

Cam Controller

Orion2 ECU Layout

Wire Colors			Software Selectable			Software Selectable			Wire Colors						
			Sim Ieds	Coil Pack	Coil Per Cylinder	Pin Name		Pin Name	Coil Per Cylinder	Coil Pack	Sim Ieds				
	E24 CR-Only	E22 CR+TDC				P1 - 12 Way Input									
	Green	Green		Water	Water	Water Temp	7	1	Air Temp				Yellow	Yellow	
	Red	Red				Lambda	8	2	TPS	TPS			Blue	Blue	
	Red	Red				.+5 Volt Out	9	3	MAP	MAP			Blue	Blue	
	Red	Red				.+12 Volt Ign	10	4	GND				Black	Black	
	N/C	Yellow		Speed	Speed	TDC Sensor	11	5	TDC Power				Blue	N/C	
	Blue	Green		RPM	RPM	Crank Sensor	12	6	Crank Power				Red	Red	
								Internal	3Bar Alt Sensor						
						P2 - 10 Way Output									
E33 Adv	E32 Std	E31 No Rel				Coil Negative 1	6	1	Coil Negative 2		NOS Sol	N6	Black/Purple	N/C	Black/Purple
Black/Red	Black/Red	Black/Red	N5	Fuel Sol		Coil Negative 3	7	2	Coil Negative 4	CAM 2 (Exhaust)	CAM 2 (Exhaust)	N8	Black/Orange	N/C	Black/Orange
Black/Brown	N/C	Black/Brown	N7	CAM 1 (Intake)	CAM 1 (Intake)	Negative 2	8	3	Negative 1	CAM 4 (Exhaust)	CAM 4 (Exhaust)	N1	Black/White	Black/White	Black/White
Black/Yellow	Black/Yellow	Black/Yellow	N2	CAM 3 (Intake)	CAM 3 (Intake)	Negative 4	9	4	Negative 3	Relay Out	Relay Out	Relay	Blue/Black	Blue	Blue
Green	Green	Green	RPM	RPM Out	RPM Out	Negative 6	10	5	Negative 5	GP1	GP1	N3	Blue/Orange	Blue/Orange	Blue/Orange
Blue/White	Blue/White	Blue/White	N4	GP2	GP2										
						P3 - 8 Way Output									
						Positive 1	5	1	Positive 2	Dual Idle	Dual Idle	P2	Red/Yellow		
				Idle Vlave	Idle Vlave	Positive 3	6	2	Positive 4	GP4	GP4	P4	Red/Green		
				GP3	GP3	.+12 Volt In	7	3	.+12 Volt In				Red		
						Coil Negative 5	8	4	Coil Negative 6			GP2	Blue		
						P4 - 4 Way Serial									
						SDA	3	1	SCL						
						.+5 Volt Out	4	2	GND						
						6 Way USB									
	P05-P3	USB				Tuning Pot	4	1	Dual Map Sw				USB	P05-P3	
	Green	N/C				Receive	5	2	Transmit				N/C	Yellow	
	Yellow	Yellow				.+5 Volt Out	6	3	GND				Green	Green	
	Red	Red											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