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2011 MAZDA Tribute OEM Service and Repair Workshop Manual

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Sample

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Step	Inspection	Results	Action
4	**VERIFY IF MALFUNCTIONING LOCATION IS ELECTRIC PARKING BRAKE MOTOR GEAR UNIT (RH) DEPENDING ON REPEATABILITY** • Switch the ignition off. • Disconnect the negative battery terminal. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.) • Always reconnect all disconnected connectors. • Connect the negative battery terminal. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.) • Clear the DTC for the electric parking brake control module using the M-MDS. (See CLEARING DTC [ELECTRIC PARKING BRAKE CONTROL MODULE].) • Perform the following procedure 3 times or more. — Pull up the electric parking brake switch to operate the electric parking brake. — Press down the electric parking brake switch to release the electric parking brake. • Retrieve the electric parking brake control module DTCs using the M-MDS. (See DTC INSPECTION [ELECTRIC PARKING BRAKE CONTROL MODULE].) • Is the same DTC displayed?	Yes	Replace the electric parking brake motor gear unit (RH), then go to the next step. (See ELECTRIC PARKING BRAKE MOTOR GEAR UNIT REMOVAL/INSTALLATION.)
		No	Go to the Step 6.
5	**VERIFY THAT REPAIRS HAVE BEEN COMPLETED** • Always reconnect all disconnected connectors. • Connect the negative battery terminal. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.) • Clear the DTC for the electric parking brake control module using the M-MDS. (See CLEARING DTC [ELECTRIC PARKING BRAKE CONTROL MODULE].) • Perform the following procedure 3 times or more. — Pull up the electric parking brake switch to operate the electric parking brake. — Press down the electric parking brake switch to release the electric parking brake. • Retrieve the electric parking brake control module DTCs using the M-MDS. (See DTC INSPECTION [ELECTRIC PARKING BRAKE CONTROL MODULE].) • Is the same DTC displayed?	Yes	Repeat the inspection from Step 1. • If the malfunction recurs, replace the electric parking brake control module. (See ELECTRIC PARKING BRAKE CONTROL MODULE REMOVAL/INSTALLATION.) Go to the next step.
		No	Go to the next step.
6	**VERIFY IF OTHER DTCs DISPLAYED** • Are any other DTCs displayed?	Yes	Repair or replace the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [ELECTRIC PARKING BRAKE CONTROL MODULE].)
		No	DTC troubleshooting completed.

Sample

Step	Inspection	Results	Action
1	**INSPECT ELECTRIC PARKING BRAKE MOTOR GEAR UNIT (RH) CONNECTOR CONDITION** • Switch the ignition off. • Disconnect the negative battery terminal. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.) • Disconnect the electric parking brake motor gear unit (RH) 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 5.
2	**INSPECT ELECTRIC PARKING BRAKE CONTROL MODULE CONNECTOR CONDITION** • Disconnect the electric parking brake control module 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 5.
3	**INSPECT ELECTRIC PARKING BRAKE MOTOR GEAR UNIT (RH) CIRCUIT FOR OPEN CIRCUIT** • Verify that the electric parking brake motor gear unit (RH) and electric parking brake control module connectors are disconnected. • Inspect for continuity between the following terminals (wiring harness-side): — Electric parking brake motor gear unit (RH) terminal A—Electric parking brake control module terminal 1P — Electric parking brake motor gear unit (RH) terminal B—Electric parking brake control module terminal 1M • Is there continuity?	Yes	Go to the next step.
		No	Refer to the wiring diagram and verify whether or not there is a common connector between the following terminals: • Electric parking brake motor gear unit (RH) terminal A—Electric parking brake control module terminal 1P • Electric parking brake motor gear unit (RH) terminal B—Electric parking brake control module terminal 1M **If there is a common connector:** • Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for an open circuit. • Repair or replace the malfunctioning part. **If there is no common connector:** • Repair or replace the wiring harness which has an open circuit. Go to Step 5.

Sample

Step	Inspection	Results	Action
1	VERIFY OTHER ELECTRIC PARKING BRAKE CONTROL MODULE DTCs • Clear the DTC for the electric parking brake control module using the M-MDS. (See CLEARING DTC [ELECTRIC PARKING BRAKE CONTROL MODULE].) • Retrieve the electric parking brake control module DTCs using the M-MDS. (See DTC INSPECTION [ELECTRIC PARKING BRAKE CONTROL MODULE].) • Are any DTCs other than DTC C2005:19 displayed?	Yes	If a procedure which verifies other DTCs is included in the diagnostic procedure of the displayed DTC: • Go to the next step. If a procedure which verifies other DTCs is not included in the diagnostic procedure of the displayed DTC: • Repair or replace the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [ELECTRIC PARKING BRAKE CONTROL MODULE].)
		No	Go to the next step.
2	INSPECT ELECTRIC PARKING BRAKE MOTOR GEAR UNIT (RH) CONNECTOR CONDITION • Switch the ignition off. • Disconnect the negative battery terminal. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.) • Disconnect the electric parking brake motor gear unit (RH) 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 8.
3	INSPECT ELECTRIC PARKING BRAKE CONTROL MODULE CONNECTOR CONDITION • Disconnect the electric parking brake control module 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 8.
4	INSPECT ELECTRIC PARKING BRAKE MOTOR GEAR UNIT (RH) CIRCUIT FOR SHORT TO GROUND • Verify that the electric parking brake motor gear unit (RH) and electric parking brake control module connectors are disconnected. • Inspect for continuity between the following terminals (wiring harness-side) and body ground: — Electric parking brake motor gear unit (RH) terminal A — Electric parking brake motor gear unit (RH) terminal B • Is there continuity?	Yes	Refer to the wiring diagram and verify whether or not there is a common connector between the following terminals: • Electric parking brake motor gear unit (RH) terminal A—Electric parking brake control module terminal 1P • Electric parking brake motor gear unit (RH) terminal B—Electric parking brake control module terminal 1M If there is a common connector: • Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for a short to ground. • Repair or replace the malfunctioning part. If there is no common connector: • Repair or replace the wiring harness which has a short to ground. Go to Step 8.
		No	Go to the next step.

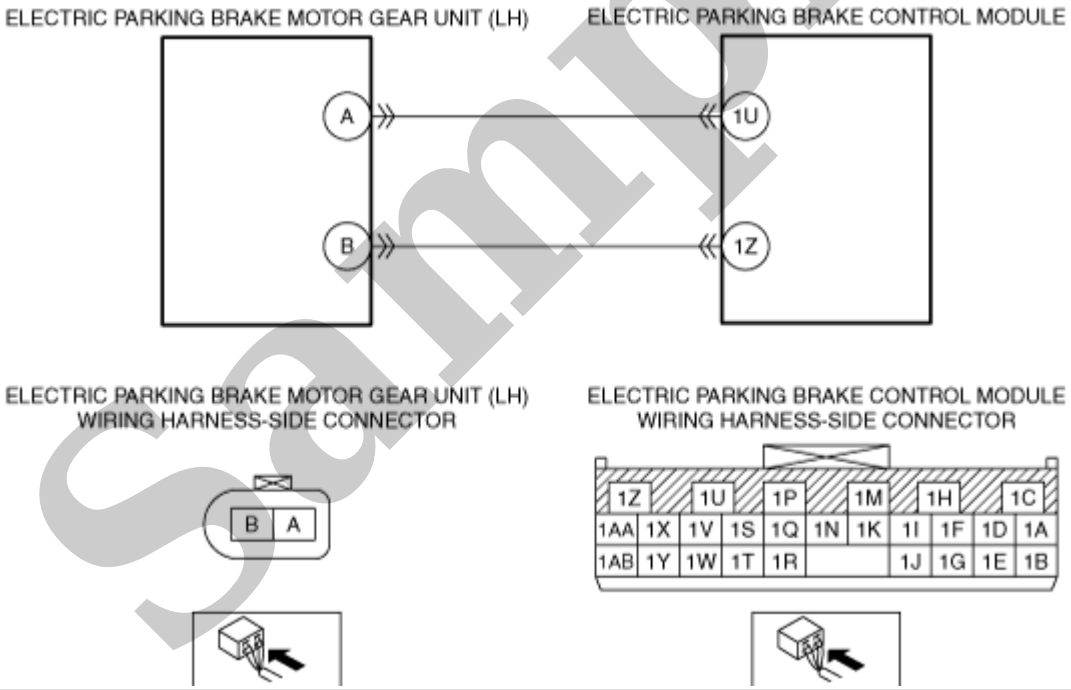
Sample

DTC C2006:11 [ELECTRIC PARKING BRAKE CONTROL MODULE]

SM2898063

id04023425250

Description	**Electric parking brake motor gear unit (LH) circuit malfunction**
Detection condition	• Electric parking brake control module detects a short to ground in the electric parking brake motor gear unit (LH) circuit.
Fail-safe	Not applicable
Possible cause	• Electric parking brake motor gear unit (LH) connector or terminal malfunction • Electric parking brake control module connector or terminal malfunction • Short to ground in wiring harness between the following terminals: — Electric parking brake motor gear unit (LH) terminal A—Electric parking brake control module terminal 1U — Electric parking brake motor gear unit (LH) terminal B—Electric parking brake control module terminal 1Z • Electric parking brake motor gear unit (LH) malfunction • Electric parking brake control module malfunction



Sample

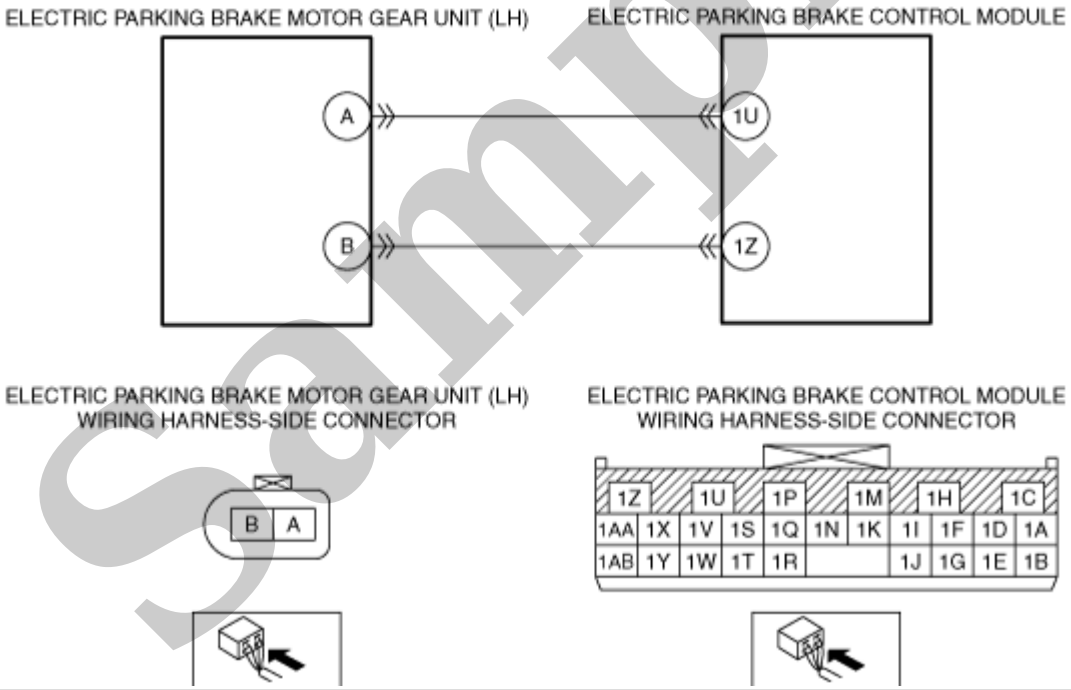
Diagnostic Procedure

DTC C2006:12 [ELECTRIC PARKING BRAKE CONTROL MODULE]

SM2898064

id04023425260

Description	**Electric parking brake motor gear unit (LH) circuit malfunction**
Detection condition	• Electric parking brake control module detects a short to power supply in the electric parking brake motor gear unit (LH) circuit.
Fail-safe	Not applicable
Possible cause	• Electric parking brake motor gear unit (LH) connector or terminal malfunction • Electric parking brake control module connector or terminal malfunction • Short to power supply in wiring harness between the following terminals: — Electric parking brake motor gear unit (LH) terminal A—Electric parking brake control module terminal 1U — Electric parking brake motor gear unit (LH) terminal B—Electric parking brake control module terminal 1Z • Electric parking brake motor gear unit (LH) malfunction • Electric parking brake control module malfunction



Sample

Diagnostic Procedure

Sample

Step	Inspection	Results	Action
4	VERIFY IF MALFUNCTIONING LOCATION IS ELECTRIC PARKING BRAKE MOTOR GEAR UNIT (LH) DEPENDING ON REPEATABILITY • Always reconnect all disconnected connectors. • Connect the negative battery terminal. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.) • Clear the DTC for the electric parking brake control module using the M-MDS. (See CLEARING DTC [ELECTRIC PARKING BRAKE CONTROL MODULE].) • Perform the following procedure 3 times or more. — Pull up the electric parking brake switch to operate the electric parking brake. — Press down the electric parking brake switch to release the electric parking brake. • Retrieve the electric parking brake control module DTCs using the M-MDS. (See DTC INSPECTION [ELECTRIC PARKING BRAKE CONTROL MODULE].) • Is the same DTC displayed?	Yes	Replace the electric parking brake motor gear unit (LH), then go to the next step. (See ELECTRIC PARKING BRAKE MOTOR GEAR UNIT REMOVAL/INSTALLATION.)
		No	Go to Step 6.
5	VERIFY THAT REPAIRS HAVE BEEN COMPLETED • Always reconnect all disconnected connectors. • Connect the negative battery terminal. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.) • Clear the DTC for the electric parking brake control module using the M-MDS. (See CLEARING DTC [ELECTRIC PARKING BRAKE CONTROL MODULE].) • Perform the following procedure 3 times or more. — Pull up the electric parking brake switch to operate the electric parking brake. — Press down the electric parking brake switch to release the electric parking brake. • Retrieve the electric parking brake control module DTCs using the M-MDS. (See DTC INSPECTION [ELECTRIC PARKING BRAKE CONTROL MODULE].) • Is the same DTC displayed?	Yes	Repeat the inspection from Step 1. • If the malfunction recurs, replace the electric parking brake control module. (See ELECTRIC PARKING BRAKE CONTROL MODULE REMOVAL/INSTALLATION.) Go to the next step.
		No	Go to the next step.
6	VERIFY IF OTHER DTCs DISPLAYED • Are any other DTCs displayed?	Yes	Repair or replace the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [ELECTRIC PARKING BRAKE CONTROL MODULE].)
		No	DTC troubleshooting completed.

Sample

Step	Inspection	Results	Action
5	**INSPECT ELECTRIC PARKING BRAKE MOTOR GEAR UNIT (LH) CIRCUIT FOR SHORT TO POWER SUPPLY** • Verify that the electric parking brake motor gear unit (LH) and electric parking brake control module connectors are disconnected. • Connect the negative battery terminal. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.) • Switch the ignition ON (engine off or on). • Measure the voltage at the following terminals (wiring harness-side): — Electric parking brake motor gear unit (LH) terminal A — Electric parking brake motor gear unit (LH) terminal B • Is the voltage 0 V?	Yes	Go to the next step.
		No	Refer to the wiring diagram and verify whether or not there is a common connector between the following terminals: • Electric parking brake motor gear unit (LH) terminal A—Electric parking brake control module terminal 1U • Electric parking brake motor gear unit (LH) terminal B—Electric parking brake control module terminal 1Z **If there is a common connector:** • Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for a short to power supply • Repair or replace the malfunctioning part. **If there is no common connector:** • Repair or replace the wiring harness which has a short to power supply. Go to Step 8.
6	**INSPECT ELECTRIC PARKING BRAKE MOTOR GEAR UNIT (LH) CIRCUITS FOR SHORT CIRCUIT** • Switch the ignition off. • Disconnect the negative battery terminal. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.) • Verify that the electric parking brake motor gear unit (LH) and electric parking brake control module connectors are disconnected. • Inspect for continuity between electric parking brake motor gear unit (LH) terminals A and B (wiring harness-side). • Is there continuity?	Yes	Refer to the wiring diagram and verify whether or not there is a common connector between the following terminals: • Electric parking brake motor gear unit (LH) terminal A—Electric parking brake control module terminal 1U • Electric parking brake motor gear unit (LH) terminal B—Electric parking brake control module terminal 1Z **If there is a common connector:** • Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for a short to each other. • Repair or replace the malfunctioning part. **If there is no common connector:** • Repair or replace the wiring harness which has a short to each other. Go to Step 8.
		No	Go to the next step.

Sample

Fail-safe	• U0001:88 — Not applicable • U0100:00 — Not applicable • U0101:00 — Not applicable • U0121:00 — Not applicable • U0151:00 — Not applicable • U0155:00 — Not applicable
Possible cause	• Malfunction in CAN bus communication line • Malfunction in CAN communication line between PCM and electric parking brake control module • Malfunction in CAN communication line between TCM and electric parking brake control module • Malfunction in CAN communication line between DSC HU/CM and electric parking brake control module • Malfunction in CAN communication line between SAS control module and electric parking brake control module • Malfunction in CAN communication line between instrument cluster and electric parking brake control module
System wiring diagram	Not applicable

Diagnostic Procedure

• Perform the malfunction diagnosis according to the troubleshooting procedure for the multiplex communication system. (See CONTROLLER AREA NETWORK (CAN) MALFUNCTION DIAGNOSIS FLOW [TYPE-A (SKYACTIV-G 2.5)].) (See CONTROLLER AREA NETWORK (CAN) MALFUNCTION DIAGNOSIS FLOW [TYPE-A (SKYACTIV-G 2.5T, SKYACTIV-D 2.2)].) (See CONTROLLER AREA NETWORK (CAN) MALFUNCTION DIAGNOSIS FLOW [TYPE-B].)

Sample