

Flesher Corporation

LO-TONE MANUAL

900 081

LO - TONE KIT

ASSEMBLY INSTRUCTIONS

The following instructions are for assembling the AFSK and Filter boards as a low tone set of boards. **Flesher Corporation does not recommend these changes to be attempted on an already assembled board.** These boards are through-hole plated and damage to the board may result without proper shop desoldering equipment. Therefore, we recommend these components to be placed on boards being assembled for the first time. It is important that the following instructions be followed closely to assure your operating pleasure. Refer to OPERATORS MANUAL for alignment after assembly.

Refer to page 1 of the UNIVERSAL FILTER assembly instruction booklet and make the following changes.

- () On all instructions that say "SEE CHART", refer to resistance chart supplied with this set of instructions.
- () R8 and R12 should say "SEE CHART" and refer to resistance chart supplied with this set of instructions.

Refer to page 3 of the UNIVERSAL FILTER assembly instruction booklet and make the following changes.

- () Capacitors C1 through C8 should be marked .01uf mylar (2A103JT).

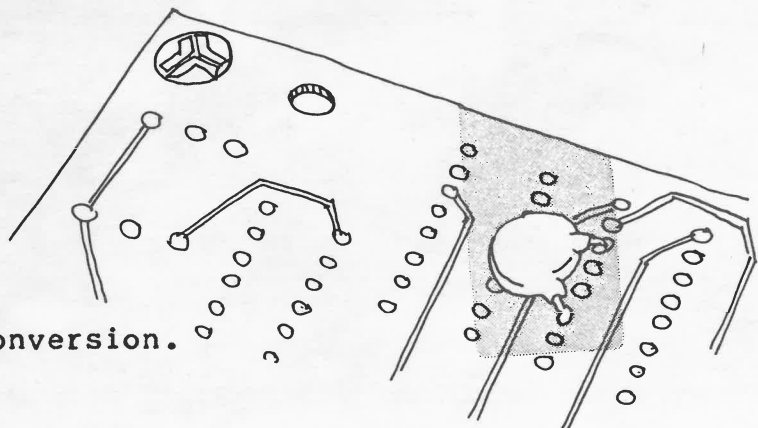
Refer to page 2 of the AFSK assembly instruction booklet and make the following changes.

- () The crystal to be installed will be the one supplied with this kit (3.6685 Mhz).
- () Capacitor C3 is changed to .33uf mylar (23AK433).

Refer to page 3 of the AFSK assembly instruction booklet and make the following changes.

- () Capacitor C4 is changed to .0015uf mylar (23BK215).

AFTER COMPLETING the AFSK board kit, a 50pf disc capacitor must be installed on the SOLDER SIDE of the AFSK board as shown below. Cut leads as short as possible to reach between pins 11 and 14 of IC 3 and solder.



This completes the LO-TONE conversion.

L O - T O N E K I T P A R T S L I S T

<u>P.N.</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
140 371	Crystal, 3.6685 Mhz	(1)
110 171	Capacitor, .0015uf Mylar (23BK215)	(1)
110 245	" " .33uf Mylar (23AK433)	(1)
110 130	" " 50pf disc	(1)
110 198	" " .01uf Mylar (2A103JT)	(20)
100 630	Resistor, 150 ohms, 5%, 1/4W (BRN-GRN-BRN)	(3)
100 730	" " 390 " " " (ORG-WHT-BRN)	(6)
101 245	" " 51K " " " (GRN-BRN-ORG)	(1)
101 250	" " 56K " " " (GRN-BLU-ORG)	(2)
101 370	" " 180K " " " (BRN-GRY-YEL)	(3)
101 380	" " 200K " " " (RED-BLK-YEL)	(3)
101 100	" " 13K " " " (BRN-ORG-ORG)	(3)
101 210	" " 39K " " " (ORG-WHT-ORG)	(2)

If it becomes necessary to order parts from Flesher Corporation, please use part numbers as indicated on these parts list.

TU-300 UNIVERSAL FILTER RESISTANCE CHART

(LOW TONE)

FILTER	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
1275Hz	51K	NA	NA	NA	390	220K	56K	390	220K	10K	56K	390	220K	470K
1445Hz	NA	13K	13K	13K	390	200K	39K	390	200K	10K	39K	390	200K	470K
1700Hz	43K	NA	NA	NA	150	180K	43K	150	180K	10K	43K	150	180K	470K
2125Hz	68K	NA	NA	NA	620	270K	62K	620	270K	10K	62K	620	270K	470K

TU-300 UNIVERSAL FILTER FREQUENCY SELECT DIODES

