Emerald ECU Pin outs

pin	use	function	GBS
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1	injector driver 4	Injector 2	х
2	auxiliary out 2		x
3	IACV PWM control		x
4	main relay		x
5	ignition driver 2	controls coil for Cylinder No 2 & 3	coil pack 2 & 3
6	cooling fan relay control	Supplies 0 volts for relay	out
7	oxygen sensor 1 signal input	0-1v (narrow band) input	x
8	TPS signal input	0-5v input	TPS centre terminal
9	TPS supply 5v out	5v out 100ma Max TPS or MAP sensor supply	TPS
	auxiliary in 10		x
	ignition feed	+12v supply via ignition switch	in
	tachometer signal	12v pulse out	out
	immobiliser input	immobiliser signal/ auxiliary digital input	x
	+8v out		x
	cam sync signal	only required for sequential injection	x
	air temperature signal	Air Sensor	air sensor
	auxiliary out 17		x
	oxygen sensor signal ground		x
	shift light driver		x
	fuel pump relay driver	supplies earth for fuel pump relay	Signal -
	auxiliary out 21		x
	auxiliary out 22		x
	injector driver 2	Injector 3	Injector 2 & 3
	injector driver 1	Injector 1	Injector 1 & 4
	ignition driver 1	controls coil for Cylinder No 1 & 4	coil pack 1 & 4
	injector driver 3	Injector 4	x
	auxiliary out 24		x
	ignition feed	+12v supply from main relay or common with pin 11	In
	ECU ground	chassis or battery -	out
	sensor ground	common ground for TPS coolant & air DO NOT connect to ground	TPS, air & coolant temp -
	crank sensor signal		crank sensor
	trigger sensor ground	signal ground for crank/cam sensor	crank sensor
	coolant temperature signal		coolant temp
	auxiliary in 34		X
	auxiliary in 35	0-5v input	X
36	auxiliary in /out 36	O2 heater control	x

