

MODELS 5Y22, 5Y22A, Ch. 5Y2

**ALIGNMENT PROCEDURE**

- Turn receiver volume control full on.
- Antenna must be connected and placed in the same relative position to the chassis as when in cabinet.
- Use an isolation transformer if available, otherwise connect a .1 mfd. condenser in series with low side of signal generator and connect to chassis. Caution: Do not connect a ground wire directly to chassis.
- Connect output meter across speaker voice coil.
- Use lowest output setting of signal generator capable of producing adequate output meter indication and proceed in the following sequence.
- Repeat adjustments to insure good results.

Step	Dummy Antenna in Series with Signal Generator	Connection of Signal Generator (High Side)	Signal Generator Frequency	Receiver Gang Setting	Trimmer Description	Trimmer Designation	Type of Adjustment
1	250 mmfd. condenser	Tuning condenser, antenna stator	455 KC	Gang fully open	2nd IF 1st IF	*A, B *C, D	Maximum output
2	250 mmfd. condenser	Tuning condenser, antenna stator	1620 KC	Gang fully open	Oscillator	E	Maximum output

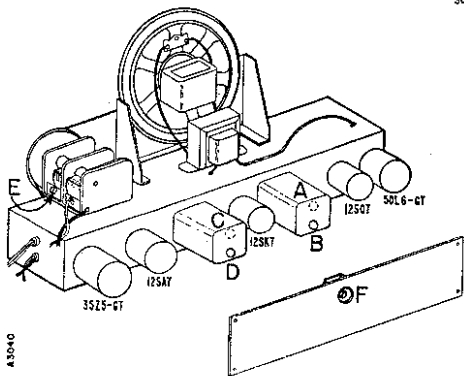
Mount dial pointer. Set pointer to horizontal position with tuning condenser tuned to 1400 KC generator signal (see Dial Stringing and Pointer Setting diagram below). Rotate the tuning condenser until the pointer is in a vertical position (900 KC), then slip chassis in cabinet, carefully guiding the pointer so that it locates between the dial escutcheon and the cabinet. Install antenna and chassis mounting bolts.

3	Loop of several turns of wire, or place generator leads close to receiver antenna for adequate signal pickup.	No actual connection (signal by radiation)	1400 KC	Tune in generator signal	Antenna	†F	Maximum output
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\*Adjustments A and C made from the underside of the chassis. If IF transformers have hollow core slugs, these adjustments may all be made from the top of chassis, if you use alignment tool #98A30-7 obtainable from your Admiral distributor. The bottom IF slug adjustment may be reached through the hollow core in the upper slug.

†Antenna Trimmer "F" should be aligned after chassis and antenna are mounted in cabinet.

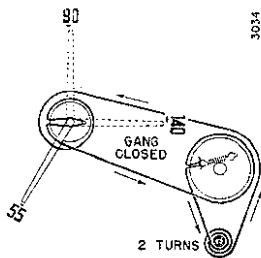
**TUBE AND TRIMMER LOCATION**



Adjustments A and C made from underside of chassis.

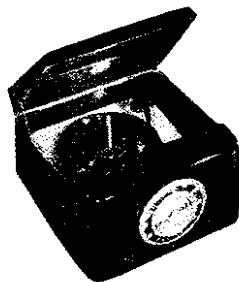
**DIAL STRINGING AND POINTER SETTING**

Solid lines show dial stringing and pointer position with gang closed. Dashed lines show pointer positions (1400 KC and 900 KC) when gang condenser is tuned to a generator signal.



**RECORD CHANGER SERVICE DATA**

The changer model number will be found stamped at the top rear of the changer base and also on the changer model label.



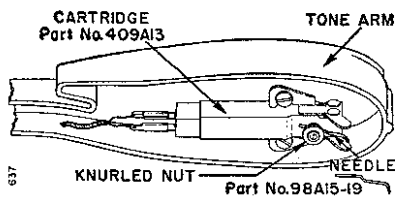
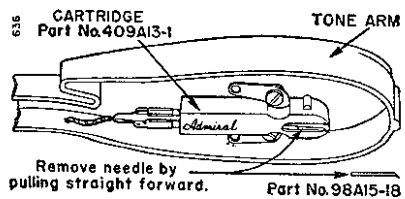
Models 5Y22 and 5Y22A

**DIFFERENCES IN MODELS**

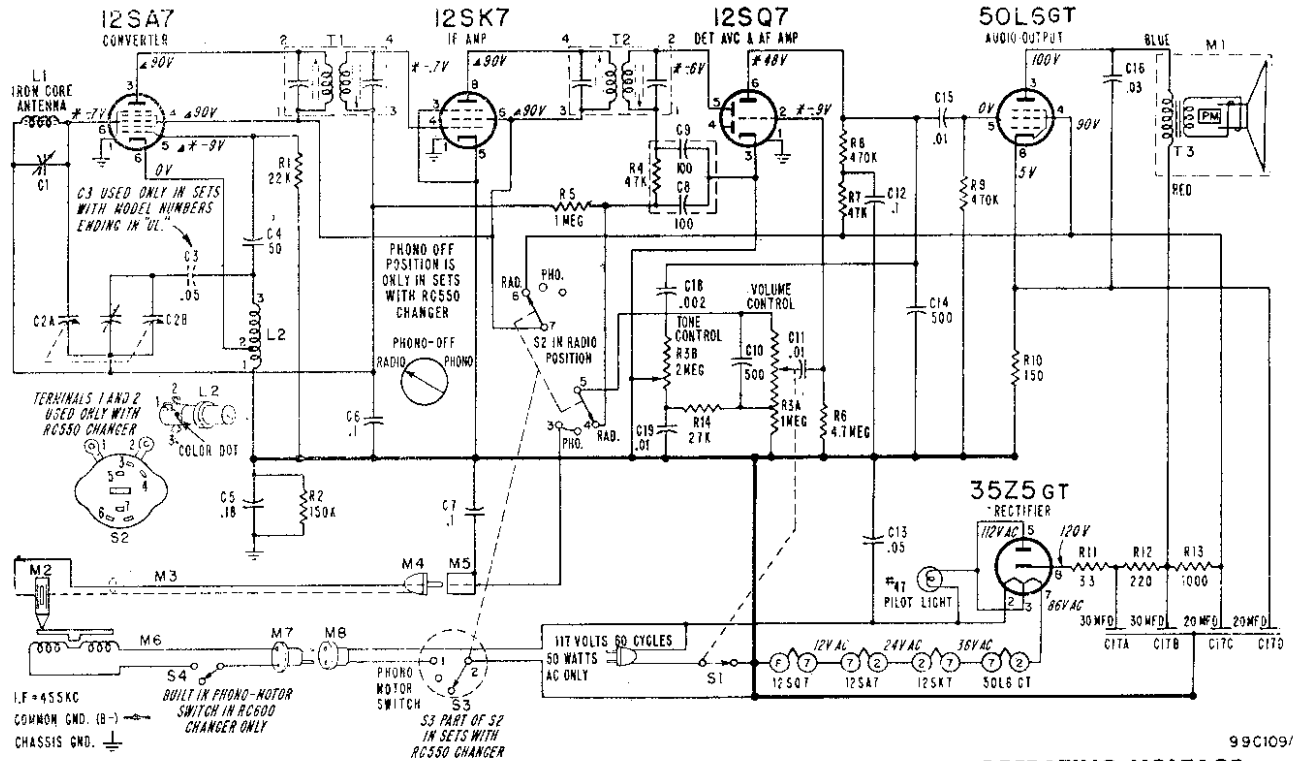
Models 5Y22 and 5Y22A are the same with exception of the Radio-Phono switch and the record changer. Model 5Y22 has a 3 position Radio-Phono switch and uses the RC550 record changer. Model 5Y22A has a 2 position Radio-Phono switch and uses the RC600 record changer. See circuit notes on schematic.

**Cartridge and Needle**

As shown in the illustrations, alternate cartridges may be used. Cartridges are interchangeable when complete with needle.



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99C1097

\* These readings will be lower if taken with a 1000 ohm-per-volt meter.  
 ▲ These readings will be zero on "Phono"; all other DC readings may be slightly higher.

**OPERATING VOLTAGE**  
 117 volts, 60 cycles AC only; 50 watts

**VOLTAGE DATA**

Volts given on schematic diagram.

- All readings made between tube socket terminals and B minus (terminal of On-Off switch).
- Radio-Phono switch S2 in "Radio" position.
- Measured on 117 Volt, 60 Cycle AC line.
- Volume control minimum; dial turned to low end.
- Voltages measured with Vacuum Tube Voltmeter.

RESISTORS		
Symbol	Description	Part No.
R1	22,000 ohms, 1/2 watt	60B 8-223
R2	150,000 ohms, 1/2 watt	60B 8-154
R3A	1 megohm, Volume	75B 11-8
R3B	2 megohms, Tone	
(R3 includes switch S1)		
R4	47,000 ohms, 1/2 watt	60B 8-105
R5	1 megohm, 1/2 watt	60B 8-475
R6	4.7 megohms, 1/2 watt	60B 8-473
R7	47,000 ohms, 1/2 watt	60B 8-473
R8	470,000 ohms, 1/2 watt	60B 8-474
R9	470,000 ohms, 1/2 watt	60B 8-474
R10	150 ohms, 1 watt	60B 14-151
R11	33 ohms, 1 watt	60B 28-3
R12	220 ohms, 1 watt	60B 28-7
R13	1,000 ohms, 1 watt	60B 28-2
R14	27,000 ohms, 1/2 watt	60B 8-273

CONDENSERS		
Symbol	Description	Part No.
C1	Trimmer, 3 to 30 mmfd.	66A 33
C2A	Ant. 324 mmfd, max.	68B 30-1
C2B	Osc. 108 mmfd, max.	
(Dial drum spotwelded to gang)		
C3	.05 mfd, 400 volts, paper	64B 1-7
C4	50 mmfd, ceramic	65C 6-4
C5	.18 mfd, 200 volts, paper	64A 2-2
C6	.1 mfd, 200 volts, paper	64B 1-5
C7	.1 mfd, 200 volts, paper	64B 1-5
C8	100 mmfd, ceramic	65C 6-6
C9	100 mmfd, ceramic	
C10	500 mmfd, ceramic	65C 6-6
C11	.01 mfd, 400 volts, paper	64B 1-10
C12	.1 mfd, 200 volts, paper	64B 1-5
C13	.05 mfd, 400 volts, paper	64B 1-7
C14	500 mmfd, ceramic	65C 6-6
C15	.01 mfd, 400 volts, paper	64B 1-10
C16	.03 mfd, 400 volts, paper	64B 1-8
C17A	30 mfd, 150 volts	67A 14-1
C17B	30 mfd, 150 volts	
C17C	20 mfd, 150 volts	elect.
C17D	20 mfd, 25 volts	
C18	.002 mfd, 600 volts, paper	64B 1-14
C19	.01 mfd, 400 volts, paper	64B 1-10

COILS, TRANSFORMERS, ETC.		
Symbol	Description	Part No.
L1	Rod Antenna (includes board and C1)	69B 144
L2	Coil, Oscillator	69A 52
T1	Transformer, 1st IF	72B 50

Symbol	Description	Part No.
T2	Transformer, 2nd IF	72B 51
T3	Transformer, Output	79A 11-3
M1	Speaker, (5" PM)	78B 39-3
M5	Socket, Phono Input	88A 1
M8	Socket & Leads, Motor	89A 6-3
S1	Switch, On-Off	Part of R3
S2	Switch, Radio-Phono for sets with RC550 record changer	77A 28-1
	for sets with RC600 record changer	77A 45
S3	Switch, Phono-Motor (S3 used only in sets with RC550 record changer)	Part of S2
	Diode Filter	63A 3-1

MISCELLANEOUS		
	Carton and Fillers	44B 213
	Clip, Electrolytic Mounting	18A 10-6
	Speed Nut (esc. mtg.)	2B 10-28-50
	Dial Cord (40" length needed)	50A 1-3
	Drum, Pointer	17A 27
	Gasket, Sponge Rubber (mounts on speaker)	12B 43
	Grommet, Rubber (gang mtg.)	12A 1-2
	Insulator, Phono Receptacle	32A 46
	Manual, Customer Instruction for RC550 record changer	41B 20-19
	for RC600 record changer	41B 20-25
	Manual, Service for RC550 record changer	S327
	for RC600 record changer	S454
	Pilot Light, #47	81A 1-8
	Pointer, Dial	25A 35-3
	Shaft, Pointer	28A 42
	Shield, Pilot Light	82A 15-1
	Sleeve, Pointer Shaft	27A 162-1
	Sleeve, Tuning (brass)	27A 123
	Socket, Pilot Light	82A 2-2
	Spacer, "T" (gang condenser mtg.)	29A 2-1-71
	Spring, Dial Cord Tension	19B 1-5
	Washer, "C" (for pointer drum)	4A 4-6
	Washer, Spring	4A 6-10-0

CABINET PARTS		
	Cabinet, Plastic	
	Bottom, less lid	34D 28-5
	Lid only	34D 28-6

Description	Part No.
Clamp, Cable	11A 2-2
Escutcheon, Dial	23C 51-2
Escutcheon Ring (gold trim)	23A 53-1
Hinge	37A 8-1
Hinge Screw (6/32x1/4 BH MS)	365-250-C2-58
Hinge Stud	27A 17-1
Jewel, Pilot Light	82A 14-1
Knobs, Radio	
"Tuning" (outer knob)	33D 55-7
"Radio-Phono" (inner knob)	33D 55-43
"Off-On Volume" (inner knob)	33D 55-47
"Tone" (outer knob)	33D 55-9
Rubber Bumper for cabinet bottom	12B 3-4
for cabinet top	12A 9-8
Speed Nut, Escutcheon Retaining	2B 10-35-68
Spring, Escutcheon Retaining	19A 60
Stay Arm and Plate	37A 9-1
Washer, Felt (for tuning knobs)	5A 4-18

PHONOGRAPH PARTS		
M2	Cartridge Pickup (includes needle)	409A 13
M3	Cable, Shielded Pickup (includes plug)	413A 11-1
M4	Plug, Pickup Cable	88A 2-3
M6	Motor, Phono (3 speed) for RC550 record changer	407B 19
	for RC600 record changer	407C 20
M7	Plug, Motor (Male)	88A 8-1
Adapter, 45 RPM (envelope of 12)		
	for RC550 record changer	48A 8-1
	for RC600 record changer	48A 8-2
	Button, Snap-in Plug	13A 2-8-57
Centerpost Assembly		
	for RC550 record changer	G400B 505-1
	for RC600 record changer	G400B 601
	Idle Wheel (includes tire) for RC550 record changer	G400A 59
	for RC600 record changer	G400A 279
Manual, Service		
	for RC550 record changer	S327
	for RC600 record changer	S454
Needle, Pickup		
	for 409A13 cartridge	98A 15-19
	for 409A13-1 cartridge	98A 15-18
	Needle Retaining Nut (for 409A13 cartridge)	98A 54-2
	Screw and Washer, Changer Mounting (10-32x1/4 RH MS)	AA210
	Spring, Changer Float	19A 10-3

§Part of Diode Filter 33A 3-1. This unit consisting of C8, C9 and R4 may be replaced with individual components.