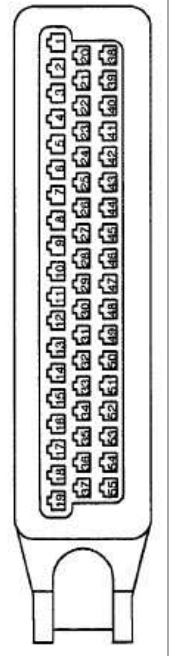


7	AFM input - pin 2	26	AFM common- ground pin 4	44	AFM air inlet temp- pin 1
8	Cylinder ID sensor input	27	Start input- to ignition switch and coil	45	Coolant Temp input
9		28	O2 input	46	
10	O2 sensor ground	29		47	Engine speed input
11		30		48	Engine speed input
12	AFM reference output- pin 3	31	Cylinder ID sensor input	49	
13	RXO - diagnostic plug	32	Econometer	50	
14	Ground	33		51	
15	Check engine light - to cluster	34		52	Closed throttle input - pin 1
16	Injectors 1,3,5	35		53	WOT input - pin 3 Note: TPS pin 2 is ground
17	Injectors 2,4,6	36	Main relay	54	
18	Power input main relay	37	Power input - to main relay	55	TXD - diagnostic plug
19	Ground				



Motronic 1.3

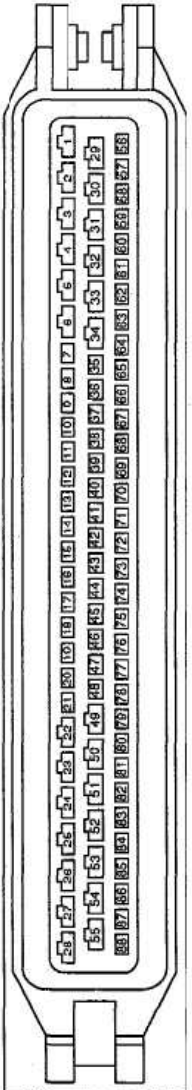
Motronic 1.3 uses the same engine loom as Motronic 1.1, and therefore the 55-pin plug remains the same. However, the small differences that crept into production during the lifetime of Motronic 1.3 mean that a few extra wires are in place, to control features such as ABS.

Pin	Colour	Function	Pin	Colour	Function	Pin	Colour	Function	Image
1	BK	Timing Control - to coil and O2 sensor	20			38		ABS and OBC cutoff for Injectors	
2	BR	Ground	21			39	GN/BU	Programming voltage - Diagnostic Plug	
3	BR/GN	Fuel pump relay control	22	WT/GN	Idle speed Close control	40	BK/GY	A/C low pressure cutoff	
4	WT/YL	Idle speed control	23	BR/GR	O2 sensor heater	41	VI/GY	A/C On input	
5	BR	Evaporative purge valve	24	BR	Ground	42	RD/BU	Park/ neutral input (auto only)	
6	BK	Tachometer	25			43			
7	GY/YL	AFM input - pin 2	26	GY/BU	AFM common- ground pin 4	44	GY/VI	AFM air inlet temp- pin 1	
8	BL	Cylinder ID sensor input	27	GN	Start input- to ignition switch and coil from OBC	45	BR/RD	Coolant Temp input	
9			28	BK	O2 input	46			
10	YL	O2 sensor ground	29	BK/WT	Vehicle Speed input from instrument cluster	47	BL	Engine speed input	
11			30			48	YL	Engine speed input	
12	GY/WT	AFM reference output- pin 3	31	YL	Cylinder ID sensor input	49			
13	WT/YL	RXO - diagnostic plug	32	WT/BL	Econometer	50		ABS Deceleration Fuel Cut-Off Override	
14	BR	Injector Ground	33			51		Auto Kick-Down Switch input	
15	GY	Check engine light - to cluster	34			52	BR/BL	Closed throttle input - pin 1	
16	BR/WT	Injectors 1,3,5	35			53	BR/BL	WOT input - pin 3 Note: TPS pin 2 is ground	
17	BR/YL	Injectors 2,4,6	36	BR	Main relay output	54		Automatic Transmission Torque Converter Lock-up Switch	

18	RD	Constant 12V from Battery	37	RD/BU	Switched power from main relay	55	WT/VI	TXD - diagnostic plug
19	BR/OR	Main Ground						

Motronic 1.7

The Motronic 1.7 system was exclusive to the 318iS before being fitted to the E36. For all you 16Vers, this table was taken from the E36 handbook; hopefully it will prove to be applicable to the E30 as well.

Pin	Function	Pin	Function	Pin	Function	Image
1	Fuel pump relay output	29	ICV output	56	Ignition switch input	
2		30		57-58		
3	Injectors 2 and 4	31		59	TPS and VAF 5V reference	
4		32	Injectors 1 and 3	60	Data link connector input	
5		33		61-63		
6	Injector ground	34	Ground	64	Transmission control input (EGS)	
7		35		65	Automatic transmission range switch	
8	Check engine light	36	Evaporative purge valve	66		
9		37	O2 Sensor heater	67	Crank Position Sensor input	
10		38		68	Crank Position Sensor output	
11	Transmission control input (EGS) - DKV sensor	39		69		
12	TPS input	40		70	O2 Sensor input	
13		41	Volume Air Flow sensor input	71	O2 Sensor ground	
14	Volume Air Flow sensor input	42	Cylinders 3-4 knock sensor input	72		
15	Cylinders 1-2 knock sensor input	43	Ground for temp, knock and throttle sensors	73	Vehicle Speed output	
16	Cylinder ID sensor input	44	Cylinder ID sensor input	74	Crankshaft Speed signal TD	
17	Fuel consumption for Instruments	45		75		
18	Intake air resonance takeover valve	46		76	Volume Air Flow sensor input	
19		47		77	Volume Air Flow sensor input	
20		48	A/C compressor cutout	78	Coolant Temp input	
21		49		79-80		
22		50		81	OBC code protection	
23		51	Cylinder 4 Ignition Coil	82-84		
24	Cylinder 3 Ignition Coil	52	Cylinder 2 Ignition Coil	85	A/C pressure switch input	
25	Cylinder 1 Ignition Coil	53		86	A/C switch	
26	Battery Voltage input	54	Engine control relay output pin 87a	87	Data Link Connector RxD	
27	Engine control relay output pin 85	55	Ignition Ground	88	Data Link Connector TxD	
28	Ground					

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