



Service Bulletin

INFORMATION

Subject: Semi-Annual Preventative Maintenance Check for Police Vehicle Cooling Fans

Models: 2006-2016 Chevrolet Impala Limited Police Vehicle
Equipped with RPOs 9C1 and 9C3

This PI has been revised to add the 2016 Model Year. Please discard PI1384.

Condition/Concern

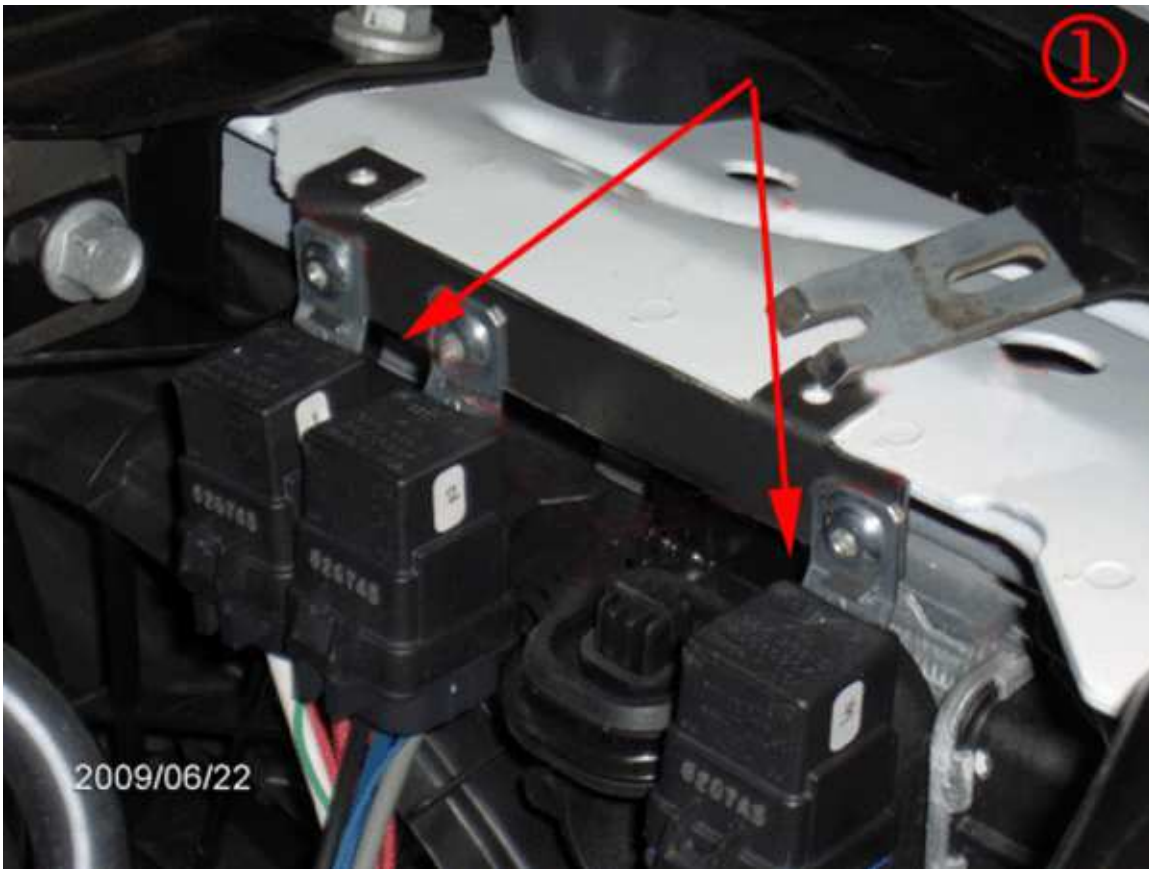
When performing vehicle maintenance, technicians should check the cooling fan motor amp draw using the procedure below. This will help prevent the fan motors from losing performance on police vehicles.

Recommendation/Instructions



Vehicles equipped with remote harness with relays not in the UBEC – Check the amp draw by directly placing the Mid-Range Amp Probe clamp on the positive wire (1), (2) going to each fan individually.

Examples of Remote Harness Relay Locations



1. Located behind the headlamp



2. Located on the radiator support

Vehicles NOT equipped with remote harness – Check the cooling fan motor amp draw using Mid-Range Amp Probe at the wiring block as shown below.



- Start the engine and warm to normal operating temperature and leave running.
- Turn off the headlights and HVAC fan.

The starting amperage may be between 16-18 amps at this location with the vehicle running. When each fan is turned on, it will “jump” up in reading.

Note the amp draw for later.

1. Using a Tech 2, select: Powertrain>Engine Control Output>Special Functions>Module Control>Cooling Fan.
2. Turn on Relay 1, 2 and 3 to run both fans on high. The amp reading with both fans running could be 55–60 amps.



3. Pull 1 relay (1) and read the amps. Subtract original reading (16-18 amps) from total. (Which should be under 26 amps).



4. Reinstall the relay, pull the second relay (2) and repeat.

If either fan motor draws more than 26 amps, replace both fan motors. Refer to Engine Coolant Fan Motor Replacement in SI.

Parts Information

Information for ordering: 1-800-GM-TOOLS (468-6657) or 1-800-533-6127 or <http://www.otctools.com/products/mid-range-amp-probe>

Refer to Parts Catalog (Group 01.055) for engine coolant fan motor part numbers.

Part Number	Description	Quantity
J-35590 (OTC 3500-01A)*	Mid-Range Amp Probe (2-600A)	1 - To be purchased one time (reusable)
*Or Equivalent		

Warranty Information

For vehicles repaired under the Bumper-to-Bumper coverage (Canada Base Warranty coverage), use the following labor operation. Reference the Applicable Warranties section of Investigate Vehicle History (IVH) for coverage information.

Labor Operation	Description	Labor Time
4080788*	Inspect Cooling Fan Motor Amp Draw	0.3 hr
Add	To Replace Both Cooling Fan Motors	1.5 hrs
4080798(*)(**)	One Time Purchase of Mid-Range Amp Probe	0.0 hr
*This is a unique Labor Operation for Bulletin use only.		
**This labor operation should represent the actual cost of the Mid-Range Amp Probe not to exceed \$100.00 USD. This is a one-time purchase and may only be claimed once.		

GM bulletins are intended for use by professional technicians, NOT a "do-it-yourselfer". They are written to inform these technicians of conditions that may occur on some vehicles, or to provide information that could assist in the proper service of a vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do a job properly and safely. If a condition is described, DO NOT assume that the bulletin applies to your vehicle, or that your vehicle will have that condition. See your GM dealer for information on whether your vehicle may benefit from the information.



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