Orion Coil Driver

The **_Orion Coil Driver_** is a quality high performance spark generator designed for basic coils without built-in drivers. The Mercury3 ECU can drive smart coils with built in drivers directly but you have to use the external Orion coil driver for basic coils. Orion2 can do up to 6 Basic coil drivers but in some cases, it is better to use the external coil driver with the positive drivers. This may free up more negative drivers for other tasks.

This driver comes in 2x2, 4x4 and 6x6 driver configuration. This means each driver has a trigger signal. If you have for example a 4 cylinder with 4 basic coils you will require the 4x4 driver. The Orion coil driver may be configured for wasted spark which means you use only 2 pos drivers from the ECU and double them up for 4 basic coil outputs. This is where you save on outputs required from the micro. See the wiring diagrams on these connections.

The Orion coil drivers use a normal HV Drivers that can drive the primary up to 500 Volts creating a 50 Kilo Volt output on most coils. To protect the drivers from overheating, ensure that charge times are set below the coils maximum current usually 5.5 amp. See the charge time section in the manuals.

Orion Coil Driver Specifications

Coil maximum primary voltage around 500 Volt. Current maximum around 6 to 7 Amp.

LED Indication
Yellow Trigger indication for input signal on Channel 1
Green Trigger indication for input signal on Channel 2
Red Trigger indication for input signal on Channel 3

Power required
None. Only Earth strap in engine bay.

Inputs
2, 4 or 6 Coil Drivers
6 to 16 volt On Charging, 0-1 volt Off (Discharging).

Outputs
2, 4 or 6 Trigger Outputs 7A 500V to ground

Dimensions
Size 95 x 60mm x 21mm
Weight 120g Epoxy Filled
2 x Connector Type Plastic Molex 8, 6