



**MOTM-510 The WaveWarper  
Assembly Instructions & Owner's Manual**

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# MOTM-510 PARTS LIST

Please carefully check that all parts are in your kit. If you have a suspected shortage, please call or email. If you get free extra stuff, keep it for next time.

**Capacitor** bag, containing the following 17 parts:

4ea 10mfd, 50V Electrolytic	C4, C8, C16, C17
4ea 10mfd, non-polar Electrolytic	C1, C3, C5, C13
2ea 1000pf (marked 1N) yellow box cap	C12, C15
7ea 0.1mfd (marked 104) ceramic axial	C2, C6, C7, C9-11, C14

**Resistor** bag, containing the following 33 parts:

11ea 10K (brown, black, orange)	R4, R5, R7, R11, R12, R14, R18, R19, R21, R26, R27
7ea 68K (green, gray, orange)	R3, R6, R10, R13, R17, R20, R24
6ea 20K (red, black, orange)	R1, R2, R8, R9, R15, R16
2ea 12K (brown, red, orange)	R30, R31
2ea 1K (brown, black, red)	R25, R32
2ea 10 ohm (brown, black, black)	R33, R34
1ea 22 ohm (red, red, black)	R23
1ea 30K (orange, black, orange)	R28
1ea 39K (orange, white, orange)	R29

**NOTE: R22 is not used.**

**IC & Semi** bag, containing the following 5 parts:

4ea TL072ACP dual opamp	U1, U2, U3, U5
1ea AD538 really expensive analog IC	U4
1ea 1N4148 diode	D1

**Misc #1** bag, containing the following 6 parts:

2ea Axial ferrite beads (plain, gray things )	L1, L2
1ea MTA-156 4-pin power connector	JP1
1ea MTA-100, 7-pin connector	JP2
1ea custom rotary switch assembly	plugs into JP2
1ea 18-pin screw machine IC socket	for U4

**Knobs**, containing

7ea TYCO PKES90B1/4	for pots
1ea TYCO AMP2-1437624-0	for rotary switch

- Jacks**, containing  
8ea Switchcraft 112A
- Pots**, 7ea containing the following:
 

1ea 100 ohm Spectrol 148-71101	VR4
3ea 100K Spectrol 149-71104	VR1-3
3ea 100K Bourns conductive plastic	VR5-7
- Front panel**
- Mounting bracket**
- Wire bag**, containing the following 12 wires:
  - 5ea RG-174 coax, 4 ½ inches
  - 2ea red/black 22ga. 3in.
  - 2ea orange/gray/white 22ga. 4 ½ in.
  - 1ea orange/white 22ga. 5in.
  - 1ea red/black/white 22ga. 7in.
  - 1ea Power Cable, 20"
- Hardware bag**, containing:
  - 4ea #8-32 x 3/8 black screws (for mounting module to rack)
  - 4ea #6-32 x 1/2 zinc screws (for attaching pc board to bracket)
  - 4ea 1/4 inch aluminum spacers
  - 6ea #6 KEPS nuts
  - 7ea small tie-wraps
- Organic Solder**
- No-clean Solder**
- PC Board**, MOTM-510