



Service Bulletin

Bulletin No.: 22-NA-097

Date: October, 2022

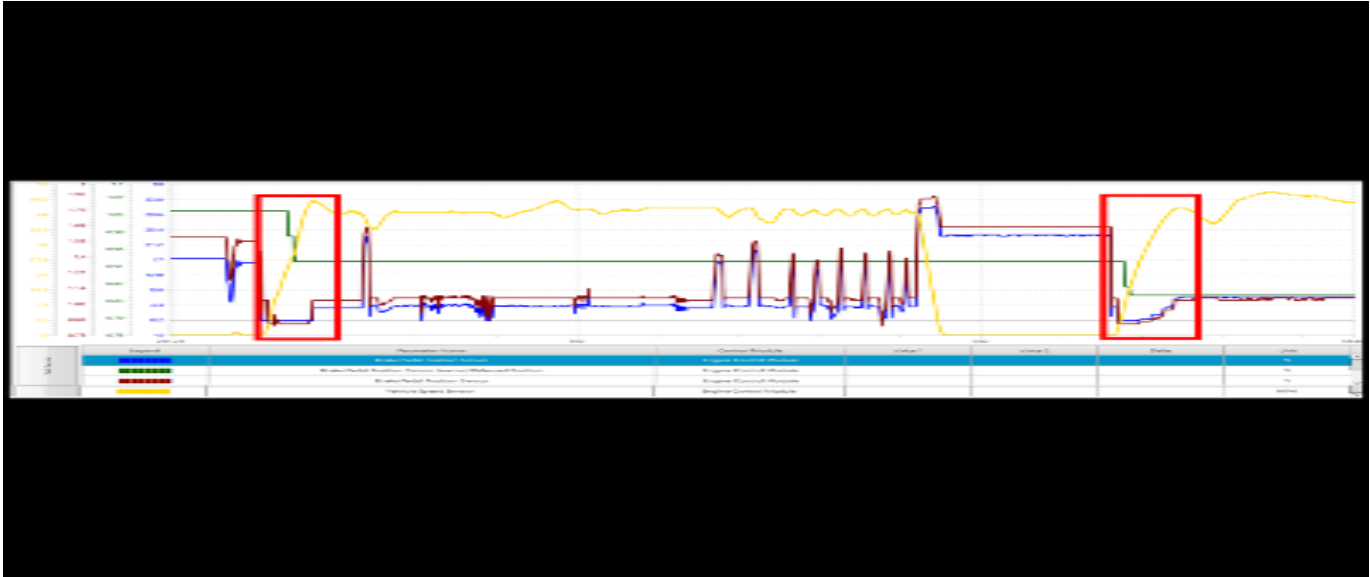
TECHNICAL

Subject: Cruise Control Wont Set or Resume/Inoperative/Turns Off, Excessive Brake Pedal Free Play

Brand:	Model:	Model Year:		Breakpoint Date:		Engine:	Transmission:
		from	to	from	to		
Buick	Encore GX	2022	2022	SOP	March 16, 2022		
Chevrolet	Trailblazer						

Involved Region or Country	North America
Condition	<p>Some customers may comment that while driving, the cruise control will not set, and/or won't re-engage after braking.</p> <ul style="list-style-type: none"> – The issue could be intermittent and may temporarily resume normal operation after shutting down and restarting the vehicle. Customer may state they may have to pull up on the brake pedal to engage cruise control.
Cause	<p>This condition may be caused by the brake pedal movement rearward during acceleration causing the inaccurate learned released position in the ECM.</p> <ul style="list-style-type: none"> – When this occurs, ECM Brake Pedal Position Sensor shows a value of 6% pedal travel or greater. This is why the parameter for Cruise Control Inhibit Reason is showing "Brake Pedal Applied" (cruise control is disabled).
Correction	<p>Observe the brake pedal movement:</p> <ul style="list-style-type: none"> – The attached video shows that during acceleration the brake pedal moves rearward causing an inaccurate learned released position value. <p>Monitor the following GDS values with cruise engaged during driving:</p> <ul style="list-style-type: none"> – The data shows the ECM is constantly learning and during acceleration, if there is movement in the brake pedal, the ECM will relearn new (incorrect) values. The brake pedal will appear to be applied, therefore disabling cruise control.

Brake Pedal Parameters



6057225

The data is found in the ECM ->Data Display -> Automatic Transmission. Accelerate several times from 0-50MPH (Yellow) with the pedal released.

While vehicle is accelerating (Yellow line), the Brake Pedal Position Sensor (Red line) drops to a lower value than the normal release position. This causes a corresponding drop in the BPPS Learned Released Position (Green line) value, causing the ECM to show some percentage of travel greater than zero when traveling at a steady speed with the pedal released (Blue line).

The GDS2 parameter for ECM Brake Pedal Position Sensor Learned Released Position voltage had dropped to a lower value (0.84) than the actual Brake Pedal Position Sensor voltage (1.06) when the pedal is released.

The GDS2 parameter for ECM Brake Pedal Position Sensor shows a value of 7% pedal travel*, even when the pedal is released. The parameter for Cruise Control Inhibit Reason is showing "Brake Applied". *any brake apply percentage > 3% would be suspect.

Parameter Name	Value	Unit	Control Module
Break Pedal Position Sensor Learned Released Position	0.84	V	Engine Control Module
Break Pedal Position Sensor	1.06	V	Engine Control Module

Parameter Name	Value	Unit	Control Module
Break Pedal Position Sensor	7	%	Engine Control Module

The GDS2 parameter for Cruise Control Inhibit Reason shows Brake Pedal Applied in the ECM, even when the pedal is released.

Parameter Name	Value	Unit	Control Module
Cruise Control Inhibit Reason	Brake Pedal Applied		Engine Control Module

Service Procedure

Replace the brake and accelerator pedal assembly.
Refer to *Brake and Accelerator Pedal Assembly Replacement* in the Service Manual.

Parts Information

Causal Part	Description	Part Number	Qty
X	PEDAL, BRK	60006992	1

Warranty Information

For vehicles repaired under warranty, use:

Labor Operation	Description	Labor Time
2442000	Brake and Accelerator Pedal Assembly Replacement	Use the Published Labor Operations Time

Version	1
Modified	Released October 12, 2022

