



Bulletin No.: PIC6454A
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Preliminary Information

PIC6454A Information on the "No Lift Shift" feature.

Models

Brand: Chevrolet **Model:** Camaro **Model Years:** 2016 - 2024 **VIN:** All **Engine:** All All **Transmissions:** All Manual Transmissions

Involved Region or Country	North America
Condition	Some customers may be searching for information about, or question the feature that is commonly referred to as "No Lift Shift" on a 6th Generation Camaro equipped with a manual transmission.
Concern	The feature that is referred to as "No Lift Shift" is one that is intended for our drivers who want the performance feel of quick power shifting in our manual transmissions. The feature keeps the throttle at full open for both our boosted and non-boosted applications when passing through the Engine Over-speed Protection during a shift. In Engineering terms, when triggered, there is an immediate torque control, with fuel and spark, for a given period of time. Then, a predictive control takes over using the throttle to control torque. This allows the driver to take advantage of fast torque control for a short period of time (e.g. during the shift) without heating up or damaging the catalyst over time.


To address the most common question about the feature, one should know that there are both enable RPM's and target RPM's for each transmission, which are different for each engine application on the Camaro. See the table below that shows the enable and target RPM's by engine. To perform a No-lift Shift, simply put the throttle to the floor (i.e. WOT), and keep it there. Once the tachometer reaches the enable RPM, you can depress the clutch and shift as quickly as you can, and you'll notice the tach will go to the target RPM during the shift. For example, if you are driving a 2017 SS Manual, with your throttle pedal to the floor, and the tach above 5000 RPM, say 5100 RPM, you can quickly upshift without lifting your throttle foot. The tach will reach the target RPM, in this example 6400 RPM, but not flare to redline. You can quick shift at any time during this RPM range. By the way, in our 2.0T Camaro (RPO LTG), if you are performing a No-lift Shift sequence, you will notice that you don't lose boost during shifting, as you would with normal shifting. This adds up to an improved lap time or quarter mile. Also, you need to have a minimum speed of 15 kph (9.3 mph).

ENGINE		NO-LIFT SHIFT	ENABLE (MINIMUM) RPM	TARGET RPM DURING THE SHIFT	COMMENT
LTG		YES	4400	3400	Not On MY16
LGX		YES	4400	6200	Not On MY16
LGX	1LE	YES	4400	6200	
LT1	SS	YES	5000	6400	
LT1	SS 1LE	YES	5000	5000	
LT4	ZL1	YES	5000	5200	
LT4	ZL1 1LE	YES	5000	5200	

This feature is found on all 6th Generation Camaro Manual Transmissions, with the exception of the 2016 2.0L engine (LTG) and the 3.6L engine (LGX). Those were added in Model Year 2017 and beyond. With regard to the effect of Driver Mode selection on No-lift Shift, there is no difference between Tour/Sport/Track/Snow-Ice mode or PTM mode, for the ability to perform the quick shifts. Most people either don't keep the throttle to the floor, or don't wait until they reach their Enable RPM before performing their shift. Both are required criteria to execute the No-lift shift feature. Lastly, the Enable and Target RPM is different for each engine application, and even within an application (as in the SS and SS 1LE).

Version History

Version	2
Modified	04/29/2022 - Created on. 01/09/2025 Updated Model year

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