## 14. Diagnostic Procedure for Subaru Select Monitor Communication A: COMMUNICATION FOR INITIALIZING IMPOSSIBLE

## **DIAGNOSIS:**

Defective harness connector **TROUBLE SYMPTOM:** Subaru Select Monitor communication failure **WIRING DIAGRAM:** 

CVT control system <Ref. to WI(HEV)-86, CVT Control System.>



## Diagnostic Procedure for Subaru Select Monitor Communication

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

	Step	Check	Yes	No
1	CHECK IGNITION SWITCH.	Is the ignition switch ON?	Go to step 2.	Turn the ignition switch to ON, and select the trans- mission mode using the Subaru Select Monitor.
2	<ol> <li>CHECK BATTERY.</li> <li>1) Turn the ignition switch to OFF.</li> <li>2) Measure the battery voltage.</li> </ol>	Is the voltage 11 V or more?	Go to step <b>3</b> .	Charge or replace the battery.
3	CHECK BATTERY TERMINAL.	Is there poor contact at battery terminal?	Repair or tighten the battery termi- nal.	Go to step <b>4</b> .
4	CHECK INSTALLATION OF TCM CONNEC- TOR. Turn the ignition switch to OFF.	Is the TCM connector inserted into the TCM until the clamp locks?	Go to step 5.	Insert the TCM connector to TCM.
5	CHECK LAN SYSTEM. Perform the diagnosis for LAN system. <ref. to<br="">LAN(HEV)(diag)-2, Basic Diagnostic Proce- dure.&gt;</ref.>	Is there any fault in LAN sys- tem?	Perform the diag- nosis according to DTC for LAN sys- tem. <ref. to<br="">LAN(HEV)(diag)- 87, List of Diagnos- tic Trouble Code (DTC).&gt;</ref.>	Go to step <b>6</b> .
6	<ul> <li>CHECK SUBARU SELECT MONITOR COM- MUNICATION.</li> <li>1) Turn the ignition switch to ON.</li> <li>2) Check whether communication to transmission system can be executed normally.</li> </ul>	Is the system name displayed on Subaru Select Monitor?	Check DTC of TCM. <ref. to<br="">CVT(HEV)(diag)- 19, Read Diagnos- tic Trouble Code (DTC).&gt;</ref.>	Go to step 7.
7	CHECK POWER SUPPLY CIRCUIT. 1) Turn the ignition switch to ON. (engine OFF) 2) Measure the ignition power supply voltage between TCM connector and chassis ground. <i>Connector &amp; terminal</i> (B55) No. 1 (+) — Chassis ground (-): (B55) No. 2 (+) — Chassis ground (-): (B55) No. 21 (+) — Chassis ground (-): (B55) No. 22 (+) — Chassis ground (-): (B55) No. 22 (+) — Chassis ground (-):	Is the voltage 10 — 13 V?	Go to step 8.	Repair the open circuit of harness between TCM and battery.
8	<ul> <li>CHECK HARNESS CONNECTOR BETWEEN TCM AND CHASSIS GROUND.</li> <li>1) Turn the ignition switch to OFF.</li> <li>2) Disconnect the connector from TCM.</li> <li>3) Measure the resistance of harness between TCM connector and chassis ground.</li> <li>Connector &amp; terminal (B54) No. 1 — Chassis ground:</li> </ul>	Is the resistance less than 10 $\Omega$ ?	Go to step 9.	Repair the open circuit of the TCM ground circuit and poor contact of connector.
9	CHECK POOR CONTACT OF CONNECTOR.	Is there poor contact of control module power supply, ground circuit and data link connector?	Repair the connec- tor.	Replace the TCM. <ref. to<br="">CVT(TH58A)-158, Transmission Con- trol Module (TCM).&gt;</ref.>