

DTC P0480 [ZJ, Z6]

B3E010200400W04

DTC P0480	Cooling fan control circuit problem
DETECTION CONDITION	<ul style="list-style-type: none"> The PCM monitors input voltage from the fan control module. If the voltage at PCM terminal 1AP remains low or high, the PCM determines that there is a cooling fan control circuit problem. Diagnostic support note <ul style="list-style-type: none"> This is a continuous monitor (Other). The MIL does not illuminate. FREEZE FRAME DATA is not available. The DTC is stored in the PCM memory.
POSSIBLE CAUSE	<ul style="list-style-type: none"> Fan control module malfunction Connector or terminal malfunction Open circuit in wiring harness between fan control module terminal C and PCM terminal 1AP Short to power supply in wiring harness between fan control module terminal C and PCM terminal 1AP Short to GND in wiring harness between fan control module terminal C and PCM terminal 1AP PCM malfunction

Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY FREEZE FRAME DATA HAS BEEN RECORDED	Yes Go to the next step.
		No Record the FREEZE FRAME DATA on the

	• Has FREEZE FRAME DATA been recorded?		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 availability. • Is any related repair information available? 	Yes	Perform repair or diagnosis according to the available repair information. • If the vehicle is not repaired, go to the next step.
		No	Go to the next step.
3	INSPECT FAN CONTROL MODULE CONNECTOR FOR POOR CONNECTION <ul style="list-style-type: none"> • Turn the ignition switch off. • Disconnect the fan control module connector. • Inspect for poor connection (such as damaged/pulled-out pins, corrosion). • Is there any malfunction? 	Yes	Repair or replace the terminal, then go to Step 9.
		No	Go to the next step.
4	INSPECT FAN CONTROL MODULE SIGNAL CIRCUIT FOR SHORT TO GND <ul style="list-style-type: none"> • Turn the ignition switch off. • Inspect for continuity between fan control module terminal C (wiring harness-side) and body GND. • Is there continuity? 	Yes	Repair or replace the wiring harness for a possible short to GND, then go to Step 9.
		No	Go to the next step.
5	INSPECT FAN CONTROL MODULE SIGNAL CIRCUIT FOR SHORT TO POWER SUPPLY <ul style="list-style-type: none"> • Turn the ignition switch to the ON position (Engine off). • Measure the voltage between fan control module terminal C (wiring harness-side) and body GND. • Is the voltage B+? 	Yes	Repair or replace the wiring harness for a possible short to power supply, then go to Step 9.
		No	Go to the next step.
6	INSPECT FAN CONTROL MODULE <ul style="list-style-type: none"> • Inspect the fan control module. (See COOLING FAN MOTOR COMPONENT INSPECTION.) • Is there any malfunction? 	Yes	Replace the cooling fan component, then go to Step 9. (See RADIATOR REMOVAL/INSTALLATION.)
		No	Go to the next step.
7	INSPECT PCM CONNECTOR FOR POOR CONNECTION <ul style="list-style-type: none"> • Turn the ignition switch off. • Disconnect the PCM connector. • Inspect for poor connection (such as damaged/pulled-out pins, corrosion). • Is there any malfunction? 	Yes	Repair or replace the terminal, then go to Step 9.
		No	Go to the next step.
8	INSPECT FAN CONTROL MODULE SIGNAL CIRCUIT FOR OPEN CIRCUIT <ul style="list-style-type: none"> • Turn the ignition switch off. • Inspect for continuity between fan control module terminal C (wiring harness-side) and PCM terminal 1AP (wiring harness-side). • Is there continuity? 	Yes	Go to the next step.
		No	Repair or replace the wiring harness for a possible open circuit, then go to the next step.
9	VERIFY TROUBLESHOOTING OF DTC P0480 COMPLETED <ul style="list-style-type: none"> • Make sure to reconnect all disconnected connectors. • Clear the DTC from the PCM memory using the WDS or equivalent. • Start the engine. • Turn the A/C switch on to operate the cooling fan motor. • Is the same DTC present? 	Yes	Replace the PCM, then go to the next step. (See PCM REMOVAL/INSTALLATION [ZJ, Z6].)
		No	Go to the next step.
10	VERIFY AFTER REPAIR PROCEDURE <ul style="list-style-type: none"> • Perform the "AFTER REPAIR PROCEDURE". (See AFTER REPAIR PROCEDURE [ZJ, Z6].) • Are any DTCs present? 	Yes	Go to the applicable DTC inspection. (See DTC TABLE [ZJ, Z6].)
		No	DTC troubleshooting completed.