



Service Bulletin

TECHNICAL

Subject: Coolant Fan Motor Noise or Inoperative, Poor A/C Performance

This Bulletin replaces PI1055A. Please discard PI1055A.

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Chevrolet	Caprice PPV	2011	2013			6.0L (L77), 3.6L (LFX)	
		2014	2016			6.0L (L77), 3.6L (LFX)	

Condition	<p>Some customers may comment on the following conditions:</p> <ul style="list-style-type: none"> • The coolant fans not working. • A noise and/or growl from the coolant fan motor. • Engine overheating and/or poor A/C performance.
Cause	<p>This may be caused by one or more of the following conditions:</p> <ul style="list-style-type: none"> • The coolant fan motor mounting bolts becoming loose. • The coolant fan motor mounting bolts may be missing. • The coolant fan motor mounting bolts contacting the fan blade. • The coolant fan motor current draw is too high. • The passenger compartment air filter poor performance.

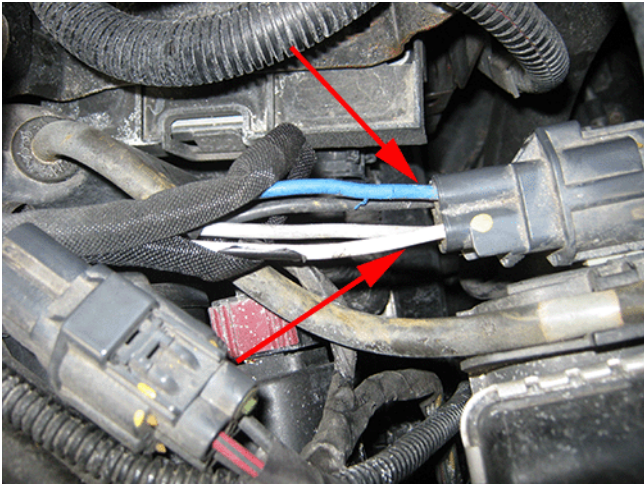
Correction

If the passenger compartment air filter has poor performance, replace the filter and re-check the A/C. Refer to *Passenger Compartment Air Filter Replacement* in SI.

If any coolant fan motor bolts are loose or missing or if the coolant fan motor fuse is blown, replace the coolant fan motor(s). Refer to *Engine Coolant Fan Motor Replacement* in SI.

If no bolts are loose or missing, or if the fuse is not blown, technicians should measure the coolant fan motor current draw. Check the coolant fan motor(s) current draw using a suitable tool at the wire harness as shown following the steps below:

Service Procedure for 2011-2013 Model Years



1. Open the hood and remove the insulation from the coolant fan motor wiring harness.
2. Start the engine and allow it to reach normal operating temperature.



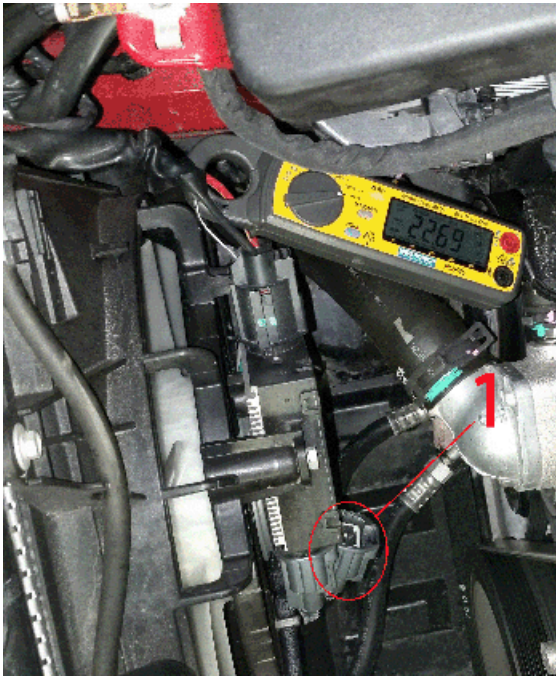
Note: If the coolant fan motor(s) draw less than the maximum amperage allowed, do not replace.

- Vehicles equipped **without** a pulse width module (2011-2013), check for amperage draw at the individual wiring harnesses to the cooling fan motors.
 - If either of the fan motors draw more than 26 amps, replace both of the fan motors. Refer to *Engine Coolant Fan Motor Replacement* in SI.
3. While the engine is running, use a Tech 2 and select: Powertrain>Engine Control Module> Special Functions>Output Control>Cooling Fan>Fan Relays 1,2 and 3.
 4. Select the "On" soft key to command these 3 relays on and to power up the coolant fan motors on high speed.
 5. Read the current draw off of the blue wire.
 6. Read the current draw off of the white wire.
 7. Reinstall the wire harness insulation.

Service Procedure for 2014-2016 Model Years

1. Open the hood and remove the insulation from the coolant fan motor wiring harness.
2. Start the engine and allow it to reach normal operating temperature.

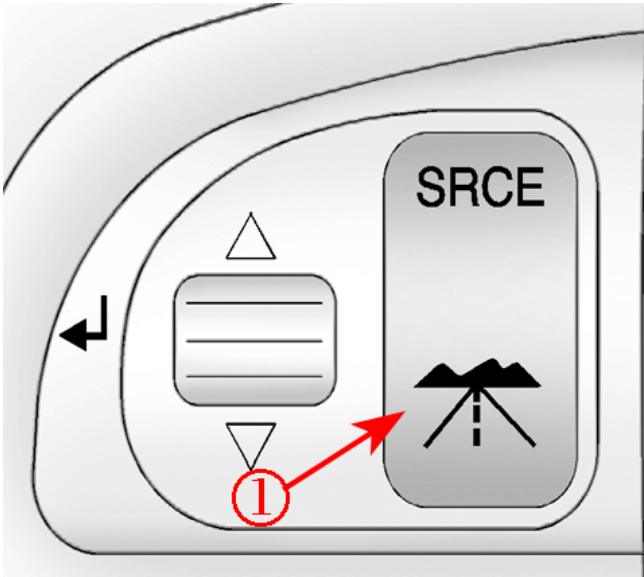
Note: If the coolant fan motor(s) draw less than the maximum amperage allowed, do not replace.



- Vehicles equipped **with** the pulse width module (2014-2016), check for amperage draw at the wiring harness before the module. Each fan must be checked individually by disconnecting one of the harnesses at the pulse width module (1).
 - If either of the fan motors draw more than 24 amps, replace both the fan motors. Refer to *Engine Coolant Fan Motor Replacement* in SI.
3. While the engine is running, use a GDS and select: Powertrain>(Engine Option)>Engine Control Module> Control Functions>Cooling Fans.
 4. Select the “90%” soft key to command the pulse width module on and to power up the coolant fan motors.
 5. Read the current draw off of the red/yellow wire.
 6. Read the current draw off of the black wire.
 7. Reinstall the wire harness insulation.

Parts Information

Description	Part Number	Qty
BOLT, ENG COOL FAN	92251643	6
MOTOR, ENG COOL FAN	92191945 (2011 ONLY)	2
	22762591 (2012-2016)	2
30 AMP FUSE	15822417 (2011-2013)	1
60 AMP FUSE	19115640 (2014-2016)	1



Note: For 2012-2016 MY only, when submitting the warranty claim, note the engine running and idle hours found in the Driver Information Center (DIC).

1. Press Trip/Fuel button (1) until Engine Run and Engine Idle are displayed.
2. The display will show the total number of hours the engine has run and the total number of hours the engine has been at idle.

Warranty Information

For vehicles repaired under warranty, see below. For the vehicles outside of warranty, see Special Policy 14588C.

Labor Operation	Description	Labor Time
4032280	Engine Coolant Fan Motor Replacement	Use Published Labor Operation Time

Version	1
Modified	

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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