



Service Bulletin

Bulletin No.: 21-NA-199

Date: August, 2022

INFORMATION

Subject: Information on Installation of a New Thermal Bypass Valve (TBV)

Attention: The new TBV will be stamped with the number 70 and should only be replaced once during any transmission repair, including Customer Concern Not Duplicated (CCND).

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Chevrolet	Express	2021	2021	SOP	March 18, 2021	All	MYC, MYD
	Silverado	2016	2018		EOP	All	
	Silverado LD	2019	2019		EOP	All	
	Silverado 1500 (New Model)	2019	2021		Fort Wayne: March 16, 2021,	5.3 (L82)	
					Fort Wayne: April 26, 2021	4.3 (LV3)	
	Silverado 2500HD/3500HD	2020	2021		Silao: April 06, 2021	All	
	Suburban	2016	2020		March 20, 2021	All	
	Tahoe	2016	2020		EOP	All	
GMC	Savana	2021	2021		EOP	All	
	Sierra	2016	2018		March 18, 2021	All	
	Sierra Limited	2019	2019		EOP	All	
	Sierra 1500 (New Model)	2019	2021		Fort Wayne: March 16, 2021,	5.3 (L82)	
					Fort Wayne: April 26, 2021	4.3 (LV3)	
	Sierra 2500HD/3500HD	2020	2021		Silao: April 06, 2021	All	
	Yukon Models	2016	2020	March 20, 2021	All		
				EOP	All		

<p>Involved Region or Country</p>	<p>North America, Canada</p>
<p>Condition</p>	<p>Some customers may comment on one or more of the following conditions:</p> <ul style="list-style-type: none"> • MIL illuminated • Harsh Shifts • Slip • Surge • Shudder • Harsh Garage Shifts • Harsh Range Shifts • Noise • Whine • Growl • Shake • Vibration • Delayed Shifts
<p>Correction</p>	<p>Note: Review of the Global Warranty Management (GWM) system. This will indicate if the TBV has been replaced.</p> <p>Correct the existing customer condition following published Service Information.</p> <div data-bbox="683 751 1333 1329" data-label="Image"> </div> <p style="text-align: right;">5897301</p> <p>Note: The TBV should be replaced one time for any transmission repair including Customer Concern Not Duplicated (CCND). Once the TBV Part Number 86774933, stamped with “70” as shown above is installed, it does not need to be replaced again unless it is determined the TBV has failed.</p> <p>⇒ The Transmission Cooler Bypass Valve (TBV) should be replaced with a new (TBV) that has cooler operating temperature and should be replaced when any transmission repair is performed including Customer Concern Not Duplicated (CCND).</p> <p>Note: The “70” may be difficult to read as a dot print maybe stamped over the “70”.</p> <ul style="list-style-type: none"> – The new TBV only needs to be replaced once. The new valve has a 70 stamped into the bottom of the valve. The “70” stamp is visible on the valve when installed on the transmission. – The revised TBV has a full open temperature of 158f (70c). The previous TBV had a full open temperature of 194f (90c).

Parts Information

Causal Part	Description	Part Number	Vehicle	Qty
N/A	Transmission Cooler Bypass Valve (TBV)	86774933	2016-2018 Silverado/ Sierra, 2019 Silverado LD/Sierra Limited (steel lines), Suburban, Tahoe, Yukon	1
		85547828	Silverado Sierra 2500HD/3500HD	1
		85563685	2019-2021 Silverado/ Sierra (aluminum lines), Express/Savana	1
N/A	Seal	23135703	All	1
N/A	SEAL, TRANS FLUID CLR PIPE FTG (O-RING)	12650609 (aluminum lines)	All	2
		23277649 (steel lines)		
N/A	DEXRON VI Transmission Fluid	88865601 (US) 19421425 (Canada)	All	1

Warranty Information

Note: This repair is an addition to any other transmission repair. A second line item should be added to the Repair Order.

For vehicles repaired under the Powertrain coverage, use the following labor operation. Many repairs will not require additional labor for the TBV replacement as it may be necessary to remove the TBV to complete the transmission repair. Reference the Applicable Warranties section of the Investigate Vehicle History (IVH) for coverage information.

Labor Operation	Description	Labor Time
8486048*	Install Transmission Thermal Bypass Valve (TBV) During Any Repair That Involves Requires Removal of the Transmission	0.2 hr
Add	Install Transmission Thermal Bypass Valve (TBV) For Any Repair Including CCND That Does Not Require Removal of the Transmission	0.6 hr

*This is a unique Labor Operation for Bulletin use only.

Version	5
Modified	<p>Released September 24, 2021</p> <p>Revised October 05, 2021 - Removed Escalade Models, 2014 from Suburban, Tahoe and Yukon models and 2020 Silverado 1500 and Sierra 1500 from Model section.</p> <p>Revised October 19, 2021 - Removed 2014 and 2015 Silverado and Sierra and 2015 Suburban, Tahoe and Yukon from Model section.</p> <p>Revised December 10, 2021 - Added Express, Savana, Silverado 1500 (New Model), and Sierra 1500 (New Model) to Model Section and Update Parts Information section.</p> <p>Revised July 26, 2022 - Added Suburban, Tahoe, Yukon to Parts Information section.</p>

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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