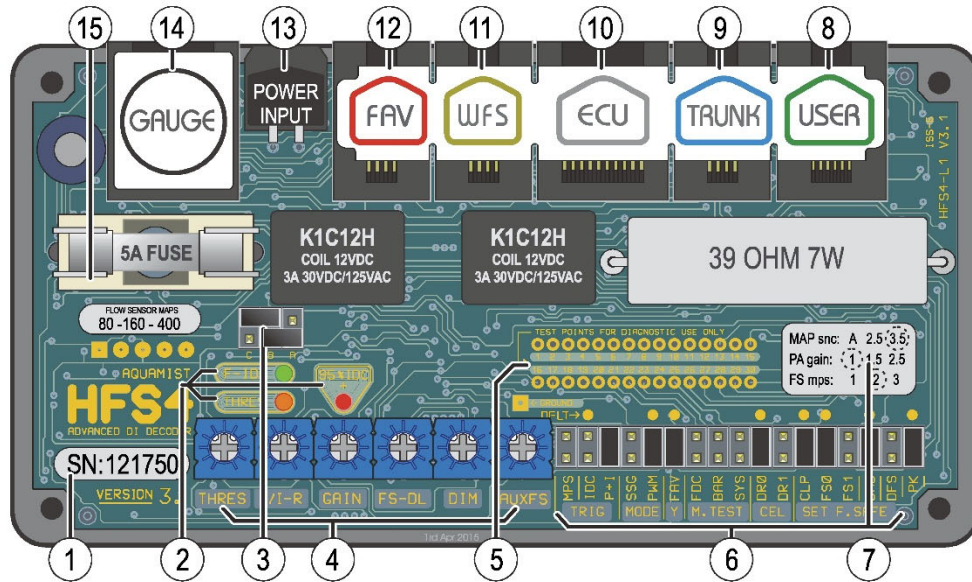


*** Always be sure to place the red Aquamist FAV connector in the correct port on the controller.
Failing to do so will damage the unit and require it be sent back to Aquamist for repair. ***

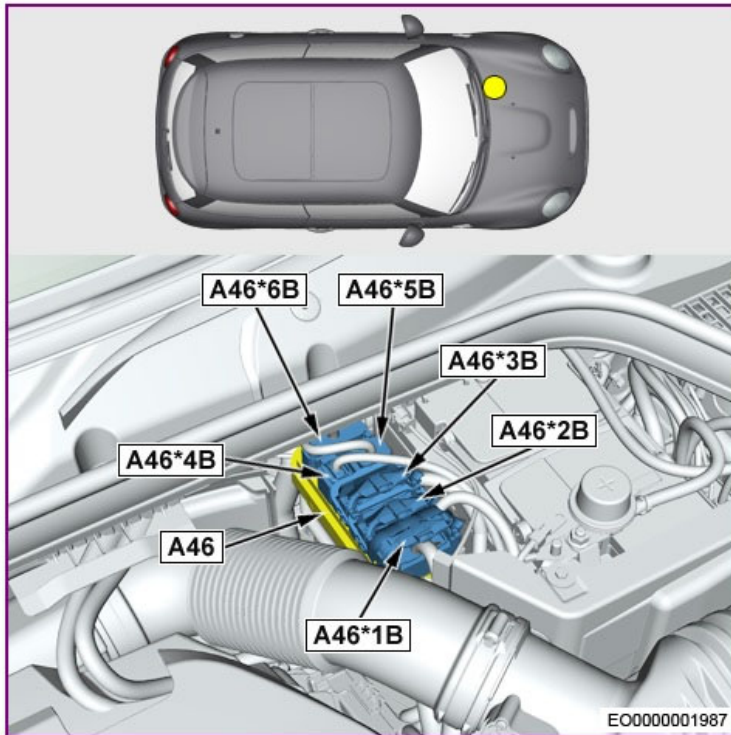
Board Changes



(6) Can change trigger jumper from IDC to P+I as shown. All other factory setting on area 6 are good.

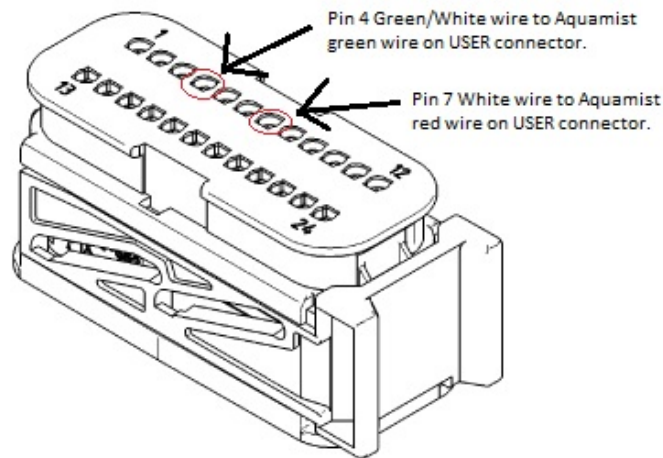
(3) Change injector signal to 2.5 configuration as shown for Direct Injection.

Injector Signals

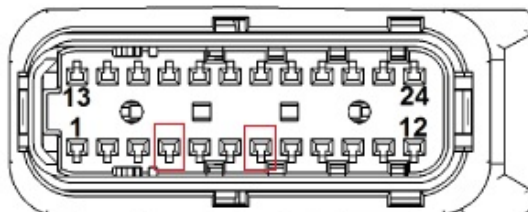


A46*6B pin 7 (white wire) to Aquamist fuel injector red (+) wire on USER connector (green).

A46*6B pin 4 (white/green wire) to Aquamist fuel injector green (-) wire on USER connector (green).



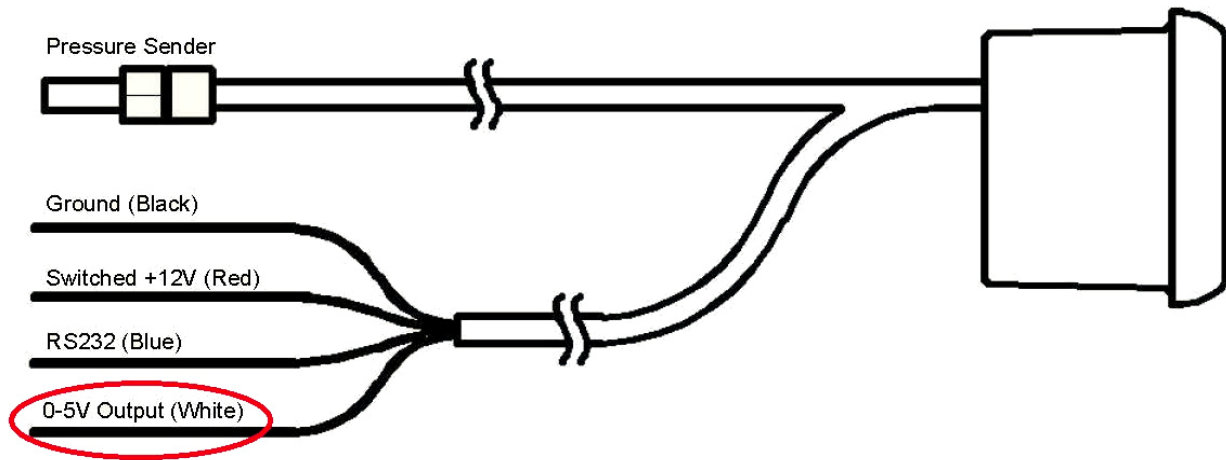
A46*6B



Boost reference signal – If you wish to use a combination of boost and injector duty cycle (P+I jumper) you will need to use a separate boost pressure sensor or tap the sensor output line of separate electromechanical boost gauge. The F56 MAP sensor output signals are from 0.1V to 0.9V whereas traditional MAP sensors output signals are from 0.5V to 4.5V. Connect the blue wire from the grey ECU harness to the 0 – 5V MAP output signal.

Example AEM Digital Boost Gauge

Sensor Installation: The AEM pressure sensor has 1/8"NPT external threads. Install the sensor into a bung with mating threads. ***Equation*:** $PSIA = 12.5 * (\text{volts}) - 6.25$ scale: .5v-4.5v = 0-50psia



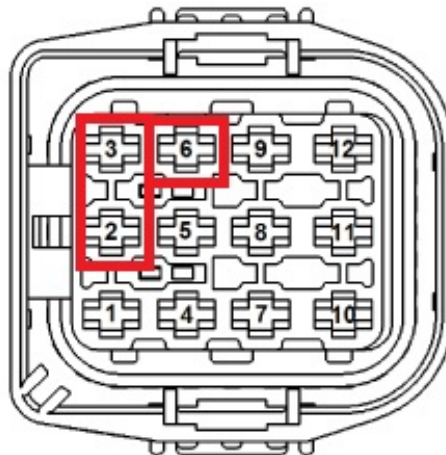
Power

A46*5B pin 2, 3 or 6 (terminal 15 wake on power) to Aquamist red POWER INPUT and red ECU connector.

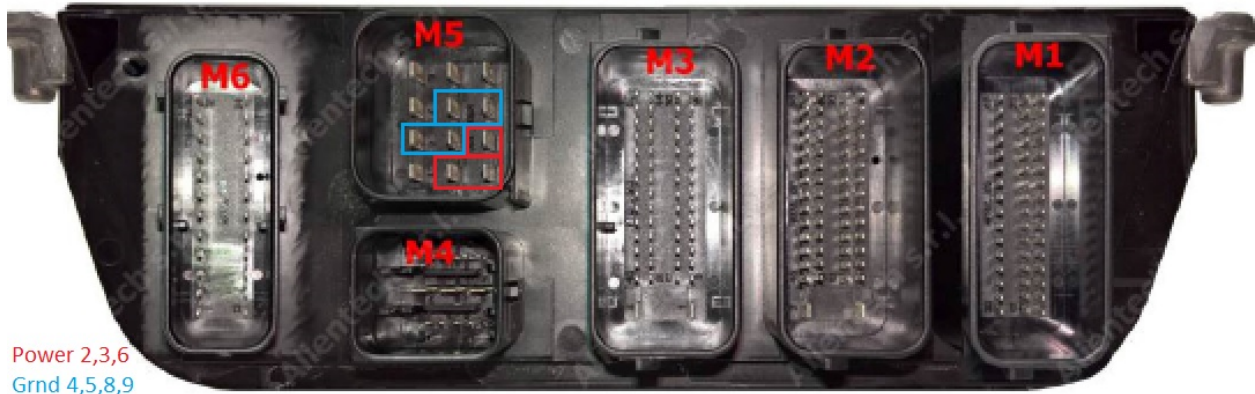
A46*5B



Pins 2, 3 & 6 Red/Green wire. Connect one to red Aquamist red POWER INPUT and red Aquamist ECU wire.



Connector M5=A46*5B in BMW Diagrams

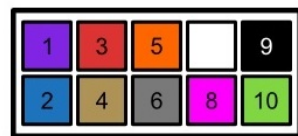


M5 = A46*5B

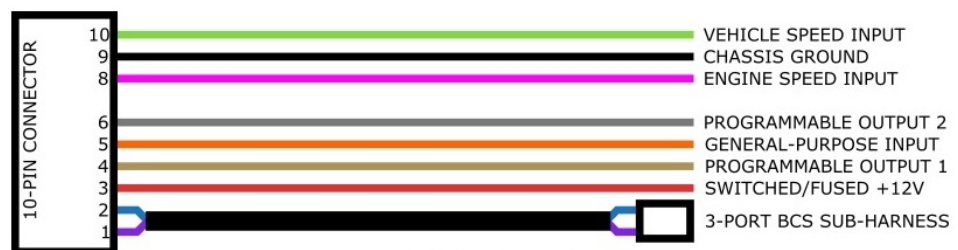
M6 = A46*6B

***** Connecting the FAILSAFE to reduce boost to spring pressure in the event of an injection system malfunction (out of meth, burst line, plugged injector) or the Aquamist is turned off. *****

For FAILSAFE operation - Cut blue wire #2 going from Cotex EBC to boost control solenoid. Connect the white wire from the Aquamist grey ECU plug to the side of the blue wire going to the Cortex EBC. Connect the Brown wire from the Aquamist grey ECU plug to the blue wire going to the boost solenoid.



Cortex EBC Wiring Harness Connector



Cortex EBC Wiring Harness Diagram

Signal Descriptions

PIN	COLOR	SIGNAL	TYPE	REQUIREMENTS
PIN 1	PURPLE	To BCS	Supply	Plugs into BCS connector.
PIN 2	BLUE	To BCS	Switch To Ground	Plugs into BCS connector.

MINI Cooper F56 Aquamist HSF-4 Instructions, w/Electronic Boost Controller

