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2012 MAZDA 2 / Demio - sedan OEM Service and Repair Workshop Manual

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DTC U0401:68 [ELECTRIC PARKING BRAKE CONTROL MODULE]

SM2898071

id04023425350

Description	Error signal received from PCM
Detection condition	• Electric parking brake control module receives the error signals from the PCM with the ignition switched ON (engine off or on).
Fail-safe	Not applicable
Possible cause	• DTCs are stored in the PCM. • PCM malfunction • Electric parking brake control module malfunction
System wiring diagram	Not applicable

Diagnostic Procedure

Step	Inspection	Results	Action
1	VERIFY PCM DTCs • Retrieve the PCM DTCs using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [PCM (SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION))] .) (See ON-BOARD DIAGNOSTIC TEST [PCM (SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION))] .) (See ON-BOARD DIAGNOSTIC TEST [PCM (SKYACTIV-D 2.2)] .) (See ON-BOARD DIAGNOSTIC TEST [PCM (SKYACTIV-G 2.5T)] .) • Are any DTCs displayed?	Yes	Repair or replace the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [PCM (SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION))] .) (See DTC TABLE [PCM (SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION))] .) (See DTC TABLE [PCM (SKYACTIV-D 2.2)] .) (See DTC TABLE [PCM (SKYACTIV-G 2.5T)] .)
		No	Go to the next step.
2	VERIFY IF MALFUNCTIONING LOCATION IS PCM DEPENDING ON REPEATABILITY • 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 PCM, then go to the next step. (See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)] .) (See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION)] .) (See PCM REMOVAL/INSTALLATION [SKYACTIV-D 2.2] .) (See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.5T] .)
		No	Go to Step 4.

Step	Inspection	Results	Action
3	VERIFY THAT REPAIRS HAVE BEEN COMPLETED • 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 control module, then go to the next step. (See ELECTRIC PARKING BRAKE CONTROL MODULE REMOVAL/INSTALLATION.)
		No	Go to the next step.
4	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.

DTC U0402:00 [ELECTRIC PARKING BRAKE CONTROL MODULE]

SM2898074

id04023425380

Description	Error signal received from TCM
Detection condition	• Electric parking brake control module receives the error signals from the TCM with the ignition switched ON (engine off or on).
Fail-safe	Not applicable
Possible cause	• DTCs are stored in the TCM. • TCM malfunction • Electric parking brake control module malfunction
System wiring diagram	Not applicable

Diagnostic Procedure

Step	Inspection	Results	Action
1	VERIFY TCM DTCs • Retrieve the TCM DTCs using the M-MDS. (See ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [TCM (FW6A-EL, FW6AX-EL)] .) (See ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [TCM (GW6A-EL, GW6AX-EL)] .) • Are any DTCs displayed?	Yes	Repair or replace the malfunctioning part according to the applicable DTC troubleshooting. (See ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE [TCM (FW6A-EL, FW6AX-EL)] .) (See ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE [TCM (GW6A-EL, GW6AX-EL)] .)
		No	Go to the next step.
2	VERIFY IF MALFUNCTIONING LOCATION IS TCM DEPENDING ON REPEATABILITY • 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 TCM, then go to the next step. (See CONTROL VALVE BODY REMOVAL/INSTALLATION [FW6A-EL, FW6AX-EL] .) (See CONTROL VALVE BODY REMOVAL/INSTALLATION [GW6A-EL, GW6AX-EL] .)
		No	Go to Step 4.

Step	Inspection	Results	Action
4	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

DTC U0415:82 [ELECTRIC PARKING BRAKE CONTROL MODULE]

SM2898077

id04023425410

Description	Error signal received from DSC HU/CM
Detection condition	• Electric parking brake control module receives the error signals from the DSC HU/CM with the ignition switched ON (engine off or on).
Fail-safe	Not applicable
Possible cause	• DTCs are stored in the DSC HU/CM. • DSC HU/CM malfunction • Electric parking brake control module malfunction
System wiring diagram	Not applicable

Diagnostic Procedure

Step	Inspection	Results	Action
1	VERIFY DSC HU/CM DTCs • Retrieve the DSC HU/CM DTCs using the M-MDS. (See DTC INSPECTION [DSC HU/CM].) • Are any DTCs displayed?	Yes	Repair or replace the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [DSC HU/CM].)
		No	Go to the next step.
2	VERIFY IF MALFUNCTIONING LOCATION IS DSC HU/CM DEPENDING ON REPEATABILITY • 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 DSC HU/CM, then go to the next step. (See DSC HU/CM REMOVAL/INSTALLATION [SKYACTIV-C 2.5 (WITHOUT CYLINDER DEACTIVATION)].) (See DSC HU/CM REMOVAL/INSTALLATION [SKYACTIV-C 2.5 (WITH CYLINDER DEACTIVATION)].) (See DSC HU/CM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].) (See DSC HU/CM REMOVAL/INSTALLATION [SKYACTIV-C 2.5T].)
		No	Go to Step 4.
3	VERIFY THAT REPAIRS HAVE BEEN COMPLETED • 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 control module, then go to the next step. (See ELECTRIC PARKING BRAKE CONTROL MODULE REMOVAL/INSTALLATION.)
		No	Go to the next step.

Step	Inspection	Results	Action
4	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

DTC U0423:68 [ELECTRIC PARKING BRAKE CONTROL MODULE]

SM2898080

id04023425440

Description	Error signal received from instrument cluster
Detection condition	• Electric parking brake control module receives the error signals from the instrument cluster with the ignition switched ON (engine off or on).
Fail-safe	Not applicable
Possible cause	• DTCs are stored in the instrument cluster. • Instrument cluster malfunction • Electric parking brake control module malfunction
System wiring diagram	Not applicable

Diagnostic Procedure

Step	Inspection	Results	Action
1	VERIFY INSTRUMENT CLUSTER DTCs • Retrieve the instrument cluster DTCs using the M-MDS. (See DTC INSPECTION [INSTRUMENT CLUSTER] .) • Are any DTCs displayed?	Yes	Repair or replace the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [INSTRUMENT CLUSTER] .)
		No	Go to the next step.
2	VERIFY IF MALFUNCTIONING LOCATION IS INSTRUMENT CLUSTER DEPENDING ON REPEATABILITY • 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 instrument cluster, then go to the next step. (See INSTRUMENT CLUSTER REMOVAL/INSTALLATION .)
		No	Go to Step 4.

Step	Inspection	Results	Action
3	VERIFY THAT REPAIRS HAVE BEEN COMPLETED • 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 control module, then go to the next step. (See ELECTRIC PARKING BRAKE CONTROL MODULE REMOVAL/INSTALLATION.)
		No	Go to the next step.
4	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.

Step	Inspection	Results	Action
2	RESET CONFIGURATION DATA FROM INSTRUMENT CLUSTER TO ELECTRIC PARKING BRAKE CONTROL MODULE - Using the M-MDS, perform the instrument cluster configuration (using As-Built data). (See INSTRUMENT CLUSTER CONFIGURATION (USING AS-BUILT DATA).) - 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. - Switch the ignition ON (engine off or on) and wait for 30 s or more. - 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	Using the M-MDS, perform the instrument cluster configuration (using As-Built data) again, then go to the next step. (See INSTRUMENT CLUSTER CONFIGURATION (USING AS-BUILT DATA) .)
		No	Go to Step 4.
3	VERIFY THAT REPAIRS HAVE BEEN COMPLETED - 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. - Switch the ignition ON (engine off or on) and wait for 30 s or more. - 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 control module, then go to the next step. (See ELECTRIC PARKING BRAKE CONTROL MODULE REMOVAL/INSTALLATION .)
		No	Go to the next step.
4	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.