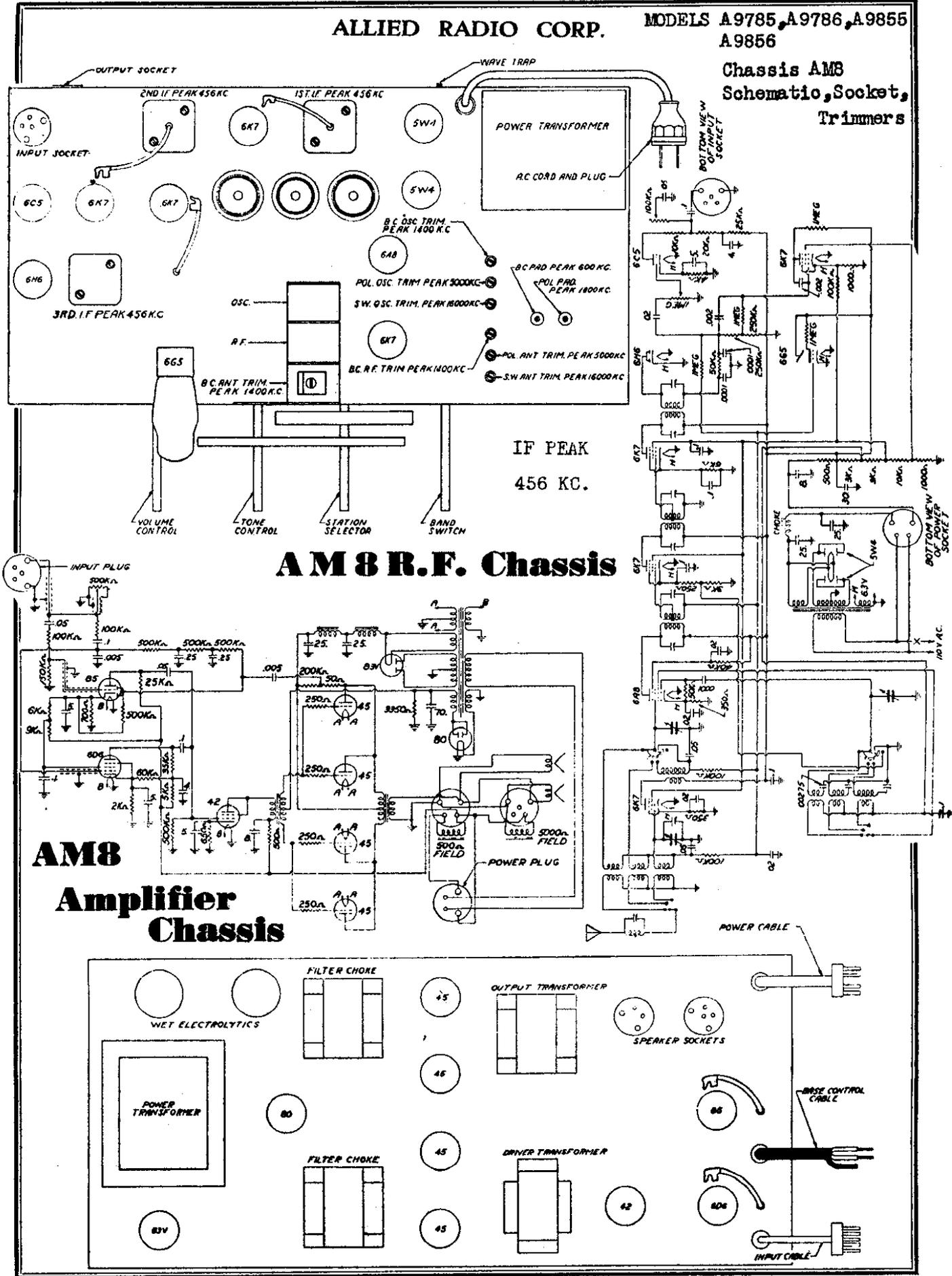


ALLIED RADIO CORP.

MODELS A9785, A9786, A9855, A9856

Chassis AM8
Schematic, Socket,
Trimmers



MODELS A9785, A9786, A9855
A9856

ALLIED RADIO CORP.

Chassis AMB
Alignment, Parts

The alignment of this receiver requires the correct sequence of operations in use of a test oscillator which will cover the frequencies of 436, 500, 1400, 1800, 4000, 6000, and 14,000 KC and properly aligning the receiver for the Broadcast Band. If possible, all alignments should be made with the FOREIGN BAND volume control on maximum and the test oscillator output as low as possible, to prevent the AVC from operating and giving false readings.

GENERAL DATA
The alignment of this receiver requires the correct sequence of operations in use of a test oscillator which will cover the frequencies of 436, 500, 1400, 1800, 4000, 6000, and 14,000 KC and properly aligning the receiver for the Broadcast Band. If possible, all alignments should be made with the FOREIGN BAND volume control on maximum and the test oscillator output as low as possible, to prevent the AVC from operating and giving false readings.

CORRECT ALIGNMENT PROCEDURE
The intermediate frequency (I.F.) stages should be aligned properly as the first step. After the I.F. transformers have been properly adjusted and peaked, the Broadcast Band should always be the next procedure. Then proceed to adjust these two trimmers for peak at 14,000 KC (adjust oscillator trimmer first) and on the inherent design of the circuit has been expressly developed for simplicity in servicing, only these two adjustments are necessary for aligning this band.

I.F. ALIGNMENT
Adjust the test oscillator to 436 KC and connect the output to the grid of the first detector tube (6A8) through a .05 or .1 mid. condenser. This ground on the test oscillator can be connected to the chassis ground. Align all five I.F. trimmers to peak or maximum reading on the output meter. As there are two stages of I.F. in this receiver, there will be consequently three I.F. transformers to align.

BROADCAST BAND ALIGNMENT
Adjust the oscillator to 1400 KC and connect the output to the antenna post marked "A" through a .001 mid. mica condenser to give the equivalent of an antenna about 50 feet. Set the receiver pointer to 1400 KC (see drawing for location). After this has been carefully done, the next step is to adjust the front trimmer of the gang condenser to peak. The front condenser section tunes the pre-amplifier stage. Then adjust the Broadcast Band R. F. trimmer to peak. This trimmer aligns the grid or input circuit of the 6A8 tube. (See drawing for position of Broadcast R. F. trimmer). Next, re-set the dial pointer on the receiver and the test oscillator to 600 KC. Slowly increase or decrease the B. C. oscillator padding condenser and at the same time continuously tune back and forth across the signal with the receiver until the maximum reading is obtained on the output meter. This adjustment may be a little complicated but is the easiest way to adjust the oscillator to the R.F. section. (For location of B.C. padding condenser see drawing). Return to 1400 KC and slowly increase or decrease the oscillator padding again over the adjustments of this frequency to condenser and at the same time continuously tune

POLICE BAND
In preparing the test oscillator for alignment of this band, connect a 400 ohm carbon resistor in series with a .0001 mid. condenser to the test oscillator. This resistor is used with the test oscillator only on the Short Wave Bands and should not be used for Broadcast Band alignment.

LOWER CENTER KNOB
(Continuous Variable Bess Control). The Bess control permits the regulation of the extreme low notes at the usual volume for reception in the average room, without affecting the high notes.

back and forth across the signal with the receiver is accurately on scale, no further adjustment should be necessary (in this respect). If the pointer is found off scale, it may be corrected and put on scale by readjustment of the police band oscillator trimmer. Return to Alignment of the pointer can only be corrected by adjustment of the oscillator trimmer.

FOREIGN BAND ALIGNMENT
The Foreign Band of 19 to 49 meters can be adjusted by the two trimmers marked and illustrated in the drawing as S.W. oscillator and S.W. trimmer. In preparing the 400 ohm carbon resistor in series with the .0001 mid. condenser on the output lead of the test oscillator. Set the receiver pointer to 14,000 KC (also test oscillator).

WAVE TRAP ADJUSTMENT
At the rear of the case is encountered adjustment of this screw will loosen and ground is experienced in broadcast reception. It's use prevents a trap venis code transmitters operating on a frequency around 455 K. C. from being received by the I. F. operating on the broadcast band. If code interier amplifier which is tuned to 455 K. C.

M B 19 Tube Radio Set

Part No.	Description
P 124	Mini Light
P 125	Output Audio Transformer
P 126	Large Knob
P 127	Small Knob
P 128	8 Gang Trimmer Condenser
P 129	Broadcast Intermediate Coil
P 130	Wave Trap Coil
P 131	Power Transformer
P 132	AC Cord and Plug
P 133	1st I.F. Transformer
P 134	2nd I.F. Transformer
P 135	Double Tuned I.F. Transformer
P 136	3 Gang Variable Condenser
P 137	7K Dial Complete
P 138	Knutcheon Plate
P 139	6B8 Tube Socket
P 140	5W4 Tube Socket
P 141	6K7 Tube Socket
P 142	6A8 Tube Socket
P 143	9C5 Tube Socket
P 144	Input Audio Transformer
P 145	Speaker Plug
P 146	300 Ohm Resistor
P 147	500 Ohm Resistor
P 148	10,000 Ohm Resistor
P 149	100,000 Ohm Resistor
P 150	1,000 Ohm Resistor
P 151	10,000 Ohm Resistor
P 152	100,000 Ohm Resistor
P 153	1,000 Ohm Resistor
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