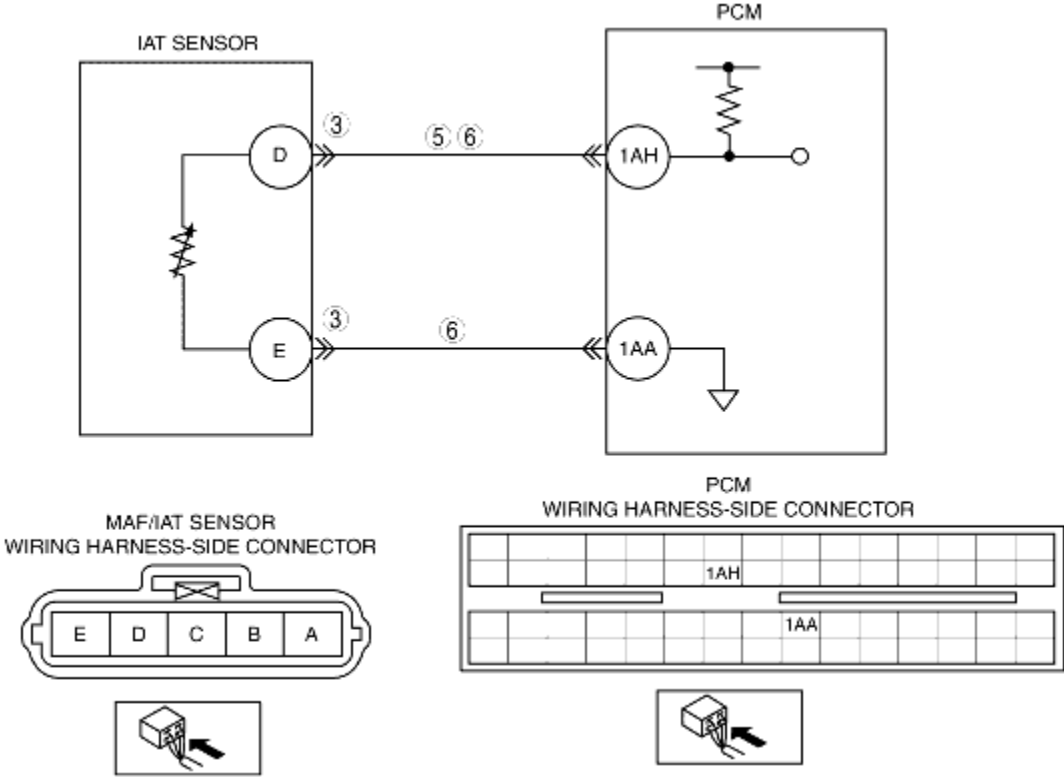


DTC P0112 [LF]

B3E010201084W11

DTC P0112	IAT sensor circuit low input
DETECTION CONDITION	<ul style="list-style-type: none"> The PCM monitors the IAT sensor signal at PCM terminal 1AH. If the PCM detects the IAT sensor voltage below 0.16 V, the PCM determines that the IAT sensor circuit has malfunction. Diagnostic support note This is a continuous monitor (CCM). The MIL illuminates if the PCM detects the above malfunction condition during first drive cycle. PENDING CODE is available if the PCM detects the above malfunction condition. FREEZE FRAME DATA is available. DTC is stored in the PCM memory.
POSSIBLE CAUSE	<ul style="list-style-type: none"> IAT sensor malfunction Short to ground in wiring harness between MAF/IAT sensor terminal D and PCM terminal 1AH Short each wiring harness IAT signal circuit and IAT ground circuit PCM malfunction
	

Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY FREEZE FRAME DATA HAS BEEN RECORDED <ul style="list-style-type: none"> Has FREEZE FRAME DATA been recorded? 	Yes Go to the next step.
		No Record the FREEZE FRAME DATA on the repair order, then go to the next step.
2	VERIFY RELATED REPAIR INFORMATION AVAILABILITY <ul style="list-style-type: none"> Verify related service repair information 	Yes Perform repair or diagnosis according to the available repair information. • If the vehicle is not repaired, go to the next

	availability. • Is any related repair information available?		step.
		No	Go to the next step.
3	INSPECT IAT SENSOR TERMINAL • Turn the ignition switch off. • Disconnect the MAF/IAT sensor connector. • Inspect for bent terminal of MAF/IAT sensor terminals D and E (part-side). • Is there any malfunction?	Yes	Repair or replace the terminal, then go to Step 7.
		No	Go to the next step.
4	CLASSIFY IAT SENSOR MALFUNCTION OR WIRING HARNESS MALFUNCTION • Connect the WDS or equivalent to DLC-2. • Access IAT PID. • Verify IAT value when disconnecting the MAF/IAT sensor connector. • Does IAT value change?	Yes	Replace the MAF/IAT sensor, then go to Step 7.
		No	Go to the next step.
5	INSPECT IAT SIGNAL CIRCUIT FOR SHORT TO GROUND • Turn the ignition switch off. • Disconnect the PCM connector. • Inspect for continuity between MAF/IAT sensor terminal D (wiring harness-side) and body ground. • Is there continuity?	Yes	Repair or replace the wiring harness for short to ground, then go to Step 7.
		No	Go to the next step.
6	INSPECT IAT CIRCUITS FOR SHORT • Inspect for continuity between MAF/IAT sensor terminals D and E (wiring harness-side). • Is there continuity?	Yes	Repair or replace the wiring harness for short, then go to Step 7.
		No	Go to the next step.
7	VERIFY TROUBLESHOOTING OF DTC P0112 COMPLETED • Make sure to reconnect all disconnected connectors. • Clear the DTC from the PCM memory using the WDS or equivalent. • Start the engine. • Is same DTC present?	Yes	Replace the PCM, then go to the next step. (See PCM REMOVAL/INSTALLATION [LF] .)
		No	Go to the next step.
8	VERIFY AFTER REPAIR PROCEDURE • Perform the "After Repair Procedure". (See AFTER REPAIR PROCEDURE [LF] .) • Are any DTC present?	Yes	Go to the applicable DTC troubleshooting. (See DTC TABLE [LF] .)
		No	Troubleshooting completed.