

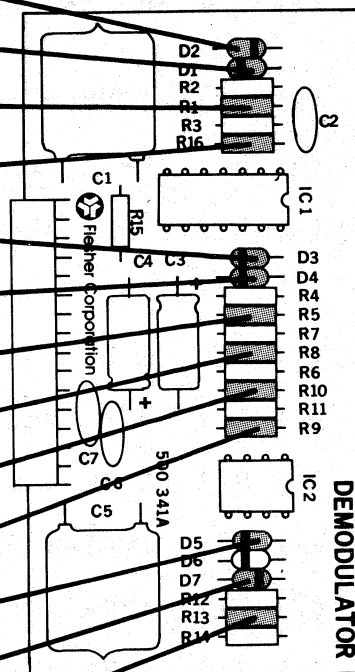
**Flesher Corporation**

**TU-300  
DEMULATOR BOARD**

# TU-300 DEMOMULATOR BOARD

Position the DEMODULATOR PC board as illustrated and refer to the OPERATORS MANUAL 'PARTS LIST' for installing the following components.

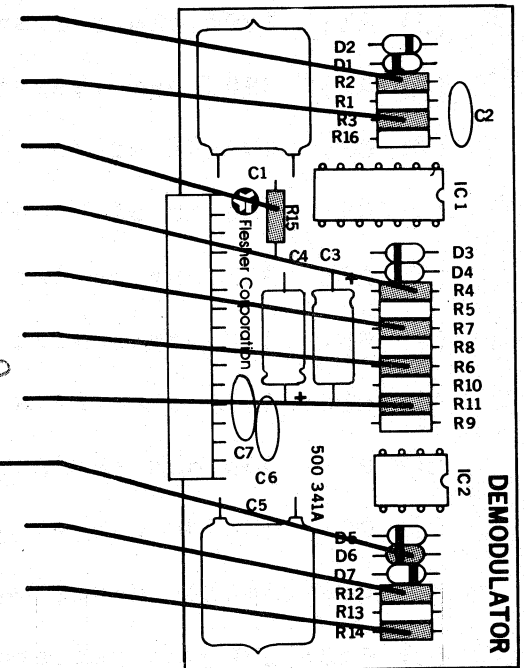
- (✓) D2: 1N4148 diode
- (✓) D1: 1N4148 diode
- (✓) R1: 100K ohm resistor (BRN-BLK-YEL)
- ( ) R16: 390K ohm resistor (ORG-WHT-YEL)
- (✓) D3: 1N4148 diode
- (✓) D4: 1N4148 diode
- (✓) R5: 33K ohm resistor (ORG-ORG-ORG)
- (✓) R8: 33K ohm resistor (ORG-ORG-ORG)
- (✓) R10: 2.2K ohm resistor (RED-RED-RED)
- (✓) R9: 33K ohm resistor (ORG-ORG-ORG)
- (✓) D5: 1N4148 diode
- (✓) D7: 1N4148 diode
- (✓) R13: 33K ohm resistor (ORG-ORG-ORG)



# TU-300 DEMODULATOR BOARD

Install the following parts on the DEMODULATOR board.

- (✓) R2: 100K ohm resistor (BRN-BLK-YEL)
- (✓) R3: 56K ohm resistor (GRN-BLU-ORG)
- (✓) R15: 15K ohm resistor (BRN-GRN-ORG)
- (✓) R4: 33K ohm resistor (ORG-ORG-ORG)
- (✓) R7: 15K ohm resistor (BRN-GRN-ORG)
- (✓) R6: 33K ohm resistor (ORG-ORG-ORG)
- (✓) R11: 2.2K ohm resistor (~~ORG-ORG-ORG~~ <sup>RED/RED/RED</sup>)
- (✓) D6: 1N4148 diode
- (✓) R12: 470K ohm resistor (YEL-VIO-YEL)
- ( ) R14: 4.7K ohm resistor (YEL-VIO-RED)



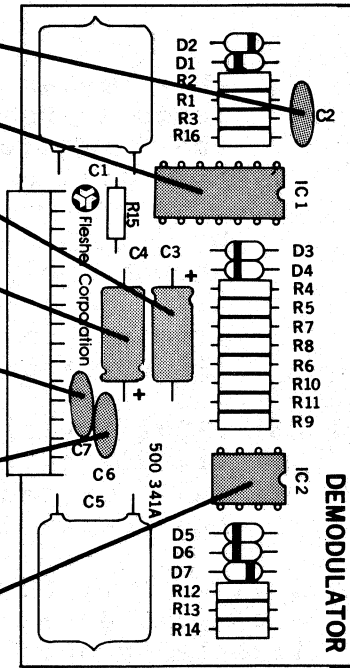
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# TU-300 DEMOMULATOR BOARD

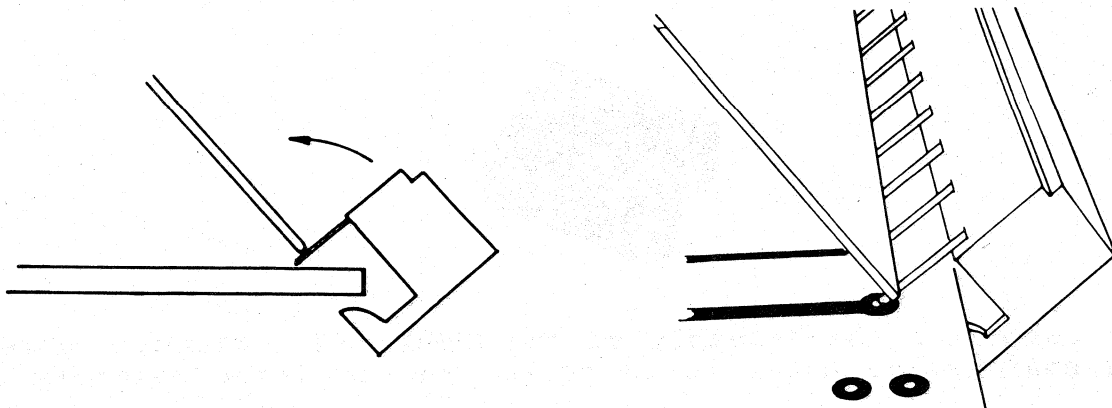
Install the following components on the DEMODULATOR board.

When installing the IC sockets, be sure to match the index marks with those on the PC board.

- (✓) C2 220pf disc capacitor
- (✓) IC1 socket, 14 pin
- (✓) C3 3.3uf electrolytic capacitor. Observe polarity.
- (✓) C4 3.3uf electrolytic capacitor. Observe polarity.
- (✓) C7 .01uf disc capacitor
- (✓) C6 .01uf disc capacitor
- (✓) IC2 socket, 8 pin



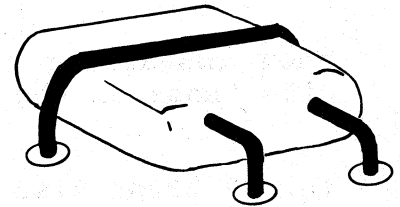
- (✓) Install the circuit board connector by hooking the small tabs on the ends of the connector over the bottom of the board and carefully inserting the pins in the holes. Be sure the connector is sitting flat on the circuit board when soldering the pins. A flat piece of material may be used to keep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



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# TU-300 DEMOMULATOR BOARD

Install the following components on the DEMODULATOR board.

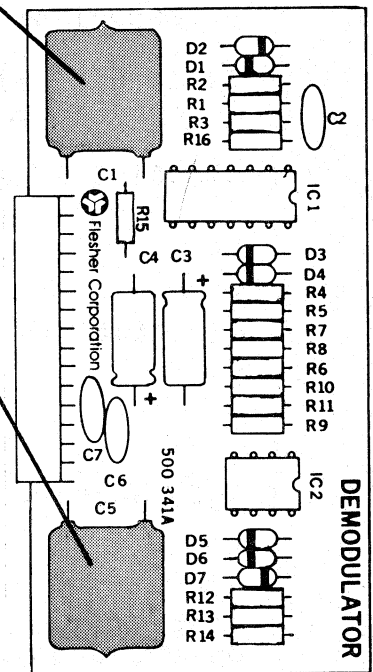
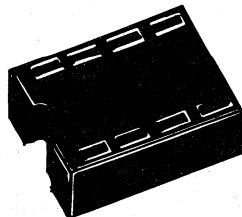
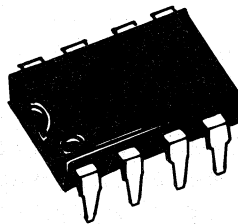


(✓) C1 .15uf mylar capacitor. Install the leads in the proper holes and bend the capacitor over to lay flat on the circuit board. Additional mounting support may be obtained by looping a small piece of wire around the capacitor and soldering the wire in the extra holes provided on the circuit board. See illustration.

(✓) C5 .22uf mylar capacitor. Install similar to C1. Use a piece of bare wire to secure the capacitor to the board. See illustration.

(✓) Install the IC's in their respective sockets. Be sure that all pins are inserted properly, not bent under, and the index marks match the sockets. See illustration.

IC1 = MC4741  
IC2 = MC1458



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This completes the assembly of the DEMODULATOR circuit board. Set this board aside until it is called for in later assembly steps.