



**941-E WIRING HARNESS PIN OUT FOR Grouped InLine 4
Cylinder Engines 941xA350 or later**

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<u>PIN NO.</u>	<u>DESIGNATION</u>	<u>NOTES</u>
1	No Connect	
2	Barometric Pressure Signal Input	
3	Lambda 2 Signal Input	No Connect
4	Fuel Pressure Signal Input	
5	Afterburn Air bypass Valve Output	
6	Shift Light Output	
7	Power Ground	
8	Cam Sensor Return	
9	Oil Temperature Signal Input	
10	Ignition Trim Signal Input	
11	No Connect	
12	Analog Ground	
13	Crank Signal Input	
14	Fault Lamp Input & Output	
15	Wastegate Control Valve Drive Output	
16	PowerShift Input	
17	Air Temperature Signal Input	
18	Boost Signal or GearBox Oil T	
19	Ignition Drive 1	Cyl # 1
20	No Connection	
21	Lambda 1 Signal Input	
22	Gear Position Signal Input or Water Pressure Signal Input	
23	Oil Pressure Signal INput	
24	Afterburn Actuator Output	
25	Fuel Pump Relay Output	
26	Power Ground	
27	Crank Return	
28	Boost Trim Signal Input	
29	Not Used	
30	5V Analog Output	
31	10V Sensor Supply Output	
32	Cam Sensor Input	
33	Tacho Signal Output	
34	No Connect	
35	Throttle Position Signal Input	
36	Coolant Temperature Signal Input	
37	Ignition Drive 4	Cyl # 4

38	No Connect	
39	No Connect	
40	Lower Injectors Drive	
41	Radiator Fan Relay Output	
42	Intercooler Spray Drive Output	
43	Variable Intake Valve Drive Output	
44	Variable Camshaft Timing Output	
45	Serial Data Receive (RXD)	
46	Serial Data Transmit (TXD)	
47	Fuel Trim Signal Input	
48	5V Analog Output	
49	0V Analog	
50	Power Ground	
51	Power Ground	
52	ECU 12V Supply	
53	Upper Injectors Drive	
54	Ignition Drive 3	Cyl # 3
55	Ignition Drive 2	Cyl # 2

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

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 Supply (ECU 31) to Pressure Sensor Supply
Pressure Signal (ECU 04 and ECU 23) to Pressure Sensor Signal
Pressure Return (ECU 49) to Pressure Sensor Ground

Injector Connections to be as follows:

Injector Signal (ECU 40) to Lower Injectors pin 02
Injector Signal (ECU 53) to Upper Injectors pin 02
Injector Supply (+12V Supply) to Injectors pin 01

Wastegate Valve to be as follows:

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

Ignition Coils connections to be as follows:

Refer to MBE personnel for further information