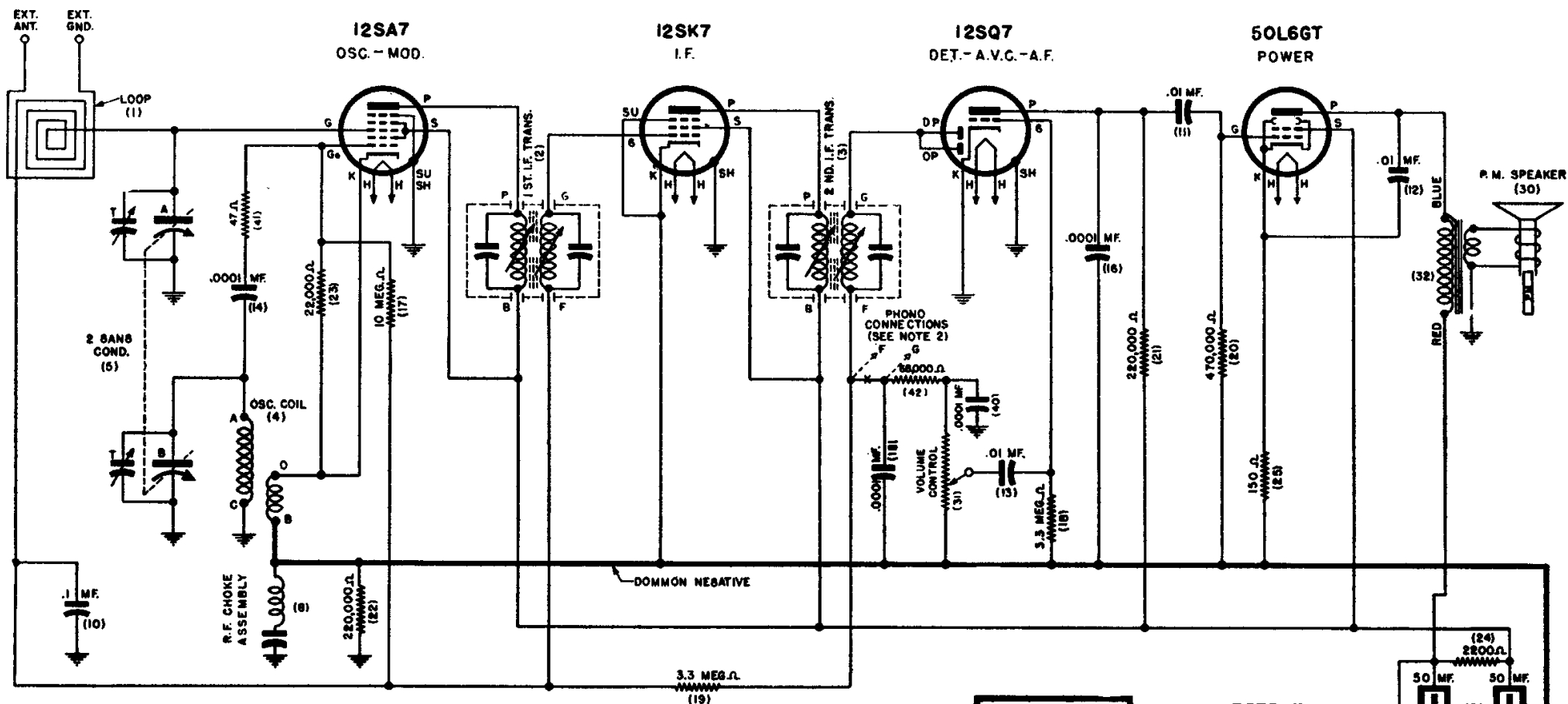


Sentinel Radio Models 284W, 284I, 284NI, 284NA,  
1U-284W, 1U-284I, 1U-284NI, 1U-284NA



I.F. - 455 KC.

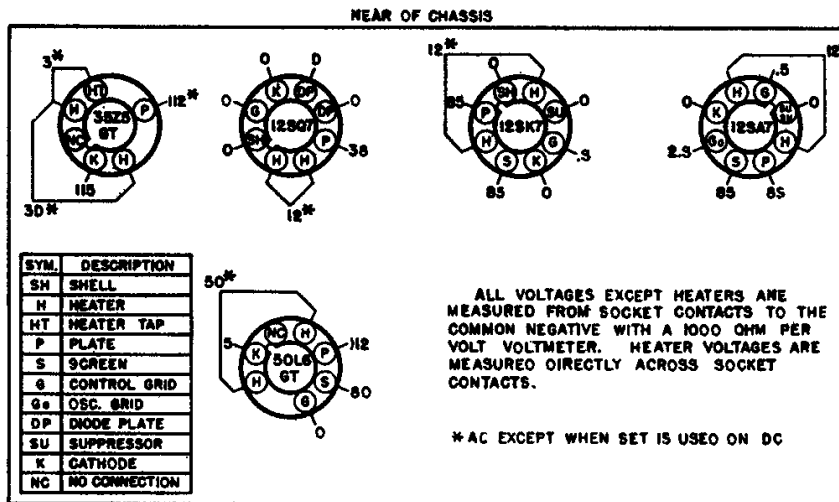
35256T  
RECT.

NOTE

1. NUMBERS SHOWN IN PARENTHESIS ARE ILLUSTRATION NUMBERS.
2. CIRCUIT IS BROKEN AT 'X' ON PHONO-RADIO MODELS AND CONNECTIONS ARE MADE AS SHOWN ON PHONO DIAGRAMS.

UNDERWRITERS APPROVED MODELS HAVE A COMMON NEGATIVE.

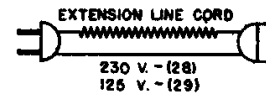
NON-UNDERWRITERS APPROVED MODELS DO NOT HAVE PARTS 8 AND 22, AND ALL CONNECTIONS TO THE COMMON NEGATIVE ARE GROUNDED DIRECTLY TO THE CHASSIS.



VOLTAGE TABLE  
(BOTTOM VIEW OF CHASSIS)

ALL VOLTAGES EXCEPT HEATERS ARE MEASURED FROM SOCKET CONTACTS TO THE COMMON NEGATIVE WITH A 1000 OHM PER VOLT VOLTMETER. HEATER VOLTAGES ARE MEASURED DIRECTLY ACROSS SOCKET CONTACTS.

\* AC EXCEPT WHEN SET IS USED ON DC



117 V.

AC-DC

S.P.S.T. SW.  
ON VOLUME  
CONTROL

PILOT LAMP  
6-8 V. 0.15 A.

.05 MF.

(9)

100 Ω

(26)

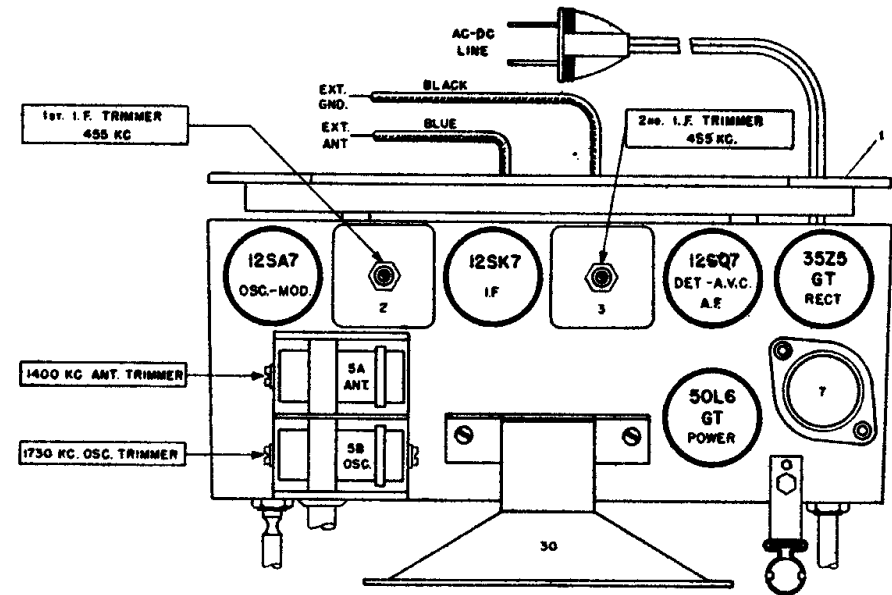
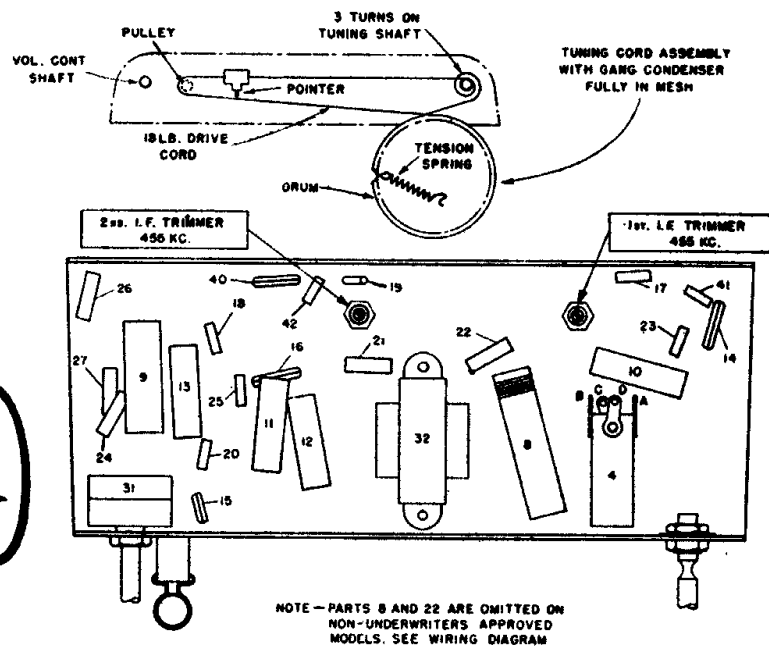
50L6GT  
12SK7  
12SA7  
12SQ7

HEATER CIRCUIT

COMMON NEGATIVE

# Sentinel Radio

MODELS 284W, 284I, 284NI, 284NA,  
1U-284W, 1U-284I, 1U-284NI, 1U-284NA,



For alignment procedure read tabulations from left to right, and make the adjustment marked (1) first, (2) next, (3) third.

Before starting alignment:

- Check tuning dial adjustment by tuning gang condenser until plates touch maximum capacity stop (completely in mesh) at which point the dial needle must be exactly even with the last line at the low frequency end of the dial calibration. If dial needle does not point exactly to last line move to correct position.
- Use an accurately calibrated test oscillator with some type of output measuring device.
- PLACE LOOP ANTENNA IN THE SAME POSITION IT WILL BE IN WHEN THE SET IS IN THE CABINET.

| Steps | Set receiver dial to:                              | TEST OSCILLATOR                      |   |  | Refer to parts layout diagram for location of trimmers mentioned below:  |
|-------|--|--------------------------------------|---|--|--|
|       |  | Adjust test oscillator frequency to: | Use dummy antenna in series with output of test oscillator consisting of: | Attach output of test oscillator to:   |  |
| 1     | Any point where no interfering signal is received. | 455 K. C.                            | .02 MFD. condenser  | High side to rear stator plates of tuning condenser. Low side to frame of condenser through a .02 Mfd. blocking condenser. | Adjust each of the second I. F. transformer trimmers for maximum output—then adjust each of the first I. F. trimmers for maximum output. |
| 2     | Exactly 1730 K. C.                                 | Exactly 1730 K. C.                   | .00025 MFD. condenser   | Receiver blue antenna lead<br>Receiver black ground lead   | Adjust 1730 K. C. oscillator trimmer for maximum output.   |
| 3     | Approx. 1400 K. C.                                 | Exactly 1400 K. C.                   | .00025 MFD. condenser   | Receiver blue antenna lead<br>Receiver black ground lead   | While rocking gang condenser adjust 1400 K. C. antenna trimmer for maximum output.   |