

# MBE SYSTEMS LTD

## 941 ECU WIRING HARNESS PIN OUT FOR 4 CYL SEQUENTIAL

12<sup>th</sup> February 1999

<u>PIN NO.</u>	<u>DESIGNATION</u>	<u>NOTES</u>
1	Not Connected	
2	Barometric Pressure	
3	Not Connected	
4	Not Connected	
5	Not Connected	
6	Gearshift Light	Switched Ground
7	Power Ground	Braid
8	Not Connected	
9	Not Connected	
10	Ignition Trim	
11	Not Connected	
12	0V Analogue	
13	Crank Sensor Signal	
14	Fault Lamp / Switch	
15	Wastegate Valve Drive	PWM
16		
17	Air Temperature Signal	
18	Manifold Pressure Signal (Boost)	
19	Ignition Drive 1	Cyls 1 & 4
20	Injector Drive A	Cyl 1

21	Not Connected	
22	Not Connected	
23	Not Connected	
24		
25	Fuel Pump Relay	Switched Ground
26	Power Ground	Braid
27	Crank Sensor Ground	
28	Boost Trim	
29	Not Connected	
30	5V Analogue	
31	N/C	
32	Camshaft Sensor Signal	
33	Tacho Signal	
34	N/C	
35	Throttle Signal	
36	Coolant Temperature Signal	
37	Not Connected	
38	Injector Drive B	Cyl 3
39	Not Connected	
40	Injector Drive D	Cyl 2
41	Radiator Fan Relay Drive	Switched Ground
42	Intercooler Spray	Switched Ground
43	Auxilliary Throttle Drive	Switched Ground
44	N/C	

45	Serial Receive	PC
46	Serial Transmit	PC / Logger
47	Fuel Trim	
48	5V Analogue	
49	0V Analogue	
50	Power Ground	Braid
51	Power Ground	Braid
52	ECU 12V Supply	Switched 12V
53	Injector Drive C	Cyl 4
54	Not Connected	
55	Ignition Drive 2	Cyls 3 & 2

## Notes :

- Crankshaft Sensor Wiring - Refer to MBE for sensor types
- Camshaft Sensor - Refer to MBE for sensor types

## Throttle Potentiometer

5V Analogue	-	???	-	ECU 30
0V Analogue	-	???	-	ECU 12
Signal	-	???	-	ECU 35

## Manifold Pressure Sensor

5V Analogue	-	Pin C	-	ECU 30
0V Analogue	-	Pin A	-	ECU 12
Signal	-	Pin B	-	ECU 18

## Coolant Temperature

Signal	-	Pin 01	-	ECU 36
0V Analogue	-	Pin 02	-	ECU 12

## Air Temperature

Signal	-	Pin 01	-	ECU 17
0V Analogue	-	Pin 02	-	ECU 49

## Mapping Plug

0V	-	Pin 01	-	ECU 07
Transmit	-	Pin 02	-	ECU 46
Receive	-	Pin 03	-	ECU 45
5V Analogue	-	Pin 04	-	ECU 48
0V Analogue	-	Pin 05	-	ECU 49
Fuel Trim	-	Pin 06	-	ECU 47
Ignition Trim	-	Pin 07	-	ECU 10
Boost Trim	-	Pin 08	-	ECU 28

## Injectors

12V Supply	-	Pin 01	-	12V
Signal	-	Pin 02	-	ECU 20, 38, 40 and 53

## Ignition Coil

12V Supply	-	???	-	12V
Ignition 1	-	???	-	ECU 19
Ignition 2	-	???	-	ECU 55

## Lambda Sensor

12V Heater	-	???	-	12V
0V Heater	-	???	-	Ground
Signal	-	???	-	ECU 21
0V Analogue	-	???	-	ECU 49

## Wastegate Valve

12V Supply	-	Pin 01	-	12V
Signal	-	Pin 02	-	ECU 15

## Oil Temperature

Signal	-	Pin 01	-	ECU 09
0V Analogue	-	Pin 02	-	ECU 49

## Oil Pressure

12V Supply	-	Pin 01	-	ECU 31
0V Analogue	-	Pin 02	-	ECU 49
Signal	-	Pin 03	-	ECU 23

## Fuel Pressure

12V Supply	-	Pin 01	-	ECU 31
0V Analogue	-	Pin 02	-	ECU 49
Signal	-	Pin 03	-	ECU 04

55 way AMP connector      963534-1