



## powercontrol technologies

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### 941 ECU WIRING HARNESS BMW Inline 6 Cylinder

Issue Date: 04 09 2000

<u>PIN NO.</u>	<u>DESIGNATION</u>	<u>NOTES</u>
1	Not Connected	
2	Barometric Pressure Signal	
3	Not Connected	
4	Not Connected	
5	Not Connected	
6	Shift Light Output	Switched Ground
7	Power Ground	
8	Not Connected	
9	Oil Temperature Signal	
10	Ignition Trim	Mapping Plug 07
11	Not Connected	
12	Analogue Ground	Mapping Plug 05
13	Crankshaft Sensor Signal	
14	Fault Lamp / Switch	Switched Ground
15	Not Connected	
16	Not Connected	
17	Air Temperature Signal	
18	Not Connected	
19	Ignition Drive 1	Cylinders #1 and #6
20	Ignition Drive 2	Cylinders #5 and #2
21	Lambda Signal	
22	Gear Position Signal	
23	Oil Pressure Signal	
24	Not Connected	
25	Fuel Pump Relay	Switched Ground
26	Power Ground	
27	Crankshaft Sensor Return	
28	Boost Trim Signal	Mapping 08
29	Not Connected	
30	5V Analogue	Mapping 04
31	Not Connected	
32	Not Connected	

33	Tachometer Signal	
34	Not Connected	
35	TPS Signal	
36	Coolant Temperature Signal	
37	Not Connected	
38	Not Connected	
39	Not Connected	
40	Injector Drive	All Injectors Pin 02
41	Radiator Fan Relay	Switched Ground
42	Not Connected	
43	Not Connected	
44	Not Connected	
45	Serial Receive	Mapping 03
46	Serial Transmit	Mapping 02
47	Fuel Trim	Mapping 06
48	5V Analogue	TPS, Baro
49	0V Analogue	TPS, Baro, Air T Coolant T, Oil P Oil T
50	Power Ground	
51	Power Ground	
52	ECU 12V Supply	Switched 12V Supply
53	Not Connected	
54	Not Connected	
55	Ignition Drive 3	Cylinders #3 and #4

## **Wiring Harness Notes :**

### Crankshaft Sensor connections to be as follows:

(2 core screened cable to be used)

#### Connector: 3 way Minitimer

Pin 01	=	Return	=	ECU 27
Pin 02	=	Signal	=	ECU 13
Pin 03	=	Screen	=	Ground

#### Connector: 2 way Minitimer

Pin 01	=	Return	=	ECU 27
Pin 02	=	Signal	=	ECU 13

### Throttle Potentiometer connections should be as follows:

TPS Supply	=	5V	=	ECU 48
TPS 0V	=	0V	=	ECU 49
TPS Signal	=	Sig	=	ECU 35

### Coolant Temperature Sensor connections should be as follows:

#### Connector: 2 way Minitimer

Pin 01	=	Sig	=	ECU 36
Pin 02	=	0V	=	ECU 49

### Air Temperature Sensor Connections should be as follows:

#### Connector: 2 way Minitimer

Pin 01	=	Sig	=	ECU 17
Pin 02	=	0V	=	ECU 49

### Barometric Pressure Sensor connections should be as follows:

#### Connector: 3 way Packard

Pin A	=	0V	=	ECU 49
Pin B	=	Sig	=	ECU 02
Pin C	=	5V	=	ECU 48

All Injector Connections to be as follows:

Connector: 2 way Minitimer

Pin 01 = 12V

Pin 02 = Sig = ECU 40

Ignition Coil connections to be as follows:

TBA

Mapping Plug connections to be as follows:

Connector: 10 way Female SureSeal

Pin 01 = 0V = ECU 07

Pin 02 = TX = ECU 46

Pin 03 = RX = ECU 45

Pin 04 = 5V = ECU 30

Pin 05 = 0V = ECU 12

Pin 06 = FT = ECU 47

Pin 07 = IT = ECU 10

Pin 08 = BT = ECU 28