

COBB Tuning AccessPORT

Launch Control – Use and Setting

How it works:

With a Launch Control enabled map flashed to the ECU, the following new functionality is added:

- 1) Additional Rev Limit when vehicle is stationary (Launch)
- 2) Additional Rev Limit when vehicle is in motion and clutch pedal is pressed (Flat Shift)

If the vehicle is stationary, you may rev the engine to the launch RPM, hold the accelerator down as far as you would like. At Wide Open Throttle, you may experience 7-8psi or more of boost that will build for the launch, depending on car configuration and launch RPM.

Once the vehicle has started to move, the launch Rev Limit will disengage and you will go back to your normal Rev Limit as set by the AccessPORT mapping established by COBB or your professional AccessTUNER.

Once launched, whenever you press down the clutch pedal another limiter will engage to help bring the RPMs down while you shift. This is to allow the driver to keep the accelerator at Wide Open Throttle while making shifts. The clutch engaged limiter will bring RPMs down while you go to the next gear. Releasing the clutch pedal will then disable the Flat Shift (clutched) limiter and return to your normal Rev Limit.

With the Launch Control/Flat Shifting enabled mapping, you can launch the car at Wide Open Throttle with boost and then shift the car while holding at Wide Open Throttle.

It's important to know that this type of driving can be **EXTREMELY** abusive to the vehicle, and damage to the engine, transmission, clutch and other components may occur. Use this functionality at your **OWN RISK**. COBB Tuning assumes **NO** responsibility for damage you may incur on yourself, your vehicle or others while using this functionality. It is **NOT** to be used on public roads.

Keep it on the race track!

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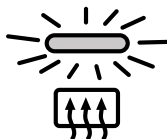
Setting up Launch Control RPM

Launch Control requires a Launch Control enabled AccessPORT map flashed to the ECU using the AccessPORT's Change Map -> REFLASH function. Launch Control will not be enabled if you only apply the map as a REALTIME change.

To set the Launch RPM:

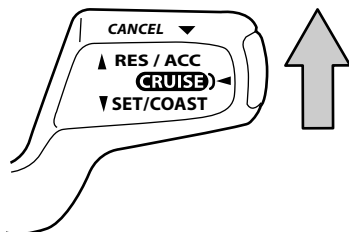
1) Start the engine and have the car at a complete stop. It is highly advised you engage the parking brake and keep the transmission in neutral (no gear selected).

2) Once the engine is at a normal operating temperature, turn on your Rear Window Defroster.

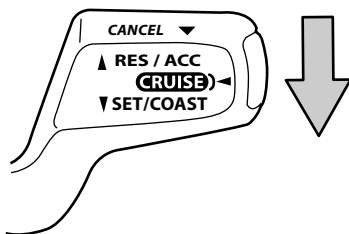


3) With your clutch disengaged (foot OFF the clutch pedal), rev the engine using light throttle. Once revs climb to approximately 4000 RPM, you will hit the default Launch Rev Limit.

A: To increase the Launch Rev Limit, lightly tap the cruise control lever (on the steering wheel) UP in the RES/ACC direction. Please note that only a light, quick tap is necessary to alter the Limiter by several hundred RPMs. The longer you hold it, the more it will change. You do NOT need to have Cruise Control turned on to make a change.



B: To decrease the Launch Rev Limit, lightly tap the cruise control lever DOWN in the SET/COAST direction. Again note that only a light, quick tap is necessary to make noticeable adjustments.



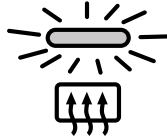
4) Once you have the Launch Rev Limit set to your ideal RPM, turn OFF the Rear Window Defroster.

Setting up Flat Shift RPM

To set the Flat Shift RPM:

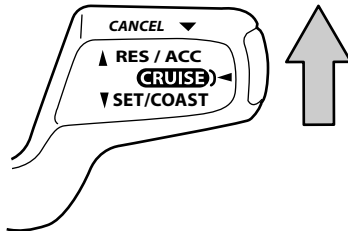
1) Start the engine and have the car at a complete stop. It is highly advised you engage the parking brake and keep the transmission in neutral (no gear selected).

2) Once the engine is at a normal operating temperature, turn on your Rear Window Defroster.

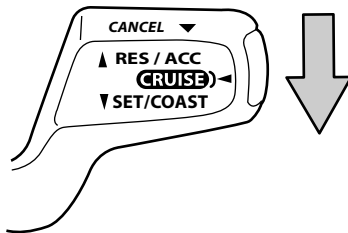


3) With the Clutch pedal engaged (down to the floor), rev the engine using light throttle. Once revs climb to approximately 4500 RPM, you will hit the default Flat Shift Rev Limit.

A: To increase the Flat Shift Rev Limit, lightly tap the cruise control lever (on the steering wheel) UP in the RES/ACC direction. Please note that only a light, quick tap is necessary to alter the Limiter by several hundred RPMs. The longer you hold it, the more it will change. You do NOT need to have Cruise Control turned on to make a change.



B: To decrease the Flat Shift Rev Limit, lightly tap the cruise control lever DOWN in the SET/COAST direction. Again note that only a light, quick tap is necessary to make noticeable adjustments.



4) Once you have the Flat Shift Rev Limit set to your ideal RPM, turn OFF the Rear Window Defroster.

Some notes about Setting Limiters

Limiters can only be adjusted while the vehicle is completely stopped. If you move the vehicle, even the slightest amount, it will **NOT** let you adjust the limiters.

In addition, you can only make adjustments to the limiter when the Rear Window Defrost is turned on.

Normal operation of the Cruise Control lever is NOT affected during normal driving and cruise conditions. If you are in motion and using Cruise Control, the level will have normal RES/ACC and SET/COAST functionality and WILL NOT adjust your limiters while you are driving with Cruise Control.

If you are driving with Cruise Control ON, and the Rear Window Defrost is ON, then your limits will again NOT be adjusted by using the Cruise Control Lever.

The only condition that will adjust the Limiters is if the vehicle is at a complete stop AND the Rear Window Defrost is turned on. If you are in this situation, it is not a normal operating/driving procedure to press UP or DOWN on the Cruise Control Lever as cruise control is not active while the vehicle is stationary.

Finally, it IS possible for you to set the Launch and Flat Shift Limiters at a value exceeding your normal Rev Limiter. In doing so, engine damage is **EXTREMELY** likely. This is not recommended, under any circumstances.

If you accidentally set the Limiter too high (ie: held the lever UP too long), simply hold the engine at a Safe RPM (ex. 4000 RPM) and tap the Cruise Control Lever DOWN until you notice the Limiter take effect and bring RPMs down.

If you accidentally set the Limiter too low (ie: held the lever DOWN too long), it is likely your engine will not start. To correct this situation, you can either perform a HARD reset of the ECU to clear its learned memory, or start the car with the Rear Window Defrost ON and while holding UP on the Cruise Control Lever. After a few start attempts, the Limiter value should increase above the starting RPM and the engine will once again Idle. Control adjusting until you reach your target Limiter RPM.

Final Words

Launch control and building boost from a stop (“at the line”) will product a tremendous amount of heat and stress on the engine, turbo, and other components. It is **NOT** recommended you hold the engine under these conditions for **ANY** amount of time, which is to say do it as little as possible.

We **CAN NOT** tell you how long is safe, what may be damaged, what will break first, what RPM is safe, best, etc. It is 100% up to you to decide if you'd like to use this functionality and if so, how.

Be Careful and Have fun!