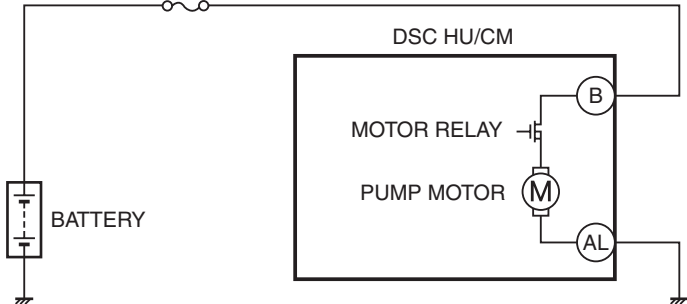


DTC C0020:11/C0020:12/C0020:13/C0020:71 [DYNAMIC STABILITY CONTROL (DSC)]

id0402b2906000

DTC	C0020:11, C0020:12, C0020:13, C0020:71	Pump motor, motor relay
DETECTION CONDITION	<ul style="list-style-type: none">• C0020:11<ul style="list-style-type: none">— Motor relay signal does not correspond to DSC HU/CM OFF signal.• C0020:12<ul style="list-style-type: none">— DSC motor monitor signal does not correspond to DSC HU/CM OFF signal.— DSC motor monitor signal does not correspond to DSC HU/CM ON signal.• C0020:13<ul style="list-style-type: none">— Motor relay signal does not correspond to DSC HU/CM ON signal.• C0020:71<ul style="list-style-type: none">— DSC HU/CM motor monitor ON signal is not input within specified time limit or more when motor signal is switched from ON to OFF by DSC HU/CM.	
FAIL-SAFE FUNCTION	<ul style="list-style-type: none">• Illuminates the ABS warning light, TCS/DSC indicator light and master warning light^{*1}.• Inhibits the ABS, TCS, DSC, roll over mitigation (ROM), brake assist control, vehicle roll prevention function^{*2}, hill launch assist (HLA), smart city brake support (SCBS)^{*1}, and secondary collision reduction (SCR) controls. <p>^{*1}: Vehicles with smart city brake support (SCBS)</p> <p>^{*2}: ATX only</p>	
POSSIBLE CAUSE	<ul style="list-style-type: none">• Fuse (ABS/DSC M 50A) malfunction• Open or short circuit in DSC HU/CM internal motor relay, or stuck motor relay• Open or short circuit in DSC HU/CM internal pump motor, or frozen pump motor• Open circuit or short to ground in the wiring harness between the battery and DSC HU/CM terminal B• Open circuit in the wiring harness between DSC HU/CM terminal AL and body ground• Poor connection at connectors (female terminal)	

ABS/DSC M 50A



BATTERY

DSC HU/CM


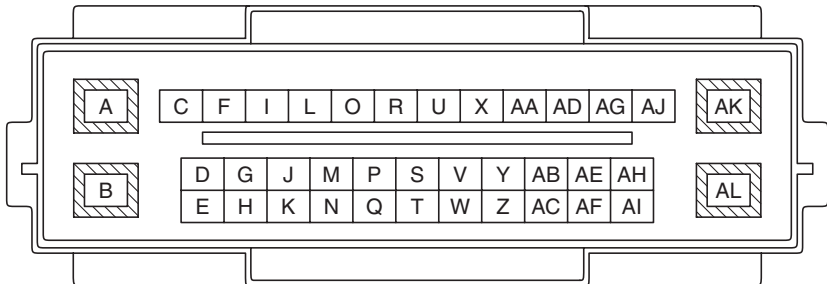
MOTOR RELAY

PUMP MOTOR

B

AL

DSC HU/CM WIRING HARNESS-SIDE CONNECTOR



Diagnostic procedure

STEP	INSPECTION	ACTION	
1	INSPECT FUSE CONDITION <ul style="list-style-type: none"> • Is the fuse (ABS/DSC M 50A) normal? 	Yes	Go to the next step.
		No	Replace the fuse, then go to Step 6.

STEP	INSPECTION		ACTION
2	VERIFY PUMP MOTOR OPERATION <ul style="list-style-type: none"> Switch the ignition to off. Connect the M-MDS to the DLC-2. Switch the ignition ON (engine off). Access PMP_MT_SP active command modes using the M-MDS. Does the pump motor operate? 	Yes	Go to the next step.
		No	Replace the DSC HU/CM, then go to Step 6. (See DSC HU/CM REMOVAL/INSTALLATION.)
3	INSPECT MOTOR RELAY POWER SUPPLY FOR OPEN CIRCUIT <ul style="list-style-type: none"> Switch the ignition to off. Disconnect the DSC HU/CM connector. Inspect for continuity between DSC HU/CM terminal B (vehicle harness-side) and the positive battery terminal. Is there continuity? 	Yes	Go to the next step.
		No	Repair or replace the wiring harness, then go to Step 6.
4	INSPECT MOTOR RELAY POWER SUPPLY FOR SHORT CIRCUIT <ul style="list-style-type: none"> Inspect for continuity between DSC HU/CM terminal B (vehicle harness-side) and body ground. Is there continuity? 	Yes	Repair or replace the wiring harness, then go to Step 6.
		No	Go to the next step.
5	INSPECT PUMP MOTOR GROUND FOR OPEN CIRCUIT <ul style="list-style-type: none"> Inspect for continuity between DSC HU/CM terminal AL (vehicle harness-side) and body ground. Is there continuity? 	Yes	Go to the next step.
		No	Repair or replace the wiring harness, then go to the next step.
6	VERIFY THAT THE SAME DTC IS NOT PRESENT <ul style="list-style-type: none"> Reconnect all disconnected connectors. Clear the DTCs from the memory. (See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)].) Start the engine and drive the vehicle at 10 km/h {6.2 mph} or more. Are the same DTCs present? 	Yes	Repeat the inspection from Step 1. If the malfunction recurs, replace the DSC HU/CM, then go to the next step. (See DSC HU/CM REMOVAL/INSTALLATION.)
		No	Go to the next step.
7	VERIFY THAT NO OTHER DTCS ARE PRESENT <ul style="list-style-type: none"> Are any other DTCs output? 	Yes	Go to the applicable DTC inspection. (See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)].)
		No	DTC troubleshooting completed.