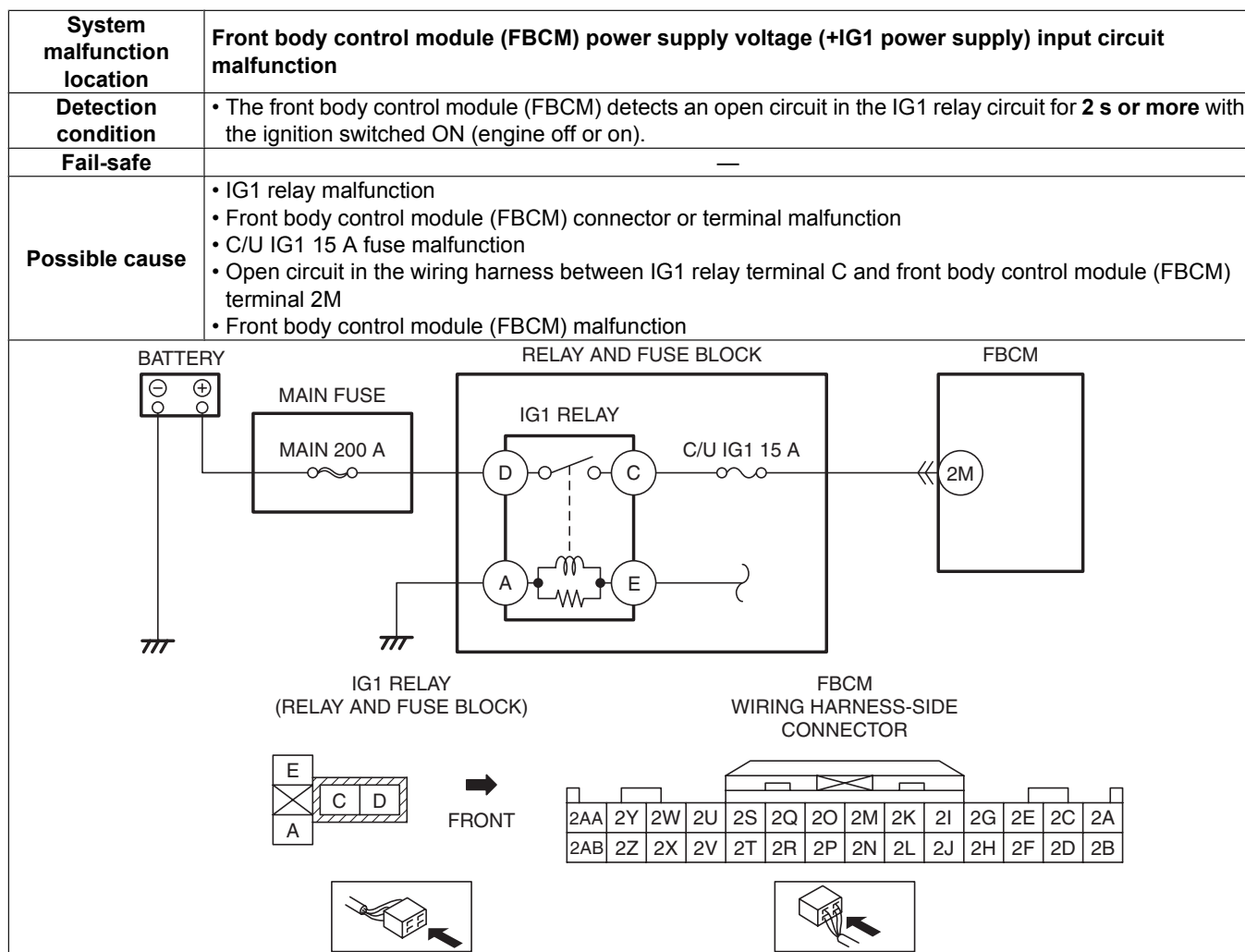


DTC B1142:13 [FRONT BODY CONTROL MODULE (FBCM)]

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Diagnostic Procedure

Step	Inspection	Action
1	VERIFY FRONT BODY CONTROL MODULE (FBCM) DTCs AGAIN <ul style="list-style-type: none"> Clear front body control module (FBCM) DTCs using the M-MDS. (See CLEARING DTC [FRONT BODY CONTROL MODULE (FBCM)].) Switch the ignition ON (engine off or on) and wait for 2 s or more. Perform the front body control module (FBCM) DTC inspection using the M-MDS. (See DTC INSPECTION [FRONT BODY CONTROL MODULE (FBCM)].) Is DTC B1142:13 displayed? 	<div>Yes</div> Go to the next step. <div>No</div> Go to Step 7.

Step	Inspection	Action	
2	INSPECT IG1 RELAY FOR MALFUNCTION <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].) • Remove the IG1 relay. • Inspect the IG1 relay. (See RELAY INSPECTION.) • Is the IG1 relay normal? 	Yes	Go to the next step.
		No	Replace the IG1 relay, then go to Step 6.
3	INSPECT FRONT BODY CONTROL MODULE (FBCM) CONNECTOR CONDITION <ul style="list-style-type: none"> • Disconnect the front body control module (FBCM) 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.
4	INSPECT C/U IG1 15 A FUSE FOR MALFUNCTION <ul style="list-style-type: none"> • Remove the C/U IG1 15 A fuse. • Inspect the C/U IG1 15 A fuse. • Is the C/U IG1 15 A fuse normal? 	Yes	Install the C/U IG1 15 A fuse, then go to the next step.
		No	If a fuse is burnt out: <ul style="list-style-type: none"> • Repair or replace the wiring harness which is shorted to ground. • Replace the fuse. If a fuse is damaged: <ul style="list-style-type: none"> • Replace the fuse. Go to Step 6.
5	INSPECT FRONT BODY CONTROL MODULE (FBCM) POWER SUPPLY VOLTAGE (+IG1 POWER SUPPLY) INPUT CIRCUIT FOR OPEN CIRCUIT <ul style="list-style-type: none"> • Verify that the IG1 relay is removed. • Verify that the front body control module (FBCM) connector is disconnected. • Inspect the wiring harness for continuity between IG1 relay terminal C (vehicle wiring harness side) and front body control module (FBCM) terminal 2M (vehicle wiring harness side). • Is there continuity? 	Yes	Go to the next step.
		No	Repair or replace the wiring harness and go to the next step.

Step	Inspection	Action
6	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 front body control module (FBCM) DTCs using the M-MDS. (See CLEARING DTC [FRONT BODY CONTROL MODULE (FBCM)].) • Switch the ignition ON (engine off or on) and wait for 2 s or more. • Perform the front body control module (FBCM) DTC inspection using the M-MDS. (See DTC INSPECTION [FRONT BODY CONTROL MODULE (FBCM)].) • Is DTC B1142:13 displayed? 	Yes Repeat the inspection from Step 1. • If the malfunction recurs, replace the front body control module (FBCM), then go to the next step. (See FRONT BODY CONTROL MODULE (FBCM) REMOVAL/INSTALLATION.)
		No Go to the next step.
7	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 [FRONT BODY CONTROL MODULE (FBCM)].)
		No DTC troubleshooting completed.