

							2 Rotor											
Wire Colors				Software Selectable			Orion2 ECU Layout					Software Selectable				Wire Colors		
			Sim leds	Pr3	Priority2	Priority1	Pin Name			Pin Name		Priority1	Priority2	Pr3	Sim leds			
	E24 CR-Only	E22 CR+TDC						P1 - 12 Way Input									E24 CR+TDC	E24 CR-Only
	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					TDC Sensor	11	5	TDC Power						Blue	N/C	
	Blue	Green					Crank Sensor	12	6	Crank Power						Red	Red	
								Internal		3Bar Alt Sensor	Altitude Sensor	Map Sensor						
							P2 - 10 Way Output											
E33 Adv	E32 Std	E31 No Rel					P2 - 10 Way Output									E31 No Rel	E32 Std	E33 Adv
Black/Red	Black/Red	Black/Red	N5		Inj Drv P1	Basic Coil L1 Drv	Coil Negative 1	6	1	Coil Negative 2	Basic Coil T1 Drv	Inj Drv S1		N6	Black/Purple	N/C	Black/Purple	
Black/Brown	N/C	Black/Brown	N7		Inj Drv P2	Basic Coil L2 Drv	Coil Negative 3	7	2	Coil Negative 4	Basic Coil T2 Drv	Inj Drv S2		N8	Black/Orange	N/C	Black/Orange	
Black/Yellow	Black/Yellow	Black/Yellow	N2	GP4		Inj Drv S1	Negative 2	8	3	Negative 1	Inj Drv P1		GP3	N1	Black/White	Black/White	Black/White	
Green	Green	Green	RPM			RPM Out	Negative 4	9	4	Negative 3	Relay Out			Relay	Blue/Black	Blue	Blue	
Blue/White	Blue/White	Blue/White	N4	GP2	Idle Valve	Inj Drv S2	Negative 6	10	5	Negative 5	Inj Drv P2	Dual Idle	GP1	N3	Blue/Orange	Blue/Orange	Blue/Orange	
							P3 - 8 Way Output											
		E36					P3 - 8 Way Output									E36		
		Red/White	P1	GP5	Idle Vlave	Smart Coil L1 Drv	Positive 1	5	1	Positive 2	Smart Coil T1 Drv	Dual Idle	GP6	P2	Red/Yellow			
		Red/Orange	P3	GP7		Smart Coil L2 Drv	Positive 3	6	2	Positive 4	Smart Coil T2 Drv		GP8	P4	Red/Green			
		Red					.+12 Volt In	7	3	.+12 Volt In					Red			
		White	GP1	GP9		Anti-Lag	Coil Negative 5	8	4	Coil Negative 6			GP10	GP2	Blue			
							P4 - 4 Way Serial											
							SDA	3	1	SCL								
							.+5 Volt Out	4	2	GND								
							6 Way USB											
	P05-P3	USB					6 Way USB									USB	P05-P3	
	Green	N/C					Tuning Pot	4	1	Dual Map Sw					N/C	Yellow		
	Yellow	Yellow					Receive	5	2	Transmit					Green	Green		
	Red	Red					.+5 Volt Out	6	3	GND					Blue	Blue		

**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.