

**MICROTEC®**

Launch control

DATE	DRAWER	REVISION	NOTE
17-05-2012	Mattia Stranges	1.00	First release of Launch control strategy
18-07-2012	Mattia Stranges	1.00	Add graph information mode

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General description:

This strategy is used for apply correction on ignition, injection and PWM for obtain a defined rpm engine running, particularly useful for a fast start at finish line.

Launch Control

Mode		Normal	
Reference Speed			
Rear Wheel			
JetSki		Spark	Injection
Engine Limits [rpm]		0	0

Settings	
Injection	K 1.000
Advance	[deg] -10.0
PWM	[%] 0.0

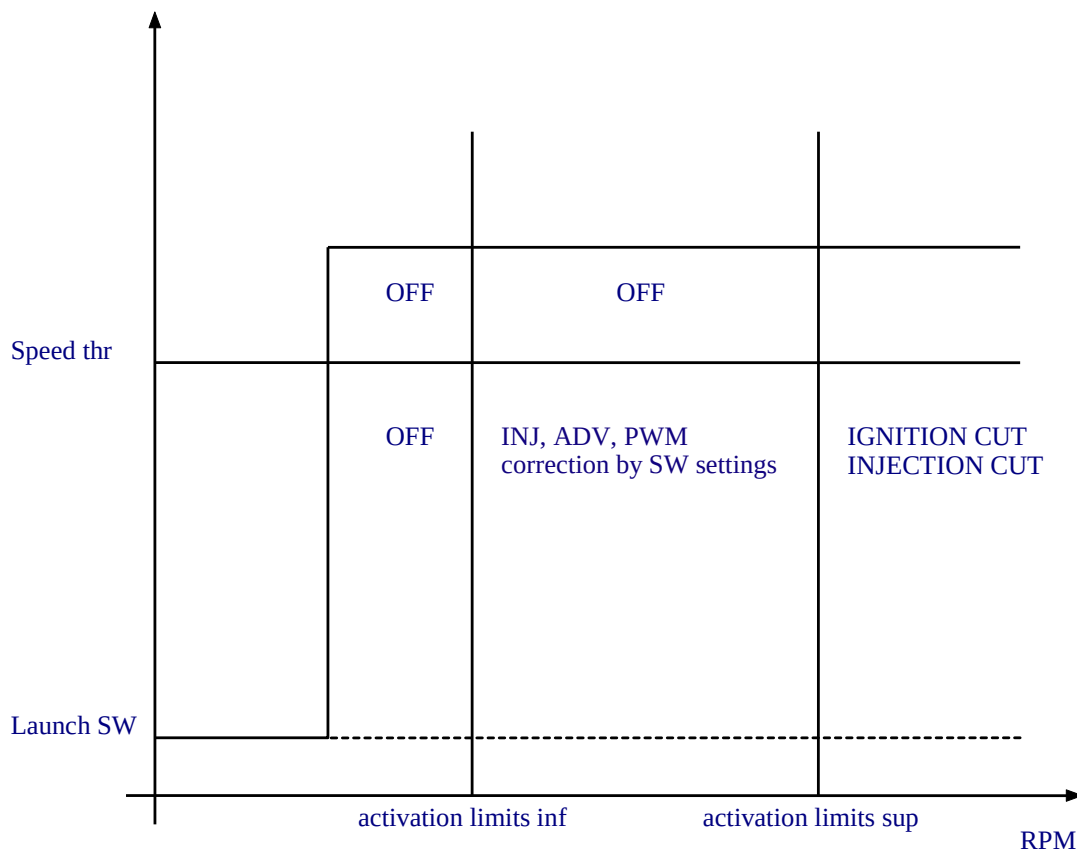
Speed Threshold [km/h]	30	40	50	55	60	65	70	75
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Injection	Activation Limits Lower [rpm]	6000	6250	6500	6750	7000	7250	7500	7750
	Activation Limits Upper [rpm]	6250	6500	6750	7000	7250	7500	7750	8000

Advance	Activation Limits Lower [rpm]	6000	6250	6500	6750	7000	7250	7500	7750
	Activation Limits Upper [rpm]	6250	6500	6750	7000	7250	7500	7750	8000

PWM	Activation Limits Lower [rpm]	6000	6250	6500	6750	7000	7250	7500	7750
	Activation Limits Upper [rpm]	6250	6500	6750	7000	7250	7500	7750	8000

Enable condition and general operation:



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Speed value below Speed threshold [km/h].

Launch Enable input activation (OFF→ON), each time, for minimum 300ms ON (debounce).

If speed value becomes over the speed threshold and then comes back, the strategy is off. For enable again the strategy ECU needs to see an activation of the Launch enable input.

Mode – speed reference input selection. By this selection you can select the speed input that will be used during the strategy.

Speed Threshold [km/h] – speed value over that the strategy is off.

Activation Limits [rpm] inf – lower rpm limit under which the strategy doesn't apply correction.

Activation Limits [rpm] sup – upper rpm limit above which the strategy switch off ignition and injection.

Settings K – Multiply factor for injection correction that will be applies between Inf. and Sup. Activation limits.

Settings [deg] – absolute value for ignition correction that will be applies between Inf. and Sup. Activation limits. (value of 10 means 10° of advance during this strategy).

Settings [%] – absolute value for PWM correction that will be applies between Inf. and Sup. Activation limits. (value of 10 means 10% of PWM during this strategy).

Detailed operation:

If Launch enable input = ON, speed value < speed thresholds, rpm < inf. Limits
Inj, Adv and PWM = normal map values

If Launch enable input = ON, speed value < speed thresholds, rpm > inf. Limits
Inj, Adv = OFF (no fuel, no spark), PWM = normal map values

If Launch enable input = ON, speed value < speed thresholds, Inf. Limits <= rpm <= Sup. Limits
Inj, Adv and PWM = settings values (K, deg, %)

Terog Low-High = Terog * K

Advance = deg

PWM = %

If Launch enable input = OFF or speed value > speed thresholds
Launch control = OFF

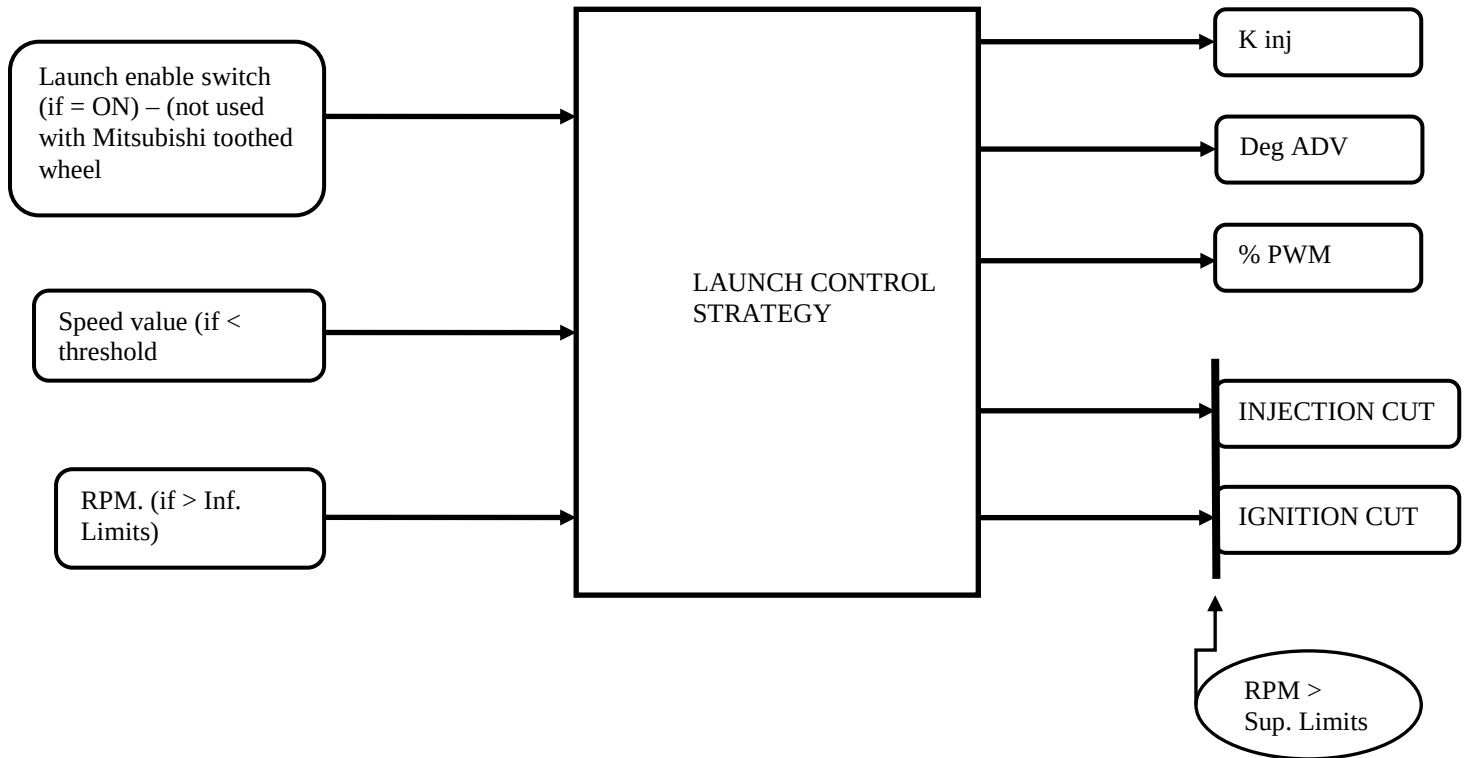
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**MICROTEC®****Operation interface:****MICROTEC S.r.l.**

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