Allied Radio Corp.

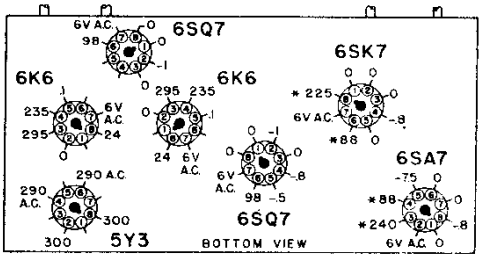
	Model: 6A-127	**Chassis:**	**Year:** Pre 1948
	Power:	**Circuit:**	**IF:**
	Tubes:		
	Bands:		

Resources
Riders Volume 18 - CHANGES 18-1
Riders Volume 15 - ALLIED 15-4
Riders Volume 15 - ALLIED 15-5

Admiral 7C65

The voltage data and parts list of model 7C65, chassis 7E1 were omitted from *page 17-3 of Rider's Volume XVII* and are here reproduced for inclusion in that Manual. The record changer for this receiver is the Admiral model RC170 or RC170A, the data for which will be found on *RCD.CH. page 16-1 of Rider's Volume XVI.*

VOLTAGE DATA — "Radiophone" switch in "Radio" position. Readings made between point indicated and chassis. Measured on 117-volt a-c line. Dial turned to low-frequency end, no signal. Voltages measured with a vacuum-tube voltmeter. If voltage readings are taken with "Radio-Phono" switch in "Phono" position, readings will be zero or practically zero.



RESISTORS

Symbol		Part No.
R1	22,000 Ohms, ½ Watt	60B 8-223
R2	15,000 Ohms, 2 Watt	60B 20-153
R3	47,000 Ohms, ½ Watt	60B 8-473
R4	4.7 Megohms, ½ Watt	60B 8-475
R5	270,000 Ohms, ½ Watt	60B 8-274
R6	270,000 Ohms, ½ Watt	60B 8-274
R7	1 Megohm, ½ Watt	60B 8-105
R8	220,000 Ohms, ½ Watt	60B 8-224
R9	4.7 Megohms, ½ Watt	60B 8-475
R10	270,000 Ohms, ½ Watt	60B 8-274
R11	270,000 Ohms, ½ Watt	60B 8-274
R12	680 Ohms, 2 Watt	60B 20-681
R13	2 Megohms, Tone Control	75B 1-8
R14	27,000 Ohms, ½ Watt	60B 8-273
R15	1 Megohm, Volume Control and Switch (SW2) Tapped at 500,000 Ohms	75B 2-2
R16	270,000 Ohms, ½ Watt	60B 8-274
R17	100,000 Ohms, ½ Watt	60B 8-104
R18	1,800 Ohms, 2 Watt	60B 20-182
R19	50 Ohms, 5 Watt	61A 1-6
R20	120,000 Ohms, ½ Watt	60B 8-124
R21	1,000 Ohms, ½ Watt	60B 8-102

CONDENSERS

Symbol		Part No.
C1	50 mmfd., Ceramic	65B 6-4
C2	20 mmfd., Ceramic (used only in early production)	65B 6-26
C3	.1 mfd., 400 Volts, Paper	64B 1-20
C4	.05 mfd., 400 Volts, Paper	64B 1-22
C5	100 mmfd., Ceramic	65B 6-3
C6	250 mmfd., Ceramic	65B 6-5
C7	.02 mfd., 400 Volts, Paper	64B 1-24
C8	.1 mfd., 200 Volts, Paper	64B 1-30
C9	.002 mfd., 600 Volts, Paper	64B 1-14
C10	.002 mfd., 600 Volts, Paper	64B 1-14
C11	.02 mfd., 400 Volts, Paper	64B 1-24
C12	.02 mfd., 400 Volts, Paper	64B 1-24
C13	.001 mfd., 600 Volts, Paper	64B 1-15
C14	.25 mfd., 200 Volts, Paper	64B 1-28
C15	.02 mfd., 400 Volts, Paper	64B 1-24
C16a	30 mfd., 350 Volts, Elect.	57C 6-22
C16b	30 mfd., 350 Volts, Elect.	
C17a	0-420 mmfd. (RF section)	
C17b	0-162 mmfd. (Osc. section) Gang and drum assembly A1550† (used in later production)	
C18	.002 mfd., 600 Volts, Paper	64B 1-14
C19	10 mmfd., Ceramic (used only in early production)	65B 6-24

CONDENSERS

Symbol		Part No.
C20a	4-70 mmfd. } Dual Trimmer	
C20b	4-70 mmfd. } (used with A1550 gang in later production	66A 1-10†
C21	500 mmfd., Ceramic	65B 6-6

† If early type tuning gang (with trimmers attached) must be replaced, use gang assembly A1550 and separate trimmer 66A1-10, and remove C2 and C19 from circuit.

COILS AND TRANSFORMERS

L1	Loop Antenna (11")	95A 18-2
L2	Coil, Loop Loading	69A 26-1
L3	Coil, Oscillator	69A 14
T1	Transformer, 1st IF (Slug tuned)	72B 46
T2	Transformer, 2nd IF (Slug tuned)	72B 47
	T1 & T2 were trimmer-tuned in early production.	
T3	Transformer, Power	80B 1
T4	Transformer, Output	98A 34-10

DIAL AND TUNING DRIVE PARTS

"C" Washer (used with tuning shaft)	4A 4-1
Crystal, Dial (for 7C65W & 7C65M)	24B 7
Crystal, Dial (for 7C65B cabinet)	24B 7-1
Cord, Dial Drive (30½")	50A 1-3
Dial Drum and Hub Assembly	A1380
Dial Scale Assembly	A1530
Pointer, Dial	A1303
Shaft, Pointer	28A 16
Shaft, Tuning	28A 10-1
Snap Button, Dial Crystal Fastening (used on 7C65B cabinet only)	13A 1-3-21
Socket, Pilot Light, with leads	82A 8-3
Spring, Dial Cable Tension	19B 1-5
Spring, Hairpin (for pointer shaft)	19A 2-4
Spring, on Tuning Shaft	19A 18
Spring Washer (for pointer shaft)	4A 6-9-0
Spring Washer (for tuning shaft)	4A 6-5-0

MISCELLANEOUS

SW1	Switch, Radio-Phono	77A 16-2
SW2	Switch, AC power	Part of R15
SW3	Switch and Lever, part of record changer assembly)	G400A 162
M1	Socket, Speaker	87A 6-1
M2	Speaker, includes M3 and T4	78B 29
M3	Plug, Speaker	88A 4-4

MISCELLANEOUS

Description	Part No.
Grommet, Condenser Gang Mounting	12A 1-2
Socket, Octal Tube	87A 5-1

PHONOGRAPH PARTS

Note: See record changer manual for complete parts list.

M4 Socket and Leads	89A 6-6
M5 Socket, Phono Pickup	88A 5-8
M6 Pickup Cable & Plug	A1415
M7 Cartridge & Needle, Pickup	A1372
M8 Motor	407B 3-2
M9 Plug, Motor (Male)	88A 8-1
Centerpost	G400B 137-1
Drive Disc (under Turntable)	G400A 179
Eye Bolt (for Tilt-Out Spring)	1A 87-1
Idler Wheel (407B3 Motor)	G400A 23
Idler Wheel (407B1 Motor)	G400A 57
Nut, Wing (for fastening record changer during shipment)	2A 5-9-2
Strip, Sponge Rubber (1/16x¼x1")	12A 5-5
Tilt-Out Hinge Assembly (Pickup Arm Side)	AC118-2
Tilt-Out Hinge Assembly (Record Support Side)	AC118-1
Tilt-Out Spring (2¼" long)	19A 15-1
Tilt-Out Tie Bar	15B 126
Tilt-Out Tie Rod	28A 22

CABINET PARTS

*Cabinet Walnut (7C65W)	35E 67-1
Mahogany (7C65M)	35E 67-2
Blond (7C65B)	35E 67-3
Door Catch and Strike Plate	98A 34-9
*Door, Radio and Phono Tilt-Out pair for 7C65W	98A 34-1
pair for 7C65M	98A 34-2
pair for 7C65B	98A 34-3
Door Handle, Radio or Phono Comp. for 7C65W, 7C65M	98A 34-4
for 7C65B	98A 34-5
Grille Cloth	98A 34-8
Hinge, Radio Door pair for 7C65W, 7C65M	98A 34-6
pair for 7C65B	98A 34-7
Knob	33A 13-3
Washer, Felt (used under tuning knobs)	5A 4-4

* Supplied only if old part cannot be repaired. When ordering, describe condition of old part in detail.

Admiral Models 7RT41, 7RT42, 7RT43

These models are shown on *pages 16-11 and 16-2 of Rider's Volume XVI.* An error has been found in the part number of the SW2 radio-phono switch in the service information on these models. The part number of this switch should be 77A16-1 instead of 77A16-2.

Admiral Chassis 9A1

This chassis is shown on *pages 16-6 to 16-8 of Rider's Volume XVI.* It has been found that the dial windows of these chassis build up a small electrostatic charge, thus causing the plastic to attract fine dust particles. These are so fine that the dial windows appear milky or foggy.

Treating the windows with a solution called Hexco Dust-Ded reduces the amount of fine dust that collects on them. The dial window should be removed from the cabinet to apply the solution properly. Remove the knobs and the screws holding the escutcheon to the cabinet. Clean the window by wiping off the dust thoroughly on both sides with a damp (not wet) cloth or chamois skin. Apply the Hexco Dust-Ded according to the directions on the bottle.

Part No.	*Description*
98A11-2	Hexco Dust-Ded

Allied Radio 6A-127 Revised, 6B-127, 6C-127

This model is the same as Model 6A-127 appearing on *pages* 15-4 *and* 15-5 *of Rider's Volume XV,* except for the following changes. Part 36 has been changed in value from one megohm to 220,000 ohms and the bottom side of this resistor has been moved from the negative filament line (junction of parts 34 and 17 and 47) to the ave bus (junction of parts 33, 34, 14, and 35). Part 40 has been changed in value from 220,000 ohms to 100,000 ohms. Part 13 is now connected from the junction of resistor 39 and the secondary of the first i-f transformer to the positive side of the filament of the IN5GT tube instead of from the junction to the common negative as previously.

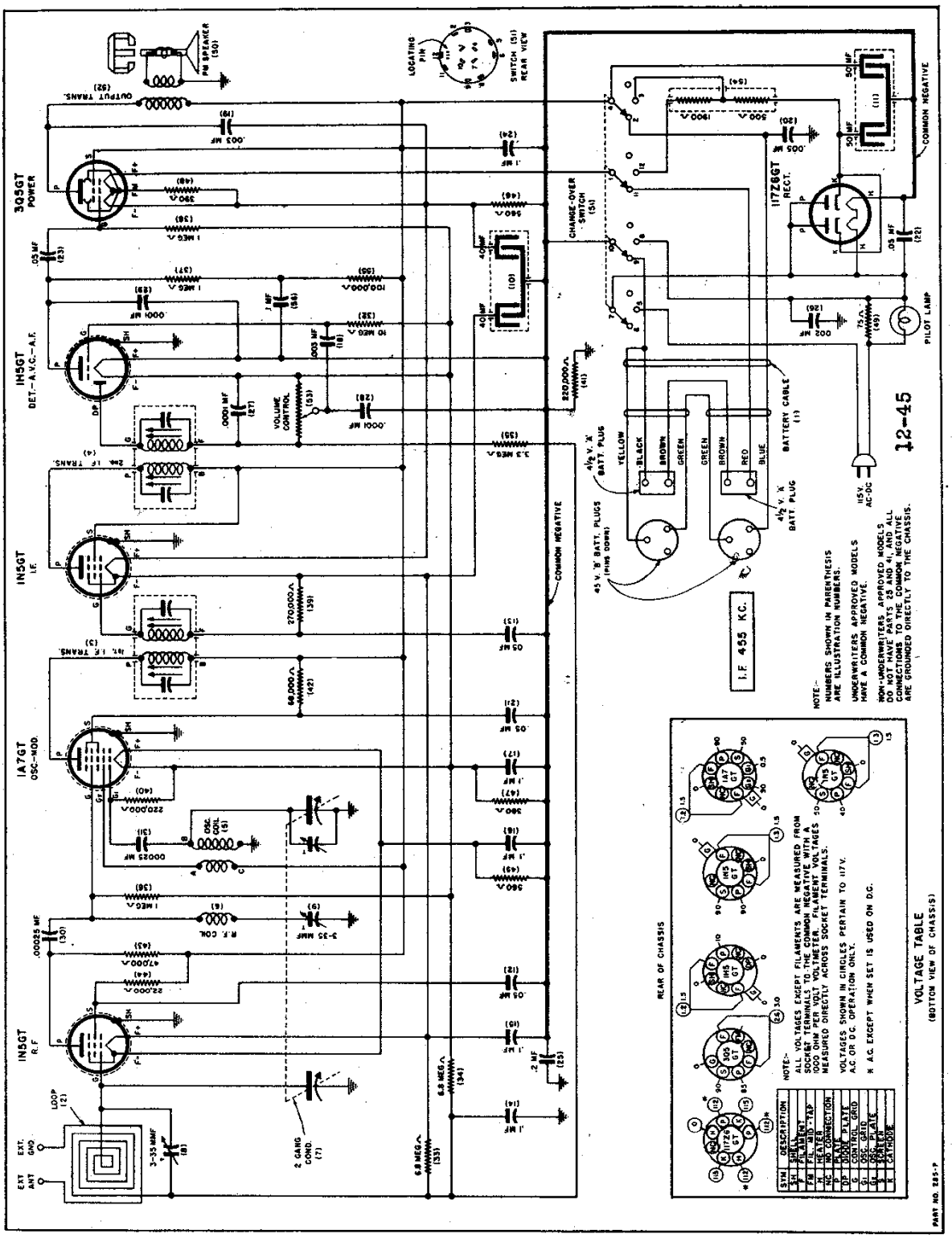
Part 28 is now connected from the negative side of the filament of the 1H5GT tube to the grid of that tube instead of from the center arm of the volume control to the common negative. The bottom side of part 19 is now connected to the junction of part 48 and the center tap of the filament of the 3Q5GT tube, and thence to the left-hand side as shown on the schematic) of capacitor 10. This part was formerly connected directly to the right-hand side of the same capacitor. The connection from the negative side of the filament of the IN5GT tube to the left-hand side of capacitor 10 has been removed. A 68-ohm resistor has been inserted in the high side of the 45-volt battery lead.

The following changes have been made in the parts list.

Illus. No.	*Part No.*	*Description*
36	27E224	Carbon, 220,000 Ohm, ½ W.
40	27E104	Carbon, 100,000 Ohm, ½ W.

MODEL 6A-127

ALLIED RADIO CORP.



Before starting alignment:

(a) Check tuning dial adjustment by tuning 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 dial needle does not point exactly to last line move to correct position.

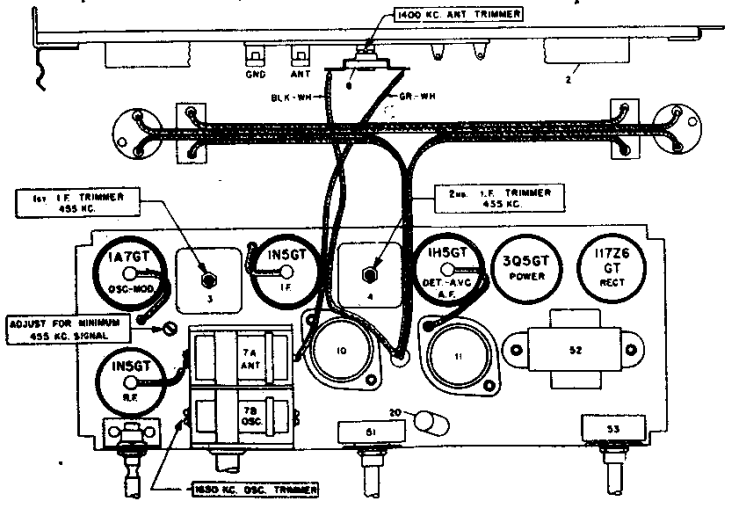
(b) Use an accurately calibrated test oscillator with some type of output measuring device.

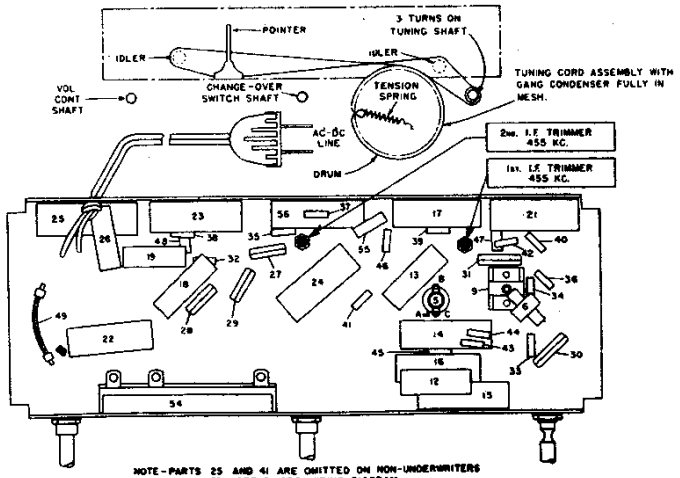
(c) WHEN ADJUSTING 1650 KC OSCILLATOR TRIMMER AND 455 KC TRIMMER remove chassis from cabinet and disconnect the white-green and white-black loop connection wires from the 1400 KC loop antenna trimmer. Attach a 1 megohm resistor across these wires and feed output of test oscillator across the 1 megohm resistor.

(d) THE 1400 KC LOOP ANTENNA TRIMMER is accessible through hole in cabinet back. It should be adjusted only after all other adjustments have been made and with the set mounted in the cabinet and the back IN CLOSED position. When aligning the 1400 KC trimmer connect test oscillator output to the "ANT" and "GND" clips that are attached to the inside of the cabinet back.

TEST OSCILLATOR

Steps	Set receiver dial to:	Adjust test oscillator frequency to:	Use dummy antenna in series with output of test oscillator consisting of:	Attach output of test oscillator to	Refer to parts layout diagram for location of trimmers mentioned below:
1	Any point where no interfering signal is received	Exactly 455 K. C.	0.2 Mfd. Condenser	High side to grid of 1A7GT tube. Low side to chassis (if non-Underwriter Approved) or Common Negative (if Underwriter Approved).	Adjust each of the 2nd I.F. transformer trimmer adjustment screws for maximum output, then adjust each of the 1st I.F. transformer trimmer adjustment screws for maximum output.
2	Rotate gang condenser to maximum capacity	Exactly 455 K. C.	See paragraph (C) above	See paragraph (C) above	Adjust R. F. coil trimmer for minimum 455 K. C. signal.
3	Rotate gang condenser to minimum capacity	Exactly 1650 K. C.			Adjust 1650 K. C. oscillator trimmer for maximum output.
4	Approximately 1400 K. C.	Approx. 1400 K. C.	See paragraph (D) above	See paragraph (D) above	Adjust 1400 K. C. antenna trimmer for maximum output.





NOTE-PARTS 25 AND 41 ARE OMITTED ON NON-UNDERWRITERS APPROVED MODELS, SEE WIRING DIAGRAM.

ALLIED RADIO CORP.

ALLIED PAGE 15-5

MODEL 6A-127