

High impedance injectors do not need ballast resistors																
For 1 low impedance injector using an output then 1 resistor of 4R7 per output is required																
For 2 low impedance injectors sharing an output then 1 resistor of 3R3 per output is required																
Note - Outputs are in FIRING ORDER, NOT CYLINDER NUMBER																
If stepper motor idle controls are used these pinouts will change.																
Note 1	Can use any spare PWM output - FUEL5, 6, 7, 8, 11, 12															
Note 2	Can use any spare PWM output - FUEL7, 8, 11, 12															
Note 3	Can use any spare PWM output - FUEL5, 6, 7, 8															
Note 4	Can use any spare PWM output - FUEL7, 8															
Note 5	Can use FUEL4 and single wire idle only															
	4 Injector			4 Injector			8 Injector			8 Injector			8 Injector			
	Inner semi sequential			Inner sequential			Inner semi sequential			Inner sequential			Inner sequential			
	No outer injectors			No outer injectors			Outer semi sequential			Outer semi sequential			Outer sequential			
	Cam sensor not required			Cam sensor is required			Cam sensor not required			Cam sensor is required			Cam sensor is required			
	Distributor	DIS	Coil on plug	Distributor	DIS	Coil on plug	Distributor	DIS	Coil on plug	Distributor	DIS	Coil on plug	Distributor	DIS	Coil on plug	
FUNCTION	NOTES															
Ignition Coil 1	Yellow black	Yellow black	Yellow black	Yellow black	Yellow black	Yellow black	Yellow black	Yellow black	Yellow black	Yellow black	Yellow black	Yellow black	Yellow black	Yellow black	Yellow black	
Ignition Coil 2	NA	Yellow grey	Yellow grey	NA	Yellow grey	Yellow grey	NA	Yellow grey	Yellow grey	NA	Yellow grey	Yellow grey	NA	Yellow grey	Yellow grey	
Ignition Coil 3	NA	NA	Yellow red	NA	NA	Yellow red	NA	NA	Yellow red	NA	NA	Yellow red	NA	NA	Yellow red	
Ignition Coil 4	NA	NA	Yellow orange	NA	NA	Yellow orange	NA	NA	Yellow orange	NA	NA	Yellow orange	NA	NA	Yellow orange	
Injector 1 Inner	Brown black	Brown black	Brown black	Brown black	Brown black	Brown black	Brown black	Brown black	Brown black	Brown black	Brown black	Brown black	Brown black	Brown black	Brown black	
Injector 2 Inner	Brown yellow	Brown yellow	Brown yellow	Brown yellow	Brown yellow	Brown yellow	Brown yellow	Brown yellow	Brown yellow	Brown yellow	Brown yellow	Brown yellow	Brown yellow	Brown yellow	Brown yellow	
Injector 3 Inner	Brown black	Brown black	Brown black	Brown green	Brown green	Brown green	Brown black	Brown black	Brown black	Brown green	Brown green	Brown green	Brown black	Brown black	Brown black	
Injector 4 Inner	Brown yellow	Brown yellow	Brown yellow	Brown violet	Brown violet	Brown violet	Brown yellow	Brown yellow	Brown yellow	Brown violet	Brown violet	Brown violet	Brown yellow	Brown yellow	Brown yellow	
Injector 1 Outer	NA	NA	NA	NA	NA	NA	Yellow green	Yellow green	Yellow green	Yellow green	Yellow green	Yellow green	Yellow green	Yellow green	Yellow green	
Injector 2 Outer	NA	NA	NA	NA	NA	NA	Yellow violet	Yellow violet	Yellow violet	Yellow violet	Yellow violet	Yellow violet	Yellow violet	Yellow violet	Yellow violet	
Injector 3 Outer	NA	NA	NA	NA	NA	NA	Yellow green	Yellow green	Yellow green	Yellow green	Yellow green	Yellow green	Yellow green	Yellow green	Yellow green	
Injector 4 Outer	NA	NA	NA	NA	NA	NA	Yellow violet	Yellow violet	Yellow violet	Yellow violet	Yellow violet	Yellow violet	Yellow violet	Yellow violet	Yellow violet	
Crank sensor	Black screen	Black screen	Black screen	Black screen	Black screen	Black screen	Black screen	Black screen	Black screen	Black screen	Black screen	Black screen	Black screen	Black screen	Black screen	
Cam sensor	NA	NA	NA	Red screen	Red screen	Red screen	NA	NA	NA	Red screen	Red screen	Red screen	Red screen	Red screen	Red screen	
Fuel pump	Blue white	Blue white	Blue white	Blue white	Blue white	Blue white	Blue white	Blue white	Blue white	Blue white	Blue white	Blue white	Blue white	Blue white	Blue white	
Tacho	Blue yellow	Blue yellow	Blue yellow	Blue yellow	Blue yellow	Blue yellow	Blue yellow	Blue yellow	Blue yellow	Blue yellow	Blue yellow	Blue yellow	Blue yellow	Blue yellow	Blue yellow	
Shift Light	12V out when active	Blue black	Blue black	Blue black	Blue black	Blue black	Blue black	Blue black	Blue black	Blue black	Blue black	Blue black	Blue black	Blue black	Blue black	
O2 sensor	White red	White red	White red	White red	White red	White red	White red	White red	White red	White red	White red	White red	White red	White red	White red	
Wastegate valve	Brown pink	Brown pink	See note 1	Brown pink	Brown pink	See note 2	Brown pink	Brown pink	See note 3	Brown pink	Brown pink	See note 4	Brown pink	Brown pink	See note 5	
Knock input	Grey screen	Grey screen	Grey screen	Grey screen	Grey screen	Grey screen	Grey screen	Grey screen	Grey screen	Grey screen	Grey screen	Grey screen	Grey screen	Grey screen	Grey screen	
MAP input	White yellow	White yellow	White yellow	White yellow	White yellow	White yellow	White yellow	White yellow	White yellow	White yellow	White yellow	White yellow	White yellow	White yellow	White yellow	
ALS switch input	12V IN to arm	White pink	White pink	White pink	White pink	White pink	White pink	White pink	White pink	White pink	White pink	White pink	White pink	White pink	White pink	
1 wire idle	Brown red	Brown red	Brown red	Brown red	Brown red	Brown red	Brown red	Brown red	Brown red	Brown red	Brown red	Brown red	Brown red	Brown red	Brown red	
2 wire idle	Brown red	Brown red	Brown red	Brown red	Brown red	Brown red	Brown red	Brown red	Brown red	Brown red	Brown red	Brown red	Brown red	Brown red	Brown red	
		Brown orange	Brown orange	Brown orange	Brown orange	Brown orange	Brown orange	Brown orange	Brown orange	Brown orange	Brown orange	Brown orange	Brown orange	Brown orange	Brown orange	
12V power	Via ign switch	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	
5V sensor power		Pink	Pink	Pink	Pink	Pink	Pink	Pink	Pink	Pink	Pink	Pink	Pink	Pink	Pink	
Power GND		Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	
Power GND		Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	
Sensor GND		Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	
Timing GND		A8	A8	A8	A8	A8	A8	A8	A8	A8	A8	A8	A8	A8	A8	
CTS		White violet	White violet	White violet	White violet	White violet	White violet	White violet	White violet	White violet	White violet	White violet	White violet	White violet	White violet	
ATS		White green	White green	White green	White green	White green	White green	White green	White green	White green	White green	White green	White green	White green	White green	
TPS wiper		Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	

4 Cyl Colour Codes

High impedance injectors do not need ballast resistors											
For 1 low impedance injector using an output then 1 resistor of 4R7 per output is required											
For 2 low impedance injectors sharing an output then 1 resistor of 3R3 per output is required											
Note - Outputs are in FIRING ORDER, NOT CYLINDER NUMBER											
If stepper motor idle controls are used these pinouts will change.											
If MAP is used for load on a NA engine use internal sensor to free up MAP2 input for other uses											
Note 1	Spare Outputs - [IGN4,5,6] [FUEL 4,5,6] [HS2]										
Note 2	Spare Outputs - [FUEL 4,5,6] [HS2]										
Note 3	Spare Outputs - [IGN4,5,6] [HS2]										
Note 4	Spare Outputs - [HS2]										
	6 Injector		6 Injector		12 Injector		12 Injector		12 Injector		
	Inner semi sequential		Inner sequential		Inner semi sequential		Inner sequential		Inner semi sequential		
	No outer injectors		No outer injectors		Outer semi sequential		Outer semi sequential		Outer sequential		
	Cam sensor not required		Cam sensor is required		Cam sensor not required		Cam sensor is required		Cam sensor is required		
		DIS	Coil on plug	DIS	Coil on plug	DIS	Coil on plug	DIS	Coil on plug	DIS	Coil on plug
FUNCTION	NOTES										
Ignition Coil 1		Yellow black	Yellow black	Yellow black	Yellow black	Yellow black	Yellow black	Yellow black	Not possible	Yellow black	Not possible
Ignition Coil 2		Yellow grey	Yellow grey	Yellow grey	Yellow grey	Yellow grey	Yellow grey	Yellow grey	Not possible	Yellow grey	Not possible
Ignition Coil 3		Yellow red	Yellow red	Yellow red	Yellow red	Yellow red	Yellow red	Yellow red	Not possible	Yellow red	Not possible
Ignition Coil 4		NA	Yellow orange	NA	Yellow orange	NA	Yellow orange	NA	Not possible	NA	Not possible
Ignition Coil 5		NA	Yellow green	NA	Yellow green	NA	Yellow green	NA	Not possible	NA	Not possible
Ignition Coil 6		NA	Yellow violet	NA	Yellow violet	NA	Yellow violet	NA	Not possible	NA	Not possible
Injector 1 Inner		Brown black	Brown black	Brown black	Brown black	Brown black	Brown black	Brown black	Not possible	Yellow orange	Not possible
Injector 2 Inner		Brown yellow	Brown yellow	Brown yellow	Brown yellow	Brown yellow	Brown yellow	Brown yellow	Not possible	Yellow green	Not possible
Injector 3 Inner		Brown red	Brown red	Brown red	Brown red	Brown red	Brown red	Brown red	Not possible	Yellow violet	Not possible
Injector 4 Inner		Brown black	Brown black	Brown orange	Brown orange	Brown black	Brown black	Brown orange	Not possible	Yellow orange	Not possible
Injector 5 Inner		Brown yellow	Brown yellow	Brown green	Brown green	Brown yellow	Brown yellow	Brown green	Not possible	Yellow green	Not possible
Injector 6 Inner		Brown red	Brown red	Brown violet	Brown violet	Brown red	Brown red	Brown violet	Not possible	Yellow violet	Not possible
Injector 1 Outer		NA	NA	NA	NA	Brown orange	Brown orange	Yellow orange	Not possible	Brown black	Not possible
Injector 2 Outer		NA	NA	NA	NA	Brown green	Brown green	Yellow green	Not possible	Brown yellow	Not possible
Injector 3 Outer		NA	NA	NA	NA	Brown violet	Brown violet	Yellow violet	Not possible	Brown red	Not possible
Injector 4 Outer		NA	NA	NA	NA	Brown orange	Brown orange	Yellow orange	Not possible	Brown orange	Not possible
Injector 5 Outer		NA	NA	NA	NA	Brown green	Brown green	Yellow green	Not possible	Brown green	Not possible
Injector 6 Outer		NA	NA	NA	NA	Brown violet	Brown violet	Yellow violet	Not possible	Brown violet	Not possible
Crank sensor		Black screen	Black screen	Black screen	Black screen	Black screen	Black screen	Black screen	Not possible	Black screen	Not possible
Cam sensor		NA	NA	Red screen	Red screen	NA	NA	Red screen	Not possible	Red screen	Not possible
Fuel pump		Blue white	Blue white	Blue white	Blue white	Blue white	Blue white	Blue white	Not possible	Blue white	Not possible
Tacho		Blue yellow	Blue yellow	Blue yellow	Blue yellow	Blue yellow	Blue yellow	Blue yellow	Not possible	Blue yellow	Not possible
Shift Light	12V out when active	Blue black	Blue black	Blue black	Blue black	Blue black	Blue black	Blue black	Not possible	Blue black	Not possible
O2 sensor (1)		White red	White red	White red	White red	White red	White red	White red	Not possible	White red	Not possible
O2 sensor (2)	For 'V' engines	White orange	White orange	White orange	White orange	White orange	White orange	White orange	Not possible	White orange	Not possible
SPARE OUTPUTS		See Note 1	See Note 2	See Note 3	See Note 4	See Note 3	See Note 4	See Note 4		See Note 4	
Knock input		Grey screen	Grey screen	Grey screen	Grey screen	Grey screen	Grey screen	Grey screen	Not possible	Grey screen	Not possible
MAP input		White yellow	White yellow	White yellow	White yellow	White yellow	White yellow	White yellow	Not possible	White yellow	Not possible
ALS switch input	12V IN to arm	White pink	White pink	White pink	White pink	White pink	White pink	White pink	Not possible	White pink	Not possible
1 wire idle		Brown grey	Brown grey	Brown grey	Brown grey	Brown grey	Brown grey	Brown grey	Not possible	Brown grey	Not possible
2 wire idle		Brown grey	Brown grey	Brown grey	Brown grey	Brown grey	Brown grey	Brown grey	Not possible	Brown grey	Not possible
		Brown pink	Brown pink	Brown pink	Brown pink	Brown pink	Brown pink	Brown pink	Not possible	Brown pink	Not possible
12V power	Via ign switch	Red	Red	Red	Red	Red	Red	Red	Not possible	Red	Not possible
5V sensor power		Pink	Pink	Pink	Pink	Pink	Pink	Pink	Not possible	Pink	Not possible
Power GND		Black	Black	Black	Black	Black	Black	Black	Not possible	Black	Not possible
Power GND		Black	Black	Black	Black	Black	Black	Black	Not possible	Black	Not possible
Sensor GND		Grey	Grey	Grey	Grey	Grey	Grey	Grey	Not possible	Grey	Not possible
Timing GND		A8	A8	A8	A8	A8	A8	A8	Not possible	A8	Not possible
CTS		White violet	White violet	White violet	White violet	White violet	White violet	White violet	Not possible	White violet	Not possible
ATS		White green	White green	White green	White green	White green	White green	White green	Not possible	White green	Not possible
TPS wiper		Orange	Orange	Orange	Orange	Orange	Orange	Orange	Not possible	Orange	Not possible
6 Cyl Colour Codes											

