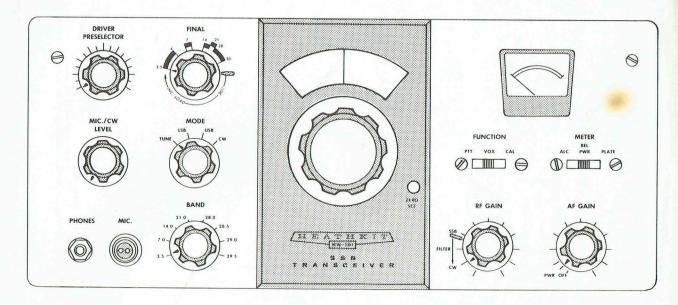


FIGURE 1-2



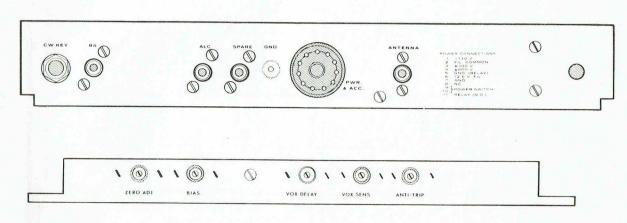
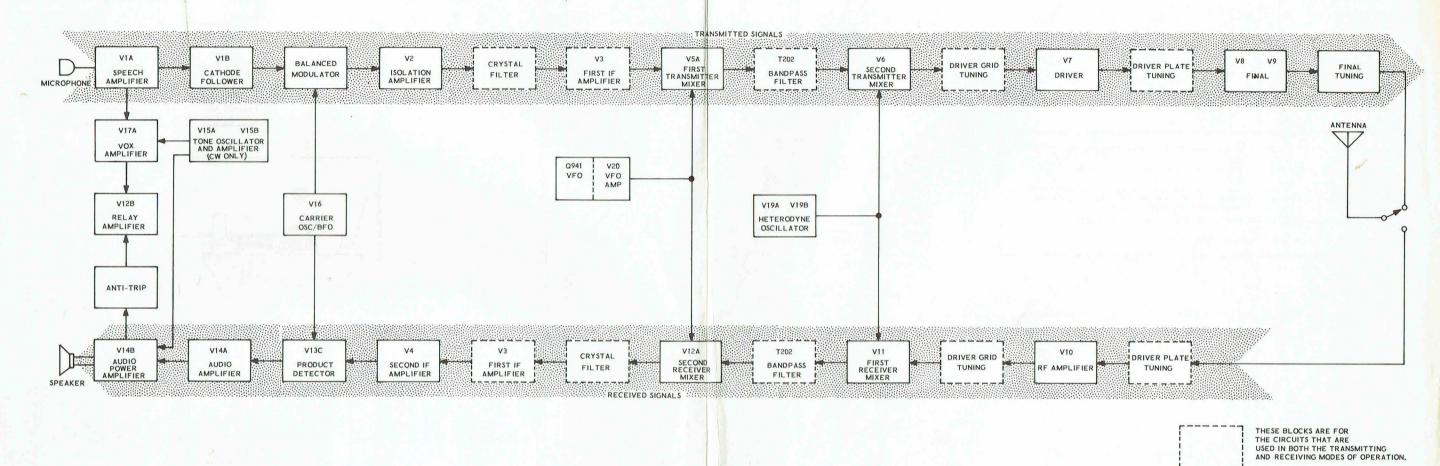
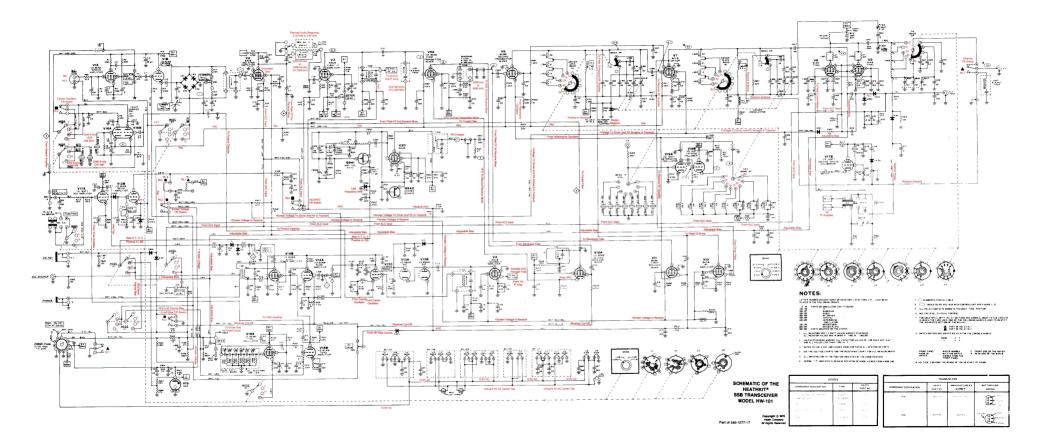
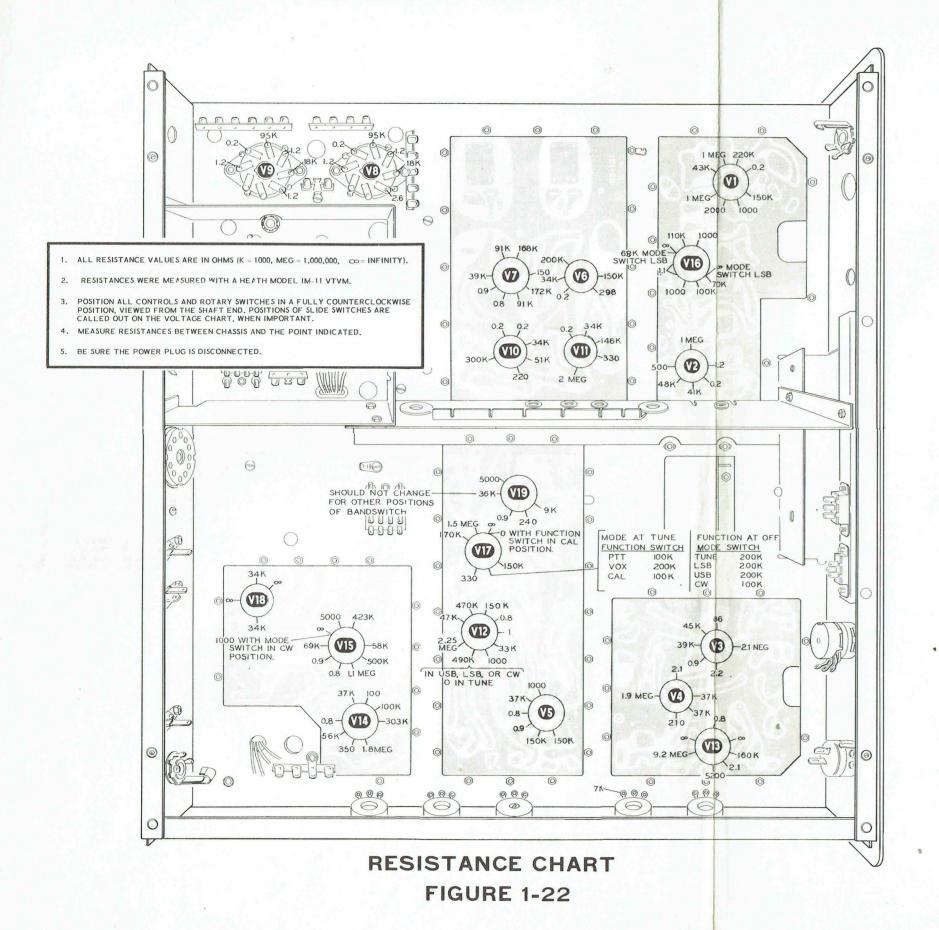


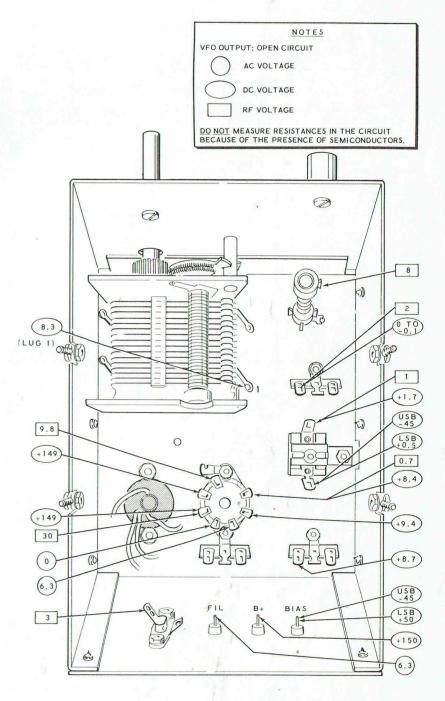
FIGURE 1-1



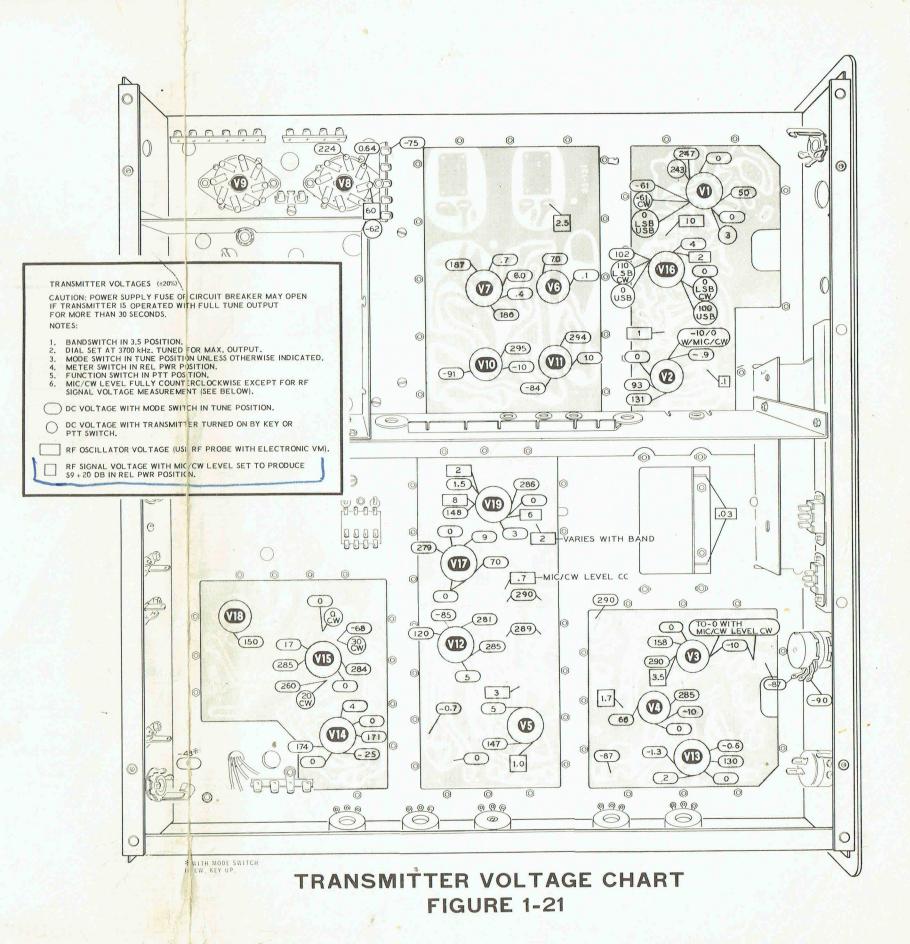
BLOCK DIAGRAM







VFO VOLTAGE CHART FIGURE 1-23



## RECEIVER VOLTAGE CHART NOTES

POWER SUPPLY AND 8 \( \Omega \) SPEAKER CONNECTED.

ANTENNA NOT CONNECTED.
BAND SWITCH IN 3.5 POSITION.
MODE SWITCH IN LSB POSITION.

FUNCTION SWITCH IN PTT POSITION.

RF GAIN MAXIMUM CLOCKWISE. AF GAIN AT 9 O'CLOCK POSITION

FILAMENT VOLTAGES NOT SHOWN BROWN 6.3 V AC/DC

WHITE/BROWN - 12.6 V AC/DO BIAS AT 50 MA PLATE CURRENT.

MEASURED WITH 11 MEGOHM INPUT ELECTRONIC VM.

RF VOLTAGES - NO SIGNAL (USE RF PROBE WITH ELECTRONIC VM).

## SIGNAL VOLTAGES

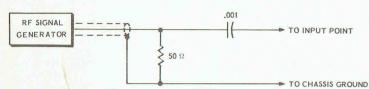
(Refer to Receiver DC Voltage Chart for Test Points)

CONTROL AND SWITCH SETTINGS AS IN DC VOLTAGE CHART EXCEPT AS FOLLOWS:

- DIAL FREQUENCY 3,900 MHz MODE SWITCH LSB OR USB, AF GAIN SET TO HEAR SIGNAL WITH APPROXIMATELY 1000 Hz TONE, METER SWITCH IN ALC POSITION.

SIGNAL INPUT POINTS.

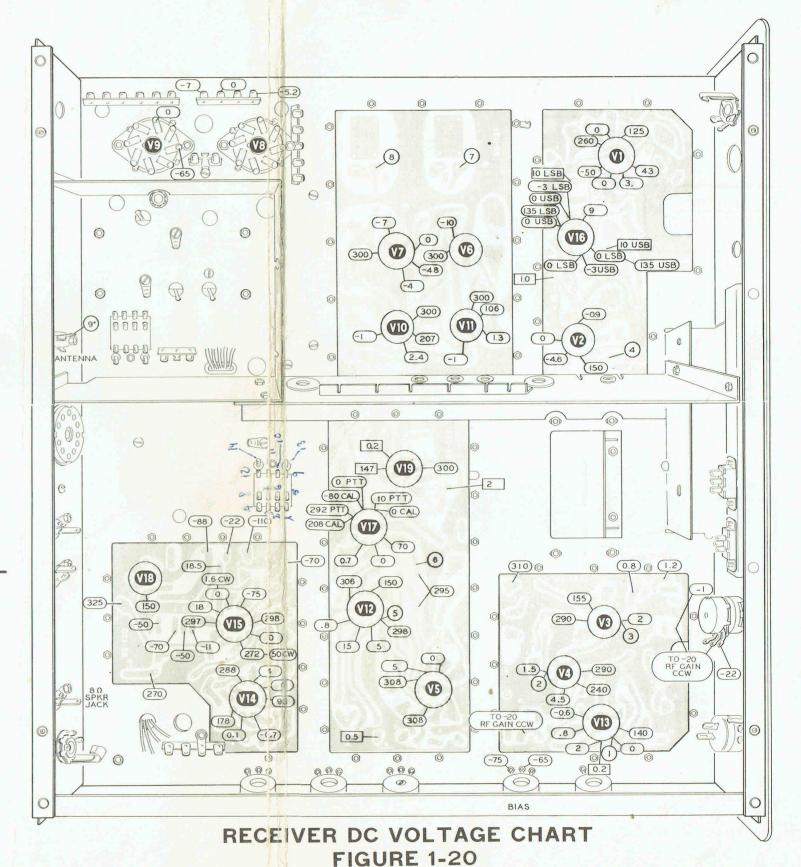
## SIGNAL GENERATOR TERMINATION

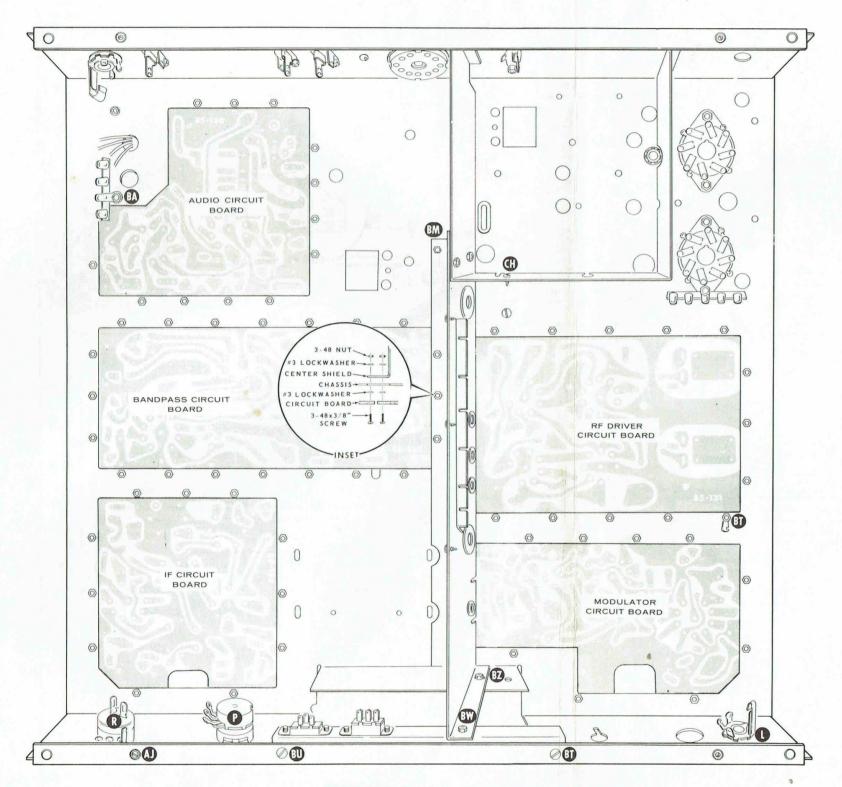


IMPORTANT: The crystal filter is quite narrow and the signal generator must be very carefully adjusted for the strongest signal indication at the Input Frequency listed in the chart below

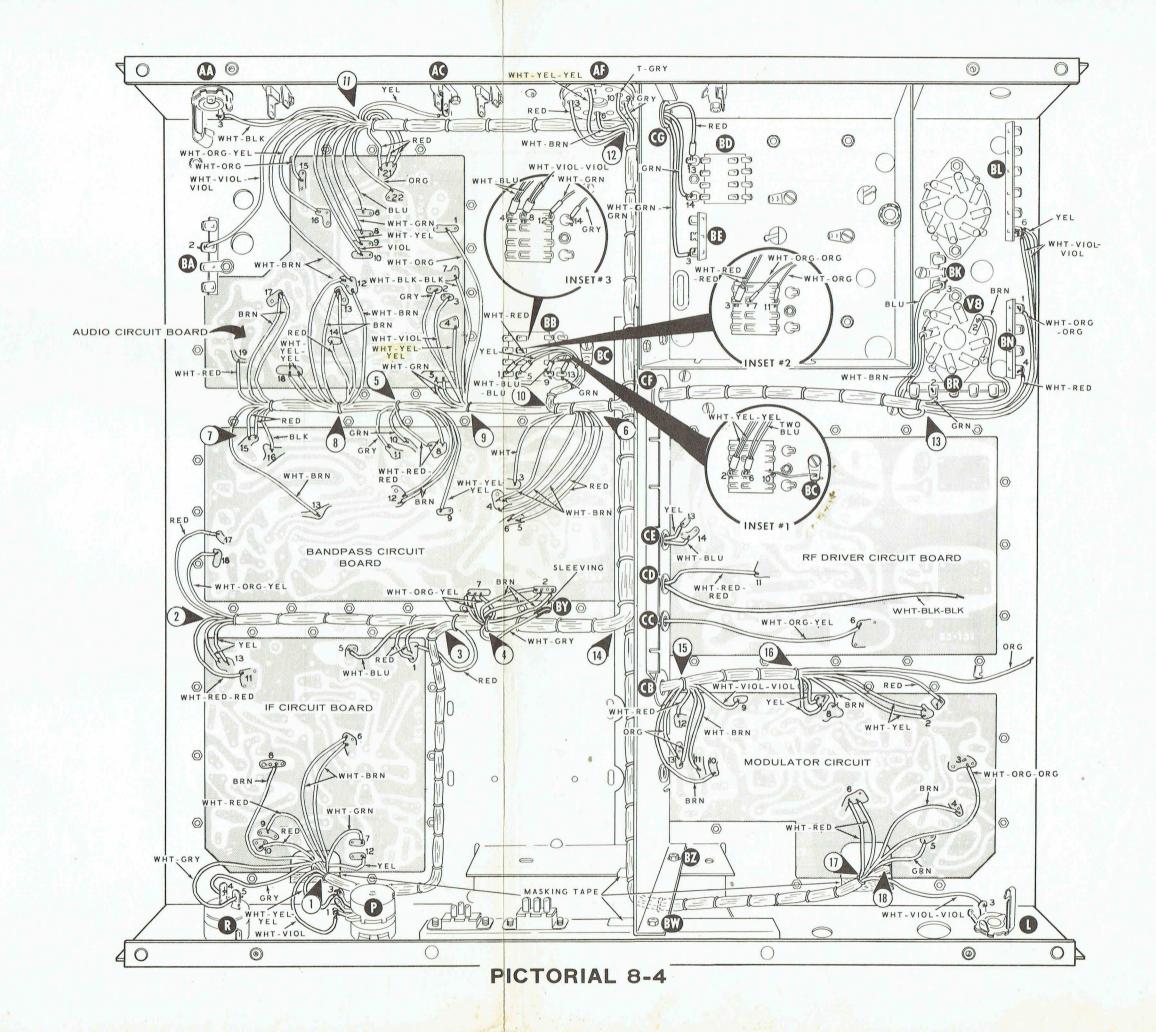
| INPUT POINT | INPUT FREQUENCY | INPUT LEVEL | ELECTRONIC VM OR S-METER READING    |
|-------------|-----------------|-------------|-------------------------------------|
| 1-1         | 3.395 MHz       | 20 mV       | (AF GAIN MAX. CLOCKWISE)            |
| 2           |                 | 10 mV       | 4 V RMS AT 8 Ω JACK<br>S-4          |
| 3           |                 | 10 mV       | S-9 + 60 DB.                        |
| 4           |                 | 10 mV       | S-9 + 60 DB.                        |
| 5           |                 | 10 mV       | S-9 + 10 DB.                        |
| 6           | 8.5 MHz         | 10 mV       | S-9 + 40 DB.                        |
| 7           | 3,900 MHz       | 10 mV       | S-9 + 20 DB.                        |
| 8           | 3.900 MHz.      | 10 mV       | S-9 + 40 DB PEAK DRIVER PRESELECTOR |
| XTAL CAL ON | 3.900 MHz       |             | S-9 + 20 DB PEAK DRIVER PRESELECTOR |
| 9 *         | 3,900 MHz       | 30 μV       | S-9 APPROXIMATELY                   |

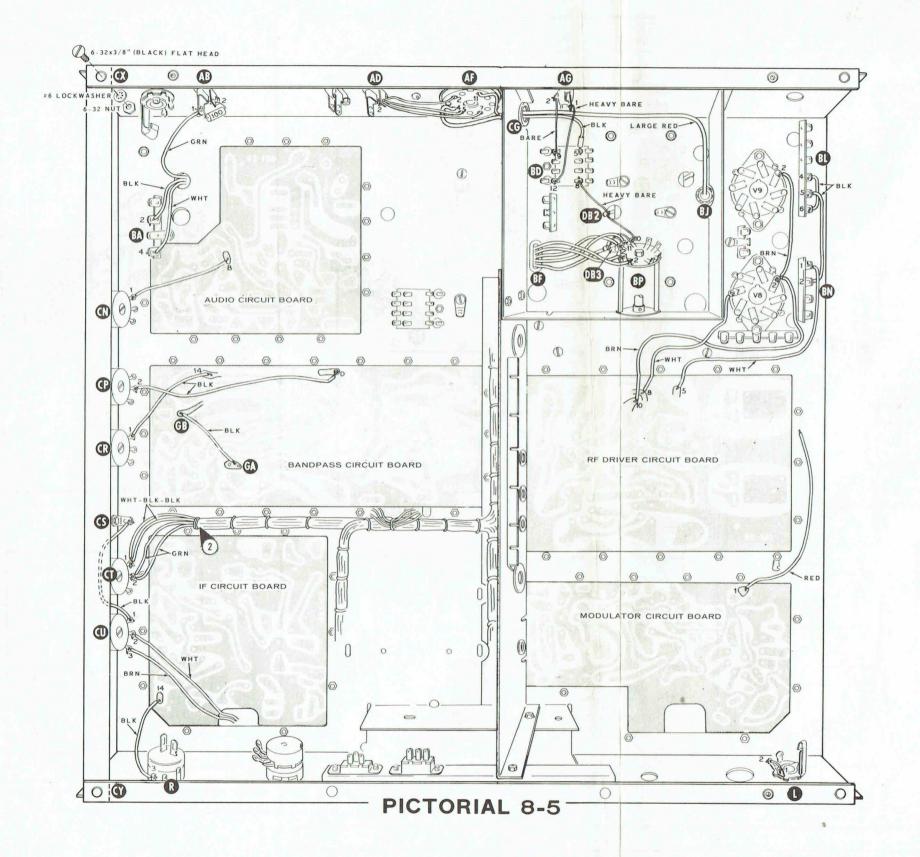
\* GENERATOR CONNECTED DIRECTLY- NO TERMINATION.

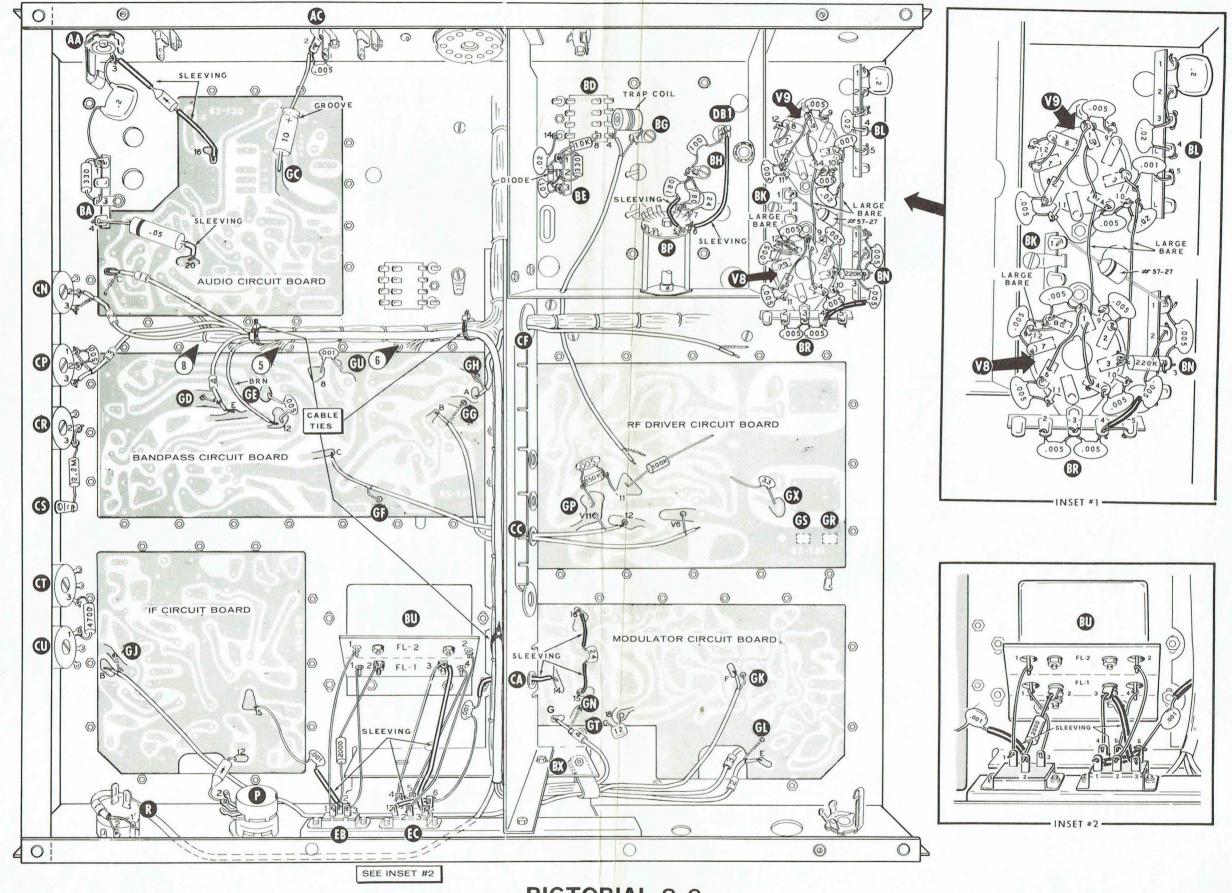




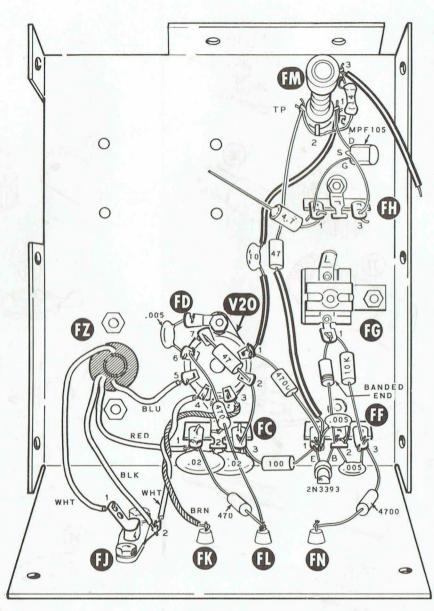
PICTORIAL 8-2



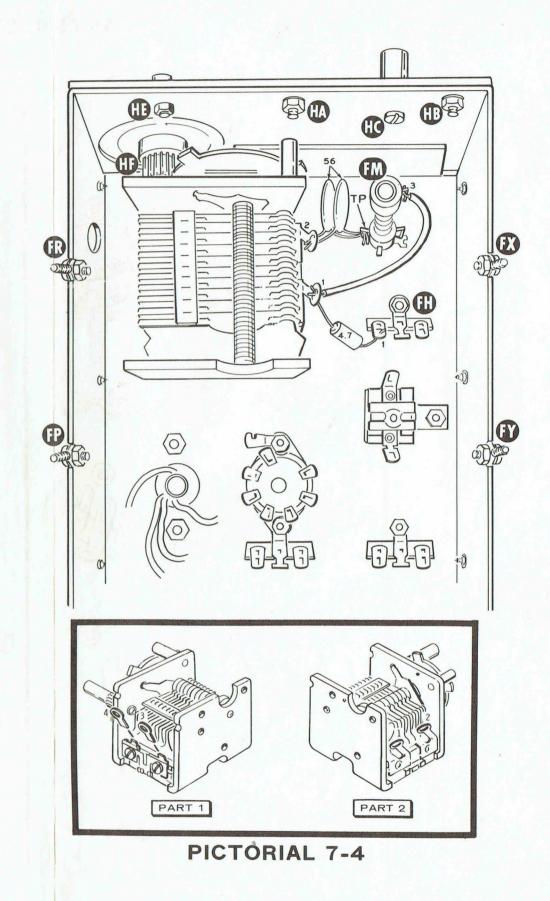


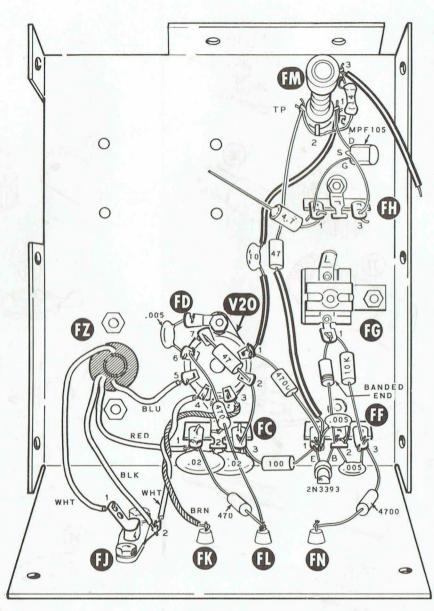


PICTORIAL 8-6

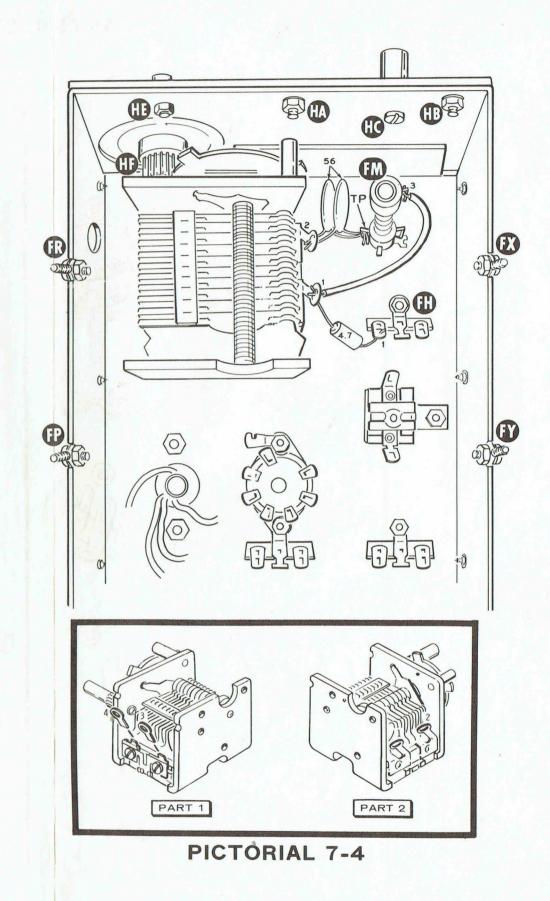


PICTORIAL 7-2

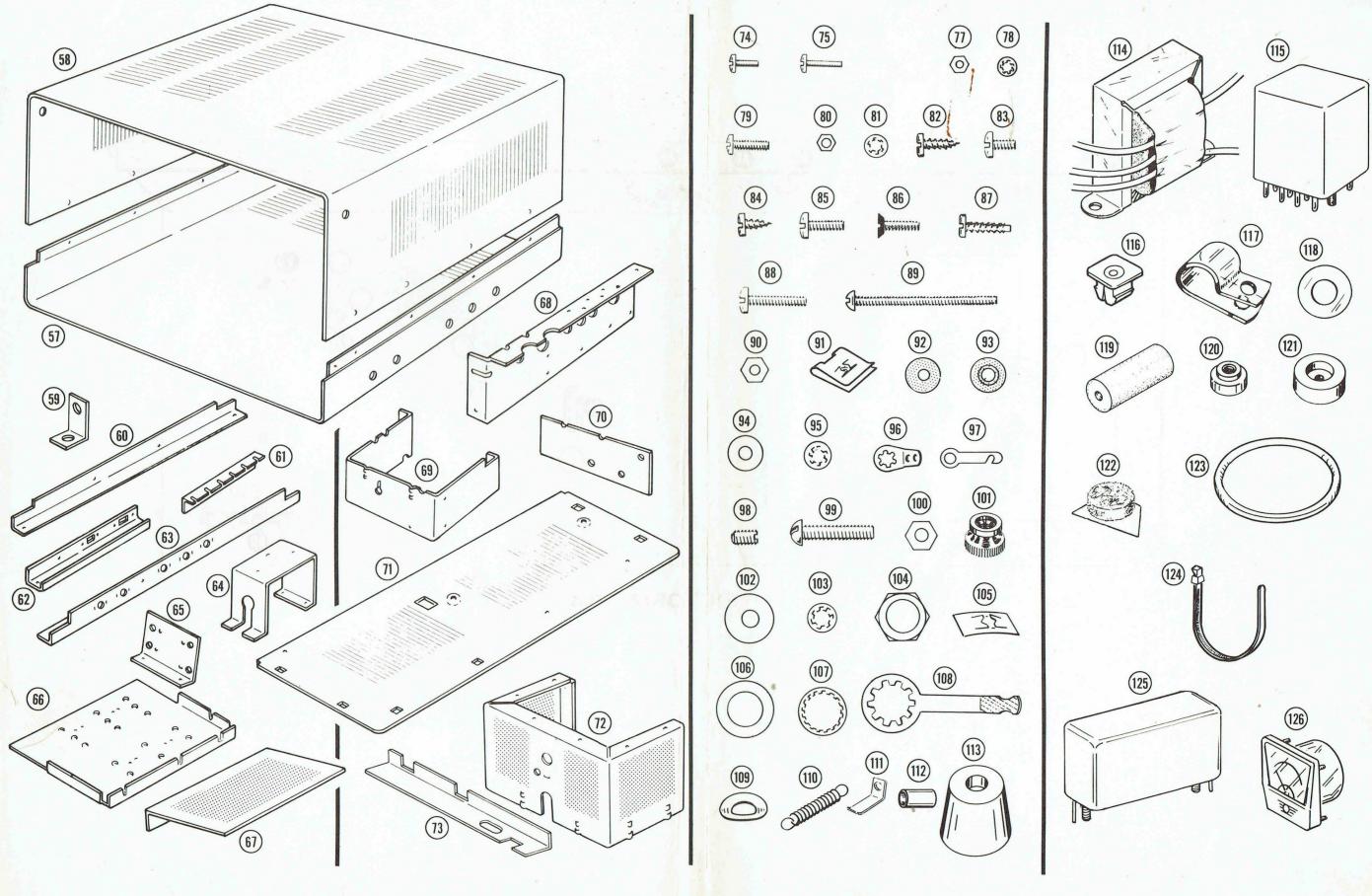


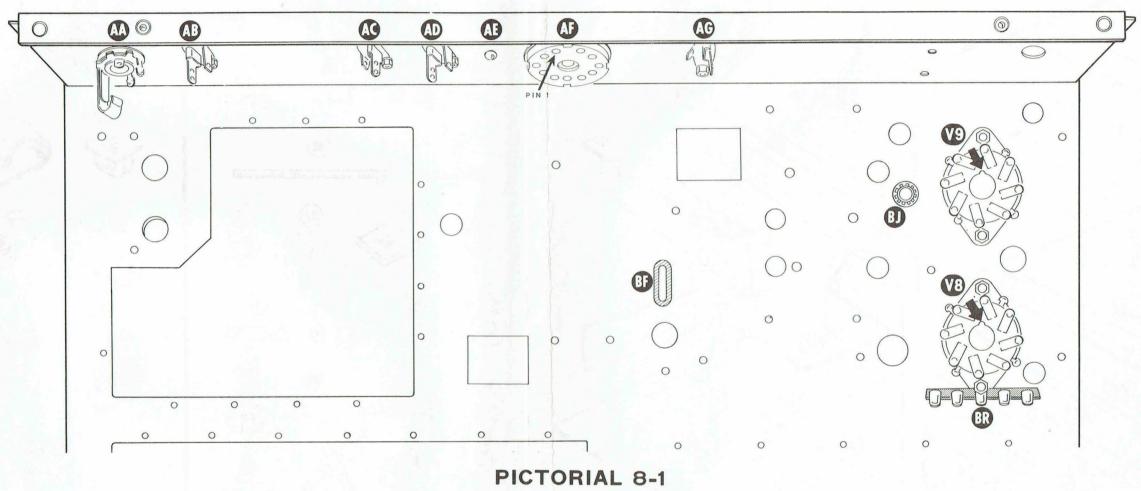


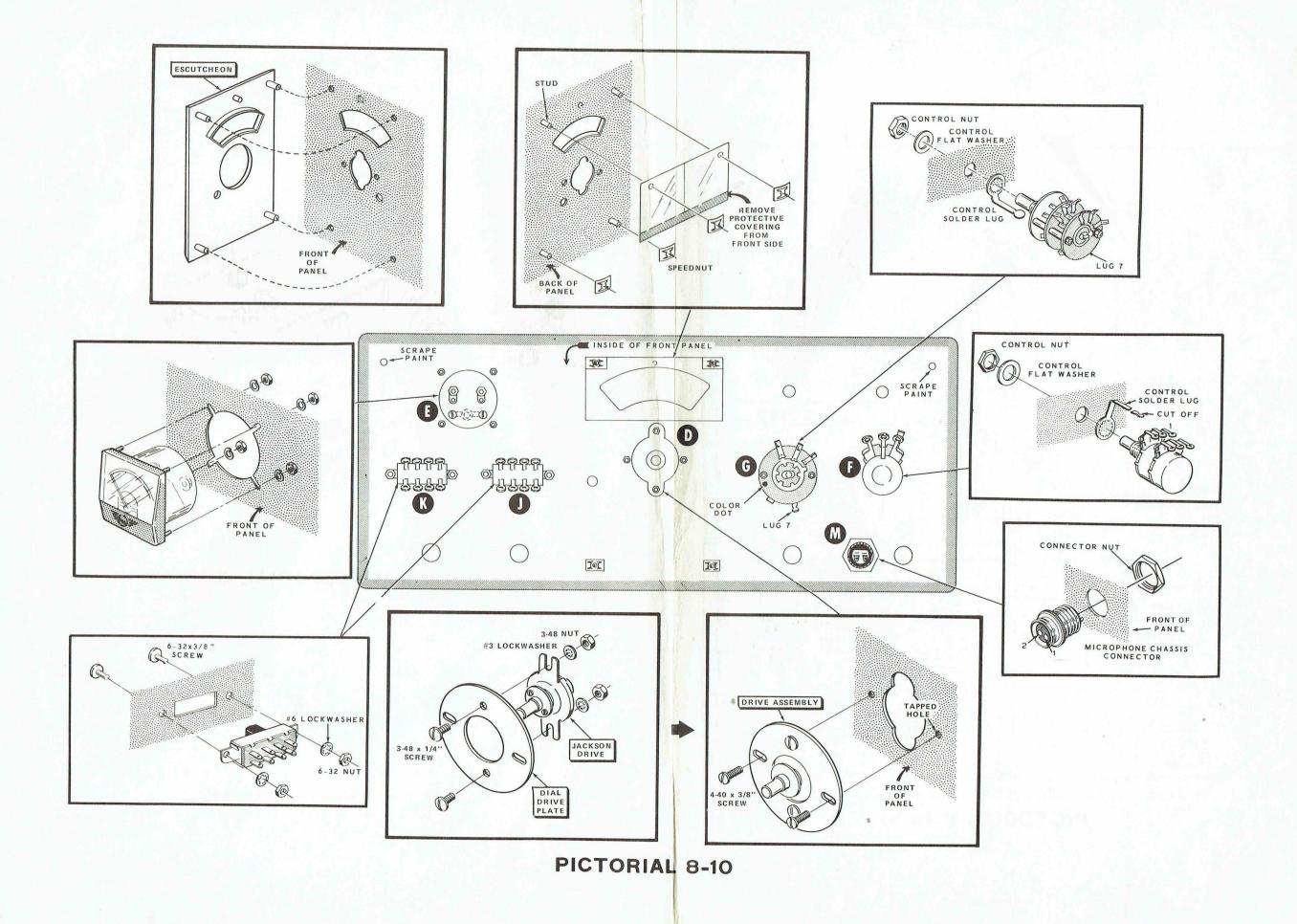
PICTORIAL 7-2

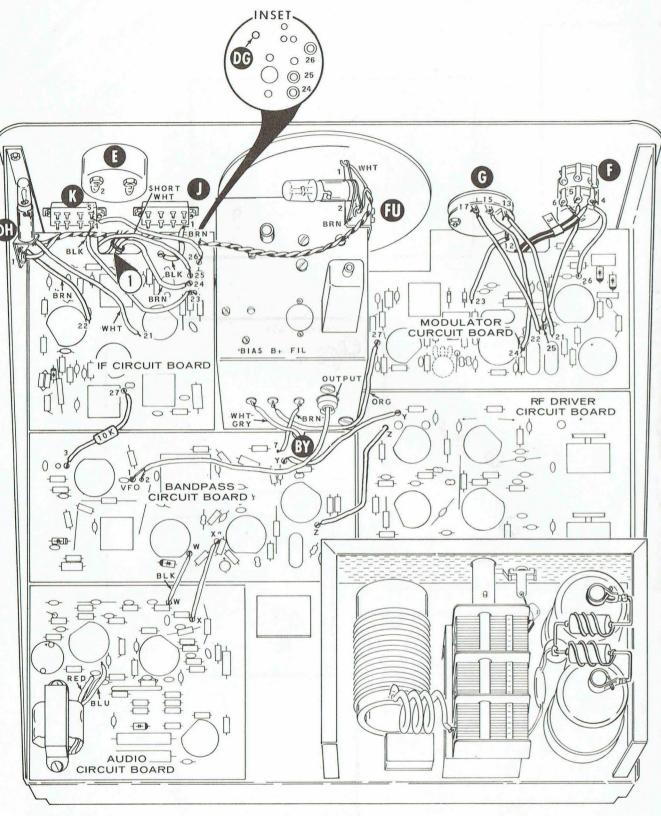


## PARTS PICTORIAL (cont'd.)

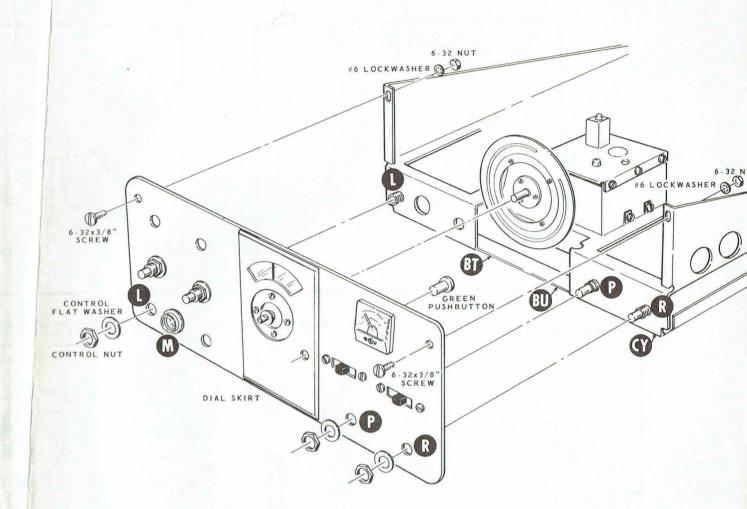




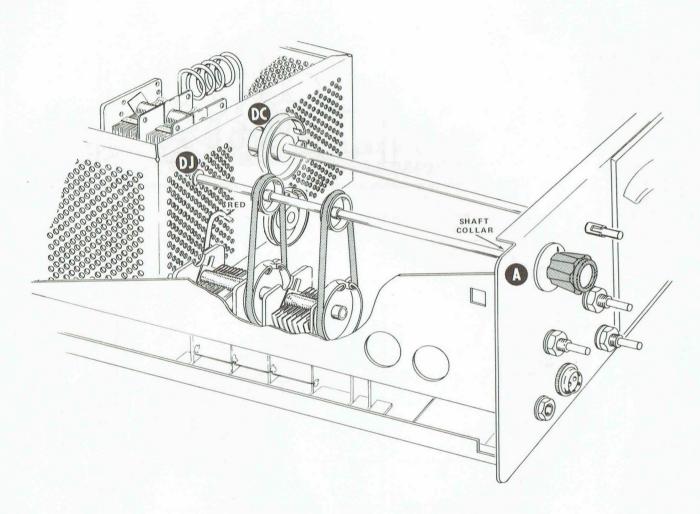




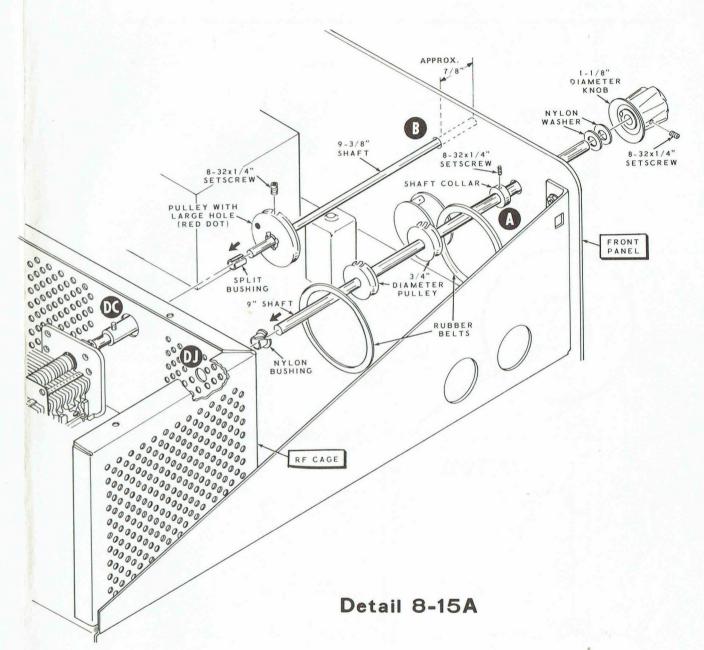
PICTORIAL 8-14

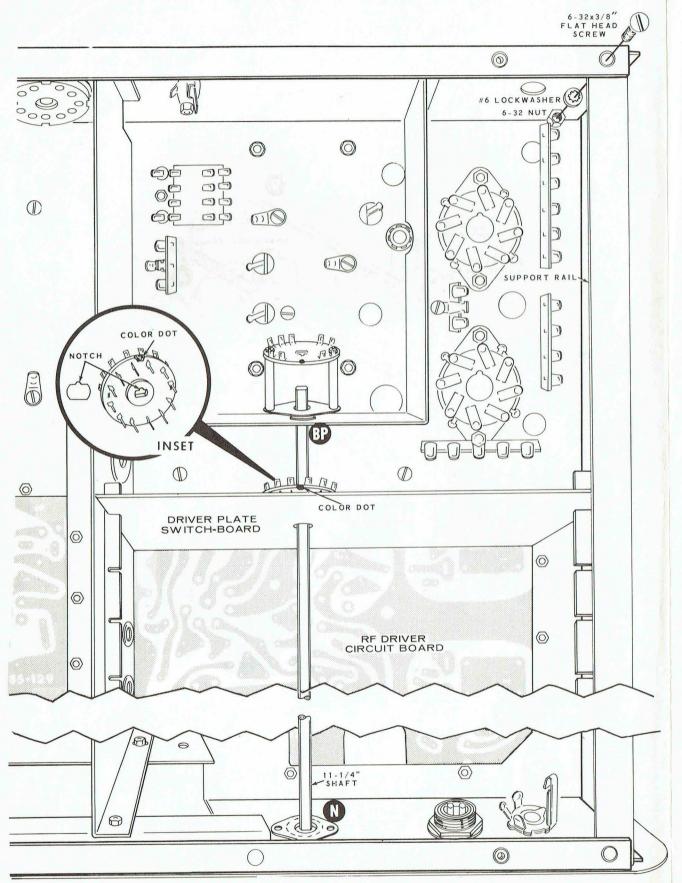


PICTORIAL 8-13

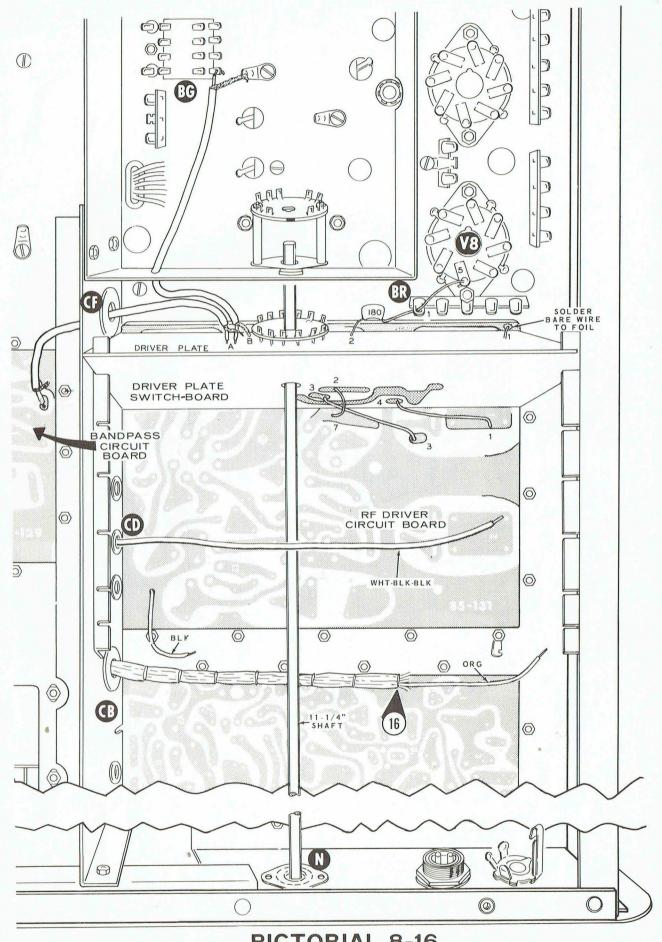


PICTORIAL 8-15

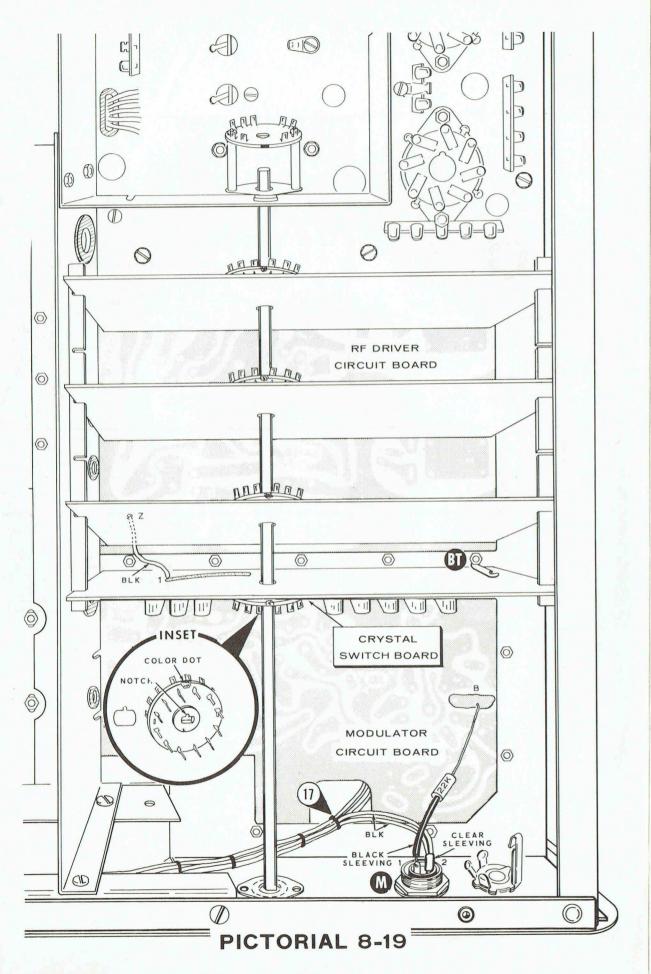


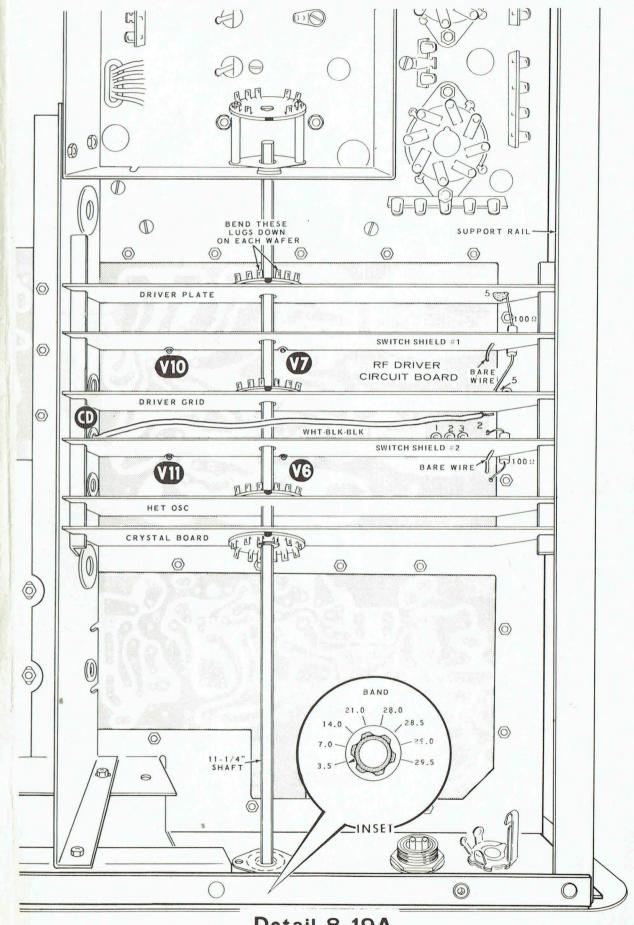


Detail 8-16B



PICTORIAL 8-16





Detail 8-19A