## DTC P0560:16 [START STOP UNIT]

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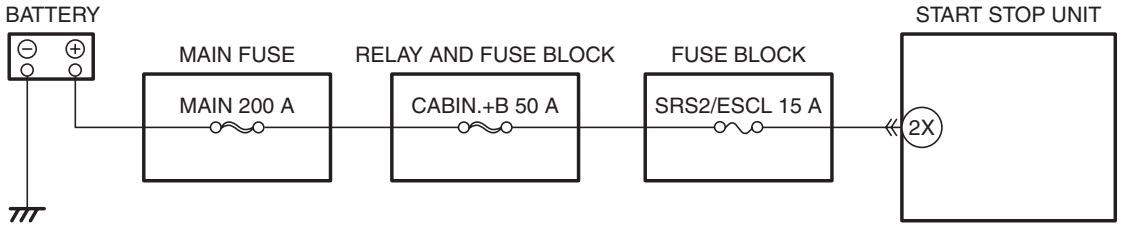
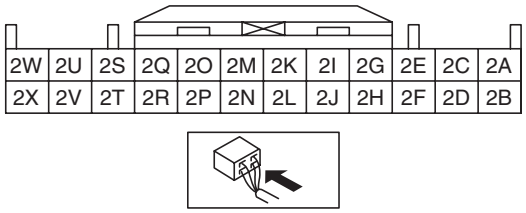
|---|---|
| **System malfunction location** | **Start stop unit power supply voltage (+B3) low input** |
| **Detection condition** | • Start stop unit power supply circuit (+B3) voltage of **less than 8.5 V** is detected for **5 s or more**. |
| **Fail-safe** | — |
| **Possible cause** | • Battery malfunction<br>• Start stop unit connector or terminal malfunction<br>• Start stop unit power supply circuit (+B3) malfunction<br>— Short to ground in wiring harness between MAIN 200 A fuse and start stop unit terminal 2X<br>— MAIN 200 A fuse malfunction<br>— CABIN.+B 50 A fuse malfunction<br>— SRS2/ESCL 15 A fuse malfunction<br>— Open circuit in wiring harness between battery positive terminal and start stop unit terminal 2X<br>• Start stop unit malfunction |




START STOP UNIT
WIRING HARNESS-SIDE CONNECTOR




### Diagnostic Procedure

| Step | Inspection | | Action |
|---|---|---|---|
| 1 | **INSPECT BATTERY**<br>• Inspect the battery.<br>(See BATTERY INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)<br>(See BATTERY INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].)<br>(See BATTERY INSPECTION [SKYACTIV-D 2.2].)<br>• Is the battery normal? | Yes | Go to the next step. |
| | | No | Recharge or replace the battery, then go to Step 4.<br>(See BATTERY RECHARGING [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)<br>(See BATTERY RECHARGING [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].)<br>(See BATTERY RECHARGING [SKYACTIV-D 2.2].)<br>(See BATTERY REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)<br>(See BATTERY REMOVAL/INSTALLATION [SKYACTIV-D 2.2].) |

| Step | Inspection | | Action |
|---|---|---|---|
| 2 | **INSPECT START STOP UNIT CONNECTOR CONDITION**<br>• Switch the ignition to off.<br>• Disconnect the negative battery cable.<br>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)<br>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].)<br>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)<br>• Disconnect the start stop unit connector.<br>• Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection.<br>• Is the connector normal? | Yes | Go to the next step. |
| | | No | Repair or replace the connector, then go to Step 4. |
| 3 | **INSPECT START STOP UNIT POWER SUPPLY CIRCUIT (+B3)**<br>• Reconnect all the disconnected connectors.<br>• Connect the negative battery cable.<br>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)<br>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].)<br>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)<br>• Display PID VPWR_B3 using the M-MDS.<br>(See PID/DATA MONITOR INSPECTION [START STOP UNIT].)<br>• Is the voltage **B+**? | Yes | Go to the next step. |
| | | No | Inspect the MAIN 200 A, CABIN.+B 50 A and SRS2/ESCL 15 A fuses.<br>• If a fuse is burnt out:<br>— Repair or replace the wiring harness which is shorted to ground.<br>— Replace the burnt out fuse.<br>• If a fuse is damaged:<br>— Replace the damaged fuse.<br>• If the fuse is normal:<br>— Repair or replace the wiring harness which has an open circuit.<br>Go to the next step. |
| 4 | **VERIFY THAT REPAIRS HAVE BEEN COMPLETED**<br>• Reconnect all the disconnected connectors.<br>• Reconnect the disconnected negative battery cable.<br>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)<br>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].)<br>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)<br>• Clear DTC for the start stop unit using the M-MDS.<br>(See CLEARING DTC [START STOP UNIT].)<br>• Switch the ignition ON (engine off or on) and wait for **5 s or more**.<br>• Perform the DTC inspection for the start stop unit using the M-MDS.<br>(See DTC INSPECTION [START STOP UNIT].)<br>• Is DTC P0560:16 displayed? | Yes | Repeat the inspection from Step 1.<br>• If the malfunction recurs, replace the start stop unit, then go to the next step.<br>(See START STOP UNIT REMOVAL/INSTALLATION.) |
| | | No | Go to the next step. |

| Step | Inspection | | Action |
|---|---|---|---|
| 5 | **VERIFY IF OTHER DTCs DISPLAYED**<br>• Are any other DTCs displayed? | Yes | Repair the malfunctioning part according to the applicable DTC troubleshooting.<br>(See DTC TABLE [START STOP UNIT].) |
| | | No | DTC troubleshooting completed. |