



**synthesis
technology**

**MOTM-390 μ LFO
Assembly Instructions & Owner's Manual**

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August 13, 2002

MOTM-390 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 9 parts:

2ea 10mf, 50V Electrolytic	C1, C2
1ea 220nf film (reddish-brown, marked 224) cap	C7
1ea 100nf film (reddish-brown, marked 104) cap	C8
5ea 0.1mfd (marked 104) ceramic axial	C3 – C6, C9

Resistor bag, containing the following 37 parts (5%, 1/4W):

6ea 1K (brown, black, red)	R15, R23, R29, R32, R34, R35
5ea 220K (red, red, yellow)	R1, R5, R12, R21, R28
5ea 100K (brown, black, yellow)	R7, R10, R20, R27, R33
4ea 20K (red, black, orange)	R3, R22, R31, R37
3ea 39K (orange, white, orange)	R8, R13, R14
2ea 2K7 (red, violet, red)	R17, R24
2ea 56K (green, blue, orange)	R18, R25
2ea 330 Ω (orange, orange, brown)	R19, R26
2ea 10K (brown, black, orange)	R30, R36
1ea 6K8 (blue, gray, orange)	R2
1ea 3K9 (orange, white, red)	R4
1ea 8K2 (gray, red, red)	R6
1ea 4K7 (yellow, violet, red)	R9
1ea 82 Ω (gray, red, black)	R11
1ea 62K (blue, red, orange)	R16

IC bag, containing the following 10 parts:

2ea TL074ACN quad op amp	U1, U2
1ea NE5517 dual OTA	U3
1ea 78L05ACZ +5V regulator	U4
2ea BC550C NPN transistor	Q3, Q5
4ea BC560C PNP transistor	Q1, Q2, Q4, Q6

- Misc #1 bag, containing the following 5 parts:**
 - 2ea Axial ferrite beads (plain, gray things)L1, L2
 - 1ea MTA-156 power connector JP1
 - 2ea Red LED, panel mount D1, D2
- Knobs, 3ea, ALCO PKES90B1/4**
- Jacks, 6ea Switchcraft 112A**
- Pots, 3ea containing the following:**
 - 1ea 100K log cond. plastic Spectrol 148 VR1
 - 2ea 100K cermet Spectrol 149 VR2, VR3
- Front panel**
- Mounting bracket**
- Wire bag, containing the following 9 wires:**
 - 4ea RG-174 coax, 4 ½ inches
 - 1ea RG-174 coax, 7 inches
 - 3ea 2-wire set, 22ga, 3 ½ inches (red/black)
 - 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
 - 4ea #6 KEPS nuts
 - 4ea small heat-shrink tubing
 - 6ea small tie-wraps
- Organic Solder**
- No-clean Solder**
- PC Board, MOTM-390**