

Wire Colors			Software Selectable			6 Cyl 6 Coil Orion2 ECU Layout			Software Selectable			Wire Colors				
			Sim leds	Pr 3	Priority2	Priority1				Priority1	Priority2	Pr 3	Sim leds			
	<b>E24</b>	<b>E22</b>					<b>P1 - 12 Way Input</b>							<b>E22</b>	<b>E24</b>	
	Green	Green					Water Temp	7	1	Air Temp				Yellow	Yellow	
	Red	Red					Lambda	8	2	TPS				Blue	Blue	
	Red	Red					.+5 Volt Out	9	3	MAP				Blue	Blue	
	Red	Red					.+12 Volt Ign	10	4	GND				Black	Black	
	N/C	Yellow				Launch Button	TDC Sensor	11	5	TDC Power				Blue	N/C	
	Blue	Green				Crank Sensor	Crank Sensor	12	6	Crank Power				Red	Red	
								Internal		3Bar Alt Sensor	Altitude Sensor	Map Sensor				
							<b>P2 - 10 Way Output</b>							<b>E31</b>	<b>E32</b>	<b>E33</b>
<b>E33</b>	<b>E32</b>	<b>E31</b>					Coil Negative 1	6	1	Coil Negative 2	Basic Coil Drv 2		<b>N6</b>	Black/Purple	N/C	Black/Purple
Black/Red	Black/Red	Black/Red	N5			Basic Coil Drv 1	Coil Negative 3	7	2	Coil Negative 4	Basic Coil Drv 4		<b>N8</b>	Black/Orange	N/C	Black/Orange
Black/Brown	N/C	Black/Brown	N7			Basic Coil Drv 3	Negative 2	8	3	Negative 1	Inj Drv 1	GP2	<b>N1</b>	Black/White	Black/White	Black/White
Black/Yellow	Black/Yellow	Black/Yellow	N2	GP3		Inj Drv 2	Negative 4	9	4	Negative 3	Relay Out	GP1	<b>Relay</b>	Blue/Black	Blue	Blue
Green	Green	Green	RPM			RPM Out	Negative 6	10	5	Negative 5	Inj Drv 3	GP4	<b>N3</b>	Blue/Orange	Blue/Orange	Blue/Orange
Blue/White	Blue/White	Blue/White	N4	GP5		Idle Valve	<b>P3 - 8 Way Output</b>							<b>E36</b>		
		<b>E36</b>					Positive 1	5	1	Positive 2	Dual Idle	Cam 2		<b>P2</b>	Red/Yellow	
		Red/White	P1	GP6		Idle Valve	Positive 3	6	2	Positive 4	Micro Fuel		GP8	<b>P4</b>	Red/Green	
		Red/Orange	P3	GP7		Cam 1	.+12 Volt In	7	3	.+12 Volt In					Red	
		Red					Coil Negative 5	8	4	Coil Negative 6	Basic Coil Drv 6	GP10	<b>GP2</b>		Blue	
		White	GP1	GP9		Basic Coil Drv 5	<b>P4 - 4 Way Serial</b>									
							SDA	3	1	SCL						
							.+5 Volt Out	4	2	GND						
							<b>6 Way USB</b>							<b>USB</b>	<b>P05-P3</b>	
	<b>P05-P3</b>	<b>USB</b>					Tuning Pot	4	1	Dual Map Sw				N/C	Yellow	
	Green	N/C					Receive	5	2	Transmit				Green	Green	
	Yellow	Yellow					.+5 Volt Out	6	3	GND				Blue	Blue	
	Red	Red														

**Note!! Coil and Injector numbers used here are firing phases from the ECU. It is not the firing order on your engine. Refer to the drawings for Phase to firing order comparison.**

Negative 1 to 6 = Negative drivers 41 Volt 19 Amp Drivers

Positive 1 to 4 = Positive Drivers 12 Volt 6 Amp current limit drivers

Coil Negative 1 to 6 = Negative Coil Drivers for Basic Coils 500 Volt 18 Amp Drivers

Tuning Pot and Coil Driver 6 share the same Micro Connection. Selection with Jumper J6 on board

Dual Map Switch and Coil Negative 5 share the same Micro Connection. Selection with Jumper J6 on board

An optional 3 Bar map sensor can be soldered onto board. It can be used as Altitude or MAP sensor. For an internal MAP sensor you need to make a hole in the lid for the pipe to come through.

Basic Coil = Coil without driver - 0.5 to 0.9 Ohm Primary winding - Charges with earth signal and discharges with open signal

Smart Coil = Coil with Built in driver - Charges with positive signal and discharges with earth signal which is provided by the driver and a pull down resistor

If you use the 3 Bar onboard sensor for MAP then you must use a 2.5 Bar external sensor for Altitude.

Coil Phaze	Fire Order Ex. 1 5 3 6 2 4
	<b>Wasted Spark</b>
Coil Drv 1	1 - 6
Coil Drv 2	5 - 2
Coil Drv 3	3 - 4

Inject Phaze	Fire Order Ex. 1 5 3 6 2 4
	<b>Split Seq</b>
Inj Drv 1	1 - 6
Inj Drv 2	5 - 2
Inj Drv 3	3 - 4