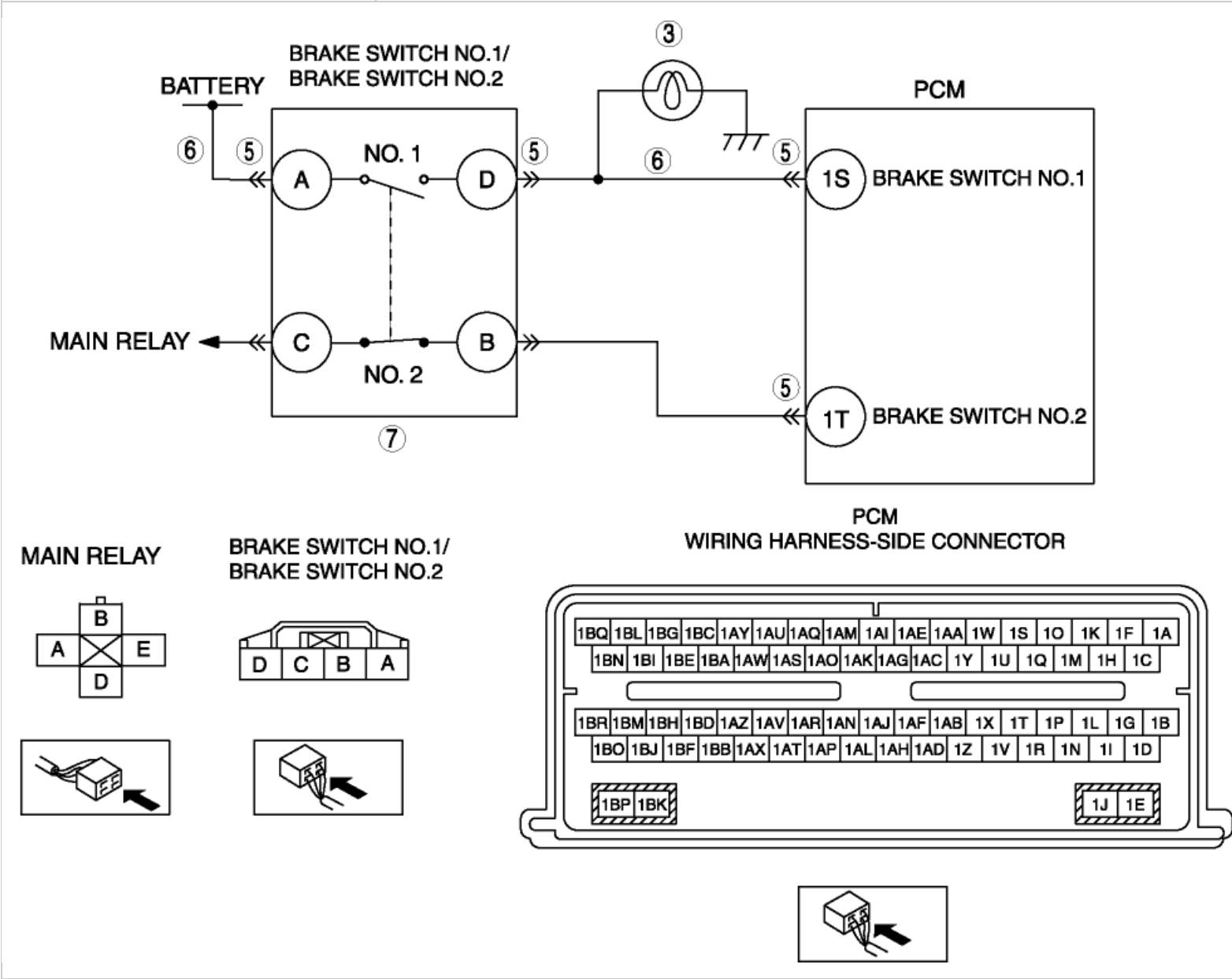


2012 - Mazda6 - Engine

DTC P0572:00 [MZI 3.7 V6]

DTC P0572:00	Brake switch No.1 circuit low
DETECTION CONDITION	This DTC indicates the brake switch is stuck.
POSSIBLE CAUSE	- Brake switch No.1 mis installation - Connector or terminal malfunction - Brake switch No.1 circuit malfunction - Brake switch No.1 malfunction



Diagnostic procedure

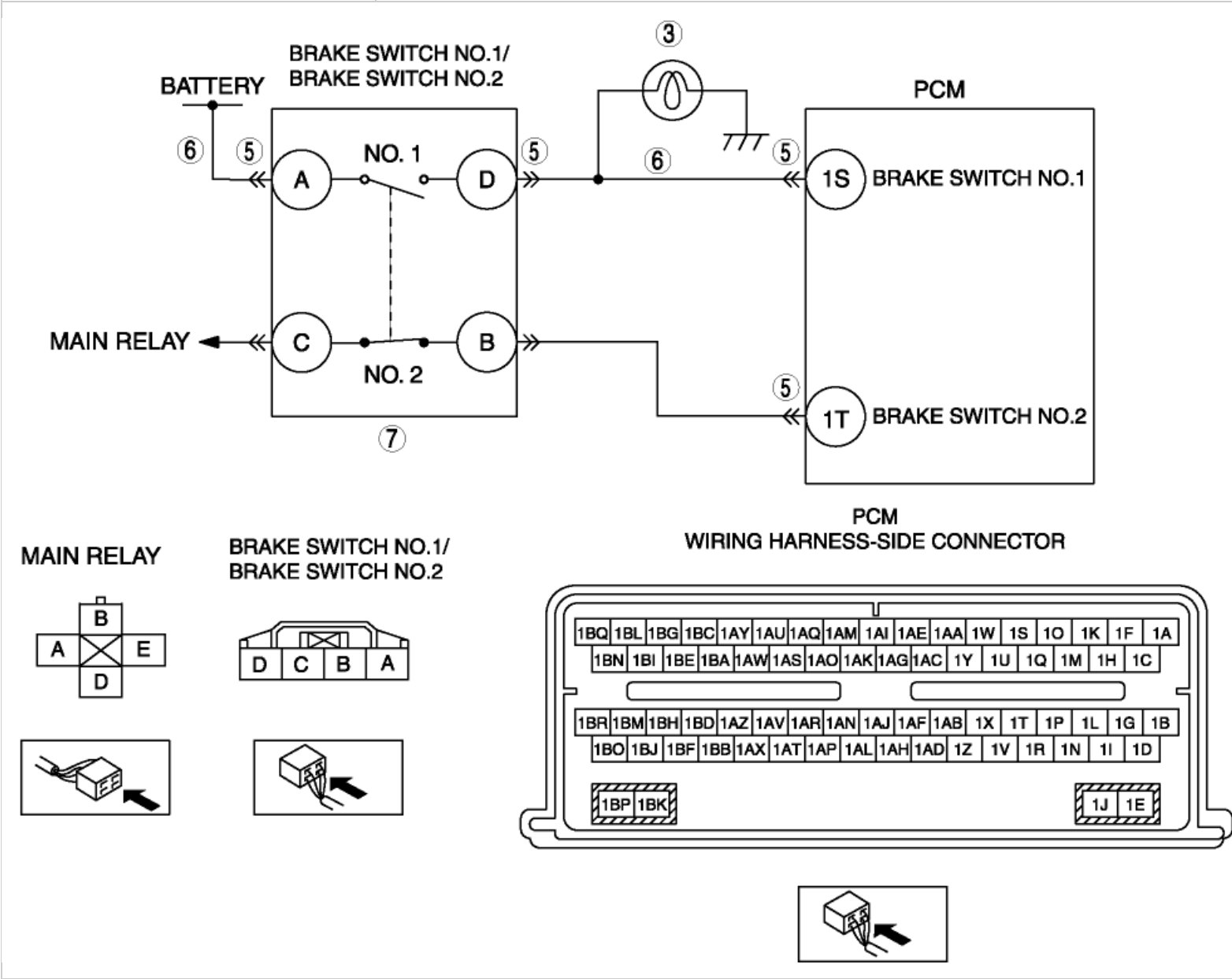
STEP	INSPECTION	ACTION
1	VERIFY FREEZE FRAME DATA HAS BEEN RECORDED Has FREEZE FRAME DATA been recorded?	YesGo to the next step.
		NoRecord FREEZE FRAME DATA on the repair order, then go to the next step.
2	VERIFY RELATED REPAIR INFORMATION AVAILABILITY - Verify related Service Bulletins availability. - Is any related Service Bulletins available?	YesPerform repair or diagnosis according to available Service Bulletins. If vehicle is not repaired, go to the next step.
		NoGo to the next step.
3	INSPECT THE OPERATION OF THE BLAKE LIGHT - Switch the ignition to ON (Engine off). - Depress and release the brake pedal and check the blake light operation. - Do the blake light operate correctly?	YesGo to the next step.
		NoRepair or replace suspected part, then go to Step 9.
4	INSPECT THE CRUISE CONTROL OPERATION - Check for cruise control operation. - Does the cruise control operate correctly?	YesGo to the next step.
		NoRepair or replace suspected part, then go to Step 9.
5	INSPECT BRAKE SWITCH AND PCM CONNECTOR FOR POOR CONNECTION - Switch the ignition to off. - Disconnect the brake switch and the PCM connector. - Inspect for poor connection (such as damaged/ pulled-out pins, corrosion). - Are there any malfunction?	YesRepair or replace suspected part, then go to Step 9.
		NoGo to the next step.
6	INSPECT BRAKE SWITCH NO.1 CIRCUIT MALFUNCTION - Switch the ignition to ON (Engine off). - Measure the voltage between PCM terminal 1S (wiring harness-side) and body ground. - Verify the following values when the brake pedal to the floor and releasing. - Brake pedal fully depressed: more than 10 V - Brake pedal fully released: less than 1.0 V - Is the voltage normal?	YesGo to the next step.
		NoRepair or replace suspected part, then go to Step 9.
7	INSPECT BRAKE SWITCH - Inspect the brake switch. (See BRAKE SWITCH INSPECTION.) - Is there any malfunction?	YesRepair or replace suspected part, then go to Step 9.
		NoGo to the next step.

8	INSPECT FOR CORRECT PCM OPERATION • Disconnect all the PCM connectors. • Visually inspect for: ▪ Pushed out pins ▪ Corrosion • Connect all the PCM connectors and verify that they seat correctly. • Retrieve DTCs using the M-MDS. • Is the PENDING CODE for this DTC present?	Yes	Go to the next step.
		No	The system is correctly. Go to the next step.
9	VERIFY TROUBLESHOOTING OF DTC P0572:00 HAS BEEN COMPLETED • Verify that all disconnected connectors reconnected. • Clear the DTC from the PCM memory using the M-MDS. • Depress and release the brake pedal. • Retrieve DTCs using the M-MDS. • Is the PENDING CODE for this DTC present?	Yes	Repeat the inspection from Step 1. • If the malfunction recurs, replace the PCM. (See PCM REMOVAL/ INSTALLATION [MZI 3.7 V6] .) Go to the next step.
		No	Go to the next step.
10	VERIFY AFTER REPAIR PROCEDURE • Perform the "AFTER REPAIR PROCEDURE". (See AFTER REPAIR PROCEDURE [MZI 3.7 V6] .) • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See DTC TABLE [MZI 3.7 V6] .)
		No	Troubleshooting completed.

2012 - Mazda6 - Engine

DTC P0572:00 [MZI 3.7 V6]

DTC P0572:00	Brake switch No.1 circuit low
DETECTION CONDITION	This DTC indicates the brake switch is stuck.
POSSIBLE CAUSE	- Brake switch No.1 mis installation - Connector or terminal malfunction - Brake switch No.1 circuit malfunction - Brake switch No.1 malfunction



Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY FREEZE FRAME DATA HAS BEEN RECORDED Has FREEZE FRAME DATA been recorded?	YesGo to the next step.
		NoRecord FREEZE FRAME DATA on the repair order, then go to the next step.
2	VERIFY RELATED REPAIR INFORMATION AVAILABILITY - Verify related Service Bulletins availability. - Is any related Service Bulletins available?	YesPerform repair or diagnosis according to available Service Bulletins. If vehicle is not repaired, go to the next step.
		NoGo to the next step.
3	INSPECT THE OPERATION OF THE BLAKE LIGHT - Switch the ignition to ON (Engine off). - Depress and release the brake pedal and check the blake light operation. - Do the blake light operate correctly?	YesGo to the next step.
		NoRepair or replace suspected part, then go to Step 9.
4	INSPECT THE CRUISE CONTROL OPERATION - Check for cruise control operation. - Does the cruise control operate correctly?	YesGo to the next step.
		NoRepair or replace suspected part, then go to Step 9.
5	INSPECT BRAKE SWITCH AND PCM CONNECTOR FOR POOR CONNECTION - Switch the ignition to off. - Disconnect the brake switch and the PCM connector. - Inspect for poor connection (such as damaged/ pulled-out pins, corrosion). - Are there any malfunction?	YesRepair or replace suspected part, then go to Step 9.
		NoGo to the next step.
6	INSPECT BRAKE SWITCH NO.1 CIRCUIT MALFUNCTION - Switch the ignition to ON (Engine off). - Measure the voltage between PCM terminal 1S (wiring harness-side) and body ground. - Verify the following values when the brake pedal to the floor and releasing. - Brake pedal fully depressed: more than 10 V - Brake pedal fully released: less than 1.0 V - Is the voltage normal?	YesGo to the next step.
		NoRepair or replace suspected part, then go to Step 9.
7	INSPECT BRAKE SWITCH - Inspect the brake switch. (See BRAKE SWITCH INSPECTION.) - Is there any malfunction?	YesRepair or replace suspected part, then go to Step 9.
		NoGo to the next step.

8	INSPECT FOR CORRECT PCM OPERATION • Disconnect all the PCM connectors. • Visually inspect for: ▪ Pushed out pins ▪ Corrosion • Connect all the PCM connectors and verify that they seat correctly. • Retrieve DTCs using the M-MDS. • Is the PENDING CODE for this DTC present?	Yes	Go to the next step.
		No	The system is correctly. Go to the next step.
9	VERIFY TROUBLESHOOTING OF DTC P0572:00 HAS BEEN COMPLETED • Verify that all disconnected connectors reconnected. • Clear the DTC from the PCM memory using the M-MDS. • Depress and release the brake pedal. • Retrieve DTCs using the M-MDS. • Is the PENDING CODE for this DTC present?	Yes	Repeat the inspection from Step 1. • If the malfunction recurs, replace the PCM. (See PCM REMOVAL/ INSTALLATION [MZI 3.7 V6] .) Go to the next step.
		No	Go to the next step.
10	VERIFY AFTER REPAIR PROCEDURE • Perform the "AFTER REPAIR PROCEDURE". (See AFTER REPAIR PROCEDURE [MZI 3.7 V6] .) • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See DTC TABLE [MZI 3.7 V6] .)
		No	Troubleshooting completed.