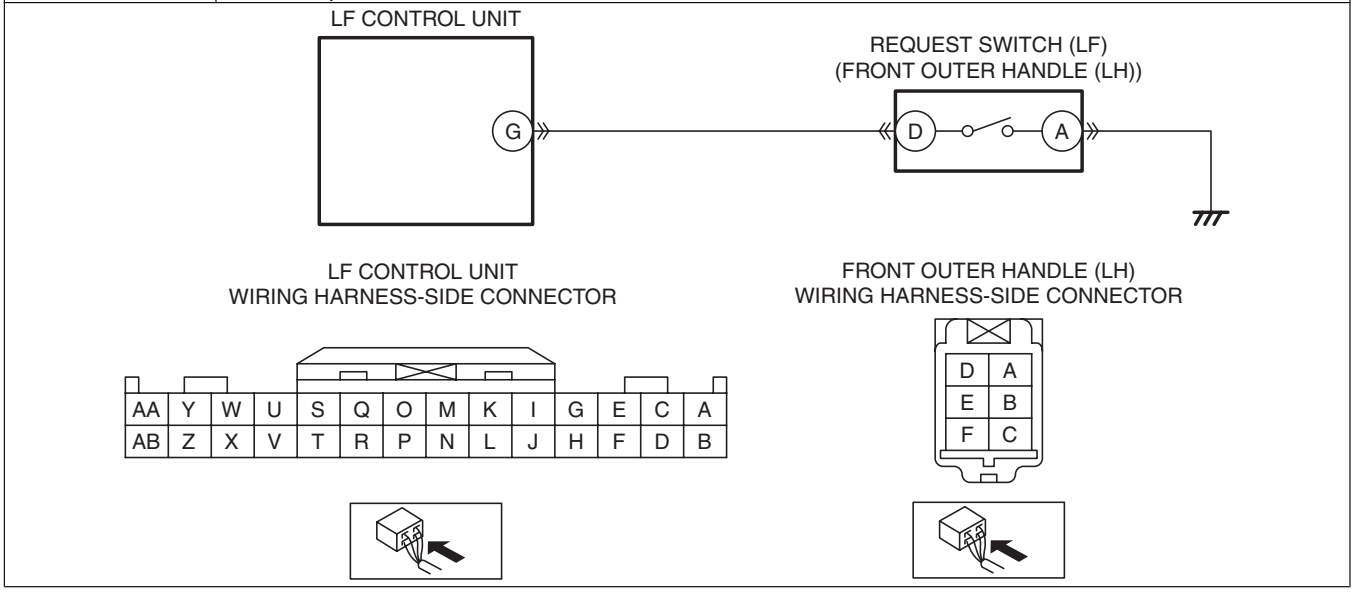
DTC B10D1:23 [ADVANCED KEYLESS ENTRY SYSTEM]

id0902p8026400

System malfunction location	**Request switch (LF) circuit malfunction**
Detection condition	• With the ignition switched ON (engine on), the start stop unit detects that the vehicle speed is **5 km/h {3 mph} or more** for a continuous **2 min or more** and the request switch (LF) is on **7 times or more** until the vehicle speed is **less than 5 km/h {3 mph}**.
Fail-safe	—
Possible cause	• Front outer handle (LH) connector or terminal malfunction • LF control unit connector or terminal malfunction • Short to ground in wiring harness between LF control unit terminal G and front outer handle (LH) terminal D • Request switch (LF) malfunction • LF control unit malfunction • Start stop unit malfunction



Diagnostic Procedure

Step	Inspection		Action
1	**INSPECT FRONT OUTER HANDLE (LH) CONNECTOR CONDITION** • Switch the ignition to off. • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Disconnect the front outer handle (LH) connector. • Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. • Is the connector normal?	Yes	Go to the next step.
		No	Repair or replace the connector, then go to Step 6.

Step	Inspection		Action
2	**INSPECT LF CONTROL UNIT CONNECTOR CONDITION** • Disconnect the LF control unit connector. • Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. • Is the connector normal?	Yes	Go to the next step.
		No	Repair or replace the connector, then go to Step 6.
3	**INSPECT REQUEST SWITCH (LF) CIRCUIT FOR SHORT TO GROUND** • Verify that the LF control unit and front outer handle (LH) connectors are disconnected. • Inspect for continuity between front outer handle (LH) terminal D (vehicle wiring harness side) and body ground. • Is there continuity?	Yes	Repair or replace the wiring harness which is shorted to ground, then go to Step 6.
		No	Go to the next step.
4	**INSPECT REQUEST SWITCH (LF)** • Inspect the request switch (LF). (See REQUEST SWITCH INSPECTION.) • Is the request switch (LF) normal?	Yes	Go to the next step.
		No	Replace the front outer handle (LH), then go to Step 6. (See FRONT OUTER HANDLE REMOVAL/INSTALLATION.)
5	**INSPECT LF CONTROL UNIT** • Inspect the LF control unit. (See LF CONTROL UNIT INSPECTION.) • Is the LF control unit normal?	Yes	Go to the next step.
		No	Replace the LF control unit, then go to the next step. (See LF CONTROL UNIT REMOVAL/INSTALLATION.)
6	**VERIFY THAT REPAIRS HAVE BEEN COMPLETED** • Reconnect all the disconnected connectors. • Reconnect the disconnected negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Clear DTCs for the advanced keyless entry system using the M-MDS. (See CLEARING DTC [ADVANCED KEYLESS ENTRY SYSTEM].) • Drive the vehicle at **5 km/h {3 mph} or more** for **2 min or more**. • Perform the advanced keyless entry system DTC inspection using the M-MDS. (See DTC INSPECTION [ADVANCED KEYLESS ENTRY SYSTEM].) • Is DTC B10D1:23 displayed?	Yes	Repeat the inspection from Step 1. • If the malfunction recurs, replace the start stop unit, then go to the next step. (See START STOP UNIT REMOVAL/INSTALLATION.)
		No	Go to the next step.
7	**VERIFY IF OTHER DTCs DISPLAYED** • Are any other DTCs displayed?	Yes	Repair the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [ADVANCED KEYLESS ENTRY SYSTEM].)
		No	DTC troubleshooting completed.