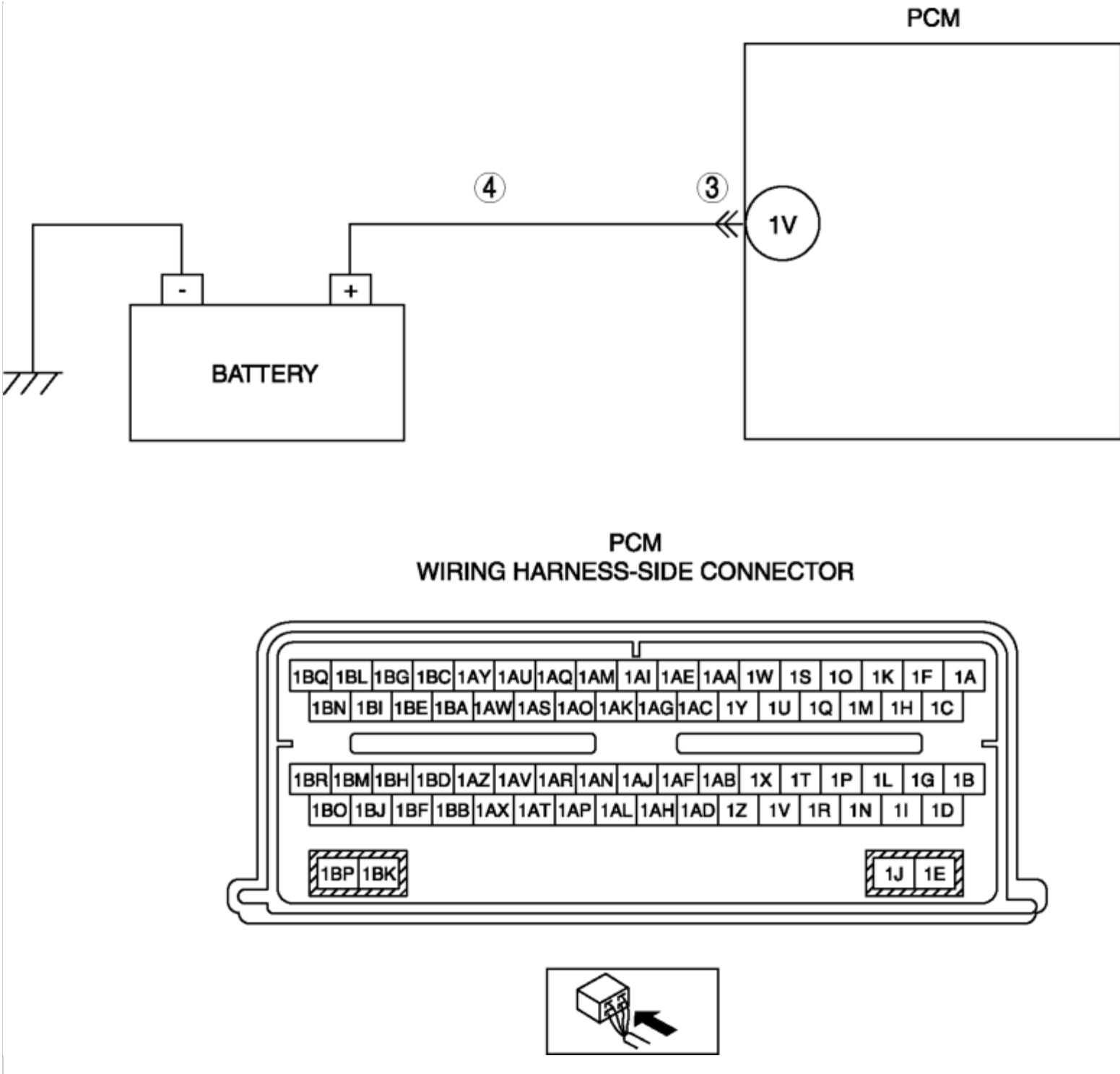


2012 - Mazda6 - Engine

DTC P1633:00 [MZI 3.7 V6]

DTC P1633:00	Keep alive power voltage too low
DETECTION CONDITION	Indicates the keep alive power circuit has experienced a voltage interrupt.
POSSIBLE CAUSE	- Connector or terminal malfunction - Open circuit between battery positive terminal and PCM terminal 1V



Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY FREEZE FRAME DATA HAS BEEN RECORDED Has FREEZE FRAME DATA been recorded?	Yes Go to the next step.
		No Record FREEZE FRAME DATA on the repair order, then go to the next step.

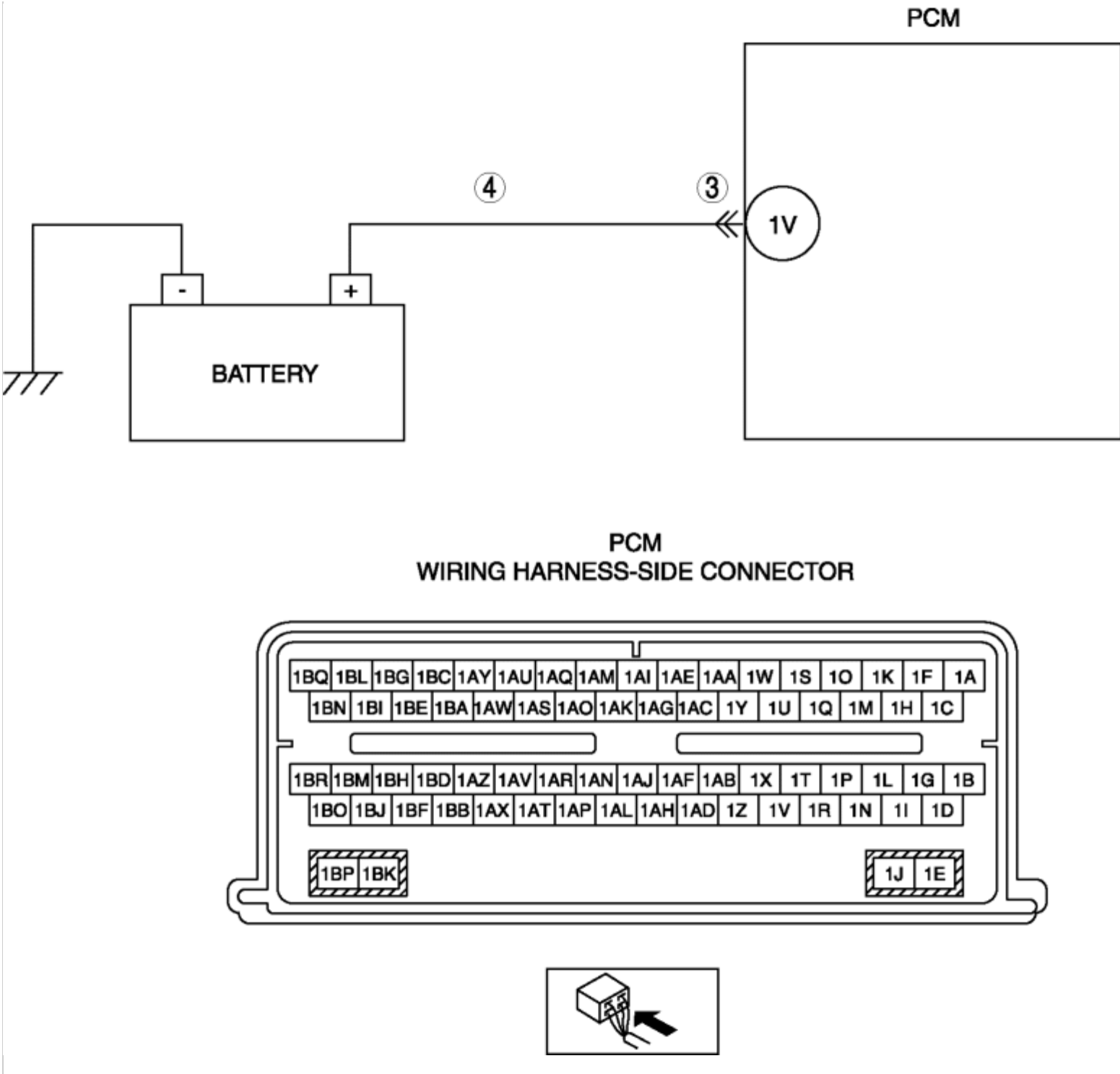
2	VERIFY RELATED REPAIR INFORMATION AVAILABILITY • Verify related Service Bulletins and/or on-line repair information availability. • Is any related Service Bulletins available?	Yes	Perform repair or diagnosis according to the available Service Bulletins. • If the vehicle is not repaired, go to the next step.
		No	Go to the next step.
3	INSPECT BATTERY TERMINAL AND PCM CONNECTOR FOR POOR CONNECTION • Switch the ignition off. • Disconnect battery terminal and PCM connector. • Inspect for poor connection (such as damaged/ pulled-out pins, corrosion). • Is there any malfunction?	Yes	Repair or replace suspected part, then go to Step 5.
		No	Go to the next step.
4	INSPECT KEEP ALIVE POWER CIRCUIT FOR OPEN CIRCUIT • Switch the ignition off. • Disconnect battery cables. • Disconnect PCM connector. • Check continuity between battery positive terminal (wiring harness-side) and PCM terminal 1V (wiring harness-side). • Is there continuity?	Yes	Go to the next step.
		No	Repair or replace suspected part, then go to the next step.
5	VERIFY TROUBLESHOOTING OF DTC P1633:00 HAS BEEN COMPLETED • Make sure to reconnect all disconnected connectors. • Clear the DTC from the PCM memory using the M-MDS. • Start the engine. • Is the same 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.
6	VERIFY AFTER REPAIR PROCEDURE • Perform the "AFTER REPAIR PROCEDURE".	Yes	Go to the applicable DTC inspection. (See DTC TABLE [MZI 3.7 V6] .)

	(See AFTER REPAIR PROCEDURE [MZI 3.7 V6] .) • Are any DTCs present?	No	Troubleshooting completed.
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2012 - Mazda6 - Engine

DTC P1633:00 [MZI 3.7 V6]

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		No Record FREEZE FRAME DATA on the repair order, then go to the next step.

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		No	Go to the next step.
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		No	Repair or replace suspected part, then go to the next step.
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		No	Go to the next step.
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	(See AFTER REPAIR PROCEDURE [MZI 3.7 V6] .) • Are any DTCs present?	No	Troubleshooting completed.
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