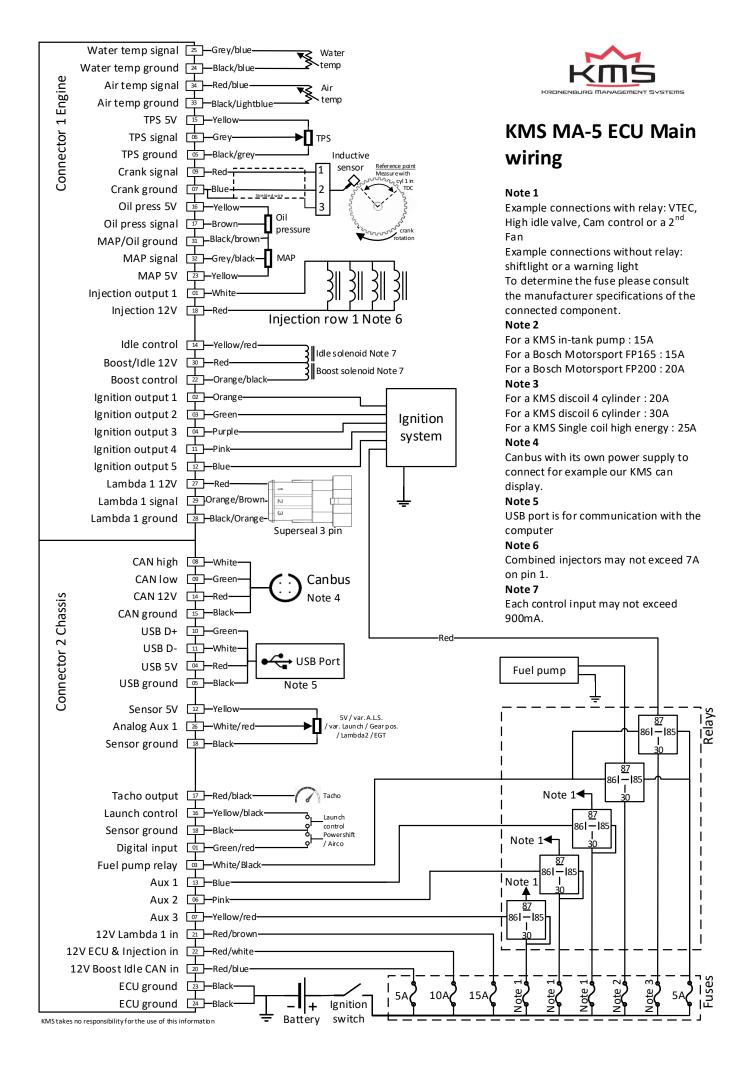
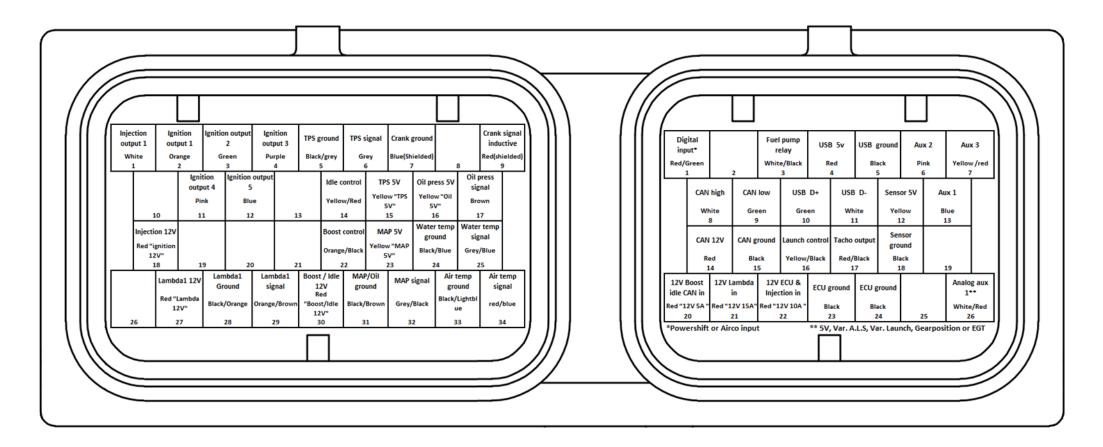
Standard colors KMS MA-5 ECU wiring loom

Pin nr. KMS	Colour	Length	Diameter: 0,5mm ²	Diameter: 0,75mm ²	Function
1	White		*		Injection output 1
2	Orange		*		Ignition output 1
3	Green		*		Ignition output 2
4	Purple		*		Ignition output 3
5	Black/grey		*		TPS ground
6	Grey		*		TPS signal
7	Blue(Shielded)		*		Crank ground
9	Red (shielded)		*		Crank signal inductive
11	Pink		*		Ignition output 4
12	Blue		*		Ignition output 5
14	Yellow/Red		*		Idle control
15	Yellow "TPS 5V"		*		TPS 5V
16	Yellow "Oil 5V"		*		Oil press 5V
17	Brown		*		Oil press signal
18	Red "ignition 12V"			*	Injection 12V
22	Orange/Black		*		Boost control
23	Yellow "MAP 5V"		*		MAP 5V
24	Black/Blue		*		Water temp ground
25	Grey/Blue		*		Water temp signal
27	Red "Lambda 12V"			*	Lambda1 12V
28	Black/Orange			*	Lambda1 Ground
29	Orange/Brown		*		Lambda1 signal
30	Red "Boost/Idle 12V"			*	Boost / Idle 12V
31	Black/Brown		*		MAP/Oil ground
32	Grey/Black		*		MAP signal
33	Black/Lightblue		*		Air temp ground
34	red/blue		*		Air temp signal

1	Red/Green	*		Digital input*
3	White/Black	*		Fuel pump relay
4	Red			USB 5v
5	Black			USB ground
6	Pink	*		Aux 2
7	Yellow /red	*		Aux 3
8	White			CAN high
9	Green			CAN low
10	Green			USB D+
11	White			USB D-
12	Yellow	*		Sensor 5V
13	Blue	*		Aux 1
14	Red			CAN 12V
15	Black			CAN ground
16	Yellow/Black	*		Launch control
17	Red/Black	*		Tacho output
18	Black	*		Sensor ground
20	Red "12V 5A "	*		12V Boost idle CAN in
21	Red "12V 15A"		*	12V Lambda in
22	Red "12V 10A "		*	12V ECU & Injection in
23	Black		*	ECU ground
24	Black		*	ECU ground
26	White/Red	*		Analog aux 1**

For more information, user manuals, wiring examples and software see our website: http://kms.vankronenburg.nl





MA-5 main wiring

Note 1: The injector output can deliver a maximum current of 7A. This means that a maximum of 6 high impedance (>=12 Ohm) injectors can be used on one injector output (pin 1). When using low impedance injectors (<12 Ohm) or more than 6 high impedance injectors on one injector output, an external KMS injection driver needs to be used. KMS injection drivers can take up to a maximum of 10A per output. For connection of the injection driver, see wiring examples.

Note 2: The value/capacity of the fuse is dependent on the total maximum current of the electrical components connected. See wiring examples for deterring the fuse values.

Note 3: Preferably put all ground connections (except coil ground!) on the same chassis point, to prevent a difference in potential between the grounds. Warning: The coil ground should be connected to the chassis on a separate point to prevent remaining ignition currents from transferring to the ECU system.

Note 4: All sensor grounds (including the shield of the crankshaft wires) must be soldered together at one point as close as possible to the main connector. The connecting point should then be wired to the main connecter by one single wire.