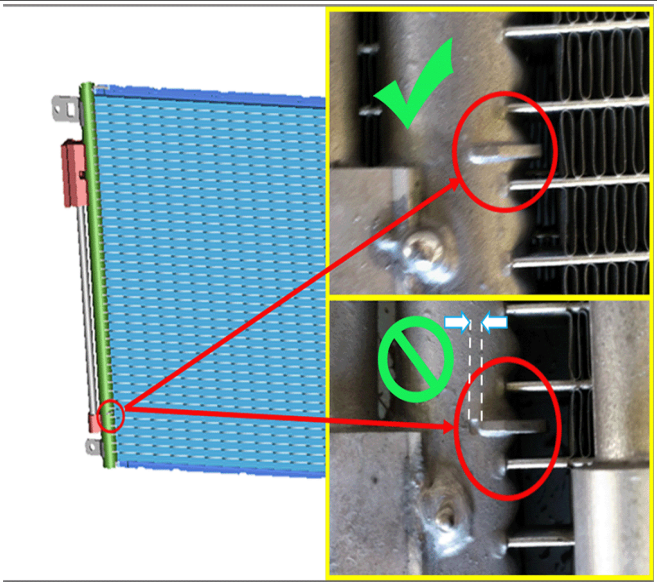
Service Bulletin

File in Section: -
Bulletin No.: 16-NA-028
Date: July, 2016

TECHNICAL

Subject: Air Conditioning Not Getting Cold Enough or Blows Warm Air

Brand:	Model:	Model Year:		Breakpoint		Engine:	Transmission:
		from	to	from	to		
Chevrolet	Sonic	2015	2016	SOP 2015	April 1, 2016	All	All
Chevrolet	Trax	2015	2016	SOP 2015	April 1, 2016	All	All

Involved Region or Country	North America and N.A. Export Regions
Condition	Some customers may comment that the air conditioning is not getting cold enough, or is blowing warm air. This condition is most commonly noticed upon first/beginning A/C usage on a new vehicle.
Cause	 4376188 The A/C condenser supplier has found that the cause may be a block off plate that was mis-positioned during their manufacturing process. The plate may not have been fully seated prior to welding, so it may not be directing the flow of refrigerant through an area of the condenser as design intended.

Correction

Important: The manufacturing process has been corrected, however, any vehicles produced between the breakpoints shown above may be affected. Because the standard SI diagnostics likely would not pinpoint this cause, the thermal test below is being communicated in this bulletin as a way to verify a good from a mis-built condenser.

Service Procedure:

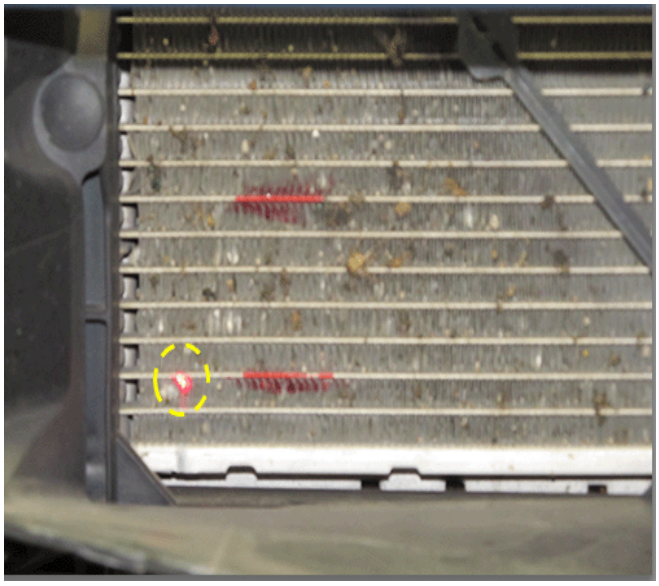
Before doing any repairs, refer to *Air Conditioning System Performance Test* in SI, and also complete the temperature variation test noted below:

1. Perform a diagnostic check of the A/C system. Refer to *Air Conditioning (A/C) System Performance Test* in SI. If no leaks and a proper refrigerant charge were found, continue to step #2 starting the A/C condenser temperature variation test.
2. Partially raise and support the vehicle. Refer to *Lifting and Jacking the Vehicle* in SI.

3. Turn the A/C system on high blower/non - recirculation mode, and run for at least 1 minute.

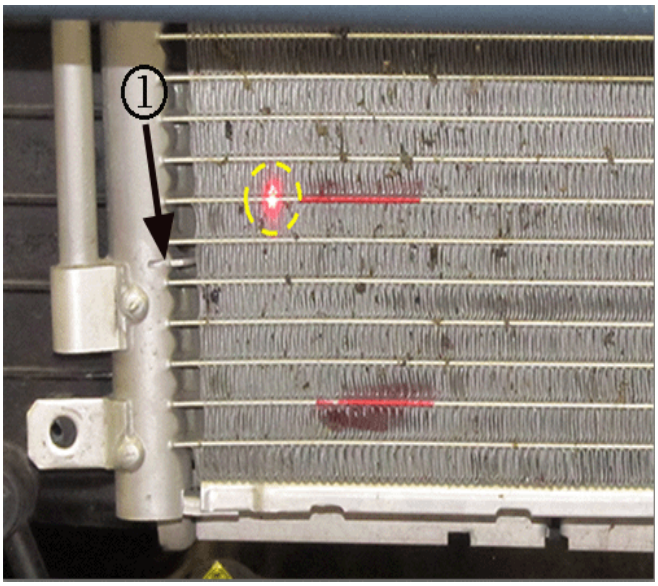
4376194

4. Accessing the left side lower grille area, use an Infrared thermal gun to take a reading at 2 locations noted in the steps below, and record temperatures and note temperature difference.



4376195

4.1. Take a reading at lower tube #2, designated by the lower red line in the graphic above. To obtain a proper reading, the gun beam should be positioned directly on tube #2, about 25 mm (1.0 in) to the right of the manifold.



4376196

Note: The condenser air baffle has been removed in the graphic above for illustration purposes only. The intent was to show that the #7 tube is 2 tubes above the blocking plate (1).

4.2. Next, move the laser dot to the #7 tube (designated by the upper red line). Take a reading ensuring the beam is positioned directly on the tube, approximately the same position from the manifold.

- If the difference in the reading is at least 10 degrees F or **more,** the condenser is functioning properly and further diagnostics will need to be completed to verify the cause of the condition.
- If the difference in the reading is approximately the same, or within 10 degrees **or less,** the vehicle has a misbuilt condenser. Prior to replacement, confirm that during temperature readings taken, the compressor was running for at least 10 seconds and was still running during measurements. If so, replace the A/C condenser. Refer to the appropriate *Air Conditioning Condenser Replacement* in SI.

Parts Information

Note: Use the vehicle identification number (VIN), SI, and the GM Electronic Parts Catalog to determine the proper condenser to order.

Description	Part Number
CONDENSER ASM-A/C	95286873
CONDENSER ASM-A/C	96945774

Warranty Information

Labor Operation	Description	Labor Time
4480388*	A/C System Analysis	0.5 hr **
Add	A/C Condenser Temperature Variation Test	0.3 hr
Add	Air Conditioning Condenser Replacement	1.3 hrs **
*This is a unique Labor Operation for Bulletin use only. **This includes Recover and Recharge R-134a A/C System.		

Version	2
Modified	July 20, 2016 – Added 2016 Model Year and Updated Date Breakpoint.