

MBE SYSTEMS LTD

941-F WIRING HARNESS PIN OUT FOR V8 Engines

14 October, 1998

Issue 4

<u>PIN NO.</u>	<u>DESIGNATION</u>	<u>NOTES</u>
1	Not Used	
2	Barometric Pressure Signal	
3	Lambda 2 Signal	
4	Fuel Pressure Signal	
5	Not Used	
6	Gearshift Light	
7	Power Ground	
8	Not Used	
9	Oil Temperature Signal	
10	Ignition Trim	
11	Not Used	
12	Analog Ground	
13	Crank Signal	
14	Fault Lamp	
15	Wastegate Valve Drive	
16	Not Used	
17	Air Temperature Signal	
18	Boost Pressure Signal	
19	Ignition Drive 3	
20	Ignition Drive 1	

21	Lambda 1 Signal
22	Not Used
23	Oil Pressure Signal
24	Not Used
25	Fuel Pump Relay
26	Power Ground
27	Crank Return
28	Boost Trim
29	Not Used
30	5V Analog
31	12V Sensor Supplies
32	Not Used
33	Tacho Signal
34	Not Used
35	Throttle Position Signal
36	Coolant Temperature Signal
37	Not Used
38	Ignition Drive 2
39	Not Used
40	Injector Drive Bank A
41	Radiator Fan Relay
42	Intercooler Spray Drive
43	Not Used
44	Not Used
45	Serial Data Receive

46	Serial Data Transmit
47	Fuel Trim
48	5V Analog
49	0V Analog
50	Power Ground
51	Power Ground
52	ECU 12V Supply
53	Injector Drive Bank B
54	Not Used
55	Ignition Drive 4

Wiring Harness Notes :

Throttle Potentiometer connections should be as follows:

Throttle Reference (ECU 30) to Throttle Pot. Supply
Throttle Signal (ECU 35) to Throttle Pot. Signal
Analogue Ground (ECU 12) to Throttle Pot. Return

Coolant Temperature Sensor connections should be as follows:

Coolant Temp Signal (ECU 36) to Coolant Temp Sensor 1 or 2
Electronics Ground (ECU 12) to Coolant Temp Sensor 2 or 1

Air Temperature Sensor Connections should be as follows:

Air Temp Signal (ECU 17) to Air Temp Sensor 1 or 2
Electronics Ground (ECU 12) to Air Temp Sensor 2 or 1

Oil Temperature Sensor Connections should be as follows:

Oil Temp Signal (ECU 09) to Oil Temp Sensor 1 or 2
Electronics Ground (ECU 12) to Oil Temp Sensor 2 or 1

Crankshaft Sensor Connections should be as follows:

60-2 Trigger wheel

Bosch (Vauxhall/Opel Astra 16V Crank Sensor)

Crankshaft Sensor Signal (sensor pin 02) to ECU 13

Crankshaft Sensor Return (sensor pin 01) to ECU 27

Crankshaft Sensor Screen (sensor pin 03) to ECU 26

60-2 Trigger Wheel

Ford (95WF-6C315-AA / 7009578)

Crankshaft Sensor Signal (sensor pin 02) to ECU 13

Crankshaft Sensor Return (sensor pin 01) to ECU 27

Boost Pressure Sensor connections should be as follows:

Boost Pressure Reference (ECU 30) to Boost Sensor C

Boost Pressure Signal (ECU 18) to Boost Sensor B

Boost Pressure Return (ECU 12) to Boost Sensor A

Barometric Pressure Sensor connections should be as follows:

Baro Pressure Reference (ECU 30) to Baro Sensor C
Baro Pressure Signal (ECU 2) to Baro Sensor B
Baro Pressure Return (ECU 12) to Baro Sensor A

LSM11 Lambda Sensor 1 connections should be as follows:

Lambda Signal (ECU 21) to Lambda Sensor 02
Lambda Return (ECU 12) to Lambda Sensor 01

LSM11 Lambda Sensor 2 connections should be as follows:

Lambda Signal (ECU03) to Lambda Sensor 02
Lambda Return (ECO 12) to Lambda Sensor 01

Oil / Fuel Pressure Sensor connections should be as follows:

Pressure Signal (ECU 23/04) to Pressure Sensor Signal
Pressure Return (ECU 49) to Pressure Sensor Ground
(100 ohm resistor between ECU 23/04 and ECU 48)

Injector A connections should be as follows:

Injector Bank A Signal (ECU 40) to Injectors Bank A pins 02
Injector Bank A Supply (+12V Supply) to Injectors Bank A pin 01

Injector B connections should be as follows:

Injector Bank B Signal (ECU 53) to Injectors Bank B pins 02
Injector Bank B Supply (+12V Supply) to Injectors Bank B pin 01

Wastegate Valve should be wired as follows:

Connect +12V Supply to + marked on valve
Connect Wastegate Signal (ECU 15) to other connection

Ignition Coils connections should be as follows:

Ignition Firing Order

941 Pin #

Pin 19

Pin 55

Pin 20

Pin 38