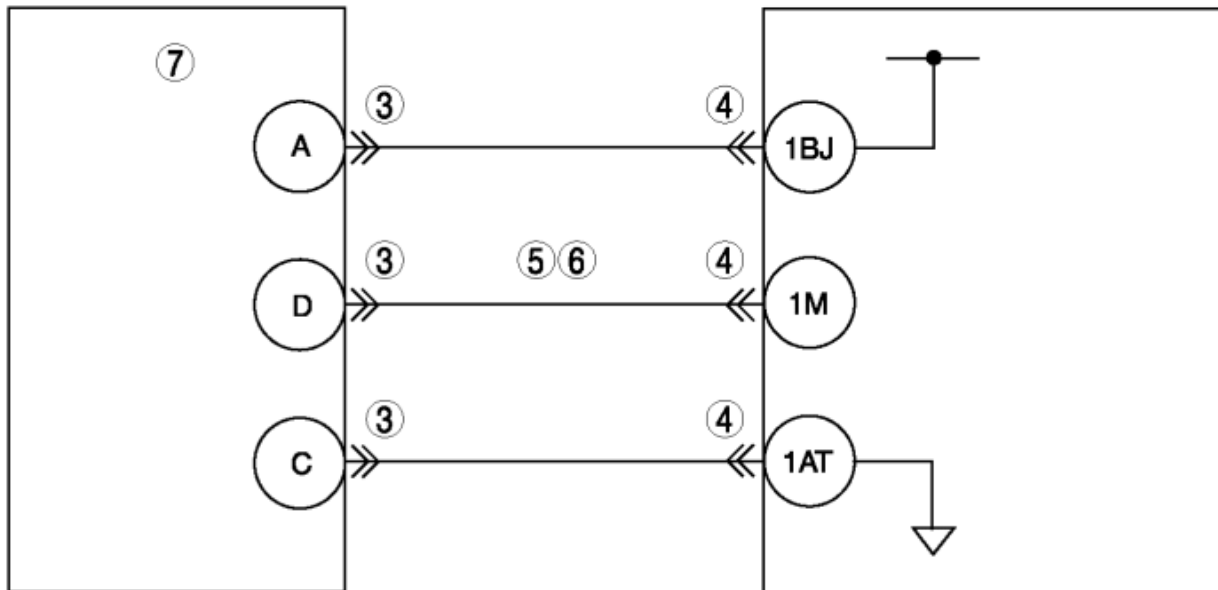


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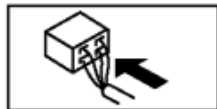
DTC P0533:00 [MZI 3.7 V6]

DTC P0533:00	Refrigerant pressure sensor circuit high input
DETECTION CONDITION	• A DTC is stored if the refrigerant pressure sensor output voltage is above the calibrated level.
POSSIBLE CAUSE	• Connector or terminal malfunction • Short to power supply circuit between refrigerant pressure sensor terminal D and PCM terminal 1M • Open circuit between refrigerant pressure sensor terminal D and PCM terminal 1M • Refrigerant pressure sensor malfunction

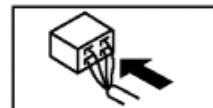
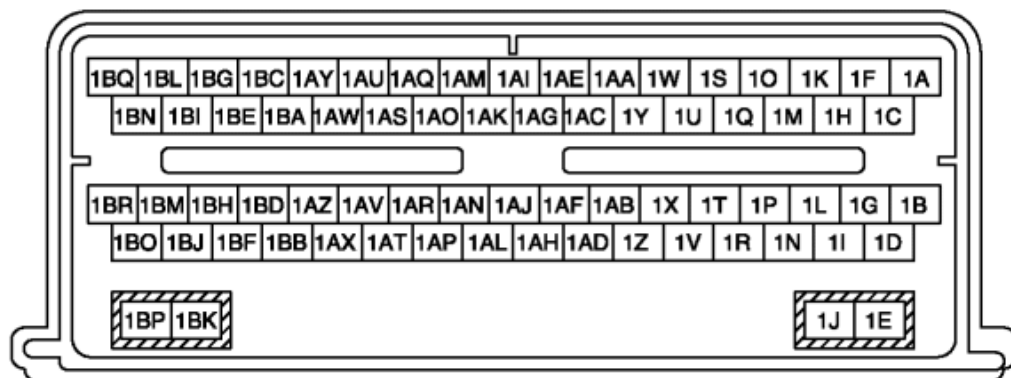
REFRIGERANT PRESSURE SENSOR



REFRIGERANT PRESSURE SENSOR WIRING HARNESS-SIDE CONNECTOR



PCM WIRING HARNESS-SIDE CONNECTOR



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 REFRIGERANT PRESSURE SENSOR CONNECTOR FOR POOR CONNECTION - Switch the ignition to off. - Disconnect the refrigerant pressure sensor connector. - Inspect for poor connection (such as damaged/pulled-out pins, corrosion). - Are there any malfunction?	Yes	Repair or replace suspected part, then go to Step 8.
		No	Go to the next step.
4	INSPECT PCM CONNECTOR FOR POOR CONNECTION - Switch the ignition to off. - Disconnect the PCM connector. - Inspect for poor connection (such as damaged/pulled-out pins, corrosion). - Are there any malfunction?	Yes	Repair or replace suspected part, then go to Step 8.
		No	Go to the next step.
5	INSPECT REFRIGERANT PRESSURE SENSOR CIRCUIT FOR SHORT TO POWER SUPPLY - Switch the ignition to ON (Engine off). - Measure the voltage between refrigerant pressure sensor terminal D (wiring harness-side) and body ground. - Is the voltage B+?	Yes	Repair or replace suspected part, then go to Step 8.
		No	Go to the next step.
6	INSPECT REFRIGERANT PRESSURE SENSOR CIRCUIT FOR OPEN CIRCUIT - Switch the ignition to off. - Inspect for continuity between refrigerant pressure sensor terminal D (wiring harness-side) and PCM terminal 1M (wiring harness-side). - Is there continuity?	Yes	Go to the next step.
		No	Repair or replace suspected part, then go to Step 8.
7	INSPECT REFRIGERANT PRESSURE SENSOR - Inspect the refrigerant pressure sensor. (See REFRIGERANT PRESSURE SENSOR INSPECTION [FULL-AUTO AIR CONDITIONER].) (See REFRIGERANT PRESSURE SENSOR INSPECTION [MANUAL AIR CONDITIONER].) - Is there any malfunction?	Yes	Replace the refrigerant pressure sensor, then go to the next step.
		No	Go to the next step.
8	VERIFY TROUBLESHOOTING OF DTC P0533:00 HAS BEEN COMPLETED Make sure to reconnect all disconnected connectors.	Yes	Repeat the inspection from Step 1. If the malfunction recurs, replace the PCM.

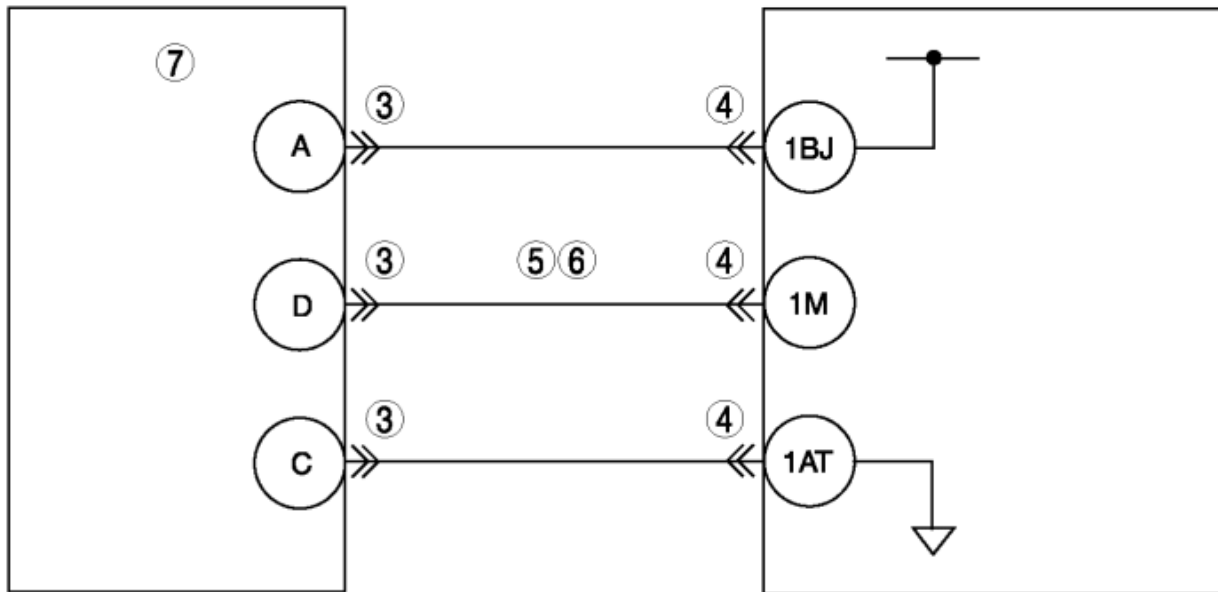
	• Clear the DTC from the PCM memory using the M-MDS. • Start the engine and warm it up completely. • Turn the A/C switch and the fan switch on. • Retrieve DTCs using the M-MDS. • Is the PENDING CODE for this DTC present?		(See PCM REMOVAL/ INSTALLATION [MZI 3.7 V6] .) Go to the next step.
		No	Go to the next step.
9	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.

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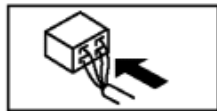
DTC P0533:00 [MZI 3.7 V6]

DTC P0533:00	Refrigerant pressure sensor circuit high input
DETECTION CONDITION	A DTC is stored if the refrigerant pressure sensor output voltage is above the calibrated level.
POSSIBLE CAUSE	- Connector or terminal malfunction - Short to power supply circuit between refrigerant pressure sensor terminal D and PCM terminal 1M - Open circuit between refrigerant pressure sensor terminal D and PCM terminal 1M - Refrigerant pressure sensor malfunction

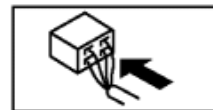
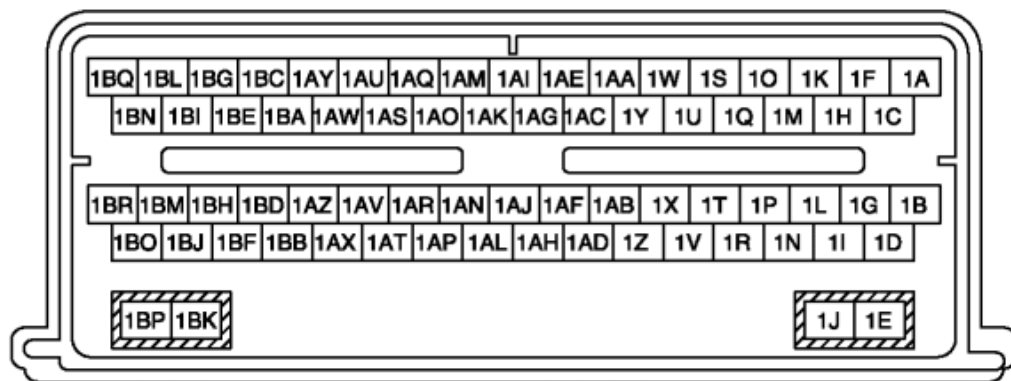
REFRIGERANT PRESSURE SENSOR



REFRIGERANT PRESSURE SENSOR WIRING HARNESS-SIDE CONNECTOR



PCM WIRING HARNESS-SIDE CONNECTOR



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 REFRIGERANT PRESSURE SENSOR CONNECTOR FOR POOR CONNECTION - Switch the ignition to off. - Disconnect the refrigerant pressure sensor connector. - Inspect for poor connection (such as damaged/pulled-out pins, corrosion). - Are there any malfunction?	Yes	Repair or replace suspected part, then go to Step 8.
		No	Go to the next step.
4	INSPECT PCM CONNECTOR FOR POOR CONNECTION - Switch the ignition to off. - Disconnect the PCM connector. - Inspect for poor connection (such as damaged/pulled-out pins, corrosion). - Are there any malfunction?	Yes	Repair or replace suspected part, then go to Step 8.
		No	Go to the next step.
5	INSPECT REFRIGERANT PRESSURE SENSOR CIRCUIT FOR SHORT TO POWER SUPPLY - Switch the ignition to ON (Engine off). - Measure the voltage between refrigerant pressure sensor terminal D (wiring harness-side) and body ground. - Is the voltage B+?	Yes	Repair or replace suspected part, then go to Step 8.
		No	Go to the next step.
6	INSPECT REFRIGERANT PRESSURE SENSOR CIRCUIT FOR OPEN CIRCUIT - Switch the ignition to off. - Inspect for continuity between refrigerant pressure sensor terminal D (wiring harness-side) and PCM terminal 1M (wiring harness-side). - Is there continuity?	Yes	Go to the next step.
		No	Repair or replace suspected part, then go to Step 8.
7	INSPECT REFRIGERANT PRESSURE SENSOR - Inspect the refrigerant pressure sensor. (See REFRIGERANT PRESSURE SENSOR INSPECTION [FULL-AUTO AIR CONDITIONER].) (See REFRIGERANT PRESSURE SENSOR INSPECTION [MANUAL AIR CONDITIONER].) - Is there any malfunction?	Yes	Replace the refrigerant pressure sensor, then go to the next step.
		No	Go to the next step.
8	VERIFY TROUBLESHOOTING OF DTC P0533:00 HAS BEEN COMPLETED Make sure to reconnect all disconnected connectors.	Yes	Repeat the inspection from Step 1. If the malfunction recurs, replace the PCM.

	• Clear the DTC from the PCM memory using the M-MDS. • Start the engine and warm it up completely. • Turn the A/C switch and the fan switch on. • Retrieve DTCs using the M-MDS. • Is the PENDING CODE for this DTC present?		(See PCM REMOVAL/ INSTALLATION [MZI 3.7 V6] .) Go to the next step.
		No	Go to the next step.
9	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.