

Wire Colors			Software Selectable			4 Cyl 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							E31 No Rel	E32 Std	E33 Adv	
E33 Adv	E32 Std	E31 No Rel	N5		Inj Drv 1	Basic Coil Drv 1	Coil Negative 1	6	1	Coil Negative 2	Basic Coil Drv 2	Inj Drv 2	N6	Black/Purple	N/C	Black/Purple	
Black/Red	Black/Red	Black/Red	N7	GP5	Inj Drv 3	Basic Coil Drv 3	Coil Negative 3	7	2	Coil Negative 4	Basic Coil Drv 4	Inj Drv 4	GP6	N8	Black/Orange	N/C	Black/Orange
Black/Brown	N/C	Black/Brown	N2	GP4	Cam 1	Inj Drv 2	Negative 2	8	3	Negative 1	Inj Drv 1	Cam 2	GP3	N1	Black/White	Black/White	Black/White
Black/Yellow	Black/Yellow	Black/Yellow	RPM			RPM Out	Negative 4	9	4	Negative 3	Relay Out			Relay	Blue/Black	Blue	Blue
Green	Green	Green	N4	GP2	Idle Valve	Inj Drv 4	Negative 6	10	5	Negative 5	Inj Drv 3	Dual Idle	GP1	N3	Blue/Orange	Blue/Orange	Blue/Orange
Blue/White	Blue/White	Blue/White					P3 - 8 Way Output							E36			
		E36	P1		Idle Valve	Smart Coil Drv 1 T	Positive 1	5	1	Positive 2	Smart Coil Drv 2 T	Dual Idle	Cam 2	P2	Red/Yellow		
			P3	GP7	Cam 1	Smart Coil Drv 3 T	Positive 3	6	2	Positive 4	Smart Coil Drv 4 T	Micro Fuel	GP8	P4	Red/Green		
							.+12 Volt In	7	3	.+12 Volt In					Red		
			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								USB	P05-P3	
	P05-P3	USB					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 Phase	Fire Order Ex. 1 3 4 2	
	Full or COP	Wasted Spark
Coil Drv 1	1	1 - 4
Coil Drv 2	3	3 - 2
Coil Drv 3	4	
Coil Drv 4	2	

Inject Phase	Fire Order Ex. 1 3 4 2	
	Full Seq	Split Seq
Inj Drv 1	1	1 - 4
Inj Drv 2	3	3 - 2
Inj Drv 3	4	
Inj Drv 4	2	