

DTC B2175

B3E090201072W32

DTC B2175	A/C request signal circuit short to ground
DETECTION CONDITION	Short to GND in wiring harness between PJB and climate control unit (A/C ON request)
POSSIBLE CAUSE	<ul style="list-style-type: none"> • Short to GND in wiring harness between PJB terminal J-04 AF and climate control unit terminal M • Climate control unit malfunction • PJB malfunction

Diagnostic procedure

STEP	INSPECTION	ACTION
1	INSPECT CLIMATE CONTROL UNIT CONNECTOR <ul style="list-style-type: none"> • Disconnect the climate control unit connector. • Inspect the climate control unit connector terminals for poor connection (such as damaged/pulled-out pins, and corrosion). • Is there any malfunction? 	Yes: Repair or replace the terminal, then go to Step 5. No: Go to the next step.
2	INSPECT PJB CONNECTOR <ul style="list-style-type: none"> • Disconnect the PJB connector. • Inspect the PJB connector terminals for poor connection (such as damaged/pulled-out pins, and corrosion). • Is there any malfunction? 	Yes: Repair or replace the terminal, then go to Step 5. No: Go to the next step.
3	INSPECT CLIMATE CONTROL UNIT SIGNAL CIRCUIT FOR SHORT TO GND <ul style="list-style-type: none"> • Inspect for continuity between PJB terminal J-04 AF (wiring harness-side) and body GND. • Is there continuity? 	Yes: Repair or replace the wiring harness for a possible short to GND, then go to Step 5. No: Go to the next step.
	INSPECT CLIMATE CONTROL UNIT <ul style="list-style-type: none"> • Inspect the climate control unit. (See CLIMATE CONTROL UNIT	Yes: Replace the climate control unit, then go to the next step. (See CLIMATE CONTROL UNIT REMOVAL [MANUAL AIR CONDITIONER] , CLIMATE

4	INSPECTION [MANUAL AIR CONDITIONER].) • Is there any malfunction?		CONTROL UNIT INSTALLATION [MANUAL AIR CONDITIONER].)
		No	Go to the next step.
5	VERIFY TROUBLESHOOTING COMPLETED • Make sure to reconnect all disconnected connectors. • Clear the DTC from the PJB memory using the WDS or equivalent. • Perform the self-test. (See PJB SELF-TEST.) • Is the same DTC present?	Yes	Replace the PJB. (See PASSENGER JUNCTION BOX (PJB) REMOVAL/INSTALLATION.)
		No	DTC troubleshooting completed.