AC-48, Control Panel.>	Go to step 4.
4 REPLACE MODULE. 1) Replace the A/C control panel. 2) Read the DTC using Subaru Select Monitor.	Is U0164 a current malfunction?	Go to step 5.	System is normal.
5 CHECK MODULE. 1) Restore the A/C control panel. 2) Replace the module that the DTC has been detected. 3) Read the DTC using Subaru Select Monitor.	Is U0164 a current malfunction?	Replace the A/C control panel. <Ref. to AC-48, Control Panel.>	System is normal.
6 CHECK HARNESS. 1) Shake the harness, and check for poor contact. 2) Read the DTC using Subaru Select Monitor.	Is U0164 a current malfunction?	Repair the poor contact of harness, or replace the harness.	Go to step 7.
7 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 U0327 SOFTWARE INCOMPATIBILITY WITH VEHICLE SECURITY CONTROL MODULE

DTC DETECTING CONDITION:

No data is received from keyless access CM.

TROUBLE SYMPTOM:

Cooperation control of keyless access does not operate properly.

CAUTION:

When the keyless access CM is replaced, registration of the immobilizer is required. For the relevant procedures, refer to the "REGISTRATION MANUAL FOR IMMOBILIZER".

Step	Check	Yes	No
1 CHECK PERFORMING OF BASIC DIAGNOSTIC PROCEDURE.	Was the basic diagnostic procedure performed up to step 8?	Go to step 2.	Perform the basic diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
2 CHECK DTC. Check the displayed DTC.	Is U0327 a current malfunction?	Go to step 3.	Go to step 6.
3 CHECK DTC. Using the Subaru Select Monitor, read DTC of all the systems.	Is the smart data no-receive detected in several modules?	Replace the keyless access CM. <Ref. to SL-93, Keyless Access CM.>	Go to step 4.
4 REPLACE MODULE. 1) Replace the keyless access CM. CAUTION: Do not register the immobilizer. 2) Read the DTC using Subaru Select Monitor.	Is U0327 a current malfunction?	Go to step 5.	System is normal.
5 CHECK MODULE. 1) Reinstall the keyless access CM. 2) Replace the module that the DTC has been detected. 3) Read the DTC using Subaru Select Monitor.	Is U0327 a current malfunction?	Replace the keyless access CM. <Ref. to SL-93, Keyless Access CM.>	System is normal.
6 CHECK HARNESS. 1) Shake the harness, and check for poor contact. 2) Read the DTC using Subaru Select Monitor.	Is U0327 a current malfunction?	Repair the poor contact of harness, or replace the harness.	Go to step 7.
7 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 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.

Step	Check	Yes	No
1 CHECK PERFORMING OF BASIC DIAGNOSTIC PROCEDURE.	Was the basic diagnostic procedure performed up to step 8?	Go to step 2.	Perform the basic diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
2 CHECK DTC. Check the displayed DTC.	Is U1235 a current malfunction?	Go to step 3.	Go to step 6.
3 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-11, Stereo Camera.>	Go to step 4.
4 REPLACE MODULE. 1) Replace the stereo camera. 2) Read the DTC using Subaru Select Monitor.	Is U1235 a current malfunction?	Go to step 5.	System is normal.
5 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-11, Stereo Camera.>	System is normal.
6 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 7.
7 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 U1602 LOST COMMUNICATION WITH POWER REAR GATE CONTROL MODULE

DTC DETECTING CONDITION:

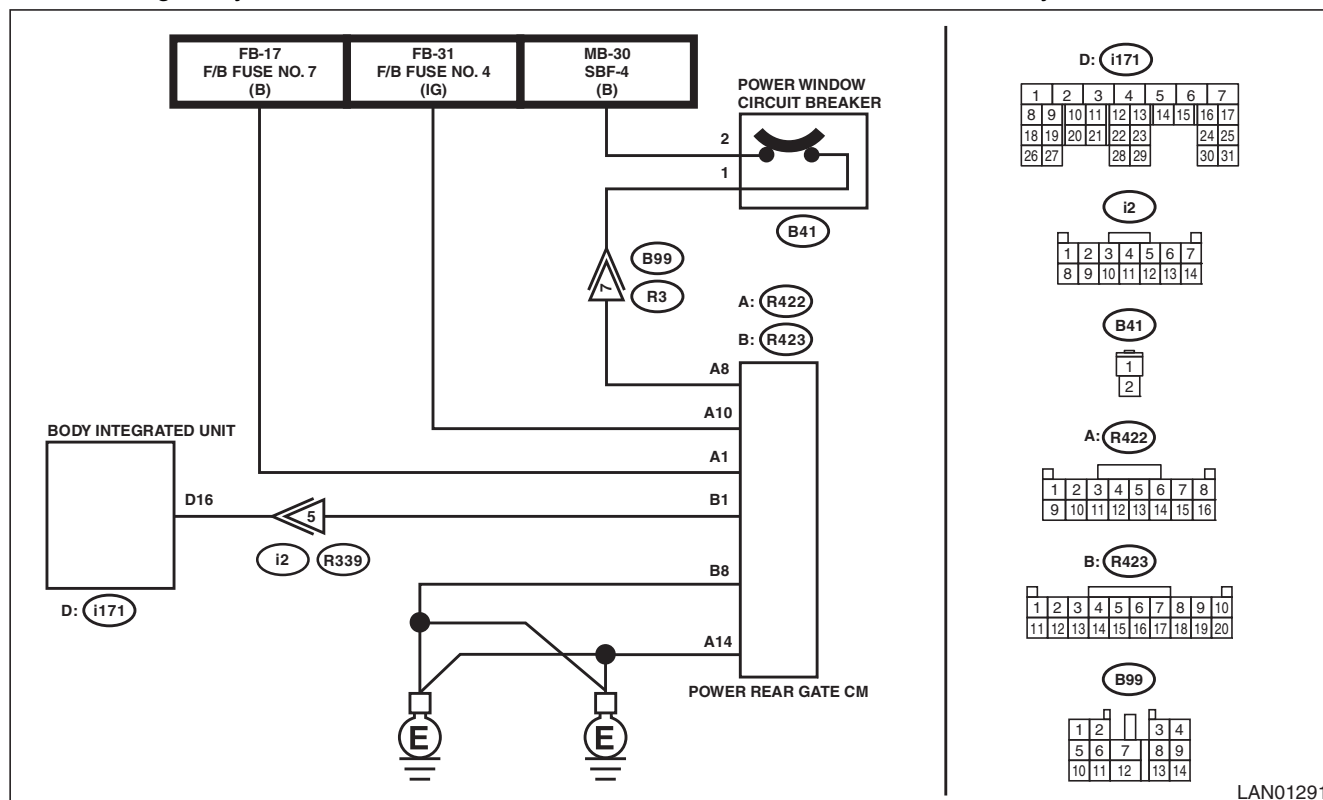
No data is received from the power rear gate CM.

TROUBLE SYMPTOM:

The power rear gate does not operate normally.

WIRING DIAGRAM:

Power rear gate system <Ref. to WI-314, WIRING DIAGRAM, Power Rear Gate System.>



LAN01291

	Step	Check	Yes	No
1	CHECK DTC. Read the DTC of body integrated unit using Subaru Select Monitor.	Is U1602 a current malfunction?	Go to step 2.	It is possible that temporary poor contact occurs. Perform the clear memory.
2	CHECK DTC. 1) Turn the ignition switch to OFF. 2) Disconnect the power rear gate CM and body integrated unit connectors. 3) Connect the disconnected connectors. 4) Using the Subaru Select Monitor, read DTC of CAN system.	Is U1602 a current malfunction?	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 rear gate CM and body integrated unit connectors. 3) Using the tester, measure the resistance between terminals. Connector & terminal (i171) No. 16 — (R423) No. 1: (R422) No. 14 — Chassis ground: (R423) No. 8 — Chassis ground:	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. <i>Connector & terminal</i> <i>(R423) No. 1 — Chassis ground:</i>	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. <i>Connector & terminal</i> <i>(R423) No. 1 (+) — Chassis ground (-):</i>	Is the voltage less than 1 V?	Go to step 6.	Repair the shorted portion of harness.
6 CHECK HARNESS. Using the tester, measure the voltage between terminals. <i>Connector & terminal</i> <i>(R422) No. 1 (+) — Chassis ground (-):</i> <i>(R422) No. 10 (+) — Chassis ground (-):</i> <i>(R422) No. 8 (+) — Chassis ground (-):</i>	Is the voltage 9 V or more when the IG switch is ON?	Go to step 7.	Repair the open circuit of harness.
7 CHECK POWER REAR GATE SYSTEM. Perform the inspection of the power rear gate system. <Ref. to PRG(diag)-2, PROCEDURE, Basic Diagnostic Procedure.>	Is there any fault?	Perform the inspection according to the inspection of the power rear gate system.	Go to step 8.
8 CHECK CONTROL MODULE. 1) Turn the ignition switch to OFF. 2) Replace the power rear gate CM with a properly functioning part. 3) Using the Subaru Select Monitor, read DTC of CAN system.	Is U1602 a current malfunction?	Perform the basic diagnostic procedure of the body control system <Ref. to BC(diag)-2, PROCEDURE, Basic Diagnostic Procedure.>, and if there is no problem, replace the body integrated unit. <Ref. to SL-74, REMOVAL, Body Integrated Unit.>	System is normal.

General Diagnostic Table

LAN SYSTEM (DIAGNOSTICS)

12.General Diagnostic Table

A: INSPECTION

Item	Operation	Specifications		Note
		YES	NO	
Diagnostic trouble code	DTC is displayed when inspecting all DTCs.	Perform the diagnosis according to DTC.	System is normal.	—
Speedometer	Faster vehicle speed than the actual speed is displayed.	VDC CM data may not be received.	System is normal.	Also, check vehicle speed pulse circuit.
Fuel gauge	Fuel is present, but displayed less than actual amount.	Communication error may be present.	System is normal.	Also, check the fuel gauge.
Fuel level warning light	Fuel is present, but the light illuminates.	Communication error may be present.	System is normal.	Also, check the fuel gauge.
Engine coolant temperature light	Engine coolant temperature light blinks in red and blue alternately.	Communication error may be present.	System is normal.	Check the engine coolant light related items.
[S], [I] or [S#] indicator	Blinking.	Communication error may be present.	System is normal.	Check the intelligent switch.
VDC indicator	Illuminating.	Communication error may be present.	System is normal.	Check that VDC is not operating.
VDC OFF indicator	Illuminating.	Communication error may be present.	System is normal.	Check that VDC is not OFF.
Brake warning, etc.	Illuminating.	Brake fluid may be low in amount, or communication error may be present.	System is normal.	Check brake related items.
Shift position	Not displayed.	Communication error may be present.	System is normal.	Also, check AT system.
AT temperature light	Blinking.	Communication error may be present.	System is normal.	Also, check AT system.
Door indicator	Not displayed when the door is opened. Otherwise, not turn off when the door is closed.	Communication error may be present.	System is normal.	Check the door switch.
Clearance indicator	Not illuminating.	Communication error may be present.	System is normal.	Check the combination switch.
Hi beam indicator	Not illuminating.	Communication error may be present.	System is normal.	Check the combination switch.
Front fog indicator	Not illuminating.	Communication error may be present.	System is normal.	Check the combination switch.
Illumination	Illuminating at the maximum brightness.	Communication error may be present.	System is normal.	Also, check the illumination switch.
Cruise control indicator	Not illuminating.	Communication error may be present.	System is normal.	Check the cruise control system.
AWD indicator	Not illuminating.	Communication error may be present.	System is normal.	Check TCM.
Hill hold indicator	Not illuminating.	Communication error may be present.	System is normal.	Also, check VDC CM.