

## Parts list for MERG DCC Programmer

All parts are available from Rapid Electronics at very reasonable prices. This list gives the Rapid part number and their current cost (to Sept 1999) Postage is free on orders over £30 else £2.50. Phone 01206 751166. Equivalent parts can be obtained from other suppliers but seem to be more expensive.

	Rapid No.	Qty	Price (ex VAT)
Painted aluminium box (155 x 105 x 45 mm)	30-0325	1	3.50
Keypad (4 x 3)	78-0305	1	2.40
Push-buttons	78-0150	4	1.28
Sounder	35-0115	1	0.65
PIC 16F84-04/P	73-2424	1	3.45
LM317T regulator	LM317T	1	0.35
Transformer 2 x 15v 6VA	88-0265	1	3.30
UF4002 diodes	UF4002	4	0.36
1N4002 diodes	1N4002	5	0.25
7805 regulator	7805-STM	1	0.35
LCD display (16 x 2 STN)	57-0910	1	8.50
PCB material (single sided)	34-0205	1	1.75
2200uF 25v cap.	11-0330	1	0.32
0.1uf caps	10-0760	4	0.32
0.22uF cap	10-0770	1	0.10
10uF tantalum	11-0600	3	0.48
33uF tantalum	11-0560	1	0.22
Fuse holder (if wanted)	26-0190	1	0.36
Terminal red	17-0215	1	0.35
Terminal black	17-0225	1	0.35
IC socket 14 pin	22-0405	1	0.24
IC socket 18 pin	22-0415	1	0.30
IC socket 20 pin	22-0420	1	0.34
L293E IC	L293E	1	3.20
LM339 IC	LM339	1	0.25
0.47 ohm res. (3 watt)	62-0225	1	0.13
Heatsinks	36-0115	2	0.38
4 MHz resonator	90-0625	1	0.35
10K trimpot (LCD adjust)	68-0330	1	0.90
1N4148 diode	1N4148	1	0.04

Not included are the ordinary resistors. Rapid sell an excellent kit covering the range 4.7 ohms to 10Meg with sensible numbers of each based on common usage (not the same number of each like other suppliers) Rapid part for the set is 13-0200 at £7.90 (a total of 1000 resistors). Also needed will be various nuts, bolts and screws, cable, wire etc.

If you want the track voltage to be adjustable then add a 1 K pot. Most of the bits are not very critical and may exist in your 'junk box'.

For those with Autosketch 2.0 or higher, I can supply drilling and cutting masks for the box (saves marking it out) and Label artwork. Also the PCB layout in Easytrax / Autotrax form. PIC code is available (HEX dump) but I will program PICs if anyone sends me a blank (+SAE). Can also supply a Laser PCB mask (may need some touching up).

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