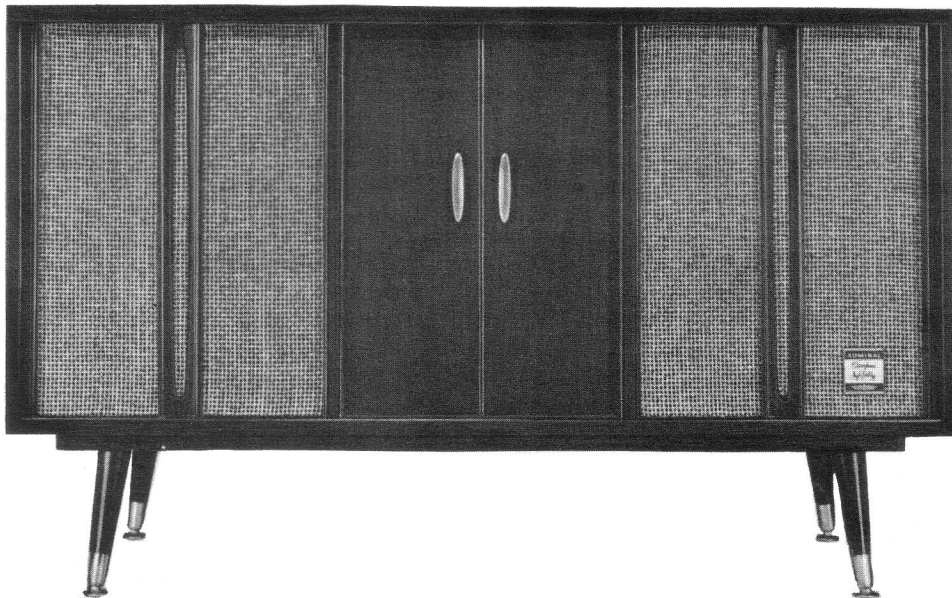


ADMIRAL

SERVICE MANUAL

T1145



CHASSIS
5Y1CX & 8Y1CX
RUN 5

AM & AM-FM STEREO PHONO

MODEL IDENTIFICATION CHART			
MODEL NUMBER	CHASSIS NUMBER	RECORD CHANGER	CARTRIDGE
Y2451X	5Y1CX RUN 5	9400L6-1 ADMIRAL	409B34-2-1
Y2456X	5Y1CX RUN 5	9400L6-1 ADMIRAL	409B34-2-1
Y2511X	8Y1CX RUN 5	9400L4-5 GARRARD AT6	9400M8-2
Y2516X	8Y1CX RUN 5	9400L4-5 GARRARD AT6	9400M8-2
Y3401AX	8Y1CX RUN 5	9400L6-1 ADMIRAL	9400K2-3
Y3406AX	8Y1CX RUN 5	9400L6-1 ADMIRAL	9400K2-3
Y3451X	8Y1CX RUN 5	9400L6-1 ADMIRAL	409B34-2-1
Y3456X	8Y1CX RUN 5	9400L6-1 ADMIRAL	409B34-2-1
Y2611X	8Y1CX Run 5	9400L4-5 Garrard AT6	9400M8-2
Y2616X	8Y1CX Run 5	9400L4-5 Garrard AT6	9400M8-2

SPECIFICATIONS

ANTENNA:

AM: Air Loop

FM: Built-In, Transmission Line Type.

CIRCUIT

Superheterodyne, using eight miniature tubes and two diodes, and one silicon rectifier.

TUBE AND DIODE COMPLEMENT:

- V1 ECC85/6AQ8 (FM RF Amplifier and FM mixer-oscillator)
- V2 6AU6 (1st IF Amplifier)
- V3 6AU6 (2nd IF Amplifier)
- V4 6AL5 (FM Detector)
- V5 6BE6 (AM Converter)
- V6 12AX7 (Left and Right Channel AF Amplifier)
- V7 6GW8 (Sound Output and Sound Amplifier, Left Channel)
- V8 6GW8 (Sound Output and Sound Amplifier, Right Channel)
- CR1 Silicon Diode (AFC Diode) Valvo BA102
- CR2 1N541 (AM Detector)
- CR3 93L5-3 (Rectifier, 500 MA)

CONTROLS:

Tuning

On-Off/Treble: (Dual Channel)

Bass: (Dual Channel)

Balance: (Dual Channel)

Loudness: (Dual Channel)

Function: (AM, FM, FM Stereo (multi), Phono)

AFC Switch: (On-Off)

FREQUENCIES:

RF AM: 535 -1620 KC

FM: 88-108 MC

IF AM: 455 KC

FM: 10.7 MC

OPERATING VOLTAGE:

105-120 volts, 60 cycle AC only.

POWER OUTPUT:

6.0 Watts total at 10% distortion.

FREQUENCY RESPONSE:

40 cycles to 15,000 cycles.

WATTAGE CONSUMPTION:

85 watts

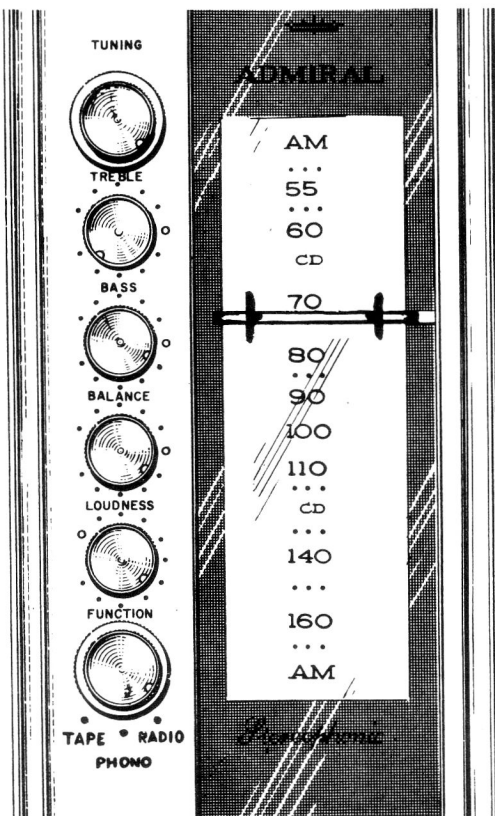


FIG. 1 5Y1CX RUN 5 CONTROL PANEL

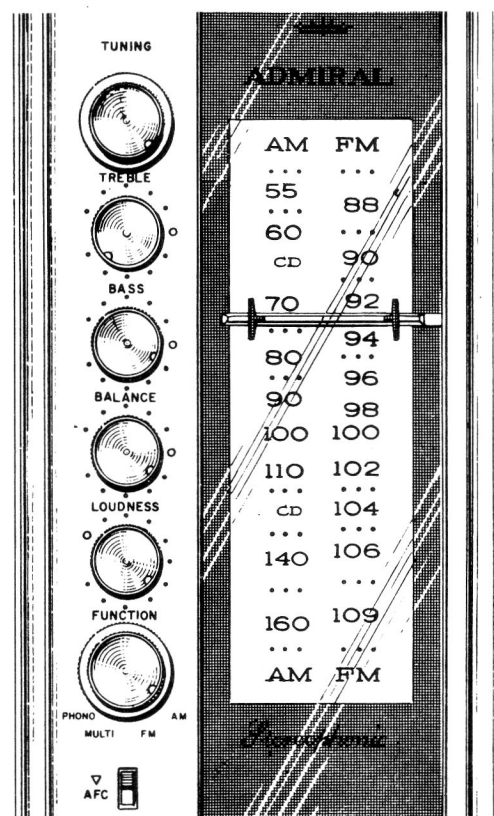


FIG. 2 8Y1CX RUN 5 CONTROL PANEL

GENERAL

The models included in this manual are combination console models with an FM-AM radio and dual channel stereophonic phonograph with provisions for FM Stereo adapter.

For FM or FM Stereo reception, first tune to the desired station with the AFC switch in the "off" position. Then slide the AFC switch to "on" for drift-free operation.

The Stereo phonograph consists of a four speed automatic record changer with a dual-output cartridge, a dual amplifying system and two separate speaker systems.

THE FM TUNER

The FM tuner has been designed for better than average sensitivity consistent with good selectivity. Most components are incorporated into an etched circuit board. The entire tuner, including the input IF transformer, is completely encased (shielded).

The tuner employs a dual triode ECC85/6AQ8 tube acting as a RF Amplifier and combined oscillator-mixer.

The 2nd triode of this tuner is Automatic Frequency Controlled by a diode in its grid circuit. AFC is achieved by the voltage developed by the ratio detector being

applied across the special diode CR1. The capacity across this diode varies in proportion to the applied voltage and in turn corrects any frequency drift of the FM oscillator.

It is important to note that in a regenerative type circuit, in this case the RF stage, some form of control is required to prevent the circuit from breaking into oscillations. This is accomplished by feedback from plate to cathode of the RF tube, through trimmer C6. C6 is shown as adjustment "L". See Fig. 19

This tuner is very stable and will seldom need alignment, since it has been carefully aligned at the factory. Complete alignment of the tuner should not be attempted without proper test equipment, using information given in this manual.

IMPORTANT: Any misadjustment of the neutralization trimmer C6 may cause extreme oscillations, very distorted reception, weak or no reception at all.

Due to the unique design of this tuner in compactness of size, complete shielding, components mounted on an etched circuit board, etc., any major tuner repairing is not recommended. No parts for the tuner have been shown in the parts list for this reason.

First decide by actual test, if the tuner is defective, then replace with a new one.

FM TUNER REPLACEMENT

To replace tuner, it is necessary to remove only four Robertson head screws mounting the tuner to the chassis, after first removing all associated components and leads. It is not necessary to remove the dial cord attached to the tuner, as the replacement tuner is supplied with the proper length of cord.

If tuner is replaced, adjust cord tension and check the tuning range. The tuners supplied for replacement have been carefully aligned at the factory before shipment, so that only a touch-up alignment should be needed.

If the set does not tune properly through the FM range (88 MC to 108 MC), first check dial cord tension and correct placement of collar retainers, before deciding on tuner realignment.

To adjust string tension or shift the FM tuning range, loosen collars on the tuning shaft and rotate them until the set tunes through the proper FM range.

If only the ECC85/6AQ8 tube needs replacement, select a tube that will provide the proper tuning range, so that realignment is unnecessary.

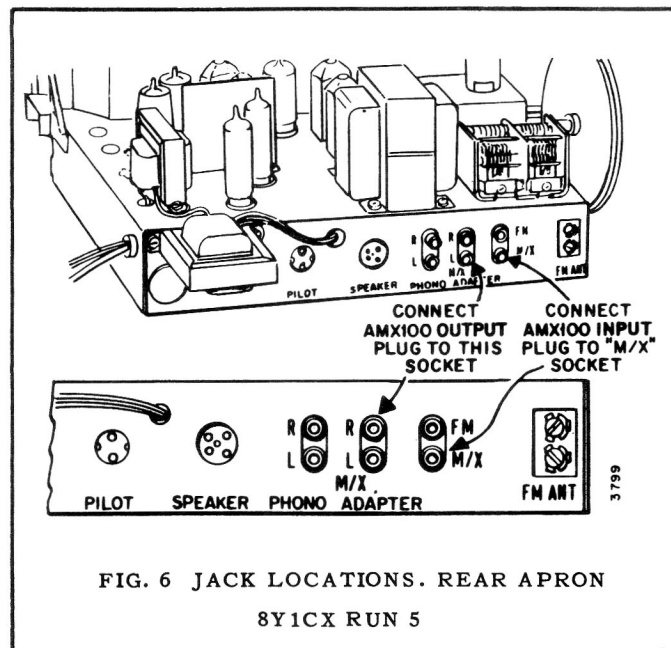


FIG. 6 JACK LOCATIONS. REAR APRON
8Y1CX RUN 5

REPLACEMENT CARTRIDGES

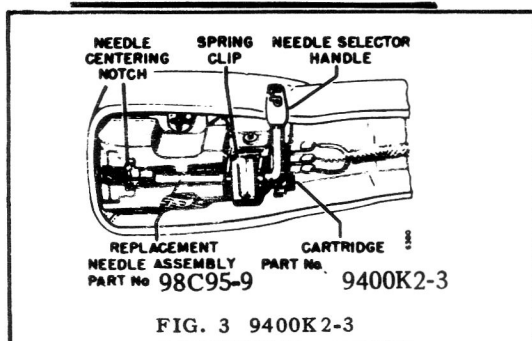


FIG. 3 9400K2-3

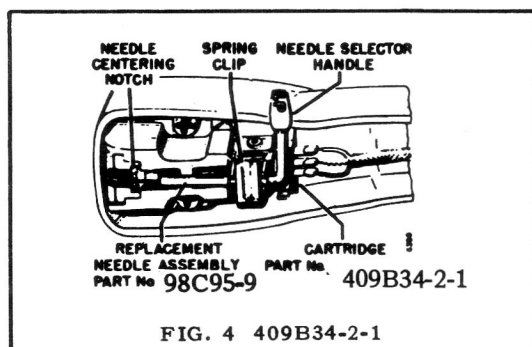


FIG. 4 409B34-2-1

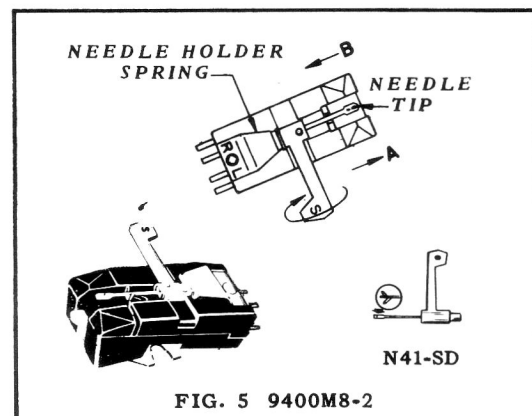


FIG. 5 9400M8-2

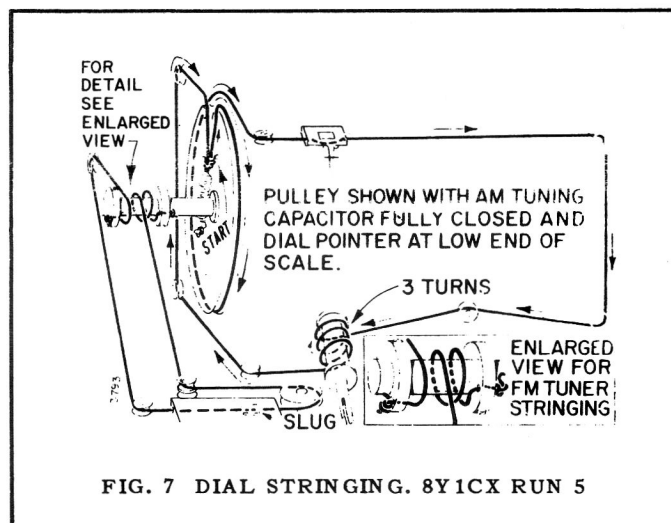


FIG. 7 DIAL STRINGING. 8Y1CX RUN 5

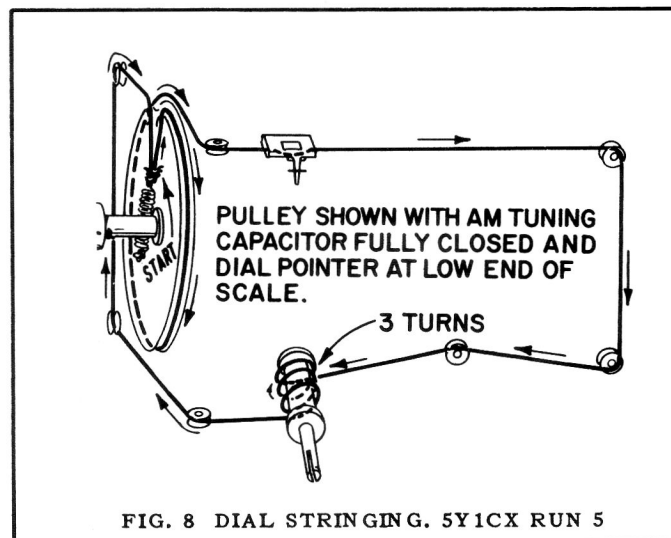
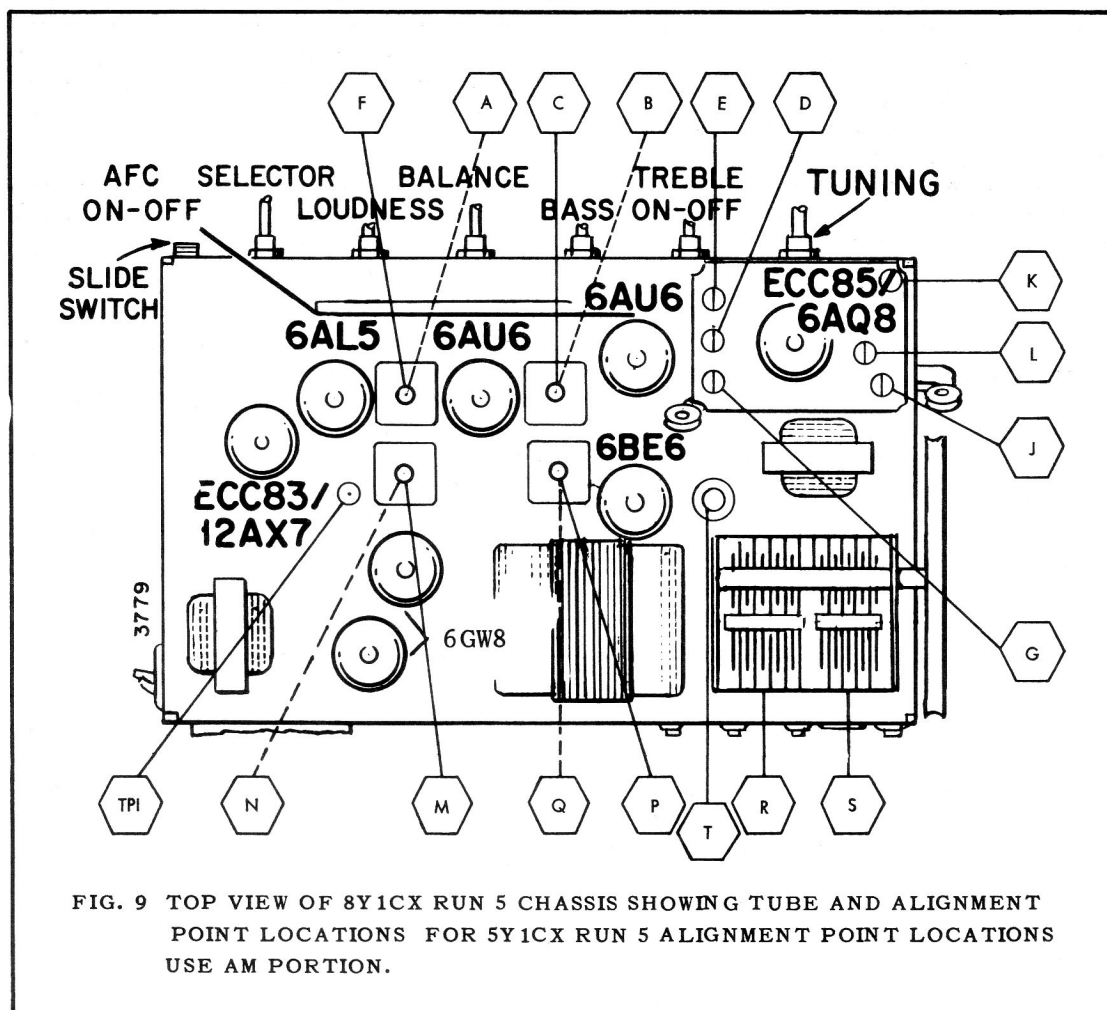


FIG. 8 DIAL STRINGING. 5Y1CX RUN 5



ALIGNMENT PROCEDURE

AM ALIGNMENT FOR 5Y1CX RUN 5 & 8Y1CX RUN 5 CHASSIS TURN FUNCTION SWITCH TO AM POSITION (CCW)				
STEP	CONNECTION OF SIGNAL GENERATOR	SIGNAL GENERATOR FREQUENCY	RECEIVER GANG SETTING	ADJUST
1	Through a .1 mf capacitor to antenna section of tuning gang.	455 KC 30% Mod.	Fully open	M, N, P, & Q for max. on output meter.
2	Use a radiated signal. Loop of several turns of wire, or place generator lead close to antenna loop for adequate signal pickup.	1620 KC 30% Mod.	Fully open	R for max.
3		535 KC 30% Mod.	Fully closed	T for max.
4	Same as Steps 2 & 3	Repeat above two steps until 535-1620 KC range is established.		
5	Same as Steps 2 & 3	1400 KC 30% Mod.	Tune in generator signal	S for max.

RF AND IF ALIGNMENT FOR 8Y1CX RUN 5 USING AM SIGNAL GENERATOR AND VTVM

- Allow set and test equipment to warm up for at least 5 minutes before an alignment.
- Turn function switch to FM position (2nd from CCW) AFC switch to OFF. Connect output meter from chassis ground to high side of either "L" or "R" voice coil connection at speaker socket. If speakers are not connected, then connect 3.2 ohm 5 watt load across each speaker channel.
- Before proceeding with alignment, see Step 7.
- Set loudness control to minimum position.
- For IF alignment, inject the 10.7 MC unmodulated signal by means of an ungrounded tube shield atop the RF tube (ECC85).
- For RF alignment, inject signal into antenna terminals as follows: High side of signal generator to bottom screw through a 120 ohm resistor; low side to top screw through a 150 ohm resistor.
- Use the lowest signal input possible to provide a usable reading on the 1.5 volt minus DC scale, except in Step 2. In Step 2, use maximum signal and the zero center scale.
- Use non-metallic alignment tools. Use hex tool (Part No. 98A30-12) for IF transformers and an insulated screw driver type, with a blade no wider than 3/32", for the tuner adjustments.

STEP	SIGNAL GENERATOR CONNECTION	SIGNAL GENERATOR FREQUENCY	RECEIVER DIAL SETTING	VTVM CONNECTION	ADJUST	REMARKS
1	Ungrounded tube shield atop RF tube (ECC85)	10.7 MC Unmod.	High end (Dial fully clockwise)	High side to TP1. See Fig. 9 Ground lead to chassis.	A, B, C, D and E for max.	"E" should be turned inward until the 2nd peak is found.
2	Same as Step 1	10.7 MC Unmod.	Same as Step 1	Move VTVM lead to M/X jack	F for zero center	Use zero center scale on VTVM. Increase signal input to max.
3	Check oscillator range before proceeding. High end, 108.4 MC. Low end, 87.6 MC. Check dial cord for correct tension and placement. To take up slack or shift the tuning range, loosen collars on tuning shaft and rotate to provide tension and proper range.					
4	Antenna terminals through resistors described in paragraph 6 above	108.4 MC (Unmod.)	Same as Step 1	Same as Step 1	G for max.	Only slight adj. will be required.
5	Same as Step 4	94 MC (Unmod.)	Tune in 94 MC on dial	Same as Step 1	J for max.	Repeat steps 5 & 6 until no further increase. Make Step 5 last adjustment.
6	Same as Step 4	90 MC (Unmod.)	Tune in 90 MC on dial	Same as Step 1	K for max.	
7	Before or after alignment, if set has low sensitivity, squeals or howls at any point on the dial, first make certain there are no defective components, then check adjustment of the neutralization trimmer C6 (Adjustment "L"). See Fig. 9 Disconnect antenna, turn volume control to maximum and tune in a station (or point of maximum noise). Turn C6 clockwise until set cuts out, then reverse rotation slightly until station (or noise) is received loud and clear. For improved bandwidth, continue to rotate CCW another fractional turn.					

PARTS LIST FOR 8Y1CX RUN 5 CHASSIS

RESISTORS			CAPACITORS		
Sym.	Description	Part No.	Sym.	Description	Part No.
R3	390 ohm, 1/2W, 10%.....	60B8-391	C4	.001 mfd, 20%.....	65D10-53
R5	390 ohm, 1/2W, 10%.....	60B8-391	C7	.001 mfd, 20%.....	65D10-53
R6	470K ohm, 1/2W, 10%.....	60B8-474	C10	.1 mfd, 20%, 200V.....	64L6-39
R7	3.3K ohm, 1/2W, 10%.....	60B8-332	C23	.01 mfd, GMV, 1/2" diam disc only.....	65D10-3
R8	390 ohm, 1/2 W, 10%.....	60B8-391	C24	27 mmfd $\pm$ 1 mmfd, NPO.....	65D6-17
R9	68 ohm, 1/2W, 10%.....	60B8-680	C25	.01 mfd, 20%.....	65D10-41
R10	390 ohm, 12W, 10%.....	60B8-391	C26	.01 mfd, GMV, 1/2" diam disc only.....	65D10-3
R11		Part of M22 Couplate	C27		Part of M22 Couplate
R12		Part of M22 Couplate	C28		Part of M22 Couplate
R13		Part of M22 Couplate	C29	Electrolytic, 4 mfd, 50V.....	67D4-54
R14		Part of M22 Couplate	C30	.001 mfd, GMV.....	65D10-6
R15		Part of M22 Couplate	C31		Part of M22 Couplate
R16		Part of M22 Couplate	C32		Part of M22 Couplate
R17	1 meg ohm, 1/2W, 10%.....	60B8-105	C33	.01 mfd, GMV, 1/2" diam disc only.....	65D10-3
R18	1 meg ohm, 1/2W, 10%.....	60B8-105	C34	.01 mfd, GMV, 1/2" diam Disc. only.....	65D10-3
R19	270K ohm, 1/2W, 10%.....	60B8-274	C35	.01 mfd, GMV, 1/2" diam disc only.....	65D10-3
R20	270K ohm, 1/2W, 10%.....	60B8-274	C36	100 mmfd, 10%.....	65D10-228
R21	82K ohm, 1/2W, 10%.....	60B8-823	C37	.001 mfd, 10%.....	65D10-58
R22	82K ohm, 1/2W, 10%.....	60B8-823	C38	.001 mfd, 10%.....	65D10-58
R23A	Dual Control Loudness 3.3 meg..	75D46-26	C39	.005, 20%.....	65D10-188
R23B	Dual Control Loudness 3.3 meg..	75D46-26	C40	.005, 20%.....	65D10-188
R24	6.8 meg ohm, 1/2W, 10%.....	60B8-685	C41	.01 mfd, GMV, 1/2" diam. disc only.....	65D10-3
R25	6.8 meg ohm, 1/2W, 10%.....	60B8-685	C42	.01 mfd, GMV, 1/2" diam. disc only.....	65D10-3
R26	2.2K ohm, 1/2W, 10%.....	60B8-222	C43	100 mmfd, 10%.....	65D10-228
R27	2.2 K ohm, 1/2W, 10%.....	60B8-222	C44	.01 mfd, GMV, 1/2" diam disc only.....	65D10-3
R28	47K ohm, 1/2W, 10%.....	60B8-473	C45	100 mmfd, 20%.....	65D10-84
R29	47K ohm, 1/2W, 10%.....	60B8-473	C46	10 mfd, 475 V.....	67D4-33
R30A	Dual Control, Treble, On-Off 1 meg	75L10-12	C47	100 mmfd, 20%.....	65D10-84
R30B	Dual Control, Treble, On-Off 1 meg	75L10-12	C48	.01 mfd, GMV, 1/2" diam. disc only.....	65D10-3
R31	120K ohm, 1/2W, 10%.....	60B8-124	C49	220 mmfd, 20%.....	65D10-83
R32	120K ohm, 1/2W, 10%.....	60B8-124	C50	2200 mmfd, 20%.....	65D10-89
R33A	Dual Control, Bass 1 meg.....	75L10-11	C51	2200 mmfd, 20%.....	65D10-89
R33B	Dual Control, Bass 1 meg.....	75L10-11	C52	220 mmfd, 20%.....	65D10-83
R34	12K ohm, 1/2W, 10%.....	60B8-123	C53	.01 mfd, GMV, 1/2" diam disc only.....	65D10-3
R35	12K ohm, 1/2W, 10%.....	60B8-123	C54	.001 mfd, 20%.....	65D10-53
R36	120K ohm, 1/2W, 10%.....	60B8-124	C55	.01 mfd, 20%.....	65D10-41
R37	120K ohm, 1/2W, 10%.....	60B8-124	C56	.01 mfd, 20%.....	65D10-41
R38A	Dual Control, Balance 1 meg.....	75L10-13	C57	.001 mfd, 20%.....	65D10-53
R38B	Dual Control, Balance 1 meg.....	75L10-13	C58	100 mmfd, 20%.....	65D10-84
R39	6.8 meg ohm, 1/2W, 10%.....	60B8-685	C59	100 mmfd, 20%.....	65D10-84
R40	6.8 meg ohm, 1/2W, 10%.....	60B8-685	C60	.005 mfd, GMV.....	65D10-5
R41	2.2K ohm, 1/2W, 10%.....	60B8-222	C61	.005 mfd, GMV.....	65D10-5
R42	2.2K ohm, 1/2W, 10%.....	60B8-222	C62	.02 mfd, - 20% $\pm$ 80.....	65D10-28
R43	100K ohm, 1/2W, 10%.....	60B8-104	C63	.02 mfd, - 20% $\pm$ 80.....	65D10-28
R44	100K ohm, 1/2W, 10%.....	60B8-104	C64	500 mmfd, 20%.....	65D10-2
R45	330K ohm, 1/2W, 10%.....	60B8-334	C65	500 mmfd, 20%.....	65D10-2
R46	330K ohm, 1/2W, 10%.....	60B8-334	C67A	Variable Gang Capacitor....	68C90-1
R47	1K ohm, 1/2W, 10%.....	60B8-102	C67B	Variable Gang Capacitor....	68C90-1
R48	1K ohm, 1/2W, 10%.....	60B8-102	C69	47 mmfd, 10% N750.....	65D10-177
R49	150 ohm, 1W, 5%.....	60B13-151	C70	.05 mfd, -20% $\pm$ 80, 50V.....	65C45-32
R50	180 ohm, 1W, 5%.....	60B13-181	C71	47 mmfd, 10%, N750.....	65D10-177
R51	100 ohm, 1/2W, 10%.....	60B8-101	C72	.01 mfd, GMV, 1/2" diam disc only.....	65D10-3
R52	2.2 meg ohm, 1/2W, 10%.....	60B8-225	C73	47 mmfd, 10%, N750.....	65D10-177
R53	22K ohm, 1/2W, 10%.....	60B8-223	C74	100 mmfd, 20%.....	65D10-84
R54	2.2 meg ohm, 1/2W, 10%.....	60B8-225	C75		Part of M8 Couplate
R55	3900 ohm, 1/2W, 10%.....	60B8-392			
R56	100K ohm, 1/2W, 10%.....	60B8-104			
R57	390K ohm, 1/2W, 10%.....	60B8-394			
R58	100K.....	Part of M8 Couplate			
R59	270K ohm, 1/2W, 10%.....	60B8-274			
R60	270K ohm, 1/2W, 10%.....	60B8-274			
R62	470K ohm, 1W, 10%.....	60B14-474			
R63	.47 ohm, 1/2W, 10%.....	60D28-73			
R64	5.6K ohm, 7W, 10%.....	61B24-743			
R65	10K ohm, 1/2W, 10%.....	60B8-103			
R66	3.3 ohm, 1/2W, 10%.....	60D28-10			

PARTS LIST FOR 8Y1CX RUN 5 CHASSIS

CAPACITORS

Sym.	Description	Part No.
C76	Part of M8 Couplate	
C77	.001 mfd, 20%.....	65D10-53
C78	.001 mfd, 20%.....	65D10-53
C80	.047 mfd, 600V.....	64L6-9
C81	.02 mfd, -20%+80.....	65D10-28
C82	.01 mfd, GMV 1/2" diam disc only.....	65D10-3
C83	.005 mfd, GMV.....	65D10-5
C84	.005 mfd, GMV.....	65D10-5
C85	.005 mfd, GMV.....	65D10-5
C86	.001 mfd, 20%.....	65D10-53
C87A	Electrolytic, 150, 300V.....	67M2-26
C87B	Electrolytic, 100, 300V.....	67M2-26
C87C	Electrolytic 40, 300V.....	67M2-26
C87D	Electrolytic 80, 25V.....	67M2-26

COILS

L3	Antenna, Air Loop.....	69M15-1
L4	Coil, Oscillator, AM.....	69B243-3
L5	Choke (With End Bells).....	74M7-18
L6	Filter Choke, Air Wound.....	73C2-15

TRANSFORMERS

T3	10.7 MC I.F. Transformer	72D225-2
T4	455 KC I. F. Transformer.....	72D227-1
T5	455 KC I.F. Transformer.....	72D227-1
T6	Ratio Detector, Transformer....	72D196-2
T7	Output Transformer.....	79N13-1
T8	Output Transformer.....	79N13-1
T9	Power Transformer.....	80N26-1

MISCELLANEOUS PARTS FOR 8Y1CX RUN 5
CHASSIS

Description	Part No.
A. M. Detector Diode	1N541
Chassis Base.....	14E309-2
Rail-Pointer Guide.....	15B2403-1
Bracket-Dial R. H.....	15B2404-1
Bracket-Dial L. H.....	15B2405-1
Bracket-Dial Mounting.....	15C2406-1
Bracket-Chassis Support.....	15C2407-1
Bracket-Pulley.....	15A2413-1
Shield, Tube Socket.....	15A2414-1
Bracket-Switch.....	15C2421-1
Shield-Control.....	15B2432-1
Shield-Heat.....	15B2437-1
Bracket, Tuner Support	15A2443-1
Bracket, Pulley Idler.....	15C2451-1
Shield-Dial Light.....	15C2493-1
Pulley-Nylon (1).....	17C1-92
Pulley-Nylon (7).....	17C1-93
Clip, Capacitor Mtg. Snap-In Type.....	18A92-4
Spring-Dial Cord.....	19D1-5
Dial Scale (Long) Left Vert Position.....	21C149-1
Escutcheon-Upper (Long).....	23D470-2
Escutcheon-Control Panel (Long) Left Vertical Position.....	23D471-4
Bushing-Tuning (Staked to 14E309).....	27A322-1
Collar Set (Mounted to Gang Condenser, ..	27B341-1
Shaft, Tuning (mounted in 27A322-1).....	28A148-1
1" Spacer.....	29C2-2
Screen-Background.....	32B541-1
Amploc Plug.....	33B287-1
Knob-Preference Control.....	33D432-6
Knob-Rear Function Control.....	33D432-8
Knob-Rear Tuning.....	33D432-10
Dial Pointer (Part of 700C346 Ass'y).....	33B484-1
Cord-Dial.....	50A1-3
Plastic Ties.....	50B8-2

MISCELLANEOUS PARTS FOR 8Y1CX RUN 5
CHASSIS Cont'd

Description	Part No.
F M Tuner.....	53D3-5
Diode Filter Couplate M8.....	63A3-2
Ratio Detector Couplate M22.....	63D6-24
Clip, I. F. Mounting.....	72D28-10
Slide Switch D. P. D. 7.....	77C1-49
Function Switch.....	77C126-1
Pilot Light Bulb (#1847).....	81B1-19
Shield Pilot Light.....	82D24-9
Socket, Pilot Light.....	82A42-2
Shield, Tube Tapered, 7 Pin.....	87C7-19
Shield, Tube Tapered, 9 Pin.....	87C7-20
Socket, Tube, Shield Base, 9 Pin.....	87C23-2
Socket, Tube, Shield Base, Min 7 Pin.....	87C23-4
Socket, Tube, Min 9 Pin.....	87B25-1
Socket, Tube, Min 7 Pin.....	87A39-10
Phono Jack.....	88B1-8
Socket, Speaker, 4 Prong.....	88B5-3
Socket & Plug.....	88B5-6
Line Cord (8' Hanked).....	89W1-3
Silicon Diode, 500 MA, 800V, P.I.V.	93L5-3
300 ohm, Transmission Line (7').....	95Y16-27

CABINET PARTS LIST FOR MODELS Y3401AX-
06AX-Y2511X-Y2516X

Record Changer (Garrard AT6) Y2511X- 16X.....	9400L4-5
Record Changer (Admiral) Y3401AX- Y3406AX.....	9400L6-1
Cartridge (Admiral) Y3401AX-06AX..	9400K2-3
Cartridge (Astatic 17D) Y2511X-16X..	9400M8-2
FM-AM Radio & Stereo Amplifier....	8Y1CX Run 5
Clamp (89N5-1 to Changer).....	11B12-4
Monogram (Stereophonic) Y2511X-16X, 23B376-3	
Tee Spacer (Mtg. AM Ant.).....	29A2-12
Term. Brd. F.M. Ant. (Part of 700M8-3.....	32L44-4
Term. Brd. Ext. Speakers (Part of 700Z141).....	32K51-1
Amploc Cap (Part of 700N18-1) Y2511X- 16X.....	33B287-2
Cabinet-Stereo Console (Walnut) Contemporary Y3401AX.....	35P209-2
Cabinet-Stereo Console (Scan. Wal.) Contemporary Y3406AX.....	35P209-7
Cabinet-Stereo Console (Walnut) Contemporary Y2511X.....	35P250-1
Cabinet-Stereo Console (Scan. Walnut) Contemporary Y2516X.....	35P250-6
Operating Instructions Y3401AX-06AX, 41K12-12	
Operating Instructions Y2511X-16X....	41K12-13
Back Cover (Dark Brown) Y2511X.....	43N93-1
Back Cover (Autumn Leaf) Y2516X....	43N93-2
Back Cover (Dark Brown) Y3401AX....	43N94-5
Back Cover (Autumn Leaf) Y3406AX....	43N94-6
Plastic Tie (A. C. Leads to Changer), 50B8-2	
Cond. Crossover (5 mfd.).....	67K3-1
Speaker 8" (3.16 oz.) Orange Y2511X- 16X.....	78M24-3
Speaker-6" (3.16 oz.) Orange Y3401AX- 06AX.....	78M19-6
Speaker-6" (3.16 oz.) Orange Y3401AX- 06AX.....	78M19-7
Speaker 3 1/2" 1 oz) Orange.....	78L26-1
Phono Plug (Part of 89N5-12) Y3401AX- 06AX.....	88A2-3
Phono Lead Ass'y (Red for right & White for left channel).....	89N5-12
Schematic Run 5.....	99P222
Phono Lead & Cable Ass'y (Twin Coaxial) Y2511X-16X.....	413C21-2
Antenna Lead Ass'y.....	700M8-1
Antenna Lead Ass'y.....	700M8-3

PARTS LIST FOR 8Y1CX RUN 5 CHASSIS

CABINET PARTS LIST FOR MODELS Y3401AX-06AX-Y2511X-Y2516X Cont'd

Description	Part No.
Plug Ass'y (A.C. Input)(Garrard Changer AT6) Y2511X-16X	700N18-4
Speaker Harness.....	700Z141-30

CABINET PARTS LIST FOR MODELS Y3451X-56X

Record Changer (Admiral).....	9400L6-1
Cartridge-Sonotone.....	8TA-SD
Run 5 FM-AM Radio & Stereo Amplifier, 8Y1CX Run 5	
Clamp (89N5-1 to Changer).....	11B12-4
Tee Spacer (Mtg. AM Ant.).....	29A2-12
Term. Board FM Ant. (Part of 700M8-3)	32L44-4
Term. Board Ext. Speakers (Part of 700Z141).....	32K51-1
Cabinet-Stereo Console Contemporary - Walnut-Y3451X.....	35P255-1
Cabinet-Stereo Console-Contemporary (Swed. Walnut) Y3456X.....	35P255-6
Operating Instructions.....	41K12-15
Back Cover (Brown Walnut) Y3451X.....	43N94-5
Back Cover (Autumn Leaf) Y3456X.....	43N94-6
Plastic Tie (A.C. Lead).....	50B8-2
Cond. Crossover (5 mfd.).....	67K3-1
Speaker -6" (3.16 oz.) Orange.....	78M19-6
Speaker 6" (3.16 oz.) Orange.....	78M19-7
Speaker-3 1/2" (1 oz.) Orange.....	78L26-1
Schematic.....	99P222
Phono Cable & Plug Ass'y (Twin Coaxial).....	413C21-2
Ant. Lead Ass'y.....	700M8-1
Speaker Harness.....	700Z141-30

CABINET PARTS LIST FOR MODELS Y2611X-Y2616X

Description	Part No.
AM-FM-Garrard AT6 Changer Contemp. Stereo Console (Walnut).	Y2611X
AM-FM-Garrard AT6 Changer Contemp. Stereo Console (Mahogany).....	Y2616X
Garrard AT6 Record Changer.....	9400L4-5
Cartridge (Astatic 17D).....	9400M8-2
AM-FM Radio Stereo Amplifier	8Y1CX Run 5
Clamp (413C21-2 to Changer).....	11B12-4
Tee Spacer (Mtg. AM Ant.)	29A2-12
Term. Brd. Ext. Speakers	32K51-1
Amplock Cap	33B287-2
Cabinet - Stereo Console - Contemporary (Walnut).....	35P275-1
Cabinet - Stereo Console - Contemporary (Mahogany).....	35P275-6
Operating Instructions	41K12-16
Cond. - Crossover (5 mfd).....	67K3-1
Speaker (Orange) 3 1/2" .64 oz.	78L26-3
Speaker (Orange) 10" 3.16 oz.	78M31-1
Schematic Diagram	99P222
Phone Cable & Plug Assembly (Twin Coaxial)	413C21-2
Plug Assembly (AC Input) Garrard Changer AT6	700N18-4
Plastic Tie (AC lead to Changer)	50B8-2
Twin Lead - 300 ohm (19" long) (Part of 700M8-3)	95Y16-5
Twin Lead - 300 ohm (33" long) (Part of 700M3-1)	95Y16-5
Ant. Lead Assembly (FM Di Pole).....	700M8-1
Ant. Lead Assembly (FM Ant. lead to Chassis).....	700M8-3

PARTS LIST FOR 5Y1CX RUN 5 CHASSIS

RESISTORS

Sym	Description	Part No.
R5	390 ohm, 1/2W, 10%.....	60B8-391
R19	270K ohm, 1/2W, 10%.....	60B8-274
R20	270K ohm, 1/2W, 10%.....	60B8-274
R21	82K ohm, 1/2W, 10%.....	60B8-823
R22	82K ohm, 1/2W, 10%.....	60B8-823
R23A	Dual Control, Loudness, 3.3 meg	75D46-26
R23B	Dual Control, Loudness, 3.3 meg	75D46-26
R24	6.8 meg ohm, 1/2W, 10%.....	60B8-685
R25	6.8 meg ohm, 1/2W, 10%.....	60B8-685
R26	2.2K ohm, 1/2W, 10%.....	60B8-222
R27	2.2K ohm, 1/2W, 10%.....	60B8-222
R28	47K ohm, 1/2W, 10%.....	60B8-473
R29	47K ohm, 1/2W, 10%.....	60B8-473
R30A	Dual Control, Treble, On-Off, 1 meg.....	75L10-12
R30B	Dual Control, Treble, On-Off, 1 meg.....	75L10-12
R31	120K ohm, 1/2W, 10%.....	60B8-124
R32	120K ohm, 1/2W, 10%.....	60B8-124
R33A	Dual Control, Bass, 1 meg.....	75L10-11
R33B	Dual Control, Bass, 1 meg.....	75L10-11
R34	12K ohm, 1/2W, 10%.....	60B8-123
R35	12K ohm, 1/2W, 10%.....	60B8-123
R36	120K ohm, 1/2W, 10%.....	60B8-124
R37	120K ohm, 1/2W, 10%.....	60B8-124
R38A	Dual Control, Balance, 1 meg...	75L10-13
R38B	Dual Control, Balance, 1 meg...	75L10-13
R39	6.8 meg ohm, 1/2W, 10%.....	60B8-685
R40	6.8 meg ohm, 1/2W, 10%.....	60B8-685
R41	2.2K ohm, 1/2W, 10%.....	60B8-222
R42	2.2K ohm, 1/2W, 10%.....	60B8-222
R43	100K ohm, 1/2W, 10%.....	60B8-104
R44	100K ohm, 1/2W, 10%.....	60B8-104
R45	330K ohm, 1/2W, 10%.....	60B8-334
R46	330K ohm, 1/2W, 10%.....	60B8-334
R47	1K ohm, 1/2W, 10%.....	60B8-102
R48	1K ohm, 1/2W, 10%.....	60B8-102
R49	150 ohm, 1W, 5%.....	60B13-151
R50	180 ohm, 1W, 5%.....	60B13-181
R51	100 ohm, 1/2W, 10%.....	60B8-101
R52	2.2 meg ohm, 1/2W, 10%.....	60B8-225
R53	22K ohm, 1/2W, 10%.....	60B8-223
R54	2.2 meg ohm, 1/2W, 10%.....	60B8-225
R55	3900 ohm, 1/2W, 10%.....	60B8-392
R56	100K ohm, 1/2W, 10%.....	60B8-104
R57	390K ohm, 1/2W, 10%.....	60B8-394
R58	Part of M8 Coupler	
R59	270K ohm, 1/2W, 10%.....	60B8-274
R60	270K ohm, 1/2W, 10%.....	60B8-274
R62	470K ohm, 1W, 10%.....	60B14-274
R63	.47 ohm, 1/2W, 10%.....	60D28-73
R64	5.6K ohm, 7W, 10%.....	61B24-743
R65	10K ohm, 1/2W, 10%.....	60B8-103

CAPACITORS

C26	.01 mfd, GMV, 1/2" diam disc. only.....	65D10-3
C35	.01 mfd, GMV, 1/2" diam disc only.....	65D10-3
C36	100 mmfd, 10%.....	65D10-228
C37	.001 mfd, 10%.....	65D10-58
C38	.001 mfd, 10%.....	65D10-58
C39	.005, 20%.....	65D10-188
C40	.005, 20%.....	65D10-188
C41	.01 mfd, GMV, 1/2" diam. disc. only.....	65D10-3

CAPACITORS Cont'd

Sym	Description	Part No.
C42	.01 mfd, GMV, 1/2" diam disc only.....	65D10-3
C43	100 mmfd, 10%.....	65D10-228
C44	.01 mfd, GMV, 1/2" diam disc only.....	65D10-3
C45	100 mmfd, 20%.....	65D10-84
C46	10 mfd, 475V.....	67D4-33
C47	100 mmfd, 20%.....	65D10-84
C48	.01 mfd, GMV, 1/2" diam disc only.....	65D10-3
C49	220 mmfd, 20%.....	65D10-83
C50	2200 mmfd, 20%.....	65D10-89
C51	2200 mmfd, 20%.....	65D10-89
C52	220 mmfd, 20%.....	65D10-83
C53	.01 mfd, GMV, 1/2" diam disc only.....	65D10-3
C54	.001 mfd, 20%.....	65D10-53
C55	.01 mfd, 20%.....	65D10-41
C56	.01 mfd, 20%.....	65D10-41
C57	.001 mfd, 20%.....	65D10-53
C58	100 mmfd, 20%.....	65D10-84
C59	100 mmfd, 20%.....	65D10-84
C60	.005 mfd, GMV.....	65D10-5
C61	.005 mfd, GMV.....	65D10-5
C62	.02 mfd, -20%+80.....	65D10-28
C63	.02 mfd, -20%+80.....	65D10-28
C64	500 mmfd, 20%.....	65D10-2
C65	500 mmfd, 20%.....	65D10-2
C67A	Variable Gang Capacitor.....	68C90-1
C67B	Variable Gang Capacitor.....	68C90-1
C69	47 mmfd, 10%, N750.....	65D10-177
C70	.05 mfd, -20% +80, 50V.....	65C45-32
C71	47 mmfd, 10%, N750.....	65D10-177
C72	.01 mfd, GMV, 1/2" diam disc only.....	65D10-3
C73	47 mmfd, 10%, N750.....	65D10-177
C74	100 mmfd, 20%.....	65D10-84
C75	Part of M8 Coupler	
C76	Part of M8 Coupler	
C77	.001 mfd, 20%.....	65D10-53
C78	.001 mfd, 20%.....	65D10-53
C80	.047 mfd, 600V.....	64L6-9
C81	.02 mfd, -20%, + 80.....	65D10-28
C87A	Electrolytic, 150, 300V.....	67M2-26
C87B	Electrolytic, 100, 300V.....	67M2-26
C87C	Electrolytic, 40, 300V.....	67M2-26
C87D	Electrolytic, 80, 25V.....	67M2-26

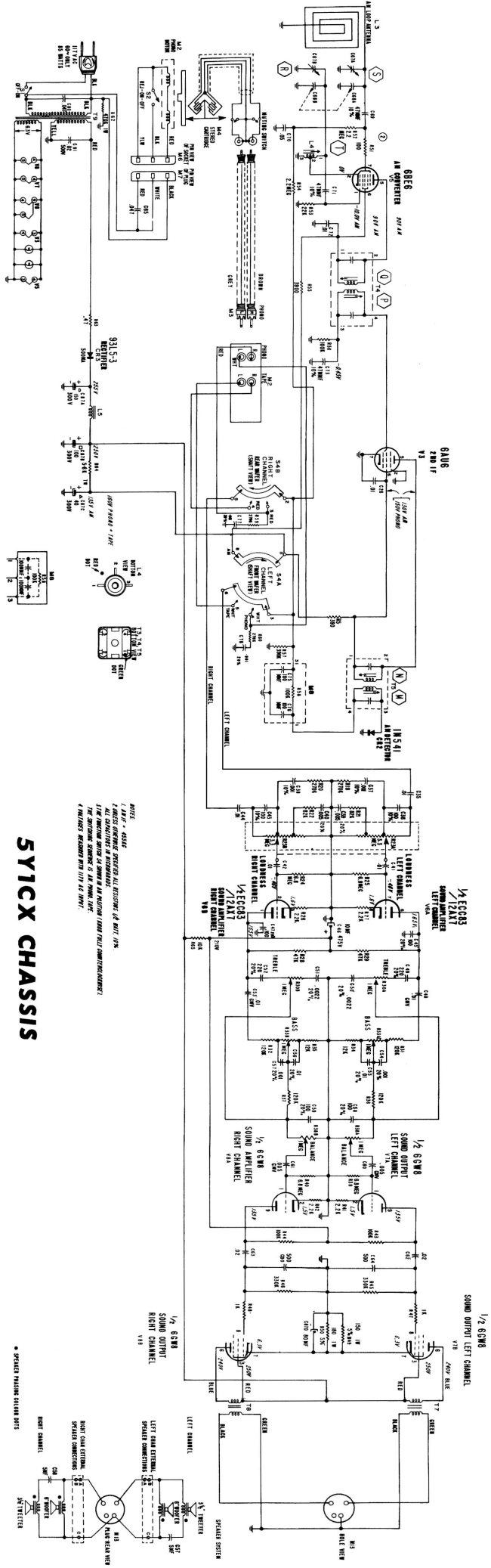
COILS

L3	Antenna, Air Loup.....	69M15-1
L4	Coil, Oscillator, AM.....	69B243-3
L5	Choke, (With End Bells).....	74M7-18

TRANSFORMERS

T4	455KC I.F. Transformer	72D227-1
T5	455KC I.F. Transformer	72D227-1
T7	Output Transformer.....	79N13-1
T8	Output Transformer.....	79N13-1
T9	Power Transformer.....	80N26-1

⑤ PRODUCTION RUN CHANGES
START OF PRODUCTION



5Y1CX CHASSIS

1. AIR FLOW = 45 LPM.
2. DRESS GOWNED SPECIES ALL RESISTORS UP DATE 10%.
3. ALL CALIBRATIONS IN RESEARCH.
4. THE FUNCTIONING SENSORS IS AS SHOWN IN AIR POSITION (AFTER FULL COMPLETION OF TEST).
5. THE SENSITIVE SENSOR IS AS SHOWN IN AIR POSITION.
6. VOLTAGES MEASURED WITH 117V AC INPUT.

● **SPEAKER PHASING COLUMN DOTS**



8Y1CX CHASSIS

⑤ PRODUCTION RUN CHANGE
START OF PRODUCTION

98722

PARTS LIST FOR 5Y1CX RUN 5 CHASSIS

MISCELLANEOUS CHASSIS PARTS

Description	Part No.
AM Detector Diode.....	1N541
Clamp (Line Cord to 14E309).....	11B27-3
Plug Button (3/4 diam. hole) (Plastic)..	13B3-18
Chassis Base.....	14E309-2
Rail - Pointer Guide.....	15B2403-1
Bracket - Dial R.H.....	15B2404-1
Bracket - Dial L.H.	15B2405-1
Bracket - Dial Mounting.....	15C2406-1
Bracket - Chassis Support.....	15C2407-1
Bracket - Pulley.....	15A2413-1
Shield - Heat	15B2437-1
Bracket, Pulley Idler.....	15C2451-1
Bracket - Pointer Carriage (Part of 700C346 Ass'y).....	15C2492-1
Shield - Dial Light.....	15C2493-1
Pulley - Nylon (1).....	17C1-92
Pulley - Nylon (7).....	17C1-93
Drum (Part of 700B340-1 Ass'y).....	17B56-5
Clip, Capacitor Mtg. Snap-In Type.....	18A92-4
Spring - Dial Cord.....	19D1-5
Dial Scale - AM.....	21M10-1
Escutcheon Control Panel (AM).....	23L47-1
Escutcheon - Upper (long).....	23D470-2
Bushing - Tuning (Staked to 14E309)....	27A322-1
Bushing - Drum (Staked to 17B56-5) Part of 700B340-1 Ass'y).....	27A371-1
Shaft, Tuning (Mounted in 27A322-1)....	28A148-1
Screen - Background.....	32B541-1
Amploc Plug.....	33B287-1
Knob - Preference Control.....	33D432-6
Knob - Rear Function Control.....	33D432-8
Knob - Rear Tuning.....	33D432-10
Dial Pointer (Part of 700C346 Ass'y)...	33B484-1
Cord - Dial.....	50A1-3
Plastic Ties.....	50B8-2
Diode Filter Couplate.....	63A3-2
Clip, I.F. Mounting.....	72D28-10
Function Switch.....	77L3-1
Pilot Light Bulb (#1847).....	81B1-19
Shield - Pilot Light.....	82D24-9
Socket - Pilot Light.....	82A42-2
Shield, Tube Tapered, 9 Pin.....	87C7-20
Socket, Tube, Shield Base, 9 Pin.....	87C23-2
Socket - Tube, Min. 9 Pin.....	87B25-1
Socket - Tube, Min. 7 Pin.....	87A39-10
Phono Jack.....	88L5-1
Socket, Speaker, 4 Prong.....	88B5-3
Line Cord (8' Hanked).....	89W1-3
Silicone Diode 500 MA, 800V P.I.V.	93L5-3

CABINET PARTS LIST FOR MODELS Y2451X-56X

Cont'd Description	Part No.
Back Cover (Autumn Leaf) Y2456X....	43N94-4
Plastic Tie (A.C. Lead).....	50B8-2
Cond. Crossover (5 mfd.).....	67K3-1
Speaker - 6" (3.16 oz.) Orange.....	78M19-6
Speaker - 6" (3.16 oz.) Orange.....	78M19-7
Speaker - 3 1/2" (1 oz.) Orange.....	78L26-1
Schematic.....	99P221
Phono Cable & Plug Ass'y (Twin Coaxial).....	413C21-2
Speaker Harness.....	700Z141-30

CABINET PARTS LIST FOR MODELS Y2451X-56X

Record Changer (Admiral).....	9400L6-1
Cartridge - Sonotone	8TA-SD
Run 5 AM Radio & Stereo Amplifier.....	5Y1CX
Clamp (89N5-1 to Changer).....	11B12-4
Tee Spacer (Mtg. AM Ant.).....	29A2-12
Term Board Ext. Speakers (Part of 700Z141).....	32K51-1
Cabinet - Stereo Console - Contemporary (Walnut) Y2451X.....	35P255-1
Cabinet - Stereo Console - Contemporary (Swed. Walnut) Y2456X.....	35P255-6
Operating Instructions.....	41K12-15
Back Cover (Brown Walnut) Y2451X.....	43N94-3