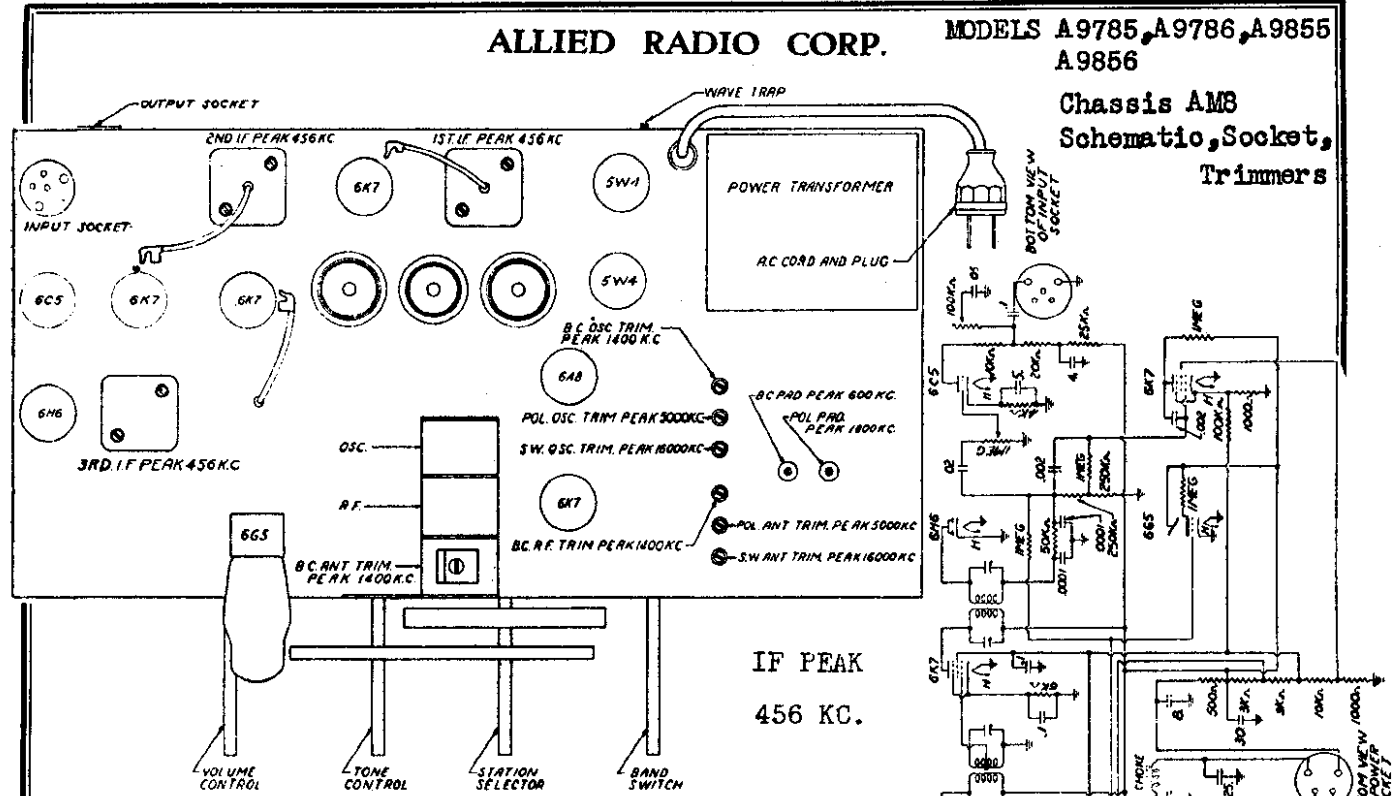


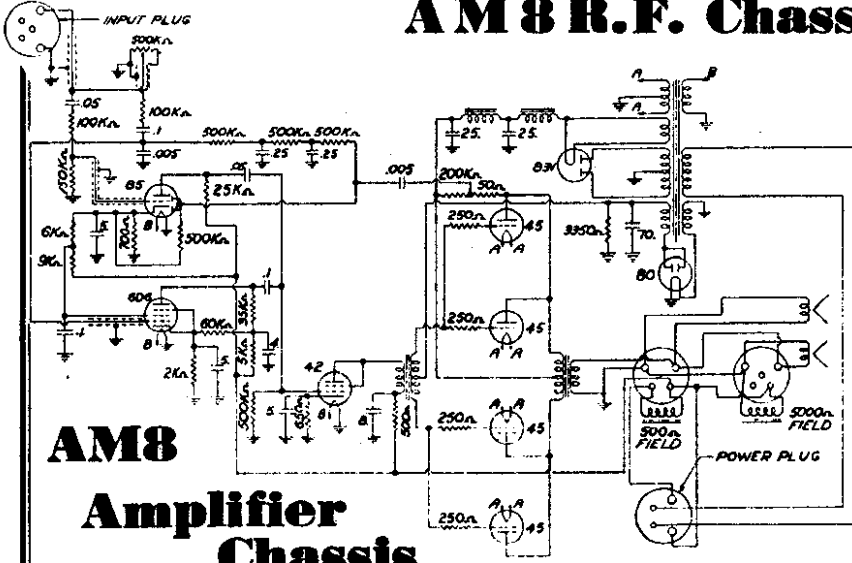
ALLIED RADIO CORP.

MODELS A9785, A9786, A9855, A9856

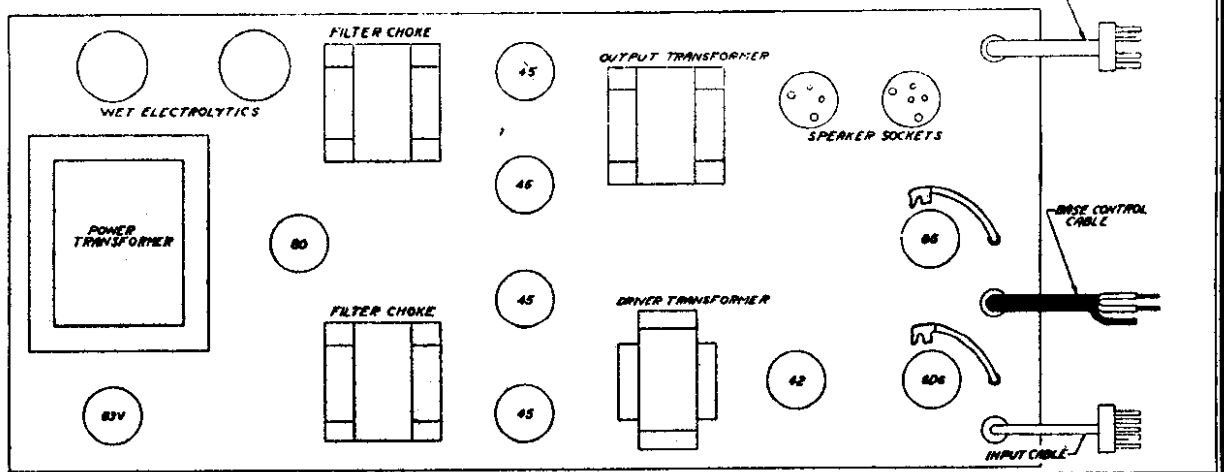
Chassis AM8
Schematic, Socket,
Trimmers



AM8 R.F. Chassis



AM8 Amplifier Chassis



Courtesy Nostalgia Air

MODELS A9785, A9786, A9855
A9856

ALLIED RADIO CORP.

Chassis AMB
Alignment, Parts

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, 800, 1400, 1800, 4000, 6000, and 14,000 KC and properly aligning the receiver for the Broadcast primary or secondary of the output transformer. 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 on the output lead of the test oscillator, after which, either or both of the Short Wave Bands may be aligned.

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 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

This completes the correct sequence of operations in alignment when adjustment was made at 800 KC. 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 oscillator for alignment of this band, connect a 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). Then proceed to adjust these two trimmers for peak at 14,000 KC (adjust oscillator trimmer first) and as the inherent design of the circuit has been expressly developed for simplicity in servicing, only these two adjustments are necessary for aligning this band.

NOTE: Always start this procedure by having the oscillator coil trimmer loose (out all the way), and the antenna coil trimmer fairly tight (in all the way); otherwise it is possible to make a false alignment on the image frequency. In order to prevent alignment on the image frequency, it is suggested that the following check be made: Readjust the pointer to 13,100 KC where the image frequency should be found. If properly aligned, the image frequency will be found to be weaker. If, however, the signal at 13,100 KC is found to be stronger than the signal at 14,000 KC, it signifies that alignment was incorrectly made on the image frequency.

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 on the output lead of 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.

Set the receiver pointer to 4000 KC (also test oscillator) and adjust the Police Band oscillator circuit trimmer to peak.

After this has been carefully done, the next step is to adjust the Police Band antenna trimmer to peak. Now set the dial pointer and the test oscillator to 1800 KC in preparation for adjusting the police band padding condenser.

Slowly increase or decrease the oscillator padding condenser and at the same time continuously tune control permits the regulation of the extreme low notes at the usual volume for reception in the average room, without affecting the high notes.

MB 19 Tube Radio Set

Part No.	Description	Part No.	Description
P 124	Mini Light	P 1191	Gany Condenser Resistor
P 125	Output Audio Transformer	P 1192	Voltage Control with Switch
P 126	Large Knob	P 1193	Tone Control
P 127	Small Knob	P 1194	Wave Switch
P 128	8 Gang Trimmer Condenser	P 1195	8 Gang Trimmer Condenser
P 129	Broadcast Antenna Coil	P 1196	8 Gang Trimmer Condenser + 5%
P 130	Wave Trap Coil	P 480	.0001 Mica Condenser
P 131	Power Transformer	P 1114	2 Megohm 1/4 Watt Resistor
P 132	AC Cord and Plug	P 1182A	1 Megohm Insulated 1/4 Watt Resistor
P 133	1st I.F. Transformer	P 1182	10,000 Ohm 1/4 Watt Resistor
P 134	2nd I.F. Transformer	P 1183	50,000 Ohm 1/4 Watt Resistor
P 135	Double Tuned I.F. Transformer	P 1184	1,000 Ohm 1/4 Watt Resistor
P 136	3 Gang Variable Condenser	P 1185	1 Mep. Ohm 1/4 Watt Resistor
P 137	7K Dial Complete	P 1186	350 Ohm 1/4 Watt Resistor
P 138	Kautschum Plate	P 280	100,000 Ohm 1/4 Watt Resistor
P 490	628 Tube Socket	P 1187	4,000 Ohm 1/4 Watt Resistor
P 444	5W4 Tube Socket	P 1188	15,000 Ohm 1/4 Watt Resistor
P 489	6K7 Tube Socket	P 757	4,000 Ohm 1/4 Watt Resistor
P 484	6A8 Tube Socket	P 1189	15,000 Ohm 1/4 Watt Resistor
P 1641	9C5 Tube Socket	P 810	350 Ohm 1/4 Watt Resistor
P 1022	Input Audio Transformer	P 117	10,000 Ohm 1/4 Watt Resistor
P 845	Speaker Socket	P 419	20,000 Ohm 1/4 Watt Resistor
P 873	Speaker Plug	P 118	25,000 Ohm 1/4 Watt Resistor

MB 19 Tube Radio Set

Part No.	Description	Part No.	Description
P 1191	Gany Condenser Resistor	P 1191	Gany Condenser Resistor
P 1192	Voltage Control with Switch	P 1192	Voltage Control with Switch
P 1193	Tone Control	P 1193	Tone Control
P 1194	Wave Switch	P 1194	Wave Switch
P 1195	8 Gang Trimmer Condenser	P 1195	8 Gang Trimmer Condenser
P 1196	8 Gang Trimmer Condenser + 5%	P 1196	8 Gang Trimmer Condenser + 5%
P 480	.0001 Mica Condenser	P 480	.0001 Mica Condenser
P 1114	2 Megohm 1/4 Watt Resistor	P 1114	2 Megohm 1/4 Watt Resistor
P 1182A	1 Megohm Insulated 1/4 Watt Resistor	P 1182A	1 Megohm Insulated 1/4 Watt Resistor
P 1182	10,000 Ohm 1/4 Watt Resistor	P 1182	10,000 Ohm 1/4 Watt Resistor
P 1183	50,000 Ohm 1/4 Watt Resistor	P 1183	50,000 Ohm 1/4 Watt Resistor
P 1184	1,000 Ohm 1/4 Watt Resistor	P 1184	1,000 Ohm 1/4 Watt Resistor
P 1185	1 Mep. Ohm 1/4 Watt Resistor	P 1185	1 Mep. Ohm 1/4 Watt Resistor
P 1186	350 Ohm 1/4 Watt Resistor	P 1186	350 Ohm 1/4 Watt Resistor
P 280	100,000 Ohm 1/4 Watt Resistor	P 280	100,000 Ohm 1/4 Watt Resistor
P 1187	4,000 Ohm 1/4 Watt Resistor	P 1187	4,000 Ohm 1/4 Watt Resistor
P 1188	15,000 Ohm 1/4 Watt Resistor	P 1188	15,000 Ohm 1/4 Watt Resistor
P 757	4,000 Ohm 1/4 Watt Resistor	P 757	4,000 Ohm 1/4 Watt Resistor
P 1189	15,000 Ohm 1/4 Watt Resistor	P 1189	15,000 Ohm 1/4 Watt Resistor
P 810	350 Ohm 1/4 Watt Resistor	P 810	350 Ohm 1/4 Watt Resistor
P 117	10,000 Ohm 1/4 Watt Resistor	P 117	10,000 Ohm 1/4 Watt Resistor
P 419	20,000 Ohm 1/4 Watt Resistor	P 419	20,000 Ohm 1/4 Watt Resistor
P 118	25,000 Ohm 1/4 Watt Resistor	P 118	25,000 Ohm 1/4 Watt Resistor

Amplifier Unit Parts AMB

Part No.	Description	Part No.	Description
P 1207	45 Tube Socket	P 114	Tube Shields
P 1211	Bass Tone Control	P 482	80 Tube Socket
P 1212	5 Prong Speaker Socket	P 535	45 Tube Socket
P 1213	5 Prong Speaker Plug	P 536	80 Tube Socket
P 1214	Bass Control Cable	P 973	4 Prong Speaker Plug
P 1215	Power Cable	P 845	4 Prong Speaker Socket
P 1216	Input Cable	P 1189	Output Audio Transformer
P 14028	Knob	P 1209	Power Transformer
P 141	25,000 V Condenser	P 1211	Input Audio Transformer
P 1208	70 Mfd. 100 V Electrolytic Con.	P 1202	Filter Choke
P 304	5 Mfd. 25 V Electrolytic Con.	P 1203	Filter Choke
P 180	4.8 Mfd. 450 V Electrolytic Con.	P 1204	85 Tube Socket
P 1185	21 Mfd. 450 V Electrolytic Con.	P 1206	85 Tube Socket

LOWER CENTER KNOB

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