

Wire Colors			Software		Orion 8Cyl Layout			Software		Wire Colors		
			Priority2	Priority1				Priority1	Priority2			
	E24	E22			P1-12 Way Input					E22	E24	
	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	
E33	E32	E31			P2-10 Way Output					E31	E32	E33
Black/Red	Black/Red	Black/Red		Coil Drv 1	Coil1	6 1	Coil2	Coil Drv 2		Black/Purple	N/C	Black/Purple
Black/Brown	N/C	Black/Brown		Coil Drv 3	Coil3	7 2	Coil4	Coil Drv 4		Black/Orange	N/C	Black/Orange
Black/Yellow	Black/Yellow	Black/Yellow		Inj Drv 2	N2	8 3	N1	Inj Drv 1		Black/White	Black/White	Black/White
Green	Green	Green		RPM Out	N4	9 4	N3	Relay Out		Blue/Black	Blue	Blue
Blue/White	Blue/White	Blue/White		Inj Drv 4	N6	10 5	N5	Inj Drv 3		Blue/Orange	Blue/Orange	Blue/Orange
		E36			P3-8 Way Output					E36		
		Red/White		Coil Drv 1 T	P1	5 1	P2	Coil Drv 2 T		Red/Yellow		
		Red/Orange		Coil Drv 3 T	P3	6 2	P4	Coil Drv 4 T		Red/Green		
		Red			+.12 Volt In	7 3	+.12 Volt In			Red		
		White		GP2	Coil5	8 4	Coil6	Idle Valve	GP1	Blue		
					P4-4 Way Serial							
					SDA	3 1	SCL					
					+.5 Volt Out	4 2	GND					
	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 actual firing order on your engine. Refer to the drawings for Phase to firing order comparison.

N1 to N6 = Negative 41 Volt 19V Drivers

P1 to P4 = 12 Volt 6 Amp current limit drivers

Coil1 to Coil6 = Negative 500 Volt 18 Amp Drivers

Coil 1 to 4 and P1 to P4 share the same Micro drivers.

Tuning Pot and Coil6 share the same Micro Driver. Selection with Jumper on board

Dual Map Sw and Coil5 share the same Micro Driver. Selection with Jumper on board

A 3 Bar map sensor optional to be soldered on board. Can be used as Alt or MAP sensor.

GP2 - If Idle valve is selected then GP2 move to GP4 position