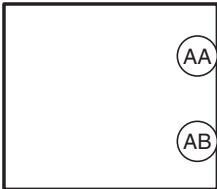


DTC B10C6:1F [ADVANCED KEYLESS ENTRY SYSTEM]

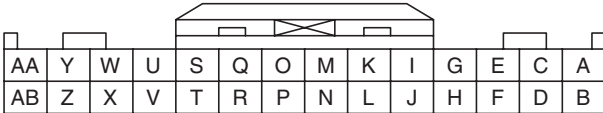
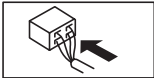
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System malfunction location	Keyless antenna (exterior, rear) circuit malfunction
Detection condition	<ul style="list-style-type: none"> The start stop unit detects an open circuit in the keyless antenna (exterior, rear) or a short to ground with the ignition switched off.
Fail-safe	<ul style="list-style-type: none"> Inhibits the door lock/unlock control using the advanced keyless entry system.
Possible cause	<ul style="list-style-type: none"> Keyless antenna (exterior, rear) connector or terminal malfunction LF control unit connector or terminal malfunction Short to ground in wiring harness between the following terminals: <ul style="list-style-type: none"> Between LF control unit terminal AA and keyless antenna (exterior, rear) terminal B Between LF control unit terminal AB and keyless antenna (exterior, rear) terminal A Open circuit in wiring harness between the following terminals: <ul style="list-style-type: none"> Between LF control unit terminal AA and keyless antenna (exterior, rear) terminal B Between LF control unit terminal AB and keyless antenna (exterior, rear) terminal A LF control unit malfunction Keyless antenna (exterior, rear) malfunction Start stop unit malfunction

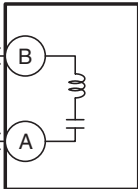
LF CONTROL UNIT




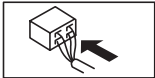
LF CONTROL UNIT
WIRING HARNESS-SIDE CONNECTOR

KEYLESS ANTENNA
(EXTERIOR, REAR)



KEYLESS ANTENNA
(EXTERIOR, REAR)
WIRING HARNESS-SIDE CONNECTOR

Diagnostic Procedure

Step	Inspection	Action
1	INSPECT KEYLESS ANTENNA (EXTERIOR, REAR) CONNECTOR CONDITION <ul style="list-style-type: none"> 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 keyless antenna (exterior, rear) connector. Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. Is the connector normal? 	<div style="display: flex; justify-content: space-between;"> <div> <p>Yes</p> <p>No</p> </div> <div> <p>Go to the next step.</p> <p>Repair or replace the connector, then go to Step 7.</p> </div> </div>

Step	Inspection	Action
2	INSPECT LF CONTROL UNIT CONNECTOR CONDITION <ul style="list-style-type: none"> • 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 7.
3	INSPECT KEYLESS ANTENNA (EXTERIOR, REAR) CIRCUIT FOR SHORT TO GROUND <ul style="list-style-type: none"> • Verify that the LF control unit and keyless antenna (exterior, rear) connectors are disconnected. • Inspect for continuity between the following terminals (vehicle wiring harness side) and body ground. <ul style="list-style-type: none"> — Keyless antenna (exterior, rear) terminal B — Keyless antenna (exterior, rear) terminal A • Is there continuity? 	Yes Repair or replace the wiring harness which is shorted to ground, then go to Step 7.
		No Go to the next step.
4	INSPECT KEYLESS ANTENNA (EXTERIOR, REAR) CIRCUIT FOR OPEN CIRCUIT <ul style="list-style-type: none"> • Verify that the LF control unit and keyless antenna (exterior, rear) connectors are disconnected. • Inspect the wiring harness between the following terminals (vehicle wiring harness side) for continuity. <ul style="list-style-type: none"> — Between LF control unit terminal AA and keyless antenna (exterior, rear) terminal B — Between LF control unit terminal AB and keyless antenna (exterior, rear) terminal A • Is there continuity? 	Yes Go to the next step.
		No Repair or replace the wiring harness which has an open circuit, then go to Step 7.
5	INSPECT LF CONTROL UNIT <ul style="list-style-type: none"> • 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 Step 7. (See LF CONTROL UNIT REMOVAL/INSTALLATION.)
6	PERFORM DTC INSPECTION AND VERIFY IF MALFUNCTIONING PART IS KEYLESS ANTENNA (EXTERIOR, REAR) <ul style="list-style-type: none"> • 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].) • Perform the advanced keyless entry system DTC inspection using the M-MDS. (See DTC INSPECTION [ADVANCED KEYLESS ENTRY SYSTEM].) • Is DTC B10C6:1F displayed? 	Yes Replace the keyless antenna (exterior, rear), then go to the next step. (See KEYLESS ANTENNA REMOVAL/INSTALLATION.)
		No Go to Step 8.

Step	Inspection	Action
7	VERIFY THAT REPAIRS HAVE BEEN COMPLETED <ul style="list-style-type: none"> 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].) Perform the advanced keyless entry system DTC inspection using the M-MDS. (See DTC INSPECTION [ADVANCED KEYLESS ENTRY SYSTEM].) Is DTC B10C6:1F 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.
8	VERIFY IF OTHER DTCs DISPLAYED <ul style="list-style-type: none"> 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.