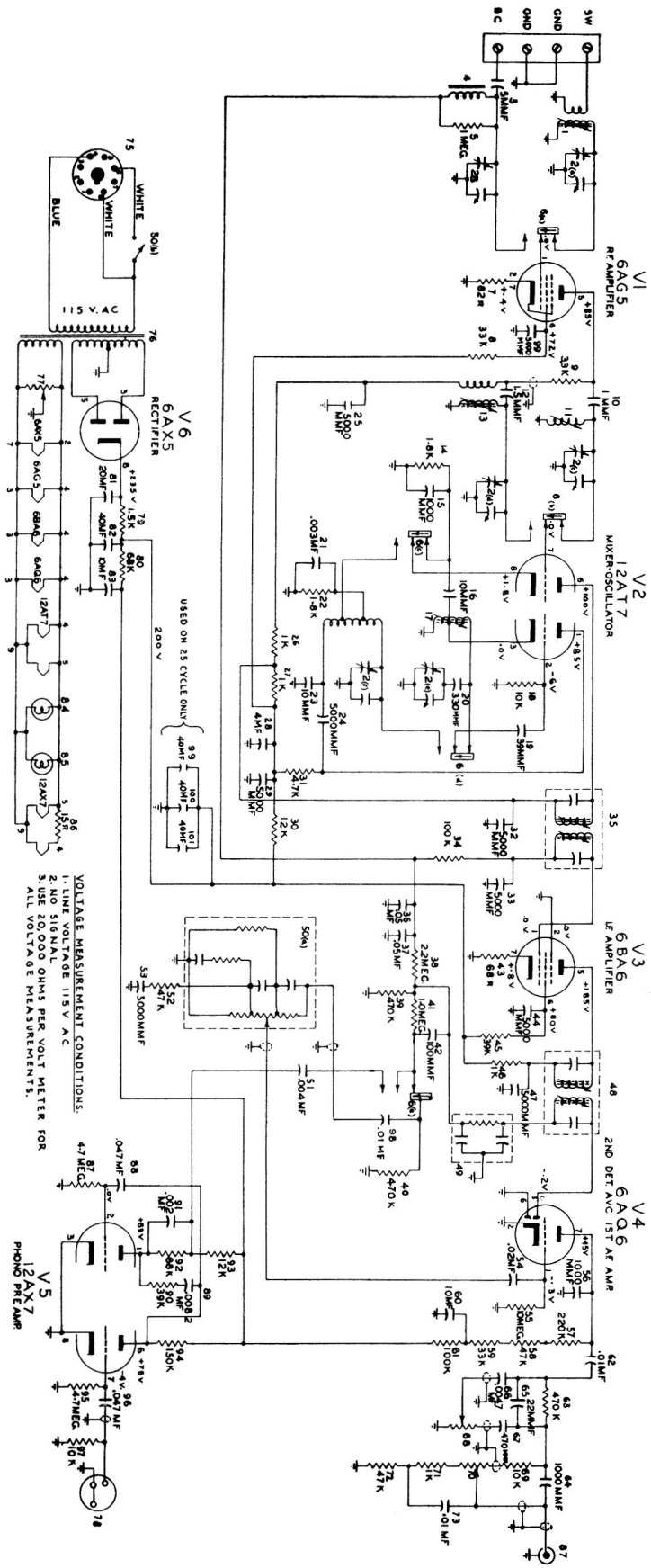
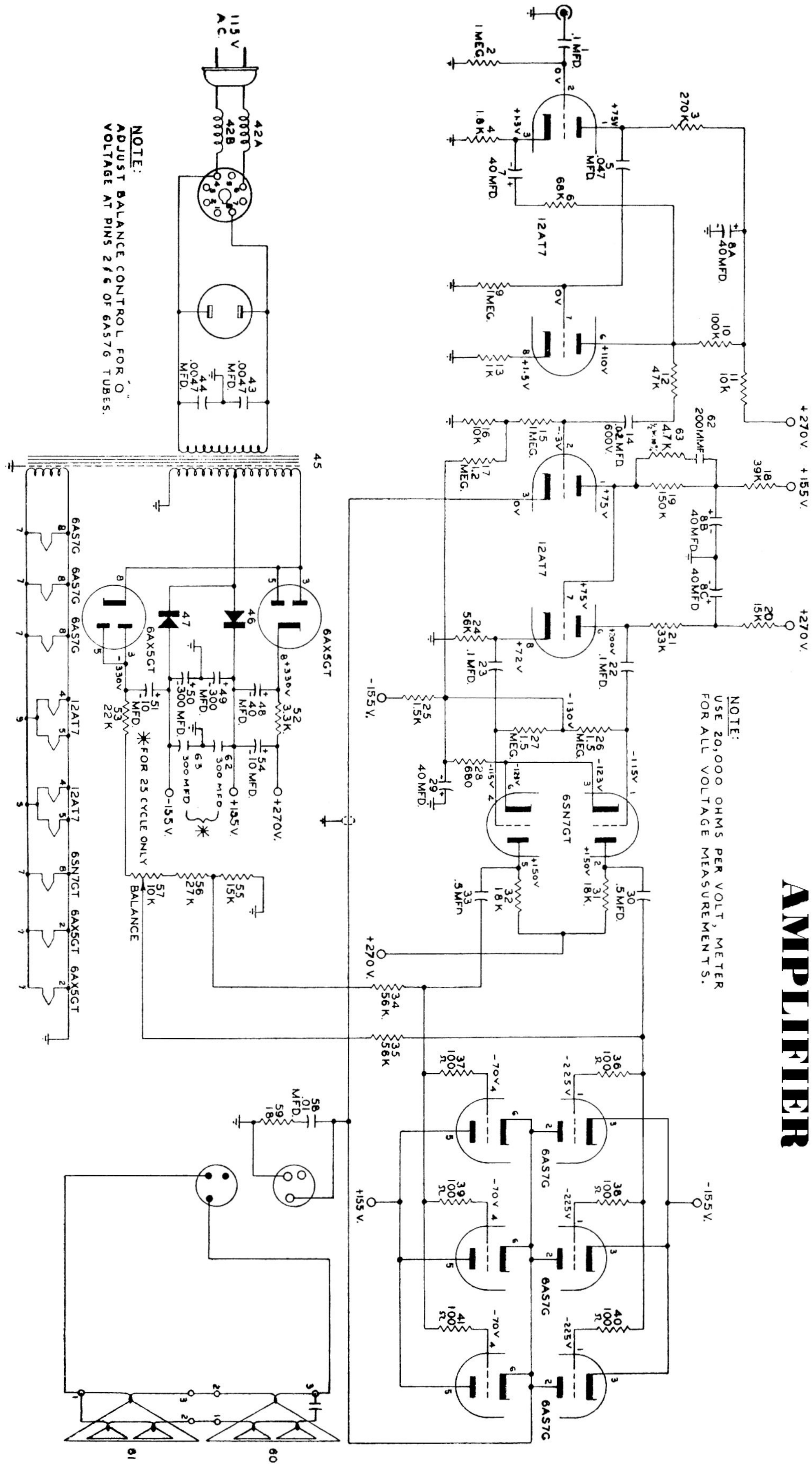

TUNER AND
PRE-AMPLIFIER
SWITCH SHOWN IN SHORT WAVE POSITION
VOLTAGE MEASUREMENT CONDITIONS.
1- LINE VOLTAGE 115 V AC
2- NO SIGNAL
3. USE 20,000 OHMS PER VOLT METER FOR ALL VOLTAGE MEASUREMENTS.
USED ON 25 CYCLE ONLY
200 V
115 V. AC
WHITE
BLUE
V1 6AG5 RF AMPLIFIER
V2 12AT7 MIXER-OSCILLATOR
V3 6BA6 I.F. AMPLIFIER
V4 6AQ6 2ND DET AVC 1ST AF AMP
V5 12AX7 PHONO PRE AMP
V6 6AX5 RECTIFIER



AMPLIFIER
NOTE: USE 20,000 OHMS PER VOLT, METER FOR ALL VOLTAGE MEASUREMENTS.
NOTE: ADJUST BALANCE CONTROL FOR 0 VOLTAGE AT PINS 2 & 6 OF 6AS7G TUBES.
✱ FOR 25 CYCLE ONLY
115 V A.C.
12AT7
6SN7GT
6AX5GT
6AS7G
+270V.
+155V.
-155V.
BALANCE

BROADCAST BAND - "AM" - ALIGNMENT PROCEDURE

1. Disconnect leads from SW-AM antenna terminal strip (labeled SW-SW-AM-AM) at back of chassis; also disconnect speaker plug and record changer plugs. Remove all chassis and speaker from cabinet. If desired, allow speaker to remain in cabinet and connect to receiver by extension leads.

2. With the gang condenser fully meshed, dial pointer should be in the position indicated by the last division below 55 on the dial. If it is set incorrectly, release clip on pointer and reposition pointer.

3. Connect an output meter across speaker voice coil.

4. Connect ground lead of signal generator to the receiver chassis.

5. Set volume control to maximum volume position and use a weak signal from the signal generator.

6. Set band switch to the "AM" (middle) position.

DUMMY ANT. IN SERIES WITH SIGNAL GENERATOR	CONNECT HIGH SIDE OF SIGNAL GENERATOR TO	SIGNAL GENERATOR FREQUENCY	RECEIVER DIAL SETTING	TRIMMER OR SLUG NUMBER	TRIMMER DESCRIPTION	TYPE OF ADJUSTMENT
.1 MFD. Condenser	Lug on trimmer #6 at top of gang (see Fig. 16 for location of trimmer)	455 KC 400 cycle AM modulated.	Any point where it does not effect the signal.	#1 & #2 #3 & #4	2nd I. F. 1st I. F.	Adjust for maximum output. Then repeat adjustment.
"	AM Antenna Terminal	1500 KC 400 cycle AM modulated.	1500 KC	#5	AM Oscillator	Adjust for maximum output.
"	AM Antenna Terminal	1500 KC 400 cycle AM modulated.	Tune to 1500 KC generator signal.	#6	AM R.F.	Adjust for maximum output.
"	AM Antenna Terminal	1500 KC 400 cycle AM modulated.	Tune to 1500 KC generator signal.	#7	AM Antenna	Adjust for maximum output.
"	AM Antenna Terminal	600 KC 400 cycle AM modulated.	Tune to 600 KC generator signal.	#8	Adjustable core of AM R.F. Coil	Adjust for maximum output.
	Repeat adjustment of trimmer 6 & 7 or slug 8 until one no longer detunes the other.					

SHORT WAVE - SW - ALIGNMENT PROCEDURE

1. If alignment of both AM and SW channels is required it is necessary to align the AM channel first, then align the SW channel as instructed in chart below (AM alignment procedure is given on the preceding page).

2. Disconnect all leads from antenna terminal strip (labeled SW-SW-AM-AM) at back of chassis; also disconnect speaker plug and record changer plugs. Remove chassis and speaker from cabinet. If desired, allow speaker to remain in cabinet and connect to receiver by extension leads.

3. With the gang condenser fully meshed, dial pointer should be in the position indicated by the last division below 9.5 MC on the dial. If it is set incorrectly, release clip on pointer and reposition pointer.

4. Set volume control at maximum volume position and use a weak signal from the signal generator.

5. Set band switch to the SW (extreme counter-clockwise) position.

DUMMY ANT. IN SERIES WITH SIGNAL GENERATOR	CONNECT HIGH SIDE OF SIGNAL GENERATOR	SIGNAL GENERATOR FREQUENCY	RECEIVER DIAL SETTING	TRIMMER OR SLUG NUMBER	TRIMMER DESCRIPTION	TYPE OF ADJUSTMENT
400 Ohm Resistor	SW Antenna Terminal	9.2 M.C.	Gang Cond. Fully Meshed	No. 10	S.W. Oscillator	Adjust for Maximum output
"	SW Antenna Terminal	15.5 M.C.	15.5 M.C.	No. 11	S.W. Oscillator	Adjust for Maximum output
"	SW Antenna Terminal	10.0 M.C.	10.0 M.C.	No. 12	S.W. R.F.	Adjust for Maximum output
"	SW Antenna Terminal	10.0 M.C.	10.0 M.C.	No. 13	S.W. Antenna	Adjust for Maximum output
"	SW Antenna Terminal	14.0 M.C.	14.0 M.C.	No. 14	S.W. R.F.	Adjust for Maximum output
"	SW Antenna Terminal	14.0 M.C.	14.0 M.C.	No. 15	S.W. Antenna	Adjust for Maximum output
	Repeat adjustment No. 13, 14 and No. 11, 12 checking tracking and calibration at 12.0 M.C.					