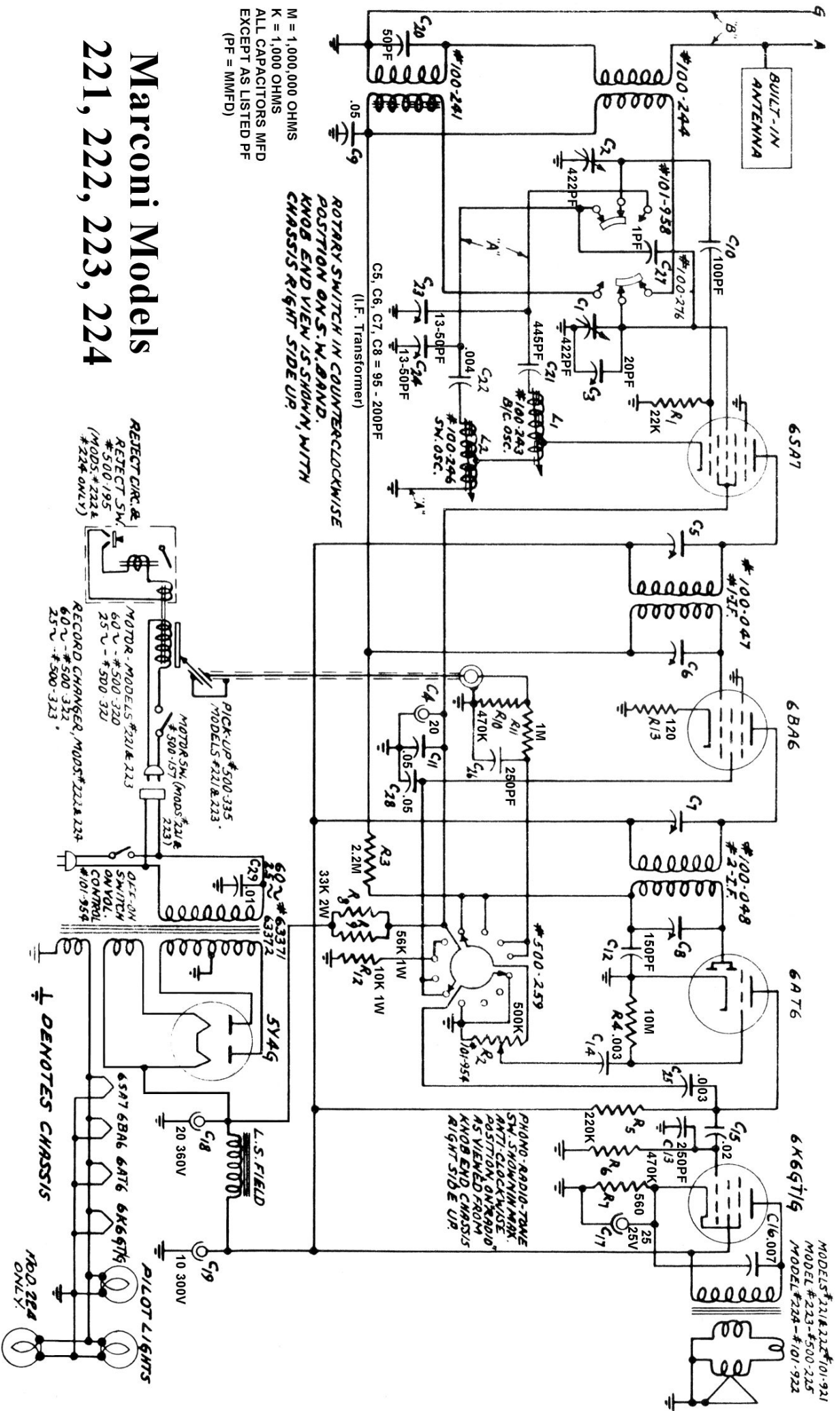


# Marconi Models 221, 222, 223, 224

M = 1,000,000 OHMS  
K = 1,000 OHMS  
ALL CAPACITORS MFD  
EXCEPT AS LISTED PF  
(PF = MMFED)

ROTARY SWITCH IN COUNTERCLOCKWISE  
POSITION ON S.M. BAND.  
KNOB END VIEW IS SHOWN, WITH  
CHASSIS RIGHT SIDE UP.



⊕ DENOTES CHASSIS

PILOT LIGHTS  
M.O. 224  
ONLY

MODELS #221 & 222 #101-921  
MODEL #223 #500-225  
MODEL #224 #101-922

PHONO-RADIO-TIME  
5M. SHOWN IN MARK.  
ANT. CLOCKWISE  
POSITION, ON RADIO  
AS VIEWED FROM  
KNOB END CHASSIS  
RIGHT SIDE UP.

(I.F. Transformer)

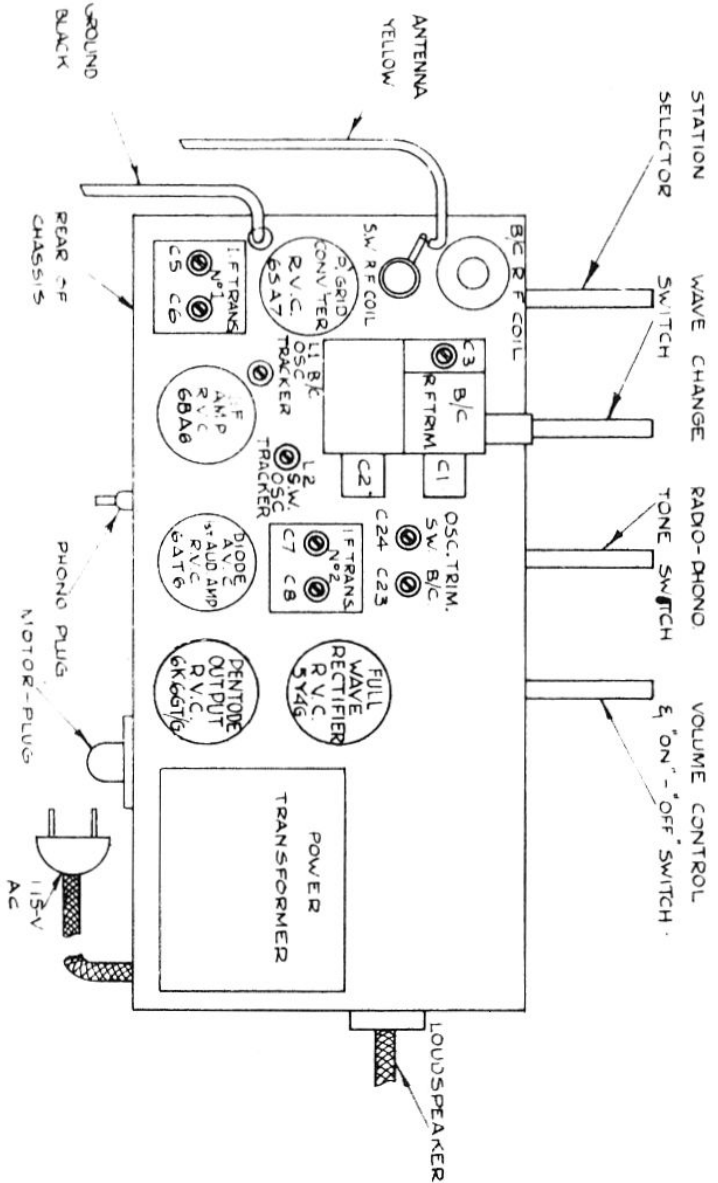
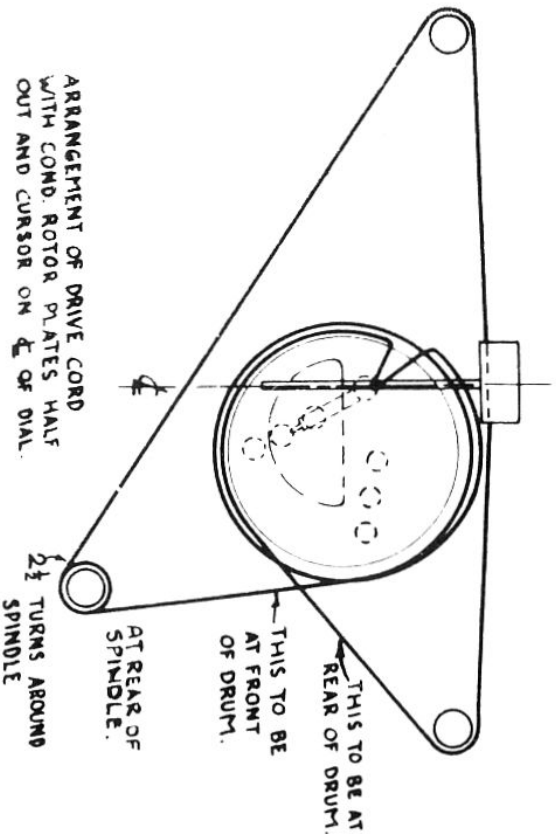
C5, C6, C7, C8 = 95 - 200PF

RECTIFY CIR. &  
RECTIFY 5M.  
#500-195  
(MOTS #222 &  
#224 ONLY)

MOTOR-UP #500-335  
MODELS #221 & 223  
MOTOR 5M. (MOTS #221 &  
#223)  
MOTOR- MODELS #221 & 223  
#500-320  
25V - #500-322  
RECORD CHANGER, MOTS #222 & 224  
#500-332  
25V - #500-323

# VOLTAGE AND CURRENT DATA

Rectifier Voltage.....317 Volts D.C.  
 High Tension Voltage.....250 Volts D.C.  
 Screen Voltage.....88 Volts D.C.  
 Pentode Bias Voltage.....18 Volts D.C.  
 Total Current Consumption.59 m.a. D.C.



## Marconi Models 221, 222, 223, 224 Alignment Procedure

| SECT BAND SWITCH TO | CONNECT S.G. OUTPUT TO | INPUT FREQUENCY | DIAL SETTING             | ADJUST | CIRCUIT RESONATED | REMARKS             |
|---------------------|------------------------|-----------------|--------------------------|--------|-------------------|---------------------|
| B.C.                | C.G. 6SA7 ##           | 462.5 K.C.      | Gang at Minimum Capacity | C8 C6  | 2nd IF 1st IF     | MAX OUTPUT          |
| B.C. #              | A & G                  | 1730 K.C.       | Gang at Mln. Cap'y.      | C 23   | B.C. OSC          | RESONATE MAX OUTPUT |
| B.C.                | A & G                  | 1600 K.C.       | 160                      | C 3    | R.F.              | ROCK GANG           |
| B.C.                | A & G                  | 580 K.C.        | 58                       | L 1    | B.C. OSC(PAD)     | ROCK GANG           |
| S.W.                | A & G                  | 16 M.C.         | 16 M.C.                  | C 24   | SW. OSC           | MAX OUTPUT          |
| S.W.                | A & G                  | 6 M.C.          | 6 M.C.                   | L 2    | SW. OSC (PADDER)  | ROCK GANG           |

- # Before proceeding with R.F. Alignment, see that dial pointer is set to last calibration mark at left of dial with gang at maximum capacity.
- # Lug on R.F. Section of gang forms suitable point of connection for Oscillograph Alignment. Connect Oscillograph Input across (R2) and adjust for overlapping double image of maximum amplitude.