

## SMC ECU FIRMWARE VERSION – FEATURE MATRIX

30-Mar-2020

FEATURE	FIRMWARE VERSION																
	v1.05	v1.06	v1.07	v1.09	v1.10	v1.11	v1.12	v1.13 & 1.14	v1.15	v1.16	v1.18	v1.18_2	v1.19	v1.90 & 1.91	v1.92 to 1.94	v1.99, 1.99_3 & 2.00	v1.99_2
Combined Throttle & MAP Fuel Delivery							✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Autotune																	
Open Loop A/F table effects Fuel Delivery	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Closed Loop A/F Control	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Digital Air-Flow Meter I/P <sub>1</sub>						✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Idle Speed Control (F/B)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Boost Control (F/B)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Clutch less Gear Shifting (WOT Shift) <sub>2</sub>													✓				✓
Turbo Boost Enhancement (Anti-lag)			✓			✓	✓	✓			✓	✓	✓	✓	✓	✓	✓
Alternate Functions on Spare Injector O/Ps	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Adjustable Trigger lead (Cylinder pulse offset) angle															✓	✓	✓
Pulse Divider Triggering (0, 2 or 3 missing)										✓							
Pulse Divider Triggering (0 to 7 missing Teeth)																✓	
Subaru Impreza Triggering <sub>3</sub>						✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
Mitsubishi Lancer triggering <sub>4</sub>						✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
Suzuki Swift triggering				✓													
Single I/P Triggering (Extra Pulse Sync)									✓		✓	✓		✓			✓
150° / 90° Odd-fire V6						✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
Notes:	<ol style="list-style-type: none"> <li><sub>1</sub> All PCB revs require an additional external connection. PCB revs prior to 'D' require additional internal circuitry.</li> <li><sub>2</sub> PCB revs prior to 'D' require additional internal circuitry.</li> <li><sub>3</sub> Suits early Subaru engines with 2 x 3 Crank &amp; 3,1,2,1 Cam Pulse Wheels. MY2001-2005 engines that have 36-1&amp;2 Crank &amp; 2 Pulse Cam Wheels require v2.00BETA2 firmware. All require a Dual Channel Reluctor Interface.</li> <li><sub>4</sub> 4 / rev &amp; 1 x wide, 1 x narrow / rev in Camshaft driven module only.</li> <li><sub>5</sub> v1.94 firmware version is recommended for new installations &amp; upgrades</li> </ol>																