



Service Bulletin

Bulletin No.: 21-NA-003

Date: May, 2022

TECHNICAL

Subject: Loss of and/or Reduced Propulsion, DTCs P0730, P0746, P0776, P0841, P0846, P0961 and/or P0965 Set

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Buick	Encore GX	2020	2021	—	—	1.2L (LIH) or 1.3L (L3T)	VT40 CVT Automatic (MRG)
Chevrolet	Malibu	2019				1.5L (LFV) or 1.35L (Korea)	
	Trailblazer	2021				1.2L (LIH) or 1.3L (L3T)	

Involved Region or Country	North America, GM Korea Company
Condition	<p>Some customers may comment on loss of and/or reduced propulsion. Technicians may find one or more of the following DTCs set in the Transmission Control Module (TCM):</p> <ul style="list-style-type: none"> • P0730: Gear Ratio Incorrect • P0746: Transmission Control Solenoid Valve 1 Stuck Off • P0776: Transmission Control Solenoid Valve 2 Stuck Off • P0841: Transmission Fluid Pressure Sensor 1 Performance • P0846: Transmission Fluid Pressure Sensor 2 Performance • P0961: Transmission Control Solenoid Valve 1 Performance • P0965: Transmission Control Solenoid Valve 2 Performance
Cause	<p>Note: This condition may be intermittent and not reproducible.</p> <p>This condition may be caused by the pressure regulator valve sticking in the valve body.</p>

Correction	<p>Refer to Service Bulletin# 20-NA-120 to inspect the condition of the chain and pulleys, as these DTCs can allow slip to happen and cause damage.</p> <ul style="list-style-type: none"> • If the chain or pulleys are damaged, the transmission must be replaced. • If the chain and pulleys are not damaged, continue with correction. <ol style="list-style-type: none"> 1. Replace the valve body and pressure sensors if the first DTC to set freeze frame data shows low pressure on primary and/or secondary pulley pressure and has some or all of these codes set: P0746, P0776, P0841, P0846, P0961, P0965, P0730. 2. Replace the solenoid body if additional solenoid related codes like P2723 are set in conjunction with some or all of these codes: P0746, P0776, P0841, P0846, P0961, P0965, P0730. <p>⇒ If unable to read primary pulley pressure, primary pulley pressure command, secondary pulley pressure, secondary pulley pressure command, then replace the solenoid body, valve body, and sensors.</p> <p>Note: Once the Transmission Control Module (TCM) detects stuck or ticking valves, 4000 kpa line pressure is commanded to both pulleys to protect from slip and pulley damage. When operating in this mode, often all codes (P0746, P0776, P0841, P0846, P0961, P0965, P0730) will set eventually. So the first to set codes are the most relevant to the initial failure.</p> <p>⇒ If the condition is not intermittent and before repair, confirm that the main pump is working correctly and/or there is no pressure loss due to internal leakage. Reset DTC and monitor pulley pressures. If the transmission is still reporting an under pressure condition, further diagnostics will be needed to look for internal leaks, low fluid level, and pump operation.</p> <p>⇒ If the condition has additional sensor related codes, further diagnostics will be needed to look for wire harness issues and/or sensor issues. If the transmission loses the ability to correctly control ratio (for example a speed sensor fails), these codes: P0746, P0776, P0841, P0846, P0961, P0965, P0730 can also set as the control system reacts by commanding 4000 kpa to pulleys.</p>
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Service Information

Refer to *Control Valve Body Replacement and Automatic Transmission Fluid Pressure Sensor Replacement* in SI.

If required, refer to *Control Valve Solenoid Body Replacement* in SI.

Parts Information

Causal Part	Description	Part Number	Qty
X	BODY, C/MLV	24042059	1
X	SENSOR, A/TRNS FLUID PRESS	24295253	2
X	BODY, C/VLV SOL	24288570	1
N/A	SEAL, C/MLV CVR WRG CONN HOLE	24280824	1
N/A	SEAL, A/TRNS FLUID LVL CONT VLV	24292808	1
N/A	PLUG, A/TRNS FLUID LVL HOLE	24277045	1
N/A	PLUG, A/TRNS FLUID TEMP SEN	24285336	1
N/A	FLUID, TRNS	Refer to EPC	As Required

Warranty Information

Note: Only use the Labor Operation number that coincides with the repair performed.

For vehicles repaired under warranty, use:

Labor Operation	Description	Labor Time
8463690	Control Valve Body Replacement	Use Published Labor Operation Time
8462540	Automatic Transmission Fluid Pressure Sensor Replacement	
8463700	Control Valve Solenoid Body	

Version	2
Modified	Released July 16, 2021 Revised May 11, 2022 — Removed 2020 Trailblazer.

