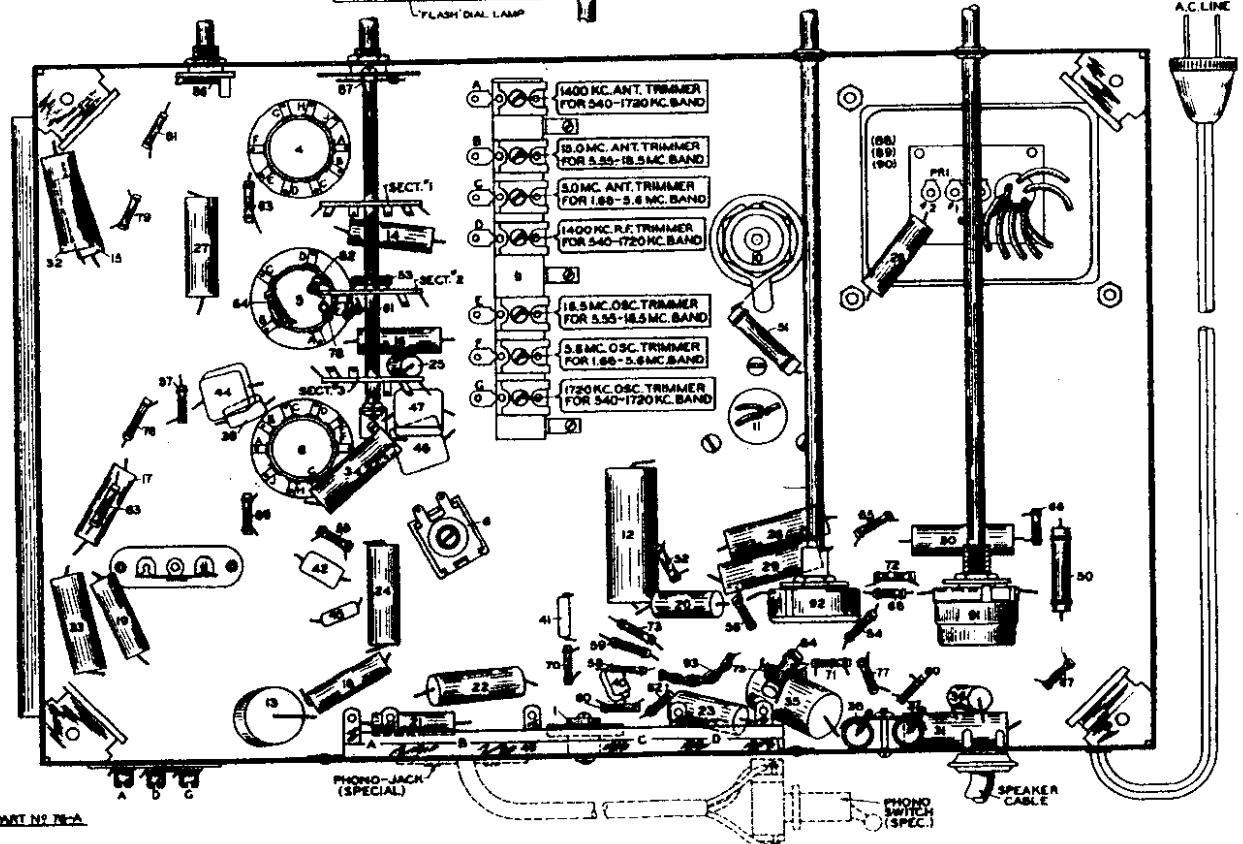
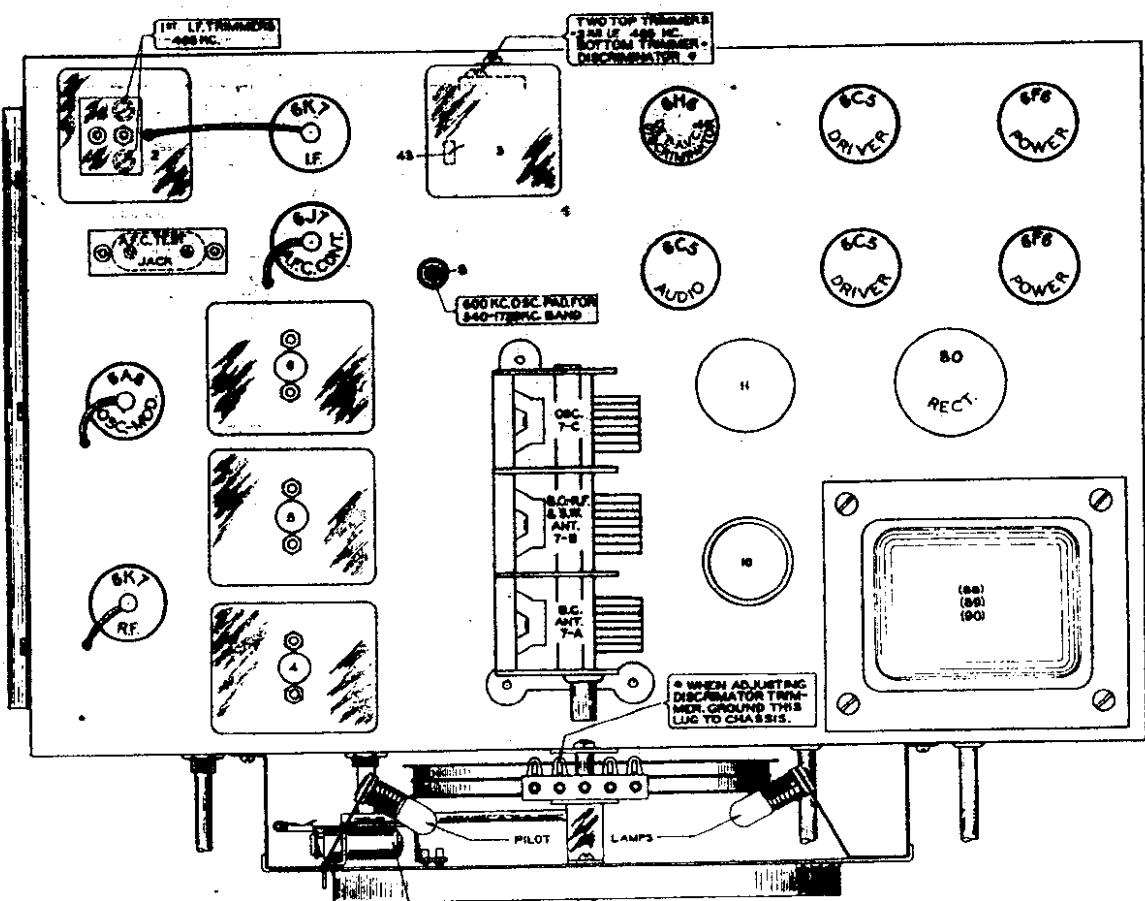




**ALLIED RADIO CORP.**

MODELS A9757, A9758  
Chassis 76A  
Socket Trimmers  
Layout



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**MODELS A9757, A9758  
Chassis 76A  
Alignment, Tuner**

**ALLIED RADIO CORP.**

#### **ALIGNMENT PROCEDURE:**

- SHOULD REALIGNMENT BE  
SEVERAL PRECAUTIONS TO  
BE OBSERVED. THESE ARE:

1. Do not align set until it has reached normal operating temperature. Place the receiver in operation at least 15 minutes before attempting to realign the set.
  2. The importance of using the proper type of test equipment and FOLLOWING THE ALIGNMENT PROCEDURE EXACTLY AS GIVEN CANNOT BE TOO STRONGLY EMPHASIZED—failure to do so will result in low sensitivity, poor selectivity, incorrect dial calibration, distortion and unsatisfactory operation of the automatic frequency control.
  3. It is absolutely necessary that an accurately calibrated test oscillator with some type of output measuring device, and a double scale milliammeter—0 to 1 M. A. and 0 to 5 M.A. be used.
  4. To assure most accurate adjustment always carefully repeat all adjustments several times.
  5. Once the alignment of the receiver has been completed, do not change the oscillator control tube, particularly with one of a different make.

**ALIGNING LF. STAGE AT 485 KILOCYCLES.**

- (a) Place automatic frequency control in the maximum left hand A.F.C. "off" position.
  - (b) Attach the ground lead of the test oscillator to the chassis. Connect the other lead to the grid cap of the 6AS tube through a .02 Mfd. series condenser. DO NOT REMOVE MOVE CLIP.
  - (c) Set test oscillator to EXACTLY 466 kilocycles and turn volume control on full.
  - (d) Remove shields held in position by snap fasteners over A.F.C. test jack and over trimmer screw holes in the first and second I.F. transformer shield cans.
  - (e) Peak second I.F. transformer trimmers for maximum 466 kilocycle output by adjusting the two trimmers accessible through the two top holes in the second I.F. transformer shield can. DO NOT TOUCH DISCRIMINATOR (BOT-TOM) SCREW.
  - (f) Peak each of the first I.F. transformer trimmers for maximum 465 kilocycle signal output.

**ALIGNING 1720-540 KILOCYCLE BAND:**

- (a) Check tuning dial adjustment by turning 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 the dial needle does not point exactly to the last line, move needle to correct position.
  - (b) Remove test oscillator lead from grid of 6A8 tube and connect to receiver "A" antenna post through a .00025 Mfd. condenser.
  - (c) Adjust A.F.C. control to maximum left hand A.F.C. "off" position and band selector switch for operation on the 1720-540 kilocycle band.
  - (d) Set test oscillator frequency and receiver dial to EXACTLY 1720 kilocycles, and BRING IN 1720 KILOCYCLE TEST OSCILLATOR SIGNAL TO MAXIMUM OUTPUT BY ADJUSTING 1720 KILOCYCLE OSCILLATOR TRIMMER.
  - (e) Tune receiver dial and set test oscillator frequency to EXACTLY 1400 kilocycles. Adjust 1400 K.C. R.F. and antenna trimmers for maximum sensitivity.
  - (f) Set test oscillator frequency and receiver dial to approximately 600 kilocycles. Then while rocking gang condenser slightly to right and left, adjust 600 K.C. oscillator paddle for maximum signal response.

#### **ALIGNING DISCRIMINATOR CIRCUIT:**

- (a) After completing 1720-540 kilocycle adjustment, set test oscillator to EXACTLY 465 KILOCYCLES and connect to grid of 6A8 tube through a .02 Mfd. Condenser—insert lead of double scale 0 to 1 and 0 to 5 milliammeter into A.F.C. test jack located on top of chassis adjacent to the 6L7 tube. To avoid possibility of damaging the meter should one of the milliammeter leads short to the metal chassis, **ALWAYS TURN OFF RECEIVER WHEN INSERTING OR REMOVING MILLIAMMETER LEADS FROM A.F.C. TEST JACK.**
  - (b) Short out A.F.C. mute switch by grounding the second from the left (looking at the front of the chassis) of the four lugs mounted on top of the dial assembly. The proper lug to ground is indicated in the "Note X" on chassis top parts view.
  - (c) Turn receiver on, place A.F.C. switch knob in A.F.C. "on" position and if meter needle jumps off scale adjust output of test oscillator until an approximate 2 M.A. deflection is obtained on the 0 to 5 milliammeter scale.

(4) Place band selector switch for operation on 1720-544 K.C. broadcast band—and set radio receiver dial somewhere near 1600 kilocycles at a point where no station is heard.

(5) Rotate A.F.C. switch knob from A.F.C. "on" to A.F.C. "off" position and note whether the milliammeter reading changes as the position of the A.F.C. switch is changed. No change in reading indicates probable proper discriminator trimmer adjustment, while a noticeable change indicates improper discriminator trimmer adjustment.

**IMPORTANT:** DO NOT ADJUST DISCRIMINATOR TRIMMER UNLESS IT IS ABSOLUTELY NECESSARY. Place A.F.C. switch in A.F.C. "off" position and note milliammeter reading; then place A.F.C. switch in A.F.C. "on" position and CAREFULLY ADJUST DISCRIMINATOR TRIMMER UNTIL MILLIAMMETER READING IS

**EXACTLY THE SAME AS IT WAS WITH THE A.F.C. SWITCH IN THE "OFF" POSITION.**

**NOTE:** As the discriminator trimmer screw is screwed in (increasing capacity) the milliammeter reading should decrease and as the discriminator trimmer is unscrewed (decreasing capacity) the milliammeter reading should increase. IF WHEN ADJUSTING THE DISCRIMINATOR TRIMMER THE MILLIAMMETER READING DOES NOT SHARPLY INCREASE OR DECREASE AS THE TRIMMER IS ADJUSTED EVEN AFTER SEVERAL TURNS OF THE TRIMMER SCREW, THIS DOES NOT INDICATE PROPER BALANCING BUT DOES INDICATE INCORRECT ADJUSTMENT AND THE DISCRIMINATOR TRIMMER SHOULD BE SET TO ABOUT  $\frac{1}{2}$  CAPACITY AND THE ADJUSTMENT OF THE DIS-

#### A8 ALIGNING 1.53-5.8 MHz CYCLE BAND:

- (a) Replace .00025 Mfd. test oscillator antenna lead series condenser with a 400 ohm resistor.

(b) Adjust band selector switch to 1.68-5.6 megacycles, tune receiver dial and set test oscillator frequency to EXACTLY 5.6 megacycles. Bring in 5.6 megacycle test signal to maximum output by adjusting 5.6 M. C. oscillator trimmer.

(c) Tune receiver dial and test oscillator frequency to EXACTLY 6 Megacycles and adjust 6 M.C. antenna trimmer for maximum sensitivity.

**ALIGNING & ES 185 MEGACYCLE BAND**

- (a) Leave 400 ohm resistor in series with test oscillator lead and place band selector switch for operation on 5.55-18.5 megacycle band, tune receiver dial and set test oscillator frequency to EXACTLY 18.6 megacycles.

(b) Adjust 18.6 M.C. oscillator trimmer to bring in 18.6 megacycle signal to maximum output.

**NOTE:** When adjusting this trimmer two peaks, the fundamental cycle test signal to maximum output.

- NOTE: WHEN ALIGNING THE RECEIVER TWO PEAKS, THE FUNDAMENTAL AND THE IMAGE PEAK WILL BE NOTICED. CARE MUST BE TAKEN THAT THE FUNDAMENTAL PEAK AND NOT THE IMAGE PEAK IS USED FOR ALIGNING THE RECEIVER AT 18.5 MEGACYCLES. Always back off the trimmer to minimum capacity, then screw down the trimmer (add capacity) until the FIRST peak which is the fundamental and the proper one to use is tuned in. If the trimmer is screwed down beyond the point where the first peak is received the incorrect image peak will be tuned in. After complete adjustment of the oscillator trimmer at 18.5 megacycles, always check to see if the proper peak has been used. To do this leave test oscillator frequency at 18.5 megacycles, increase the output of the test oscillator and tune receiver dial to approximately 17.6 megacycles. Then vary the receiver dial slightly to the right and left of 17.5 megacycles, and if the fundamental peak was used in aligning at 18.5 megacycles the test oscillator signal will be heard at approximately 17.6 megacycles on the receiver dial.

(c) Tune receiver dial and set test oscillator frequency to EXACTLY 16 megacycles.

- (c) Rock gang condenser slightly to right and left and adjust 15 M.C. antenna trimmer for maximum 15 megacycle test signal response.

To assure more accurate trimmer setting, repeat all above adjustments several times always using lowest possible test oscillator output consistent with readable output meter reading.

S.C. "Sister" Smith

- Automatic-Fiction tuning**

  - Lay station call letter tab sheet on flat surface and with a razor or sharp knife cut out desired tabs by cutting around the black edge of each required station tab.
  - Unscrew the two knurled head screws mounted on front of the glass frame and then holding onto the screws pull dial glass away from the cabinet.
  - To illustrate the proper setting and installation of the metal holder and station call letter tabs, the receiver is shipped from the factory with a tab properly set for Station WGN, 720 kilocycles. Carefully study the way the call letter tab and celluloid envelope is inserted in the metal holder, and if WGN is not one of the selected stations, remove WGN celluloid envelope and call letter tab by sliding the celluloid envelope out through the top of the metal holder. See "B" in diagram.

It is desirable to begin setting metal tab holders at the frequency end of the broadcast band (1400 Hertz) and automatically repeat the operation to maximum K.F. band position.

- THE METAL TAB HOLDER TO THE CORRECT POSITION.** See paragraphs 5 and 6 for proper procedure.

9. After metal holder is properly adjusted, for the selected station operating on the lowest frequency, set a station call letter tab holder for the station operating on the next lower frequency continuing on in this way until a tab holder is set for all the selected stations.

4. Turn electronic frequency and heterodyne filter selector carefully tune in the selected station which broadcasts on the lowest frequency—~~same~~ number of kilocycles.

6. By using the metal holder tool (see "A" in diagram) or by grasping with the finger tips, carefully slide the metal holder which is closest to the low frequency end of the broadcast band (640 kilocycles) along the metal rail to which the 12 metal holders are clipped, until a narrow light appears directly below the metal tab holder being adjusted.

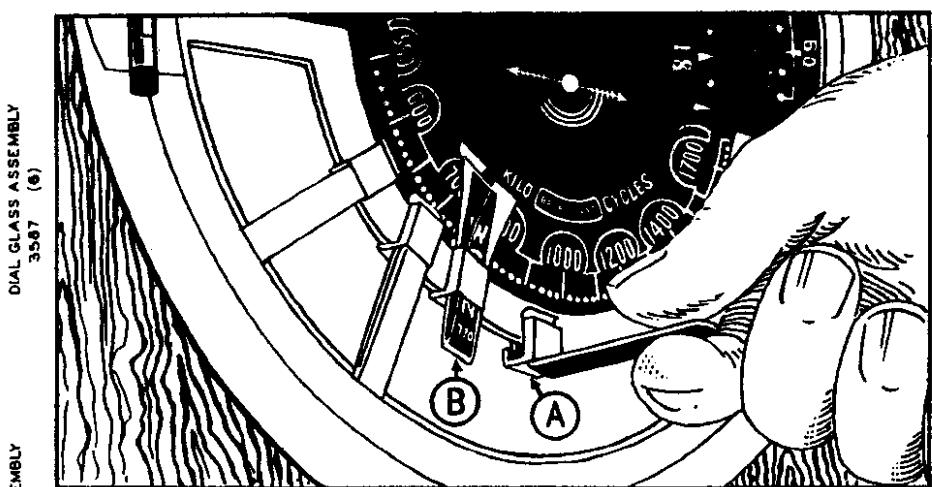
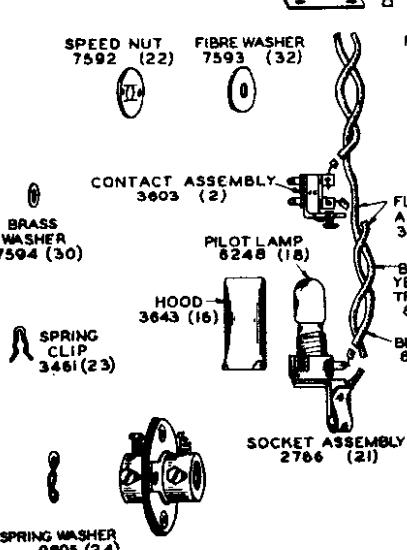
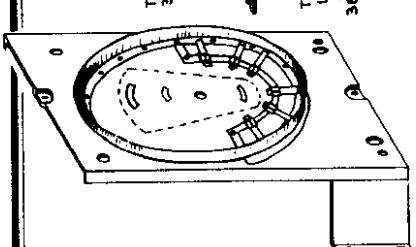
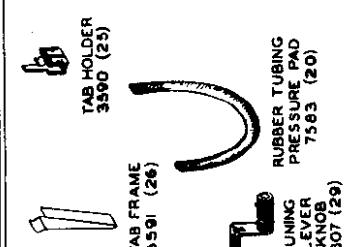
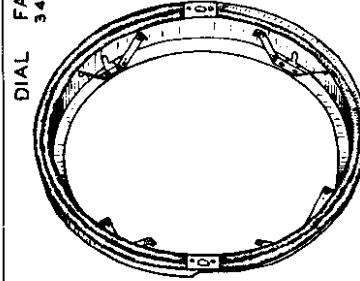
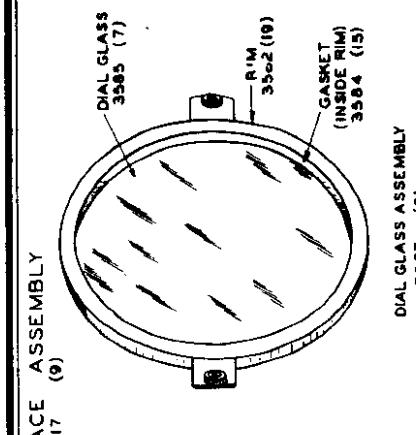
7. Place paper tab holding call letters and frequency of station tuned in inside of celluloid envelope . . . . insert the celluloid envelope with curved end to the rear . . . . turn the top of the metal holder (see "B" in diagram) and push the envelope down until the curved end of the celluloid envelope fits into the curved top of the metal holder.

8. Turn electronic frequency and heterodyne filter selector to the maximum right hand. Automatically the tab position, property set, the station tuned in will be held in its position. Property set, the while in this position the tab will hold the metal holder in its position.

NOTE: A distorted signal and motor noise, caused that is heard just as the station who is illuminated and only when the A.C. switch is turned on. This position is usually caused by too much contact between the metal tab and the contacts between the two contact points of the metal tab and the contacts of the other tabs.

## Dial Assembly, Parts Data

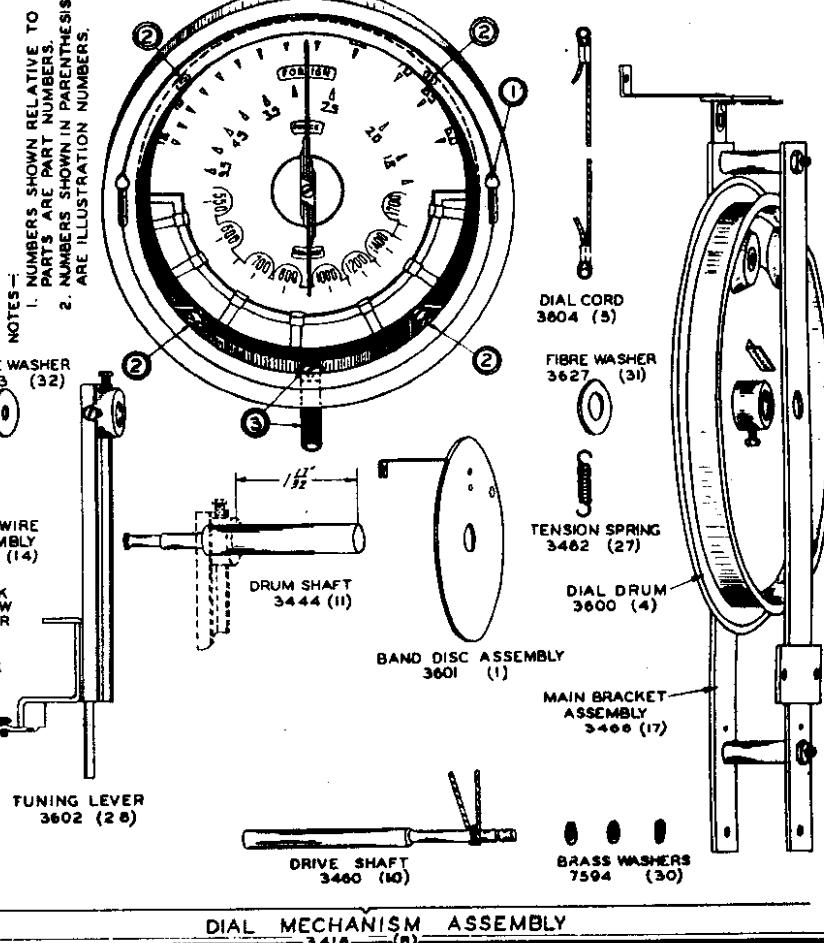
## ALLIED RADIO CORP.

MODELS A9757, A9758  
Chassis 76A

## PROCEDURE FOR REMOVING RECEIVER FROM CABINET.

1. Unscrew the two knurled head screws mounted on front of the glass frame and then holding onto the screws pull dial glass away from the cabinet.
2. Swing 'rapid tuning' lever to center position as shown, loosen (do not remove) screw thru hole in bottom center, and remove lever knob.
3. Loosen set screws on all five tuning knobs, and remove knobs from shafts. (Not shown in sketch).
4. Remove four bolts at bottom side of chassis mtg. shelf (not shown in sketch.)
5. Remove wood screws on the pressure brackets at rear of chassis (not shown in sketch) and then slide receiver out of cabinet.
6. When replacing receiver in cabinet, reverse entire procedure given above.

NOTES—  
1. NUMBERS SHOWN RELATIVE TO  
PARTS ARE PART NUMBERS.  
2. NUMBERS SHOWN IN PARENTHESIS  
ARE ILLUSTRATION NUMBERS.



## MODELS A9757, A9758

Chassis 76A

Parts

## ALLIED RADIO CORP.

## PARTS LIST

Illus. Part No.	Part No. Name	Description	List Price	Illus. Part No.	Part No. Name	Description	List Price
1 3557	Choke Coil	R. F. "B" Transformer	.33	47	1628	Condenser Wire Wound	.21
2 3398	Coil	First I.F. Transformer	.50	49	3392	Resistor Moulded Wire	.15
* 3399	Coil	Second I.F. Transformer	.275	50	3413	Resistor Moulded Wire	.20
4 3400	Coil	Antenna R. F.	2.10	51	3414	Resistor Moulded Wire	.19
5 3401	Coil	Oscillator	1.10	52	1942	Resistor Carbon .2 Meg Ohm	.19
6 3402	Coil	Three Gang Tuning Trimmer	1.76	53	1944	Resistor Carbon .2 Meg Ohm	.19
7 3407	Condenser	Wet Electrolytic (25 Mid.)	.50	54	1944	Resistor Carbon .2 Meg Ohm	.19
8 3408	Condenser	Dry Electrolytic (1.8 & 1.4 Mid.)	.95	55	1977	Resistor Carbon .2 Meg Ohm	.19
9 3409	Condenser	Dry Electrolytic (1.0 Mid.)	1.25	56	1977	Resistor Carbon .2 Meg Ohm	.19
10 3167	Condenser	Dry Electrolytic (4 Mid.)	1.25	57	3410	Resistor Carbon .2 Meg Ohm	.19
11 3041	Condenser	Tubular .05 Mid. 200 Volt	.75	58	3616	Resistor Carbon .4 Meg Ohm	.19
12 1693	Condenser	Tubular .05 Mid. 200 Volt	1.14	59	7958	Resistor Carbon .4 Meg Ohm	.19
13 1110	Condenser	Tubular .05 Mid. 200 Volt	1.19	60	7958	Resistor Carbon .4 Meg Ohm	.19
14 1147	Condenser	Tubular .05 Mid. 200 Volt	1.19	61	6984	Resistor Carbon .4 Meg Ohm	.19
15 1147	Condenser	Tubular .05 Mid. 200 Volt	1.44	62	6984	Resistor Carbon .4 Meg Ohm	.19
16 1147	Condenser	Tubular .05 Mid. 200 Volt	.95	63	8906	Resistor Carbon .50 Meg Ohm	.19
17 1147	Condenser	Tubular .05 Mid. 200 Volt	1.19	64	8906	Resistor Carbon .50 Meg Ohm	.19
18 1147	Condenser	Tubular .05 Mid. 200 Volt	1.19	65	8906	Resistor Carbon .50 Meg Ohm	.19
19 1147	Condenser	Tubular .05 Mid. 200 Volt	1.19	66	8906	Resistor Carbon .50 Meg Ohm	.19
20 1147	Condenser	Tubular .05 Mid. 200 Volt	1.19	67	8906	Resistor Carbon .50 Meg Ohm	.19
21 1147	Condenser	Tubular .05 Mid. 200 Volt	1.19	68	2155	Resistor Carbon .50 Meg Ohm	.19
22 9386	Condenser	Tubular .1 Mid. 200 Volt	1.19	69	8000	Resistor Carbon .50 Meg Ohm	.19
23 9386	Condenser	Tubular .5 Mid. 200 Volt	1.19	70	8000	Resistor Carbon .50 Meg Ohm	.19
24 9386	Condenser	Tubular .1 Mid. 200 Volt	1.19	71	8000	Resistor Carbon .50 Meg Ohm	.19
25 7860	Condenser	Tubular .01 Mid. 400 Volt	1.19	72	3334	Resistor Carbon .50 Meg Ohm	.19
26 7860	Condenser	Tubular .05 Mid. 400 Volt	1.19	73	6879	Resistor Carbon .50 Meg Ohm	.19
27 8961	Condenser	Tubular .05 Mid. 400 Volt	1.19	74	8007	Resistor Carbon .50 Meg Ohm	.19
28 8961	Condenser	Tubular .05 Mid. 400 Volt	1.19	75	8007	Resistor Carbon .50 Meg Ohm	.19
29 8961	Condenser	Tubular .05 Mid. 400 Volt	1.19	76	8007	Resistor Carbon .50 Meg Ohm	.19
30 8961	Condenser	Tubular .05 Mid. 400 Volt	1.19	77	8907	Resistor Carbon .50 Meg Ohm	.19
31 8961	Condenser	Tubular .05 Mid. 400 Volt	1.19	78	8907	Resistor Carbon .50 Meg Ohm	.19
32 9203	Condenser	Tubular .05 Mid. 400 Volt	1.19	79	7959	Resistor Carbon .50 Meg Ohm	.19
33 9203	Condenser	Tubular .1 Mid. 400 Volt	2.0	80	9706	Resistor Carbon .50 Meg Ohm	.19
34 9203	Condenser	Tubular .1 Mid. 400 Volt	2.0	81	1162	Resistor Carbon .600 Ohm	.19
35 3164	Condenser	Tubular .25 Mid. 400 Volt	2.0	82	1562	Resistor Carbon .600 Ohm	.19
36 1551	Condenser	Tubular .002 Mid. 600 Volt	2.26	83	*1152	Resistor Carbon .600 Ohm	.19
37 3536	Condenser	Shielded Tubular .007 Mid. 200 Volt	.18	84	3412	Resistor Carbon .600 Ohm	.19
38 3537	Condenser	Shielded Tubular .005 Mid. 200 Volt	.30	85	2730	Speaker Switch	11.00
39 2934	Condenser	Mica .0001 Mid.	.06	86	3405	Switch Automatic Frequency	.45
40 2934	Condenser	Mica .0001 Mid.	.03	87	3406	Band Selector	2.00
41 2934	Condenser	Mica .0001 Mid.	.03	21	88	3394 Transformer Power (95-260 Volt, 50 Cycle)	.850
42 2934	Condenser	Mica .0001 Mid.	.03	21	89	3395 Transformer Power (95-260 Volt, 25 Cycle)	.850
43 7934	Condenser	Mica .0001 Mid.	.03	21	90	3396 Transformer Power (95-260 Volt, 25 Cycle)	.850
44 1440	Condenser	Mica .0002 Mid.	.21	91	3404 Tone Control	1.20	
45 3539	Condenser	Mica .00015 Mid. Blue Dot	.21	92	3403 Volume Control	1.00	
46 2133	Condenser	Mica .0013 Mid. Yellow Dot	.27	93	3662 Condenser 4 M.M.F. Capacity	.10	
Note—* No. 3399 (3) Second I.F. Transformer replaced in late production with No. 3738 2nd I.F. Transformer.		Note—** No. 1152 (83) 400 Ohm Resistor replaced in late production with No. 6875 400 Ohm Resistor.		Note—** No. 3399 (3) Second I.F. Transformer replaced in late production with No. 3738 2nd I.F. Transformer.		Note—** No. 1152 (83) 400 Ohm Resistor replaced in late production with No. 6875 400 Ohm Resistor.	
Illus. Part No.	Part No. Name	Description	List Price	Illus. Part No.	Part No. Name	Description	List Price
200	Complete dial & face plate assembly	Including dial glass and escutcheon	\$12.75	18	6248	Pilot Light	.25
1 3601	Wave Band Disc Assembly	For dial glass and escutcheon	.12	19	3582	Rim	.17
2 3603	Contact Assembly	For dial glass and escutcheon	.20	20	7583	Rubber Tab	.33
3 3425	Flexible Rubber Assembly	For dial glass and escutcheon	.40	21	*3751	Screws	.20
4 3600	Dial Coupler With Bushing and Set Screws	For dial glass and escutcheon	.25	22	7592	Speed Nut	.33
5 3604	Cord Drum With Eye Terminal	For dial glass and escutcheon	.10	23	3461	Spring Clip	.22
6 3587	Dial Glass Assembly	For dial glass and escutcheon	.20	24	9803	Spring Washer	.22
7 3585	Semibody	For dial glass and escutcheon	.25	25	3590	Tab Holder	.22
8 3416	Dial Mechanism Complete Assembly	For dial glass and escutcheon	.45	26	3591	Tab Frame	.08
9 3417	Dial Face Assembly	Complete assembly of rim, glass, gasket, escutcheon, dial scale and face plate assembly	.40	27	3462	Tension Spring	.08
10 3460	Drive Shaft	For dial glass and escutcheon	.75	28	3602	Tuning Lever	.07
11 3444	Drum Shaft	For dial glass and escutcheon	.20	29	3607	Rapid "Flash" Lever	.07
12 3586	Escutcheon Assembly	For dial glass and escutcheon	.35	30	7594	Washer, Brass	.07
13 3605	Face Plate Assembly	For dial glass and escutcheon	.40	31	3627	Washer, Fibre	.07
14 3588	Flexible Wire	For dial glass and escutcheon	.06	32	7593	Washer, Fibre	.07
15 3584	Gasket	For dial glass and escutcheon	.06				
16 *3463	Hood	For dial glass and escutcheon	.11				
17 3466	Main Bracket Assembly	For dial glass and escutcheon	.15				

Prices are subject to change without notice

## DIAL PARTS

Illus. Part No.	Part No. Name	Description	List Price
47	Condenser	Wire Wound	.15
49	Resistor	Moulded Wire	.20
50	Resistor	Moulded Wire	.19
51	Resistor	Moulded Wire	.19
52	Resistor	Moulded Wire	.19
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