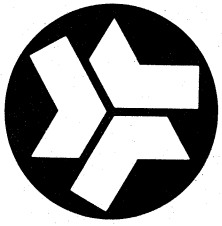


2125



# Flesher Corporation

TU-300  
UNIVERSAL FILTER BOARD

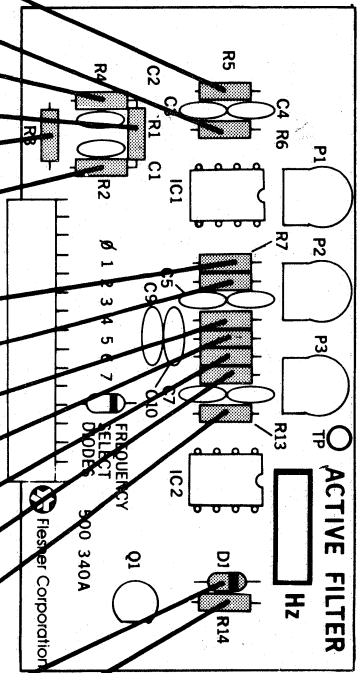
2125 KC

# TU-300 UNIVERSAL FILTER BOARD

Refer to the OPERATORS MANUAL 'PARTS LIST' for the following assembly. Certain compents will vary depending on which filter is to be assembled. Pay close attention to the assembly notes that make reference to the combination 'RESISTANCE CHART' and 'UNIVERSAL FILTER FREQUENCY SELECT DIODES' which will determine the selected frequency of the filter. To identify each filter, mark the selected frequency in the box located in the top right hand corner of the PC boards before starting the assembly.

Position the PC board as shown and install the following components.

- ✓ (✓) R5 620 ohm (BLU-RED-BRN)
- ✓ (✓) R6 SEE CHART 270K RED VIO YLW
- ✓ (✓) R4 SEE CHART NA
- ✓ (✓) R1 SEE CHART 68K BLU GRY ORG
- ✓ (✓) R3 SEE RESISTANCE CHART NA
- ✓ (✓) R2 SEE RESISTANCE CHART NA
- ✓ (✓) R7 SEE RESISTANCE CHART 62K BLU RED ORG
- ✓ (✓) R8 620 ohm (BLU-RED-BRN) X
- ✓ (✓) R9 SEE RESISTANCE CHART 270K RED VIO YLW
- ✓ (✓) R10 10K ohm (BRN-BLK-ORG) X
- ✓ (✓) R11 SEE RESISTANCE CHART 62K BLU RD ORG
- ✓ (✓) R12 620 ohm (BLU-RED-BRN) X
- ✓ (✓) R13 SEE RESISTANCE CHART 270K RD VIO YLW
- ✓ (✓) D1 1N4148 diode X
- ✓ (✓) R14 470K ohm (YEL-VIO-YEL) X



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# TU-300 UNIVERSAL FILTER BOARD

Install the following components on the Universal Filter PC board.

✓ (✓) C4 5000pf mylar capacitor

✓ (✓) C3 5000pf mylar capacitor

→ NOTE: C1 and C2 capacitors are only used on the 2295 Hz filter only.

( ) C2 5000pf mylar capacitor

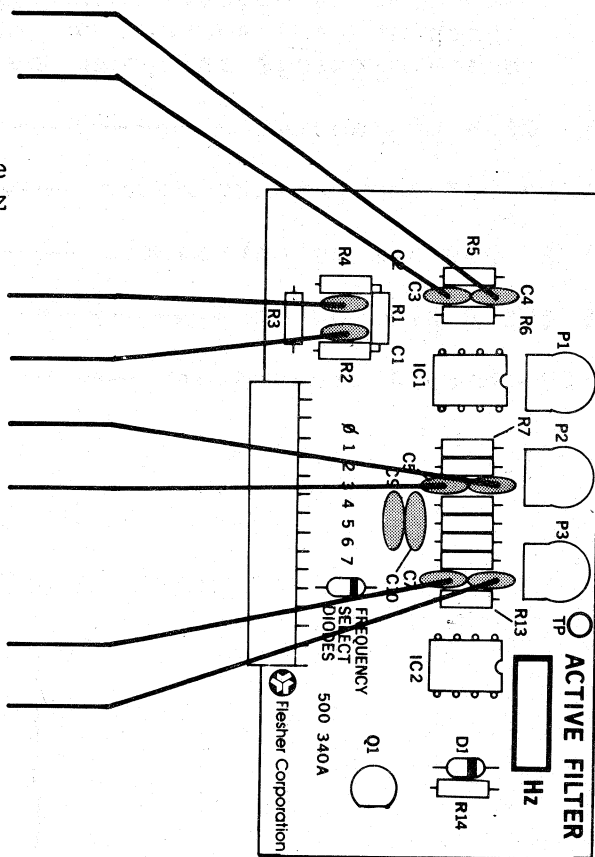
( ) C1 5000pf mylar capacitor

✓ (✓) C6 5000pf mylar capacitor

✓ (✓) C5 5000pf mylar capacitor

✓ (✓) C7 5000pf mylar capacitor

✓ (✓) C8 5000pf mylar capacitor



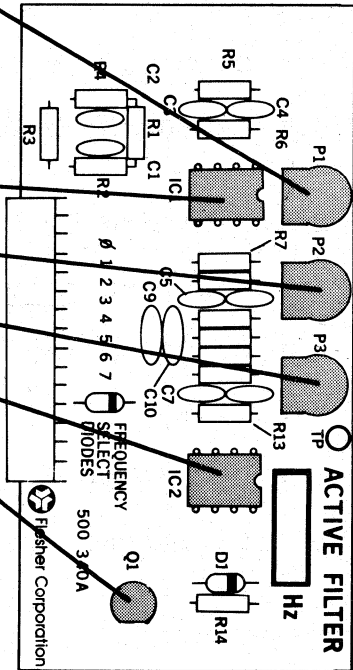
# TU-300 UNIVERSAL FILTER BOARD

Install the following components on Universal Filter PC board.

- ✓ (✓) P1 200 ohm potentiometer

NOTE: When installing the IC sockets, be sure to observe the index notch on the socket to match board markings as shown below.

- ✓ (✓) IC1 8 pin socket
- ✓ (✓) P2 200 ohm potentiometer
- ✓ (✓) P3 200 ohm potentiometer
- ✓ (✓) IC2 8 pin socket
- ✓ (✓) Q1 MPF111 transistor



# TU-300 UNIVERSAL FILTER BOARD

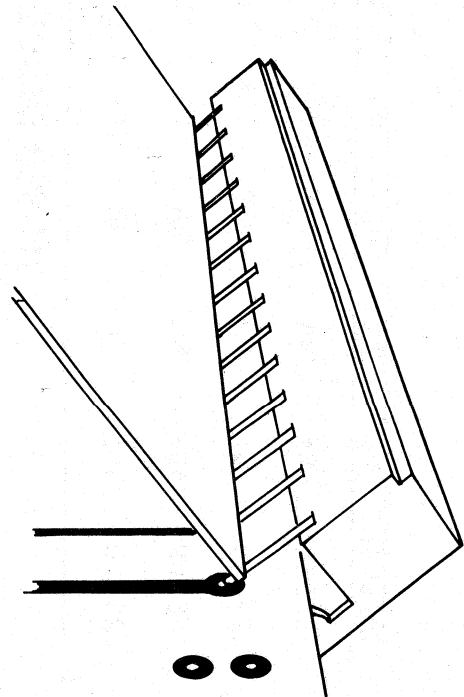
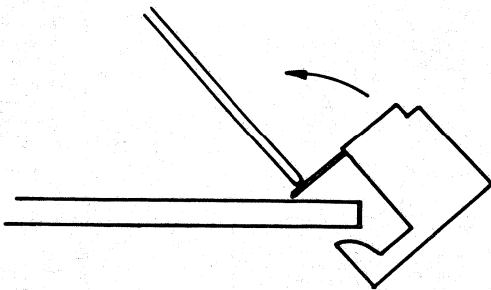
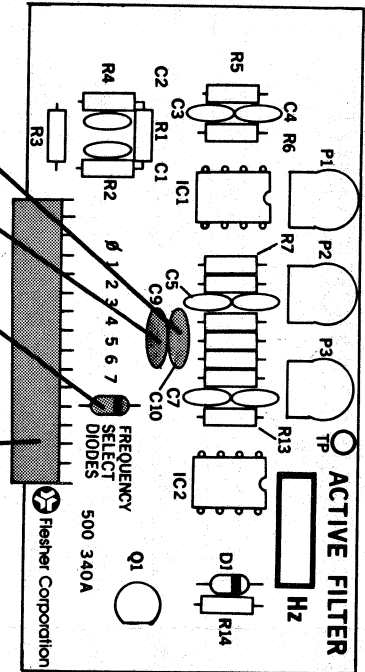
Install the following components on the Universal Filter PC board.

✓ (✓) C10 .01mfd disc capacitor

✓ (✓) C9 .01mfd disc capacitor

2 (✓) Install "FREQUENCY SELECT DIODES" (1N4148) per chart on opposite page. Install only those diodes indicated for frequency desired.

✓ (✓) Install the circuit board connector by hooking the small tabs on the ends of the connector over the bottom of the board and carefully inserting the pins in the holes. Be sure the connector is sitting flat on the circuit board when soldering the pins. A flat piece of material may be used to keep the pins lined up as the connection is installed as shown in illustration below.



## TU-300 UNIVERSAL FILTER RESISTANCE CHART

FILTER	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
2125Hz	68K	NA	NA	NA	620	270K	62K	620	270K	10K	62K	620	270K	470K
2295Hz	NA	22K	22K	22K	620	220K	33K	620	220K	10K	30K	620	220K	470K
2550Hz	43K	NA	NA	NA	620	180K	43K	620	180K	10K	43K	620	180K	470K
2975Hz	36K	NA	NA	NA	620	150K	36K	620	150K	10K	36K	620	150K	470K

## TU-300 UNIVERSAL FILTER FREQUENCY SELECT DIODES

