

# General Diagnostic Table

LAN SYSTEM (DIAGNOSTICS)

## 13.General Diagnostic Table

### A: INSPECTION

Item	Operation	Specifications		Index
		YES	NO	
Diagnostic code	DTC is not displayed when inspecting all DTCs.	System is normal.	Perform the diagnosis according to DTC.	—
Engine coolant temperature	Engine coolant temperature gauge displays correctly without engine coolant temperature warning light illuminating/blinking.	System is normal.	Refer to the following to check. <ul style="list-style-type: none"> <li>• Engine cooling system</li> <li>• LAN system</li> </ul>	Check the current data display of ECM, TCM and body integrated unit, and if three data values differ, it is possible that the driving system CAN is malfunctioning.
Remaining fuel level	Fuel gauge displays correctly without low fuel warning light remaining illuminated.	System is normal.	Refer to the following to check. <ul style="list-style-type: none"> <li>• Combination meter system</li> <li>• LAN system</li> </ul>	Display the current data of body integrated unit, and if the values of "Fuel level resistance" and "Fuel level resistance 2" differ, it is possible that the body integrated unit is malfunctioning.
Ambient air temperature	Ambient air temperature is displayed correctly.	System is normal.	Refer to the following to check. <ul style="list-style-type: none"> <li>• HVAC system</li> <li>• LAN system</li> </ul>	—
Rear window defogger	Rear window defogger operates by operating the switch. Indicator in the switch illuminates when rear window defogger is operating.	System is normal.	Refer to the following to check. <ul style="list-style-type: none"> <li>• Rear window defogger</li> <li>• HVAC system</li> </ul>	—
Wiper deicer	Wiper deicer operates by operating the switch.	System is normal.	Refer to the following to check. <ul style="list-style-type: none"> <li>• Wiper deicer system</li> <li>• HVAC system</li> </ul>	Operates only when the customization of the body integrated unit "wiperdeicer" is set to "ON".
Rear wiper	Rear wiper operates normally by operating the switch.	System is normal.	Refer to the following to check. <ul style="list-style-type: none"> <li>• Wiper and washer system</li> </ul>	—
Key interlock	Key cannot be removed in other than the parking range. Key can be removed in the parking range.	System is normal.	Refer to the following to check. <ul style="list-style-type: none"> <li>• Shift lock control system</li> <li>• LAN system</li> </ul>	—
Shift Lock	Shift operation is normal.	System is normal.	Refer to the following to check. <ul style="list-style-type: none"> <li>• Shift lock control system</li> <li>• Combination meter system</li> <li>• LAN system</li> </ul>	—
Seat belt warning system	Indicator in the meter illuminate when driver's seat belt is not worn. Alarm sounds when vehicle speed is approx. 15 km/h (9.4 MPH) without seat belt fastened. Indicator in the center display illuminates when passenger's seat is occupied and the passenger's seat belt is not fastened. Alarm sounds when vehicle speed is approx. 15 km/h (9.4 MPH) without seat belt fastened.	System is normal.	Refer to the following to check. <ul style="list-style-type: none"> <li>• Seat belt warning system</li> <li>• Combination meter system</li> <li>• LAN system</li> </ul>	—
Door lock	Lock/unlock operates by operating the central door lock switch. Rear gate opens by operating the rear gate release switch.	System is normal.	Refer to the following to check. <ul style="list-style-type: none"> <li>• Security and locks</li> <li>• LAN system</li> </ul>	—

# General Diagnostic Table

## LAN SYSTEM (DIAGNOSTICS)

Item	Operation	Specifications		Index
		YES	NO	
Keyless Entry	Lock/unlock operates by operating the keyless transmitter. Rear gate unlocks by operating the rear gate unlock button.	System is normal.	Refer to the following to check. <ul style="list-style-type: none"><li>• Security and locks</li><li>• LAN system</li></ul>	—
Answer back	Answer back operates by operating lock/unlock with the keyless entry.	System is normal.	Refer to the following to check. <ul style="list-style-type: none"><li>• Security and locks</li><li>• LAN system</li></ul>	—
Room light	Turns ON/OFF according to the door open/close operation, the lock/unlock operation with the keyless entry, and the ignition operation.	System is normal.	Refer to the following to check. <ul style="list-style-type: none"><li>• Room light system</li><li>• Security and locks</li><li>• LAN system</li></ul>	—
Map light	Turns ON/OFF according to the door open/close operation, the lock/unlock operation with the keyless entry, and the ignition operation.	System is normal.	Refer to the following to check. <ul style="list-style-type: none"><li>• Spot map light</li><li>• Security and locks</li><li>• LAN system</li></ul>	—
Luggage light	Turns ON/OFF according to the door open/close operation, the lock/unlock operation with the keyless entry, and the ignition operation.	System is normal.	Refer to the following to check. <ul style="list-style-type: none"><li>• Luggage light</li><li>• Security and locks</li><li>• LAN system</li></ul>	—
Key illumination	Turns ON/OFF according to the driver's side door open/close and the ignition operation.	System is normal.	Refer to the following to check. <ul style="list-style-type: none"><li>• Ignition switch illumination</li><li>• Security and locks</li><li>• LAN system</li></ul>	Key illumination blinks when customization of the body integrated unit "Factory initial setting" is set to "Factory".
Illumination control	Illumination volume control is available.	System is normal.	Refer to the following to check. <ul style="list-style-type: none"><li>• Illumination control</li><li>• Combination meter system</li><li>• LAN system</li></ul>	—
Engine start	Engine starts normally.	System is normal.	Refer to the following to check. <ul style="list-style-type: none"><li>• Engine (diagnostics)</li><li>• Immobilizer</li><li>• LAN system</li></ul>	—
Vehicle security	When locked by the keyless entry, security monitor condition starts. When unlocked by the keyless entry, security is released.	System is normal.	Refer to the following to check. <ul style="list-style-type: none"><li>• Security and locks</li><li>• LAN system</li></ul>	—

**WIRING SYSTEM SECTION****WIRING SYSTEM****WI**

This service manual has been prepared to provide SUBARU service personnel with the necessary information and data for the correct maintenance and repair of SUBARU vehicles.

This manual includes the procedures for maintenance, disassembling, reassembling, inspection and adjustment of components and diagnostics for guidance of experienced mechanics.

Please peruse and utilize this manual fully to ensure complete repair work for satisfying our customers by keeping their vehicle in optimum condition. When replacement of parts during repair work is needed, be sure to use SUBARU genuine parts.

All information, illustration and specifications contained in this manual are based on the latest product information available at the time of publication approval.



# WIRING SYSTEM

WI

	Page
1. Basic Diagnostic Procedure .....	3
2. Working Precautions .....	14
3. Power Supply Circuit .....	15
4. Ground Circuit .....	22
5. Engine Electrical System .....	32
6. Vacuum Pump Control System .....	48
7. AT Control System .....	50
8. AT Shift Lock Control System .....	57
9. Vehicle Dynamics Control System .....	58
10. Tire Pressure Monitoring System .....	62
11. Air Conditioning System .....	63
12. Airbag System .....	68
13. Occupant Detection System .....	73
14. Immobilizer System .....	74
15. Cruise Control System .....	75
16. CAN Communication System .....	78
17. Radiator Fan System .....	80
18. Charging System .....	81
19. Starter System .....	82
20. Remote Engine Start System .....	83
21. Power Seat System .....	86
22. Seat Belt Warning System .....	89
23. Seat Heater System .....	90
24. Headlight System .....	91
25. Headlight Beam Leveler System .....	94
26. Front Fog Light System .....	95
27. Back-up Light System .....	96
28. Stop Light System .....	97
29. Clearance Light and Illumination Light System .....	98
30. Turn Signal Light and Hazard Light System .....	103
31. Interior Light System .....	105
32. Front Wiper and Washer System .....	111
33. Rear Wiper and Washer System .....	112
34. Wiper Deicer System .....	113
35. Washer Level Warning Light System .....	114
36. Audio System .....	115
37. Navigation System .....	127
38. Rearview Camera System .....	131
39. Multi-function Display (MFD) System .....	133
40. Rear Entertainment System .....	135
41. Front Accessory Power Supply Socket System .....	138
42. Rear Accessory Power Supply Socket System .....	139
43. Horn System .....	140
44. Power Window System .....	141
45. Rear Defogger System .....	145

46.	Remote Control Mirror System .....	146
47.	Combination Meter System .....	148
48.	Speedometer System .....	152
49.	Fuel Gauge System .....	153
50.	Coolant Temperature System .....	154
51.	Oil Pressure Warning Light System .....	155
52.	Parking Brake / Brake Fluid Level Warning Light System .....	156
53.	Sunroof Control System .....	157
54.	Keyless Entry System .....	158
55.	Security System .....	162
56.	Rear Differential Oil Temperature Warning Light System .....	165
57.	Rearview Mirror System .....	166
58.	Harness Components Location .....	168
59.	Front Wiring Harness .....	169
60.	Bulkhead Wiring Harness (In Engine Compartment) .....	171
61.	Bulkhead Wiring Harness (In Compartment) .....	173
62.	Engine Wiring Harness and Transmission Cord .....	176
63.	Instrument Panel Wiring Harness .....	178
64.	Rear Wiring Harness .....	181
65.	Door Cord .....	186
66.	Rear Wiring Harness and Rear Gate Cord .....	188