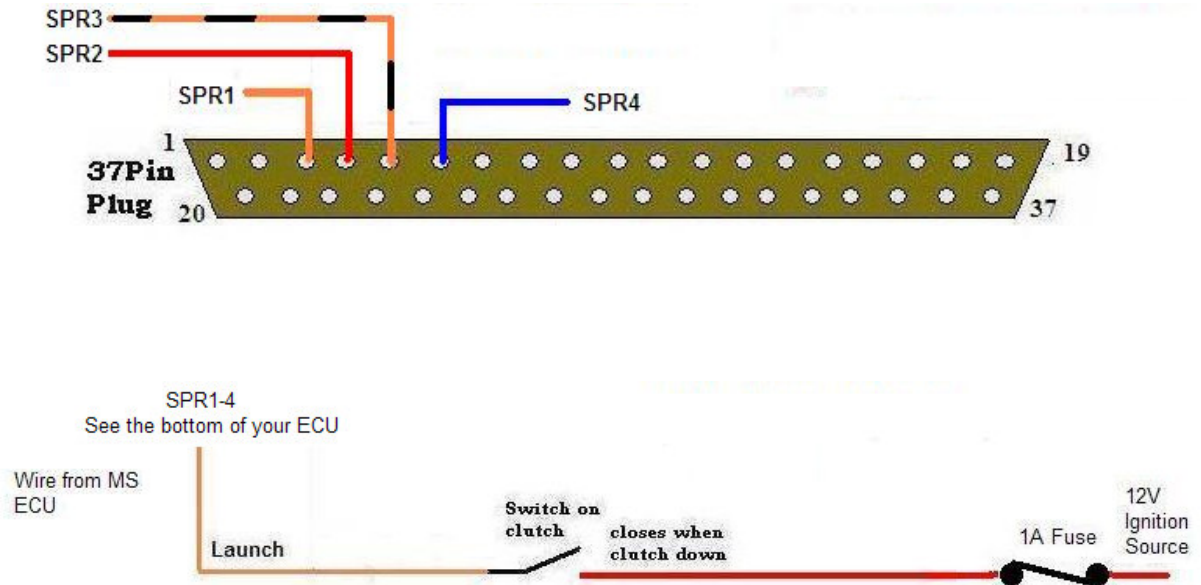




## Launch Control



Launch control works when the input is switched to 12V from a switch on the clutch or brake.

It retards the ignition to the setpoint when the RPM reaches the first limit, this reduces power and helps to slow the engine down. Then it goes into Hard Limit when the RPM reaches the **Hard Limit setpoint**. The style of hard rev limit is set by the **Rev Limiter Types** in MS1 or using the **Limiter Method** in MS2.

In **MS1** the Launch Control also has the option of a **Variable Launch** hard cut rev limit point. If its selected to ON in the setting screen then the ECU stores the current engine RPM as soon as the input is switched and uses that as its Hard Cut RPM setpoint. The switch must remain down until the launch has complete as it stores a new value every time the button is pressed.

This is to enable you to alter the setting at the track without having to get the laptop out. We wouldn't recommend this with a clutch switch, as every time you put your foot on the clutch it will take in the rpm and use that as the limit, I would use a thumb switch or something similar as the launch switch in this mode.

The **Flat Shift** settings are for use with a clutch switch and allow for different limits when changing gear, so you can keep the pedal down to maintain the power from the engine. If you press the clutch switch above the flat shift arming limit then the code uses the flat shift limits and retards the ignition and hard limits at the flat shift set points. Any lower than the arming rpm and it uses the launch limits. This is **NOT** recommended to be used when using the **Variable Launch** function. To disable, set the arming RPM above your maximum rpm.

### MS1-Extra

Setting	Value
Launch Control	On
Retard Ignition above (RPM)	1900
Retard to: (Deg)	5
Enable Launch when TPS above (Raw)	30
Launch Control Hard Rev Limit (rpm)	2200
Variable Launch	Off
Flat shift arming rpm (RPM)	3000
Flat shift mode retard above (RPM)	3500
Retard to: (Deg)	-10
Flat shift hard rev limit (RPM)	4000

### MS2-Extra

Setting	Value
Launch control option:	Launch/Flatshift
Input on:	Launch/Flatshift
Launch retard above (RPM)	3900
Retard to (deg)	1.00
Enable Launch when TPS above (%)	10
Launch hard limit (RPM)	4000
Limiter method	Spark Cut
Cut X sparks	5
from Y events	7
Flat shift arming rpm (RPM)	3000
Flat shift mode retard above (RPM)	4700
Retard to: (deg)	5.00
Flat shift hard rev limit (RPM)	4800