



# Service Bulletin

File in Section: -

Bulletin No.: 18-NA-069

Date: March, 2018

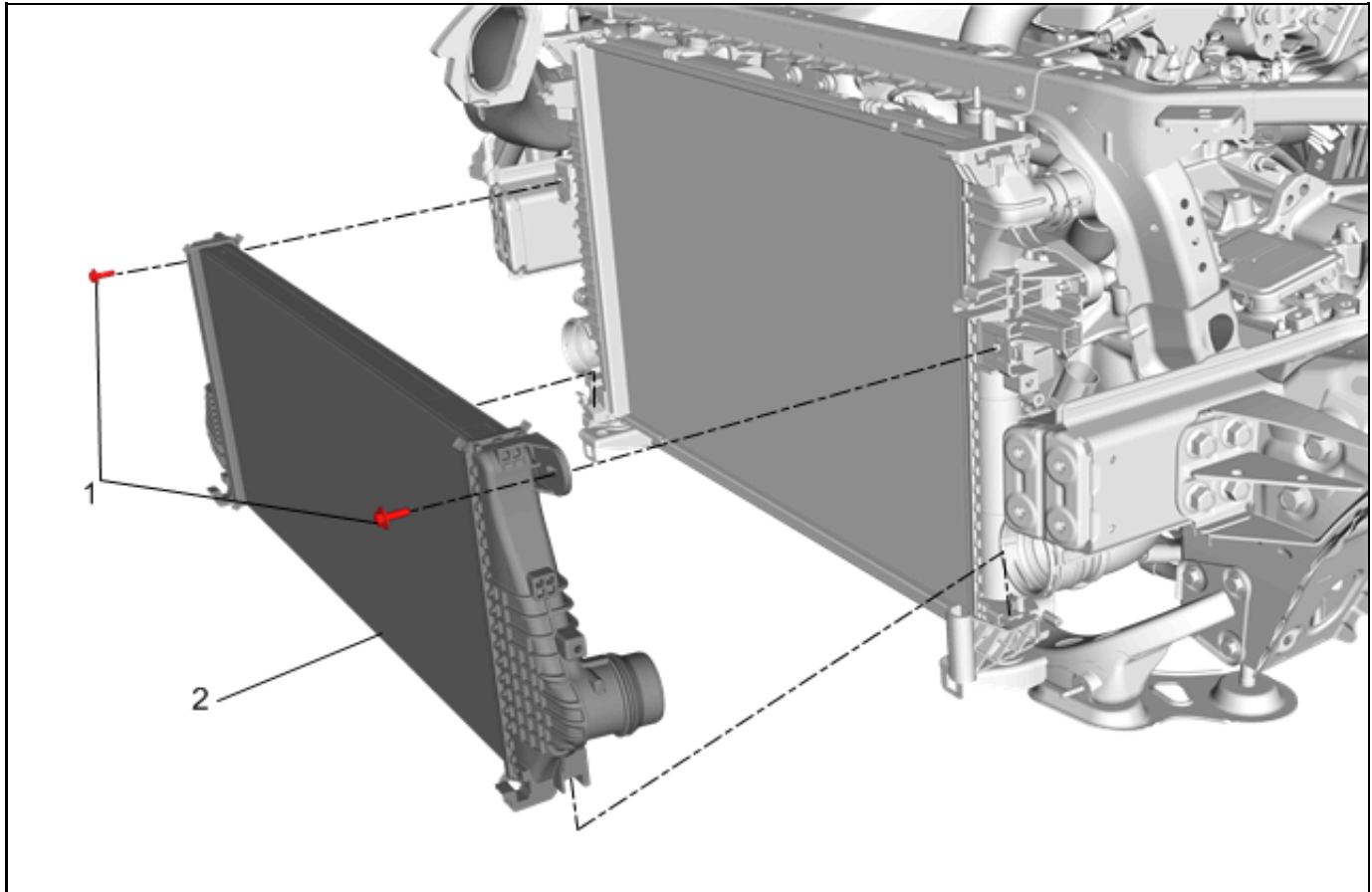
## TECHNICAL

**Subject:** Poor Engine Performance in Extremely Cold Weather Conditions for LFV Engines, Charge Air Cooler (CAC) Icing - Malfunction Indicator Lamp (MIL) Illuminated, DTC P0299, P0236, P2227, P00C7 Set

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Chevrolet	Malibu	2016	2018			1.5L (LFV)	

<b>Involved Region or Country</b>	North America
<b>Condition</b>	<p>Some customers may comment on one or more of the following conditions when driving in extremely cold weather conditions (-18°C or less / 0°F or less):</p> <ul style="list-style-type: none"><li>• Loss of power</li><li>• Hesitation on acceleration</li><li>• Stalling condition</li><li>• MIL Illuminated</li></ul> <p>The technician may find one or more of the following DTCs set:</p> <ul style="list-style-type: none"><li>• P0299</li><li>• P0236</li><li>• P2227</li><li>• P00C7</li></ul>
<b>Cause</b>	This condition may be caused by ice accumulation in the charge air cooler, restricting air flow.
<b>Correction</b>	<p>If any of the above conditions are present, allow time for possible ice build up in the CAC to melt by allowing the vehicle to thaw in a warm climate.</p> <p>If any of the following conditions are validated to be caused by freezing/icing, replace the CAC.</p> <p>If not previously performed, an oil change may be necessary to remove any moisture from the engine.</p>

## Service Procedure

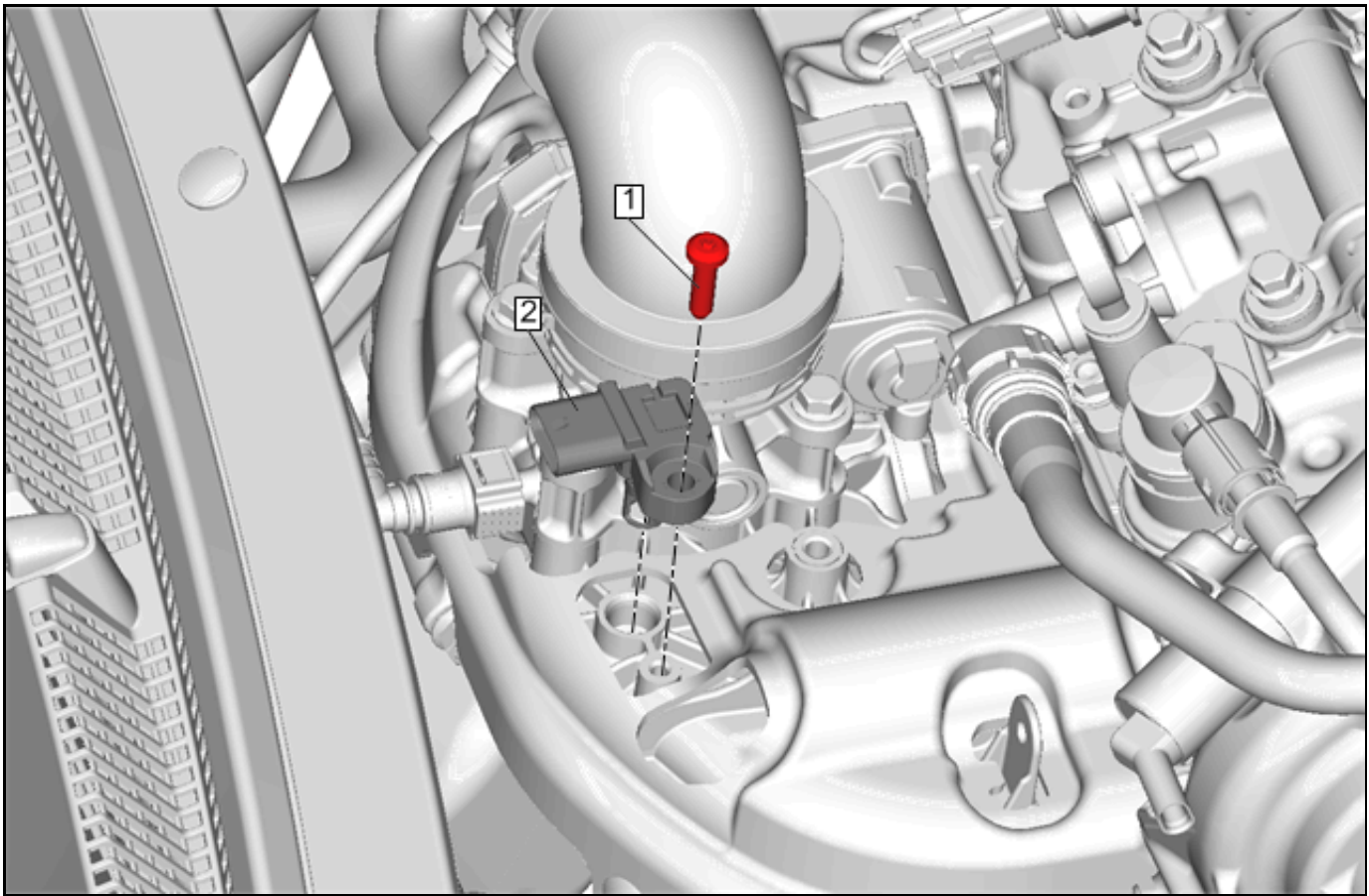


4241877

1. Install CAC (2). Refer to *Charge Air Cooler Replacement* in SI.

**Important:** Do Not perform an oil change if the oil change was recently done.

- If the oil change was recently done and no signs of moisture have been confirmed, proceed to step 3.
  - If the oil change was not previously done or moisture has been found in the oil, proceed with procedure.
2. If required, perform an oil change. Refer to *Engine Oil and Oil Filter Replacement* in SI.



3979313

3. Remove the Intake Air Pressure and Temperature sensor (IAPT) (2). Refer to *Intake Air Pressure and Temperature Sensor Replacement* in SI.

**Parts Information**

Description	Part Number	Qty
Cooler, Charge Air	84403753	1
Filter, Oil	Refer to the Electronic Parts Catalog (EPC).	
Oil		



4910683

**Warranty Information**

For vehicles repaired under the Emission coverage, use the following labor operation. Reference the Applicable Warranties section of Investigate Vehicle History (IVH) for coverage information.

Labor Operation	Description	Labor Time
4086058*	Charge Air Cooler Replacement and IAPT Inspection	1.6 hrs
Add	Oil Change	0.3 hr
*This is a unique Labor Operation for Bulletin use only.		

4. Inspect, clean and dry the IAPT sensor of any contaminates.
5. Install the IAPT sensor.

Version	1
Modified	Released March 05, 2018

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.



WE SUPPORT VOLUNTARY  
TECHNICIAN  
CERTIFICATION