Bulletin No.: PIT5525

Date: Nov-2016

Service Bulletin

PRELIMINARY INFORMATION

Subject: **Poor Air Conditioning Performance Above 80 Degrees F– 27 C**

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Chevrolet	Colorado	2015	2016	All	All	All	All
GMC	Canyon	2015	2016	All	All	All	All

Involved Region or Country	North America
Additional RPO/s:	LCV, LFX, LWN
Condition	Poor Air Conditioning Performance above 80 Degrees F
Cause	Refer To Diagnostics..

Correction

Important: This diagnostic is to be performed if the condition is present only when the ambient temperature is above 80 degrees F (27 C) . Verify the system charge is correct , no DTC's are present and after the A/C Performance Chart and eSI diagnostics have been performed.

An engineering investigation has shown 2 possible causes for poor A/C performance when diagnostics show everything within specification. Perform the diagnostic for the condition you are duplicating below.

Condition 1.)

A possible internal compressor concern usually duplicated after moderate to hard acceleration the system begins to blow warm. To determine if the compressor is the fault, when duplicating the concern monitor the high and low side pressures with manual gauges (Calibrated before use.) and the scan tool monitoring the AC Compressor Solenoid Commanded % in the ECM /HVAC data. (If you have a C67 manual system you will have to manually enter the vehicle information in GDS2 instead of using the VIN and under Module Diagnostics select "Automatic HVAC" from the selection list.) If the pressures start to equalize but the Commanded Compressor % returns to 100% , turn off the A/C using the switch and then turn it back on or shut off the engine and restart it. If system begins to blow cold again and the gauges recover to normal, replace the compressor referencing the Parts Information section below.

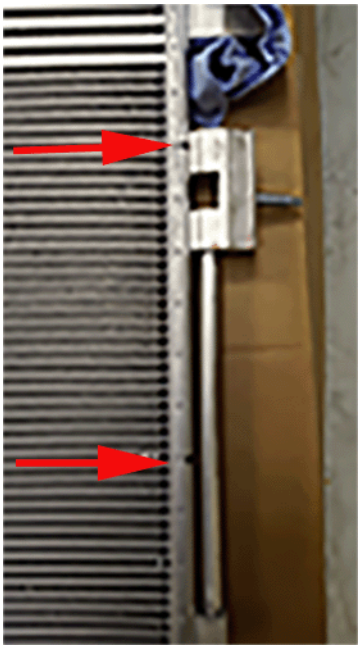
Condition 2.)

A possible internal condenser fault may exist. Record the measurements requested down the chart below under each of the conditions listed across the top. This will allow for the system to stabilize.

Data Points	Initial Start Up Readings Low Blower @ Idle	Readings After 10 Minutes Run Time Low Blower, @ Idle	Readings After 1 Minute W/Blower On High @ Idle	Readings After 1 Minute W/Blower On High @ 2000 RPM	Readings After 1 Minute W/Blower On Low @ Idle
System Low Side Pressure					
System High Side Pressure					
Evaporator Temperature Sensor					
Ambient Temperature					
A/C Duct Temperature Sensor					
A/C Compressor Solenoid Commanded %					
Thermometer In Center Vent					

If it is found most of these readings are in specification but the low side pressure is at the low end of that specification and the Evaporator Air Temperature Sensor reads approx. 10 degrees or more higher. (I.E. Low Side Pressure 30 psi , EAT at 40+ F , vent temperature will be even more skewed high.) perform the test below.

Through the grill using an infrared thermometer measure the temperature of the 2 locations, about 2 inches in from the edge of the core of the condenser as shown in the appropriate illustration below.



If there a difference of more than 10 degrees F top to bottom, replace the condenser. Reference the Parts Information section below.

Refer to eSI for component replacement instructions.

Parts Information

Description	Part Number	Catalog Number:
A/C Compressor (2015 LCV)	23106025	23106025

A/C Compressor (2016 LCV)	23398670	23398670
A/C Compressor (LWN)	23291877	23291877
A/C Compressor (LFX)	23106023	23106023
A/C Condenser (LCV/LFX Auto)	22934949	22934949
A/C Condenser (LCV/LFX Auto)	84019527	84019527
A/C Condenser (LWN Auto/LCV Manual)	94778500	94778500

Warranty Information

Labor Operation	Description	Labor Time
4480568*	Replace AC Compressor And Additional Diagnosis Time	2.5L LCV
		1.6 hr
		3.6L LFX
		2.3 hr
		2.8L LWN
		3.0 hr
* This is a unique labor operation for bulletin use only.		

Labor Operation	Description	Labor Time
4480558*	Replace AC Condenser And Additional Diagnosis Time	2.5L LCV
		2.9 hr
		3.6L LFX
		2.9 hr
		2.8L LWN
		3.6 hr
* This is a unique labor operation for bulletin use only.		

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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