

SILVERTONE MODELS 9035, 9036,
9037, 9038 (Ch. 528.53460, 461, 470)



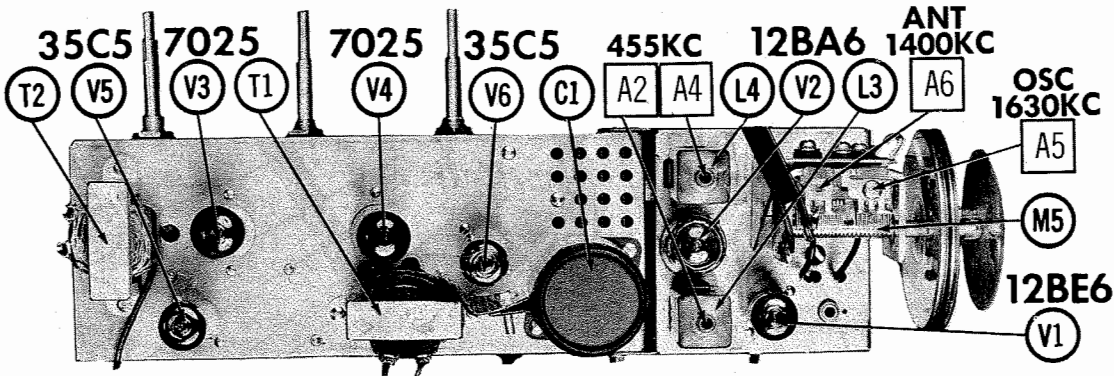
MODEL 9035

TRADE NAME	Silvertone Models 9035, 9036 (Ch. 528.53460, 528.53461); 9037, 9038 (Ch. 528.53470)		
MANUFACTURER	Sears, Roebuck & Co., 925 S. Homan Ave., Chicago, Illinois		
TYPE SET	AC Operated 6 Tube AM Receiver With 4 Speed Stereo Automatic Record Changer		
POWER SUPPLY	110-120 Volts AC, 60 Cycles	RATING	34 Watts, .4 Amp. @ 117 Volts AC
TUNING RANGE—BROADCAST	535 - 1630KC		

FOR SERVICE INFORMATION ON RECORD CHANGER - SEE SILVERTONE 528.56310 - PHOTOFACT SET 417 FOLDER 10

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT						
Volume control should be at maximum position. Output of signal generator should be no higher than necessary to obtain an output reading.						
Suggested Alignment Tools: A1, A2, A3, A4 GENERAL CEMENT #5009, 8195, 8274, 8275, 8728, 8987 WALSCO #2531						
A5, A6 GENERAL CEMENT #5000, 5003, 5014, 5015, 5016, 8276, 8290 WALSCO #2512, 2515, 2522, 2523, 2525, 2537						
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
1. .1mfd	High side to pin 7 (grid) of Converter. Low side to B-.	455KC (30% 400v Mod.)	Tuning gang fully open	Across voice coil	A1, A2, A3, A4	Adjust for maximum output.
2. "	"	1630KC	"	"	A5	"
3.	Loop	1400KC	1400KC signal	"	A6	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.



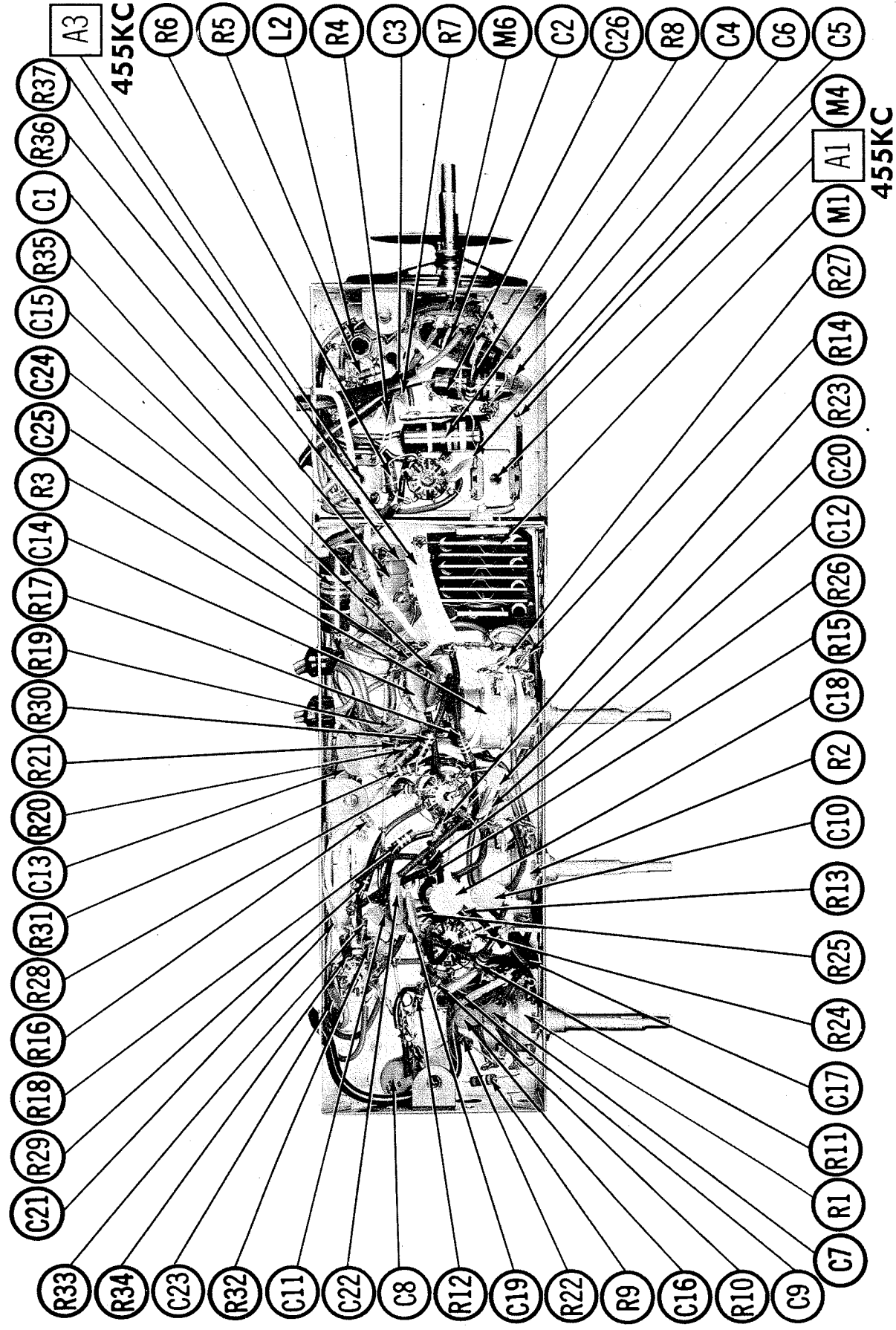
HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana

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CHASSIS-BOTTOM VIEW

PARTS LIST AND DESCRIPTIONS

TUBES

ITEM No.	CBS		GENERAL ELECTRIC		RAYTHEON		SYLVANIA	
	USE	TYPE	ITEM No.	USE	TYPE	TYPE		
V1	Converter	12BE6	V4	Left Channel AF Amp. - Right Channel AF Amp.	7025			
V2	IF Amplifier	12BA6	V5	Left Channel Output	3BC5			
V3	Right Channel AF Amp.	7025	V6	Right Channel Output	3BC5			

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA		REMARKS	CENTRALAB PART No.	CORNELL DUBIER PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.	NOTES
		CAP.	VOLT.							
C1A	150	150	150	18-40-3	AFB3-28	D0014	EP240	TMD-13	TVLS-3448.1*	
C1B	450	150	150				TC485	TD-180-150		

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

FIXED CAPACITORS

Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING	REPLACEMENT DATA		REMARKS	CENTRALAB PART No.	CORNELL DUBIER PART No.	ELMCO PART No.	MALLORY PART No.	SPRAGUE PART No.	NOTES
		CAP.	VOLT.							
C2	.047 400V				P488N-047	CUB4847	4DP-3-473	GEM-4147	4TM-847	
C3	470 10%				DI-470	MD-471	CC3-471	TL-347	MS-347	
C4	.047 400V				P488N-047	CUB4847	CC3-473	GEM-4147	4TM-847	
C5	150 10%				DI-150	MD-151	CCD-151	TL-315	MS-315	
C6	150 N750 10%				DTN-150	DTN-150	CCDN-151	CN7-315	107CU-151	
C7	47 10%				DI-47	MD-47	CCD-470	CNO-447	MS-447	
C8A	5000				BYD6DD5	BYD6DD5	CCD-502	B-250	SEK-D50	
C8B	5000				BYD6DD5	BYD6DD5	CCD-502	B-250	SEK-D50	
C9	20000				DD-203	BYB6S2	CCD-203	B-120	SEK-S20	
C10	100 N750 10%				DD-203	BYB6S2	CCD-203	CN7-310	107CU-T10	
C11	20000				DD-203	BYB6S2	CCD-203	B-120	SEK-S20	
C12	20000				DD-203	BYB6S2	CCD-203	CCDN-101	MS-375	
C13	20000				DD-203	BYB6S2	CCD-203	CCDN-101	MS-375	
C14	20000				DD-203	BYB6S2	CCD-203	B-120	SEK-S20	
C15	6000				DD-203	BYB6S2	CCD-203	CCDN-101	MS-375	
C16	47 10%				DD-203	BYB6S2	CCD-203	CN7-310	107CU-T10	
C17	20000				DD-203	BYB6S2	CCD-203	B-120	SEK-S20	
C18	100 N750 10%				DD-203	BYB6S2	CCD-203	CCDN-101	MS-375	
C19	20000				DD-203	BYB6S2	CCD-203	CCDN-101	MS-375	
C20	20000				DD-203	BYB6S2	CCD-203	B-120	SEK-S20	
C21	20000				DD-203	BYB6S2	CCD-203	CCDN-101	MS-375	
C22	20000				DD-203	BYB6S2	CCD-203	B-120	SEK-S20	
C23	6000				DD-203	BYB6S2	CCD-203	B-280	SEK-D88	

PARTS LIST AND DESCRIPTIONS (Continued)

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA		REMARKS	SILVERTONE PART No.	Gromer PART No.	Meissner PART No.	Miller PART No.	Rem PART No.	NOTES
		PRI.	SEC.							
L1	Loopstick				84-7256					
L2	Osc. Coil				10-10-4		BC-383	12-C1	RF-1	
L3	Input IF				10-10-2		BC-383	12-C2	RF-2	
L4	Output IF				10-10-2		BC-383			

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE	REPLACEMENT DATA		REMARKS	SILVERTONE PART No.	Hollister PART No.	Meritt PART No.	Stancor PART No.	Thorndson PART No.	NOTES
		PRI.	SEC.							
T1	26000	3-40			22545		A-2928	AU-603	22545	
T2	27000	6-80			22586		A-2902	AU-604	22586	

† Ch. 528.53470 use Part #80-92-1 in this application. ‡ Drill new mounting hole.

SPEAKER

ITEM No.	RATING	REPLACEMENT DATA		REMARKS	SILVERTONE PART No.	QUAM PART No.	NOTES
		SIZE	FIELD				
SP1	2 3/4" x 10" PM	8-70			38-373-4		1 Models 9035, 9036
SP2	4" x 10" PM	3-40			38-373-4		2 Models 9037, 9038
SP3	4" x 10" PM	3-40			38-373-4		3 2 used in Models 9037, 9038
SP4	6" x 9" PM	9-100			38-373-4		
SP5	8" x 10" PM	3-40			38-373-4		

RECTIFIERS

ITEM No.	RATING	REPLACEMENT DATA		REMARKS	SILVERTONE PART No.	FEDERAL PART No.	INTERNATIONAL PART No.	SARKIS PART No.	TARZIAN PART No.	NOTES
		CURRENT (Measured)	045A							
M1	.045A				86-16-3	1235AE	RS150	150	SR200	1 Selenium Type 2 Silicon Type

PHONO CARTRIDGE

ITEM No.	SILVERTONE PART No.	REPLACEMENT DATA		REMARKS	SILVERTONE PART No.	JENSEN PART No.	SONOTONE PART No.
		ASTATIC	ELECTRO-VOICE				
M2	33-311-0	13T	Not Req.		NEEDLE	CARTIDGE	NEEDLE

* Use Mount PT-3. † Includes Mount

PHONO NEEDLE

ITEM No.	SILVERTONE PART No.	REPLACEMENT DATA		REMARKS	SILVERTONE PART No.	JENSEN PART No.	NOTES
		CLEVITE	WALCO				
M3	83-1250	† E98 or ‡ E98D	† E98 or ‡ E98D		† Jewel ‡ Diamond		
	83-1252 (LP)	† E98X or ‡ E98XD	† E98X or ‡ E98XD		* Includes Cartridge		

CAPACITORS (cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA		REMARKS	CENTRALAB PART No.	CORNELL DUBIER PART No.	ELMCO PART No.	MALLORY PART No.	SPRAGUE PART No.
			RESISTANCE	WATTS						
C24	.047 400V					P488N-047	DF-503	CUB4847	4DP-3-473	4TM-847
C25	20000					BPD-02	DD-203	BYB6S2	CCD-203	5HK-S20
C26	.047 400V					P488N-047	DF-503	CUB4847	4DP-3-473	4TM-847
C27	3.9							C10V4C		107CC-V39

† Not used in some versions. ‡ Some versions of Ch. 528.53470 and Ch. 528.53461 use 20000mmf @ 100V in this application (Part #20-145-0).

CONTROLS

ITEM No.	RATING	REPLACEMENT DATA		REMARKS	SILVERTONE PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	IRC PART No.	MALLORY PART No.	INSTALLATION NOTES
		RESISTANCE	WATTS							
R1A	2meg				24-339-0					Loudness, Left Channel
B	1meg tap									Balance, Right Channel
R2A	500K				24-181-2					Treble, Left Channel
C	500K									Treble, Right Channel
R3A	500K				24-180-2					Bass, Right Channel
B	500K									Bass, Left Channel
D	Switch									Off-On

RESISTORS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	RATING	REMARKS	RATING	REMARKS	ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS
R4	2.2meg				R16	2200Ω		R28	500K	
R5	22K				R17	270K		R29	2200Ω	
R6	150Ω				R18	270K		R30	270K	
R7	2.2meg				R19	470K		R31	470K	
R8	47K				R20	150Ω		R32	470K	
R9	100K				R21	100Ω		R33	150K	
R10	1meg				R22	100K		R34	22K	
R11	270K				R23	1meg		R35	100Ω 1W	
R12	4700Ω				R24	270K		R36	270 2W	
R13	1meg				R25	4700Ω		R37	270 2W	
R14	8200Ω				R26	1meg				
R15	500K				R27	8200Ω				

CRYSTAL DIODES

ITEM No.	ORIG. TYPE	REPLACEMENT DATA		REMARKS	ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS
		SILVERTONE PART No.	CBS PART No.							
M4	CTP-401		1N80			1N80			1N285	Detector (Pigtail)

MISCELLANEOUS

ITEM No.	PART NAME	SILVERTONE PART No.	NOTES
M5	Tuning Cap.	19-77-2	2 Gang, Ch. 528.53480, 461 (Ant. 14-346mmf, Osc. 15-120mmf)
M6	Tuning Cap	19-78-2	2 Gang, Ch. 528.53470
M7	Switch	69-287-0	Radio-Phono
M8	Motor	59-72	Slide Type (On Changer)
		59-88	Complete, Changer Ch. 528.56442 & 528.56443
			Complete, Changer Ch. 528.56452 & 528.56453

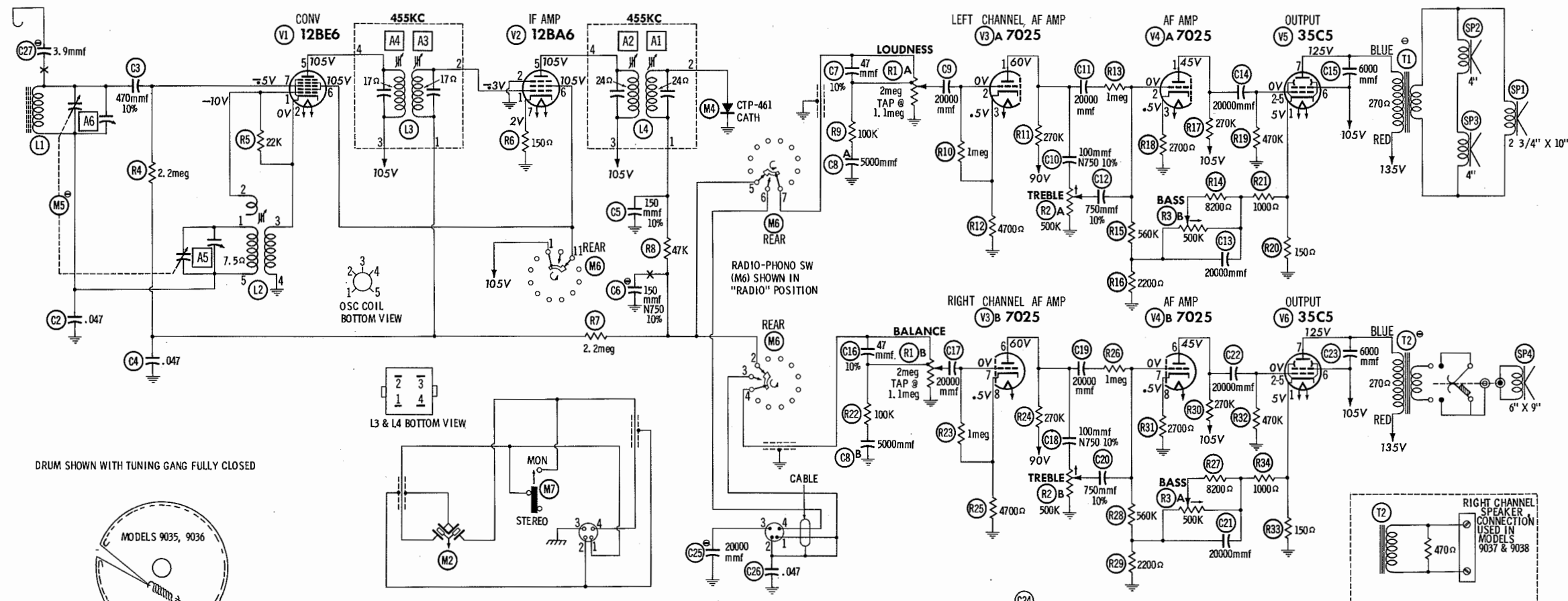
CABINETS & CABINET PARTS

(When Ordering Cabinets & Cabinet Parts, Specify Model, Chassis & Color)

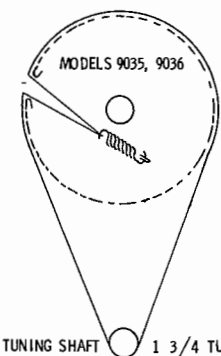
NAME	PART NO.	DESCRIPTION
Knob	52-1173-0	Tuning, Models 9035 & 9036
Knob	52-1170-0	Loudness (Right Channel), Models 9035, 9036
Knob	52-1173-0	Loudness (Left Channel), Models 9035, 9036
Knob	52-1180	Off-On Loudness, Models 9037, 9038
Knob	52-1189-0	Treble, Models 9035, 9036
Knob	52-1172-0	Radio-Phono, Models 9035, 9036
Knob	52-1171-0	Off-On Bass, Models 9035, 9036
Knob	52-1178-0	Rear, Models 9037, 9038
Knob	52-1177-0	Front, Models 9037, 9038
Cabinet	42-89-3	Model 9035
Cabinet	42-90-3	Model 9036
Cabinet	42-18-4	Extension Speaker, Mahogany
Cabinet	42-19-4	Extension Speaker, Blond
Cabinet	42-93-3	Model 9037
Cabinet	42-94-3	Model 9038
Pointer	52-166-1	Models 9035, 9036
Pointer	52-56-1	Models 9037, 9038

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in Ten Colors
Power Cord	8524 (Stranded) Available in Ten Colors
Low-Loss Shielded Lead (Interconnecting)	Use BELDEN No. 1708-B (6 Ft. Length)
Phono Pick-up Arm Cable	Use BELDEN No. 8401 (7 1/2 Ft. Length)
	Use BELDEN No. 8430 (Two Conductor - Twisted)



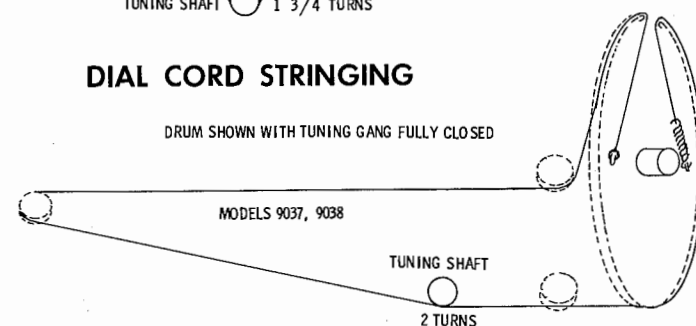
DRUM SHOWN WITH TUNING GANG FULLY CLOSED



TUNING SHAFT 1 3/4 TURNS

DIAL CORD STRINGING

DRUM SHOWN WITH TUNING GANG FULLY CLOSED



TUNING SHAFT
2 TURNS

SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

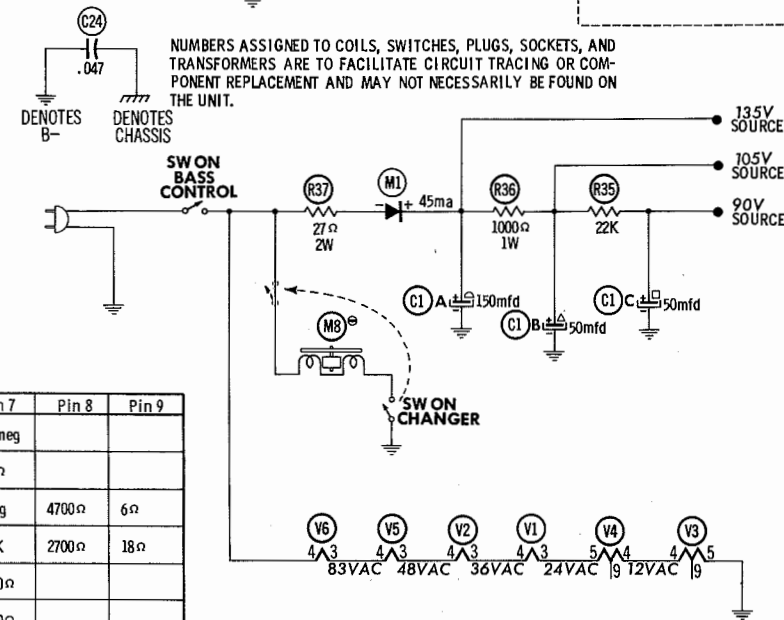
DC COIL RESISTANCE VALUES UNDER ONE OHM NOT SHOWN ON SCHEMATIC DIAGRAM

1. DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured at 1000 ohms per volt.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common negative.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance on component values makes possible a variation of $\pm 15\%$ in voltage and resistance readings.
6. Volume control at maximum, no signal applied for voltage measurements.

RESISTANCE READINGS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	12BE6	22K	.7 Ω	24 Ω	36 Ω	\dagger 1000 Ω	\dagger 1000 Ω	5.5meg		
V2	12BA6	2.7meg	0 Ω	36 Ω	48 Ω	\dagger 1000 Ω	\dagger 1000 Ω	150 Ω		
V3	7025	\dagger 290K	1meg	4700 Ω	12 Ω	0 Ω	\dagger 290K	1meg	4700 Ω	6 Ω
V4	7025	\dagger 270K	560K	2700 Ω	12 Ω	24 Ω	\dagger 270K	560K	2700 Ω	18 Ω
V5	35C5	150 Ω	470K	48 Ω	83 Ω	470K	\dagger 1000 Ω	\dagger 270 Ω		
V6	35C5	150 Ω	470K	83 Ω	120 Ω	470K	\dagger 1000 Ω	\dagger 270 Ω		

\dagger MEASURED FROM OUTPUT OF M1.



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