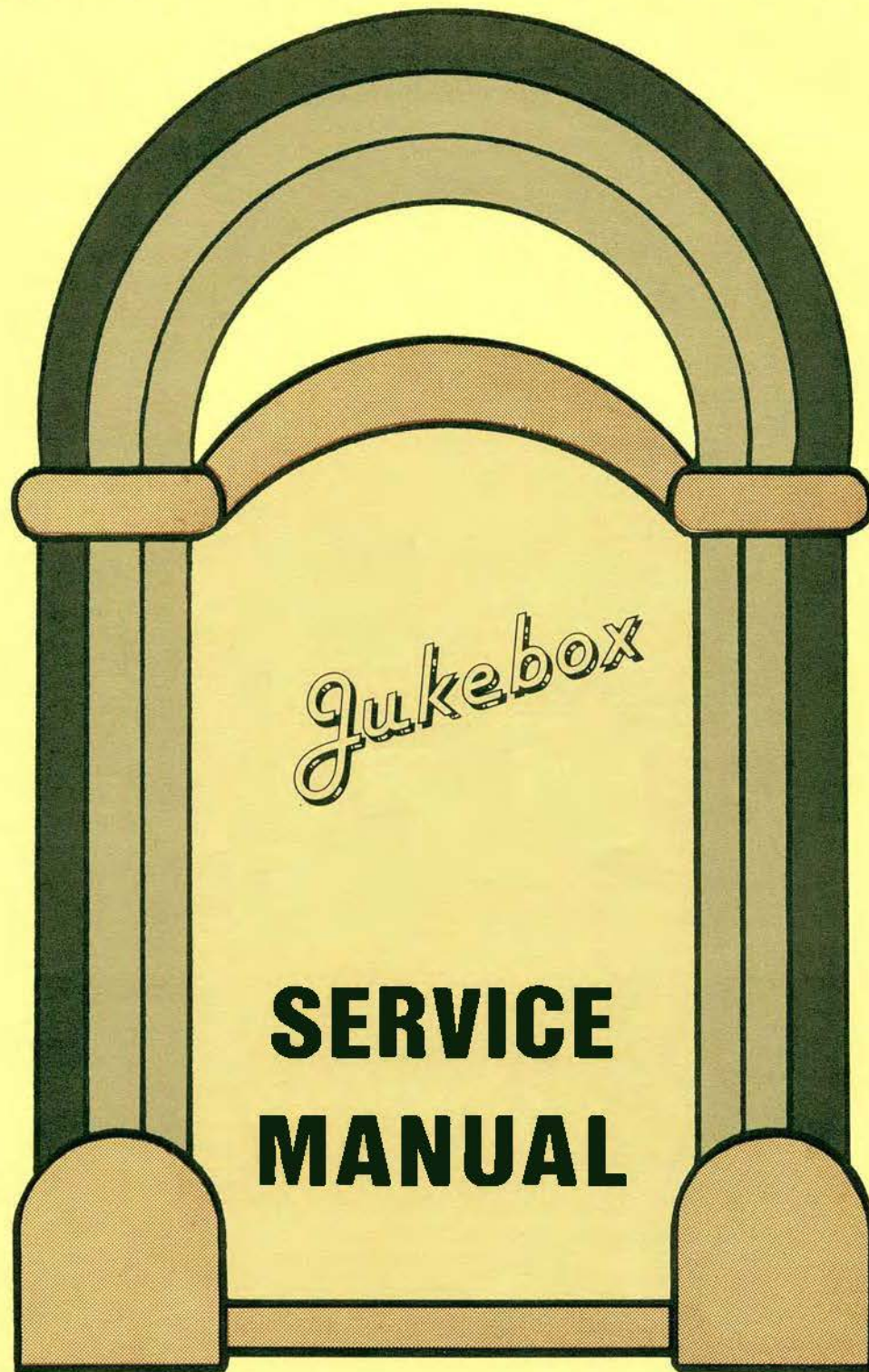


SEEBURG SYMPHONOLA



1938 20 Record Models

GEM, Regal, Concert Grand



MODELS MANUFACTURED

AND

THEIR

COMPONENTS

MODELS MANUFACTURED AND THEIR COMPONENTSAMPLIFIERPHONOGRAPH

SB-7.....Models A, B, C.
 SB-8.....Model D
 SB-9-30.....Model F
 SB-10-20.....Model H, I, Queen
 SB-10-200.....Rex
 SB-11WB.....Regal
 SB-1120.....Model J, Melody King, K-20, Royal
 SB-1120WB.....Regal
 615-3.....7850ES
 615-3Y.....7850ES
 625-1Y.....Casino, Vogue
 625-1Z.....Casino, Vogue
 625-2Z.....Casino, Vogue
 625-3.....Cadet, Major, Envoy (ES and MS)
 625-3C.....Cadet, Major, Envoy (ES and MS)
 625-3Y.....Cadet, Major, Envoy (ES and MS)
 625-3YC.....Cadet, Major, Envoy (ES and MS)
 625-3Z.....Cadet, Major, Envoy (ES and MS)
 720A.....Gem
 720B.....Gem
 720C.....Gem
 720C-2.....Plaza
 725-1Z.....Plaza
 725-2.....Plaza
 820-A.....Regal
 820-B.....Regal
 820-AB.....Regal
 820C.....Regal

MODELS MANUFACTURED AND THEIR COMPONENTS

<u>AMPLIFIER</u>	<u>PHONOGRAPH MODEL</u>
820C-2.....	Mayfair
825-5.....	9800 ES
825-10.....	8800 ES
830-1Y.....	Classic
830-1Z.....	Mayfair, Classic
830-2.....	Classic
830-2Z.....	Classic
830-3.....	Colonel, Commander, Concert Master (ES,MS)
830-3C.....	Colonel, Commander, Concert Master (ES,MS)
830-3Y.....	Colonel, Commander, Concert Master (ES,MS)
830-3Z.....	Colonel, Commander, Concert Master (ES,MS)
920A.....	Crown
1130.....	Concert Maestro - Telephone - Sing. Chan.
1255A.....	Concert Grand (ES and MS)
1255B.....	Concert Grand (ES and MS)

MODELS MANUFACTURED AND THEIR COMPONENTS

MODEL	MODELS A, B, & C	MODEL D	MODEL F	MODELS H, I AND QUEEN	K-20 Model J Melody King Royal	REX
AMPLIFIER	SB-7	SE-8	SB-9-30	SB-1020	SB-1120	SB-10-200
TUBES	2-56 2-2A3 1-5Z3	1-57 2-56 2-2A3 1-80 1-5Z3	1-57 2-56 4-2A3 1-83 1-80	3-56 2-2A3 1-80 1-5Z3	2-57 2-56 2-2A3 1-80 1-5Z3	3-56 2-2A3 1-80 1-5Z3
POWER TRANS.	WP-3010B	WP-3038	WP-3035	WP-3064	WP-3072	WP-3075
FILTER CHOKE	WC-1002	WC-1002	1: WC-1017V 2: WC-1006H	WC-1002-V	WC-1002-V	WC-1002-V
INPUT TRANS.	WI-5020-H	WI-5020-H	WI-5020-H	WI-5041-H	WI-5041-E	WI-5041-E
OUTPUT TRANS.	WO-2030-BV	WO-2030-BV	WO-2044-V	WO-2057-V	WO-2089-V	WO-2089-V
SMALL SPEAKER OUTPUT TRANS.	--	--	--	--		
TOPE CHOKE	--	--	--	WC-1020	WC-1020	WC-1020
TREBLE CONT.	P-3103	P-3103	P-3103	P-3103	P-3103	P-3103
BASS CONTROL	P-3101	P-3101	P-3101	P-3101	P-3101	P-3101
VOLUME CONT.	F-1344	F-1344	F-1344	F-1344	F-1344	F-1344
SPEAKER (MAIN)	B-1913	12101	(3) 12102	3282	145004	3282
SPEAKER CONNECTIONS (MAIN)*	D	I	I	B	B	B
SPEAKER (SMALL)	--	2356	--	--	63069	--
SPEAKER CONNECTIONS (SMALL)*	--	E	--	--	A	--
DUMMY PLUG CONNECTIONS*	4	4	--	1	1	1
EXTRA SPEAKER PLUG WIRING*	M or N	O or N	P	X	X	X

MODELS MANUFACTURED AND THEIR COMPONENTS

MODEL	GEM	REGAL		CROWN	CONCERT GRAND	
AMPLIFIER	720-A ¹ 720-B 720-C	820B 820C SB-11WB SB-112QWP	820A 820AB	920A	1255A	1255B
TUBES	(3-76)B&C 2-2A3 1-5Z3 1-80 (3-56) A	2-6C6 2-76 2-2A3 1-5Z3 1-80	2-57 2-56 2-2A3 1-5Z3 1-80	1-6C5G 4-76 2-2A3 1-5Z3 1-80	1-6L7 1-6F5G 2-6J5G 6-2A3 2-5Z3	1-6L7 1-6F5G 2-6J5G 6-2A 3 2-5Z3
POWER TRANS.	A:10040 B:10237 C:10333	10287	10040	10287	Output 10297 Dr.: 10298	Output 10335 Dr.: 10336
FILTER CHOKE	10036	10036	10036	10036	Out: 10317 Dr: 10318	Out: 10317 Dr. 10318
INPUT TRANS.	10034	10034	10034	10034	10314	10314
OUTPUT TRANS.	A-B: 10035 C: 10272	10272	A: 10035 AB: 10272	10272	10318	10310
INTERSTAGE P.P. TRANS.	--	--	--	--	10315	10315
SMALL SPEAKER OUTPUT TRANS.	10260	--	--	--	--	--
TONE CHOKE	10333	10033	10033	10033	10327	10327
TREBLE CONT.	A: 10236 B-C: 10286	10236	10286	10236	10286	10286
BASS CONTROL	A: 10038 B: 10288 C: 10039	10039	10038	10318	10325	10325
EXPANDER CONTROL	--	--	--	--	10322	10322
VOLUME CONT.	F-1344	F-1344	F-1344	F-1344	A-5434	A-5434
SPEAKER (MAIN)	5864	15-H-1	15-H-1	15-H-1	15-H-2	15-H-2
SPEAKER CONNECTIONS (MAIN)*	B	B	B	B	C	C
SPEAKER (SMALL)	5857	(2) 8-C-101	(2) 8-C-101	(2) 8-C-101	10E11	10E11
SPEAKER CONNECTIONS* (SMALL)	A	A	A	A	A	A
DUMMY PLUG CONNECTIONS*	2	1	1	1	1	1
EXTRA SPEAKER PLUG WIRING*	L	K	K	K	K	K

* See diagrams in back of booklet.

MODELS MANUFACTURED AND THEIR COMPONENTS

MODEL	CASINO VOGUE	MAYFAIR	PLAZA		CLASSIC	COLONEL COMMANDER CONCERT MAS
AMPLIFIER	625-1Z 625-2Z 625-1Y(25)	830-1Z 820-C-2	725-1Z 725-2	720-C-2	830-1Y (25) 830-2Z 830-1Z 830-2	830-3 830-3C 830-3Z 830-3Y(25)
TUBES	1-76 1-6J5G 2-2A3 1-5Z3 1-80	2-6C6 2-76 2-2A3 1-5Z3 1-80	2-6C6 1-6J5G 2-2A3 1-5Z3 1-80	3-76 2-2A3 1-5Z3 1-80	2-6C6 2-76 2-2A3 1-5Z3 1-80	2-6C6 2-76 2-2A3 1-5Z3 1-80
POWER TRANS.	1Z-10710 2Z-11192 1Y-11191	1Z: 10792 C2: 10333	10710	10333	10792-1Z-2 11195-2Z 11194-1Y	3-3C: 10792 3Z: 11195 3Y: 11194
FILTER CHOKE	10038	10036	10038	10036	10036	10036
INPUT TRANS.	10711	1Z: 10711 C2: 10034	10711	10034	10711	10711
OUTPUT TRANS.	10272	10272	10272	10272	10272	11341
BIAS CHOKE		1Z: 10791 C2: None	--	--	10791	10791
TONE CHOKE	10402	1Z: 10402 C2: 10033	10402	10033	10402	11072
TREBLE CONT.	10688	1Z: 10688 C2: 10286	10688	10286	10688	10688
BASS CONTROL	10687	10039	10039	10039	10039	10039
VOLUME CONT.	F-1344	F-1344	F-1344	F-1344	F-1344	F-1344
SPEAKER (MAIN)	F-7018	F-8024 15-H-1	F-8024	F-8024	F-8024	F-8024
SPEAKER CONNECTIONS (MAIN)*	B	B	B	B	B	B
SPEAKER (SMALL)	--	--	--	--	--	F-6354-A #
SPEAKER CONNECTIONS* (SMALL)	--	--	--	--	--	F
DUMMY PLUG CONNECTIONS*	1	1	1	1	1	3
EXTRA SPEAKER PLUG WIRING*	K	K	K	K	K	K

Note: Early production of the "Mayfair" used the 820-C-2 amplifier. The majority of this Symphonola used the 830-1Z amplifier. It is recommended that amplifier model number be used in ordering parts.

* See diagrams in back of booklet.

MODELS MANUFACTURED AND THEIR COMPONENTS

MODEL	CADET MAJOR ENVOY	ALL 1940 RCES	7350 ES	8800 ES	8800 RC
AMPLIFIER	625-3 625-3C 625-3Z 625-3Y(25) 625-3YC(25)	MCS-1Z	615-3 615-3Y(25)	825-10	MCS25-6
TUBES	1-76 1-6J5G 2-2A3 1-5Z3 1-80	2-6X7 1-6H6 1-6J5G 2-6C6 2-76 2-2A3 2-6F6G 1-2A4G 1-6X5G 1-5Z3 1-80	2-6J5GT 2-2A3 1-5U4G 1-5Y3G	1-6SQ7 3-6J5GT 2-6L6 1-5U4G 1-5Y3G	3-6J5GT 2-6X7 1-6X5GT 1-6SQ7 1-6H6 1-5U4G 2-5L3 1-2051 1-5Y3G
POWER TRANSFORMER	3-3C: 10710 3Z : 11192 3Y-3YC: 11181	AMP: 11307 S.R.: 11310	3: 12057 3Y: 12079	12059	AMP. 12204 S.A. 12202
INPUT TRANS.	10711	11309	10711	--	12206
OUTPUT TRANS.	11341	11308	11341	--	12207
MODULATION TRANS.	--	11008	--	--	--
25 VOLT TRANSF.	--	--	3: 12663 3Y: 12080	--	12211
6 VOLT TRANS.	--	--	--	--	12215
LIGHTING TRANS.	--	--	--	--	F-7813
FILTER CHOKE-AMP. S.R.	-- --	11036 --	10036 --	11316 --	12223 11306
R.F. CHOKE - TR. S.R.	-- --	-- --	-- --	-- --	-- 10843
BIAS CHOKE	--	--	--	10791	--
TONE CHOKE	11072	11072	11072	12065	12065
BASS CHOKE - TR	--	--	--	--	--
R.F. COIL - In. Inter. Diode	-- -- --	-- -- --	-- -- --	-- -- --	30191 30192 30193
OUTPUT COIL	--	--	--	--	--
OSCILLATOR COIL	--	30148	--	--	--
BASS CONTROL	10687	10032	10687	10039	10039
TREBLE CONTROL	10688	10688	10688	--	10688
SENSITIVITY CONT.	--	11315	--	--	11315
MODULATION CONT.	--	11010	--	--	--
VOLUME CONTROL	P-1344	P-3076	F-3076	F-3076	F-3076
SPEAKER (MAIN)	P-7018	F-9024*	P-7018	F-9024	F-9024
SPEAKER CONNECTIONS*	B	B	B	B	B
SPEAKER (SMALL)	P-7354A	--	--	--	--
SPEAKER CONNECTION*	F	--	--	--	--
DUMMY PLUG CONN.*	3	3	3	3	3
EXTRA SPEAKER PLUG WIRING*	K	K	K	K	K

*Wiring connections in back of booklet.

* Except Envoy RCES. Envoy Speaker F-7734

MODELS MANUFACTURED AND THEIR COMPONENTS

MODEL	9800 ES	9800 RC	8200 RC
AMPLIFIER	825-5	MCS 25-1	MCS-25-15
TUBES	1-6SQ7 3-6J5GT 2-6L6 1-6U4G 1-5U3G	3-6J5GT 2-6X7 1-6X5GT 1-6SQ7 1-6H6 1-5U4G 2-6L6 1-2051 1-5Y3G	3-6J5GT 2-6X7 1-6X5GT 1-6SQ7 1-6H6 1-5U4G 2-6L6 1-2051 1-5Y3G
POWER AMP. TRANS. S.R.	12059 --	12204 12202	12308 12301
INPUT TRANS.	12066	12203	12203
OUTPUT TRANS.	12058	12059	12217
25 VOLT TRANS.	12063	12211	12211
6 Volt Trans.	12080	12213	12303
LIGHTING TRANS.	F-7813	F-7813	F-7813
FILTER CHOKE AMP S.R.	11316 --	12223 11308	12223 11308
R.F. CHOKE TR. S.R.	-- --	-- 10843	-- 10843
TONE CHOKE	12055	12065	12065
R.F. COIL - Input	--	30191	30191
Interstage	--	30192	30192
Diode	--	30193	30193
BASS CONTROL	10039	10039	10039
TREBLE CONTROL	10688	10688	10688
SENSITIVITY CONTROL	--	11315	11315
VOLUME CONTROL	F-3076	F-3076	F-3076
BIAS CHOKE	10791	--	--
SPEAKER	F-9824	F-9824	F-9024
SPEAKER CONNECTIONS	BB	BB	B
DUMMY PLUG CONNECTIONS	3	3	3
EXTRA SPEAKER PLUG WIRING	X	X	X

MODELS MANUFACTURED AND THEIR COMPONENTSCONCERT MAESTROTelephone - Single Channel System

Amplifier	1130
Tubes used	5-75 2-6C6 2-2A3 1-6Z3 1-80
Power transformer	23003
Filter choke	10038
Bias choke	10791
Input transformer	10711
Output transformer	11341
Line transformer	23002
Coin signal transformer	23242
Coin signal relay	23188
Microphone volume control	23005
Phasing control	23004
Treble control	10688
Bass control	10059
Volume control (Symphonola)	F-1344
Volume control (telephone)	23034
Speaker, main	F-9024
Speaker connections	B
Speaker, top	F-6354A
Speaker connections	F
Dummy plug connections	3
Extra Speaker plug wiring	K

Central System Adapter

(Used with Type B, 2-channel system)

Tubes used	2-6J5GT 1-6Y3G
Power transformer	23278
Filter choke	23280
Coin credit transformer	23242
Program line transformer	23276
Order line transformer	23267
Microphone transformer	23312
Microphone volume control	23005

MODELS MANUFACTURED AND THEIR COMPONENTS

TRANSMITTERS

Transmitter	T-1Z	T-5Z T-3Z
Tubes used	2-6F8G 1-6J5G 1-80	2-6F8G 1-6J5G 1-80
Power transformer	11022	11022
Filter choke	11007	11007
Bass choke	11072	11072
Modulation transformer	11006	11006
Oscillator coil (see r.f. coils)	30148	30148
Output coil (see r.f. coils)	30167	30179
R.f. choke	11012	11012
Modulation control	11010	11010

REMOTE RECEIVERS

Receiver	RR5-1Z	RR6-2Z	RR6-6Z
		RR8-3Z	
Tubes used	2-6X7 1-6B8 1-2A3 1-6Z3	2-6X7 1-6SR7 2-6V6GT 1-5U4G	2-6X7 1-6SR7 2-6V6GT 1-5U4G
Power transformer	11037	11397	11397
Filter choke	11031	11396	11396
Output transformer	Part of speaker assembly.		
Coupling choke(see input trans)	--	11400	11400
1st (input) r.f. coil	30151	30183	12243
2nd (inter.) r.f. coil	--	30184	30184
3rd (diode) r.f. coil	30152	30185	30185
Volume control	11152	11162	11152
Tone control	11153	11406	11406
Speaker	11059	11399	11399 or 16018
Speaker connections	G	H	H

MODELS MANUFACTURED AND THEIR COMPONENTSSELECTION RECEIVERS

Receiver	SR22	USR-1	USR-2	GSR-1
Tubes used	2-6X7 1-6H6 1-6X5G 1-2A4G 1-80	2-6K7 1-6H6 1-6X5G 1-2A4G 1-80	2-6K7 1-6H6 1-6X5G 1-2051 1-80	2-6K7 1-6H6 1-6X5G 1-2051 1-80
Power transformer	10844	11388	11493	11462
Filter choke	10840	10840	10840	10840
R.F. choke	10843	10843	10843	10843
1st (input) r.f. coil	30160	30182	30196	30202
2nd (interstage) r.f. coil	30113	30180	30197	30203
3rd (diode) r.f. coil	30114	30181	30198	30204
Sensitivity control	10839	11315	11515	11315

POWER SUPPLIES

Unit	Transformer
SFS-12	11213
SFS-32	14182
SFS-52	11213
SFS-72	14182
FS6-12	11213
FS12-32	11213
25VT-12	11213
<u>STEP SELECTOR SS20-1</u>	
Power transformer	12002
Filter choke	10840

MODELS MANUFACTURED AND THEIR COMPONENTS

REMOTE CONSOLES

Console	WC-1Z	EC-1ZA	DSC-1Z
Selector	VS-20Z	WS-20Z	DS20-20Z
Speaker	16018	F-7534 or 16046	16046
Speaker conn.	H	A (with 16046)	A (with 16046)
Receiver	RR4-5Z	--	--
Speaker Field Supply	--	9SFS-15 (with 16046)	9SFS-15 (with 16046)
Lighting Trans.	16001	16001	16001
Power Transformer		12195 (9SFS-15)	12195 (9SFS-15)

SPEAKORGANS

MODEL	SO-1Z	SO-3Z	SO-10X	SO-15X	SO-16X	SO-20Z
Receiver	RR5-1Z	RR6-2Z	None	None	None	RR6-2Z
Speaker	11059	11399	F-7534	F-7534	11567	11399
Speaker Conn.	--	--	--	--	A	--
Type	Wire- less	Wire- less	Wired	Wired	Wired	Wire- less
Power supply	--	--	--	--	Trans. 12195) 9SFS-15	--

TRANSFORMERS, COILS, AND CONTROLS

AND

THEIR

SUBSTITUTES

INDEX

Page

TRANSFORMERS, COILS, AND CONTROLS

Filter Chokes.....	1a
Input Transformers.....	1a
Output Transformers.....	2a
Tone Chokes.....	2a
Power Transformers.....	3a
Power Transformers (contd.).....	4a
R. F. Coils.....	5a
Controls.....	6a

MODELS MANUFACTURED AND THEIR COMPONENTS

Amplifiers.....	1
Amplifiers (contd.).....	2
Models A, B, and C.....	3
Model D.....	3
Model F.....	3
Models H, I, and Queen.....	3
K-20, Model J, Melody King, Royal.....	3
Rex.....	3
Gen.....	4
Regal.....	4
Crown.....	4
Concert Grand.....	4
Casino, Vogue.....	5
Mayfair.....	5
Plaza.....	5
Classic.....	5
Colonel, Commander, Concert Master.....	5
Cadet, Major, Envoy.....	6
Model RCES - 1940.....	6
7350 ES.....	6
8800 ES.....	6
6800 RC.....	6
9800 ES.....	7
9500 RC.....	7
8200 RC.....	7
Central System Adapter.....	8
Concert Maestro-Telephone - Single Channel System.....	8
Transmitters.....	9
Remote Receivers.....	9
Selection Receivers.....	10
Power Supplies.....	10
Remote Consoles.....	11
Speakers.....	11

SPEAKER INFORMATION

Speaker Specifications.....	12 & 13
Notes on Speakers.....	14
Speaker Connections - 1.....	15
Speaker Connections - 2.....	16
Extra Speaker Plug Wiring.....	17
Dummy Plug Connections.....	18

FILTER CHOKES

Page 120

WC-1002V	Use 10036
WC-1006H	Use 10840
WC-1017V	Use 10317
10036	No substitute
10840	" "
10317	" "
10318	" "
11007	" "
11061	No exact substitute. Use 11398 with different mounting.
11306	No substitute.
11310	No exact substitute. Use 12223 with different mounting.
11398	" " " " 11061 " " "
12223	" " " " 11310 " " "
23290	No substitute.

INPUT TRANSFORMERS

WI-5020-H	Substitute 10711, 11309
WI-5041-H	" 10711, 11309
10034	" 10314
10314	" 10034
10315	No substitute
10711	Substitute 11309
11309	" 10711
11400	No substitute
12064	Substitute 12 03
12066	" 12226
12203	" 12034
12226	" 12066

OUTPUT TRANSFORMERS

WO-2030BY	Substitute	10035, 10272
WO-2044V	"	10035, 10272
WO-2067V	"	10035, 10272
WO-2089V	"	10035, 10272
10035	"	11308, 11341 (tape yellow lead)
10272	"	11308, 11341 (tape yellow lead)
10318	No substitute.	
11308	Substitute 11341 (same except lead length)	
11341	"	11308 (Same except lead length)
12058	No substitute.	
12217	No substitute.	

TORE CHOICES

12033	No substitute.
11072	Electrical characteristics same as 10035, 10327, 10402 but mounting different.
10033)	All interchangeable except for lead length. Use 10402 for longest leads. Substitute 11072 and drill amplifier for different mounting.
10327)	
10402)	

POWER TRANSFORMERS

WP-3010B No exact substitute. Use 10710, changing 2-56 tubes in amplifier to 2-73

WP-3038 Substitute 10040

WP-3035 No substitute.

WP-3064 Substitute 10040

WP-3072 No exact substitute. Use 10040.

WP-3075 No exact substitute. Use 10040. Discontinue 6-volt light.

F-7813 No substitute.

10040 No exact substitute. Use 10333 which has same dimensions and mounting, replacing 56 tubes with 76 and 57 tubes with 6C6.

10287 Substitute 10333, 10710, 11192. 10792 can be used but tape up bias leads. 12057, a shielded upright mounting, can be used.

10297 Substitute 10335

10298 " 10336

10333 Substitute 10710, 11192. (10792 can be used but tape up bias leads) 12057, a shielded upright mounting, can be used.

10335 Substitute 10297

10336 " 10298

10710 " 10333, 11192, 10287, 10792 can be used but tape up bias leads. 12057, a shielded upright mounting can be used.

10792 Substitute 11195 (25 cycle equivalent)

11022 No substitute.

11037 " "

10844 Use 11462 by changing 2A4G tube to 2051 (connecting 2051 heater terminals to 6X5G socket) and tape up 25-volt leads. Substitute 11386. Use 11493 by changing 2A4G to 2051.

11191 No exact substitute. Use 11194 and tape up bias winding leads or use 12079 which has different mounting.

11192 Use 10333, 10710, 10287. 10792 can be used but tape up bias leads. 12057, a shielded upright mounting can be used.

16001 Substitute F-7813 but remove plug from wire.

11325 Substitute 21359 but mount in new place.

POWER TRANSFORMERS

11134	No substitute.
11195	Substitute 10792
11213	" 12211, 12063
11307	No substitute.
11310	No exact substitute. Use 12202 and change amplifiers to use 2051 tube in place of 2A4G.
11388	No exact substitute. Use 11493 and change amplifier to use 2051 tube in place of 2A4G.
11397	No substitute.
11462	" "
11493	No exact substitute. Use 11462 and tape up 26-volt leads.
12002	No substitute.
12057	No exact substitute. 10533, 11192 can be used but will require change in mounting.
12059	No substitute.
12060	Substitute 12303, 12213.
12063	" 12211, 11213
12079	No substitute.
12080	" "
12195	" "
12202	No exact substitute. Use 12301 and change bias circuit to correspond to circuit used in MCS25-15 amplifier.
12204	Substitute 12306.
12211	Substitute 11213, 12063
12213	" 12060, 12303
12301	No substitute
12303	No substitute
14182	" "
23003	" "
23242	" "

R. F. COILS

13057	Use 13129, connecting green lead to #5 socket terminal.
13105	No substitute.
13129	Substitute 13295
13295	" 13129
12243	" 30183
30112	" 30191
30113	" 30197
30114	" 30193
30148	No substitute.
30151	Substitute 12243
30152	" 30185
30160	" 30191
30167	Use 30179, shorting out .001 mica condenser in plate lead.
30179	" 30167, adding .001 mica condenser in plate lead of 6F3C.
30180	Substitute 30197
30181	" 30195
30182	" 30191
30183	" 12243
30184	No substitute.
30185	" "
30191	Substitute 30193, 30180, 30182
30192	" 30197
30193	" 30198, 30204
30196	" 30191
30197	" 30192, 30203
30198	" 30193
30202	" 30191
30203	" 30197
30204	" 30193

CONTROLS

P-3101	Substitute 10139	(1 meg)
P-3103	" 10039	(100M)
F-1344	" F-3076	(15M)
F-3076	No substitute	(16M)
A-5434	No substitute	(100M)
10038	Substitute 11408	(1 Meg)
10039	No substitute	(100M)
10139	Substitute 10322	(1 meg)
10236	Switch type. Use 10688 with .02 condenser. See 615-3 amplifier.	
10286	" " "	10688 " .02 " " 615-3 "
10288	No substitute	(200M)
10322	Substitute 10139	(1 meg)
10325	No substitute	(1 meg)
10348	" "	(100M)
10688	" "	(1 meg)
11010	" "	(250M)
10687	" "	(100M)
11152	" "	(250M)
11153	" "	(1 Meg)
10839	" "	(40M)
11315	" "	(40M)
11408	Substitute 10039	(1 meg)
23004	No substitute	(50M)
23005	" "	(500M)
23034	" "	(100M)

INSTRUCTION BOOK, MECHANISM
CHARTS, WIRING DIAGRAMS AND
AMPLIFIER CIRCUITS COVERING
THE 20-RECORD MODELS: GEM,
REGAL AND CONCERT GRAND
SEEBURG SYMPHONOLAS

1-15-38

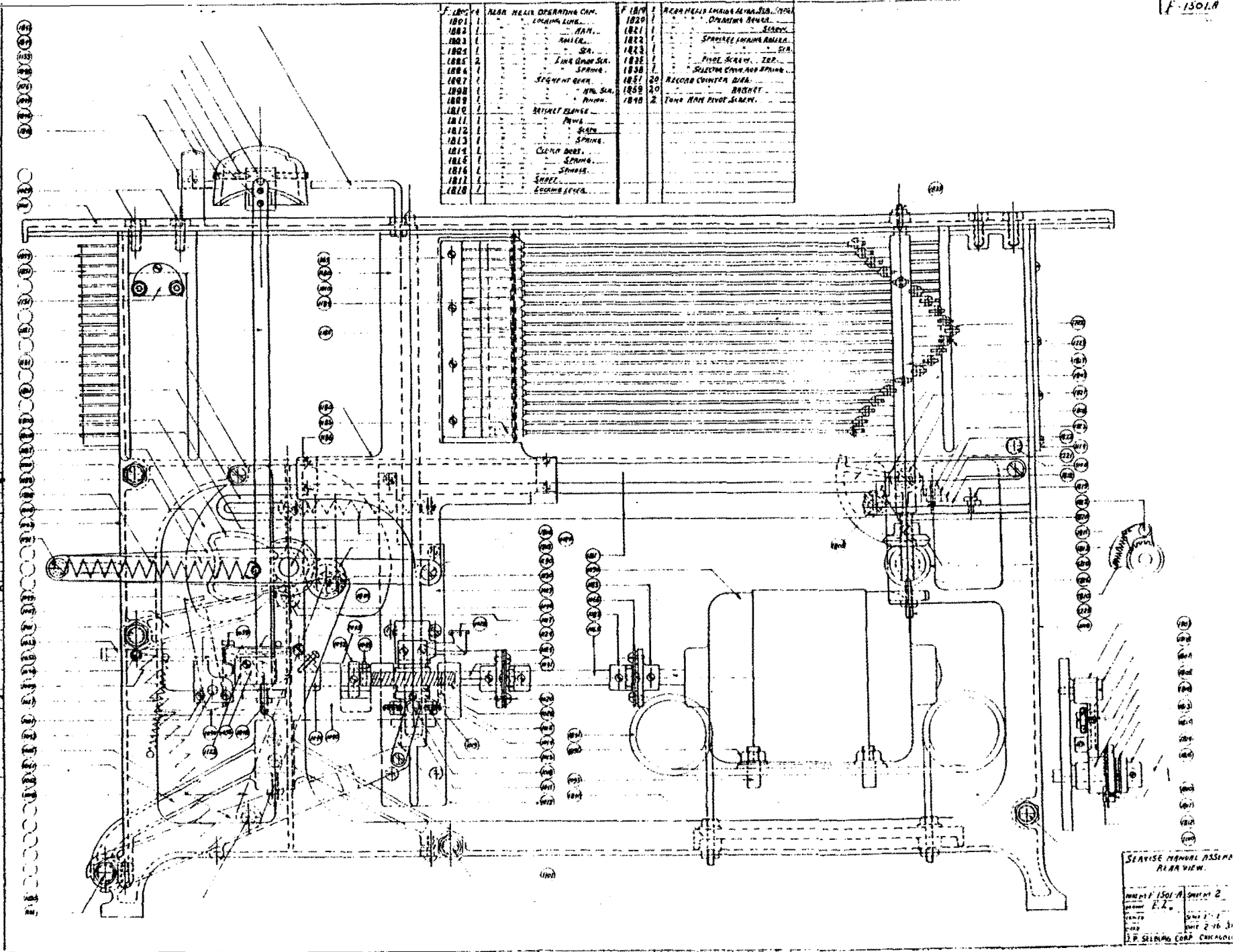
Stock List:

DESCRIPTION

TOP SHELF.
 REAR FRAME.
 TRANSMISSION ELEVATING LEVER.
 COIL.
 LEVER.
 COIL AND
 SPRINGS.
 SPINDLE.
 TANGENT DRIVE.
 LENS.
 ARM.
 CLUTCH BAR.
 SPRING.
 LIFTING COIL ADJUSTER.
 SPRING.
 LINK SCREW.
 TANGENT DRIVE ADJUSTER.
 DRIVE WORN GEAR.
 MOUNTED
 PIN.
 SPINDLE ADJUSTER.
 ON COIL.
 TOP SHELF RTG SCREW.
 TRANSMISSION ELEVATING LEVER.
 TRANSMISSION BEARING.
 SHAFT.
 CLUTCH.
 SHAFT COIL ADJUSTER.
 WORN SHAFT.
 PIN.
 CLUTCH ADJUSTER BAR.
 LINK.
 ARM.
 AND MOUNTING.
 RETURNING SPRING.
 TANGENT.
 PIN.
 RELEASE PIVOT.
 TANGENT SPRING.
 PLATE.
 DRIVING SUPPORT.
 RETURNING SPRING.
 MOTOR DRIVE SHAFT.
 COIL AND SPRING.
 CAN SHAFT.
 TRANSMISSION DRIVE COIL AND SPRING.
 MOTOR.
 RTG SHAFT.
 PIN.
 FRAME TIE ROD.
 ADJUSTMENT.
 COIL.
 TANGENT SPINDLE.
 TANGENT LEVER.
 BUSHING SPRING.
 DRIVING SPRING RTG SHAFT.
 COIL AND SPRING.
 SELECTOR SHAFT.
 ARM.
 PIVOT.
 SPRING.
 PIN.
 RETURNING SPRING.
 COIL AND SPRING.
 DETAIL BEAR.
 REAR HEAD LOCK SPRING.
 SHUT.
 SPRING.
 PIVOT SCREW.
 TANGENT PIVOT BUSHING.
 SELECTOR SHAFT SPRING CLAMP.

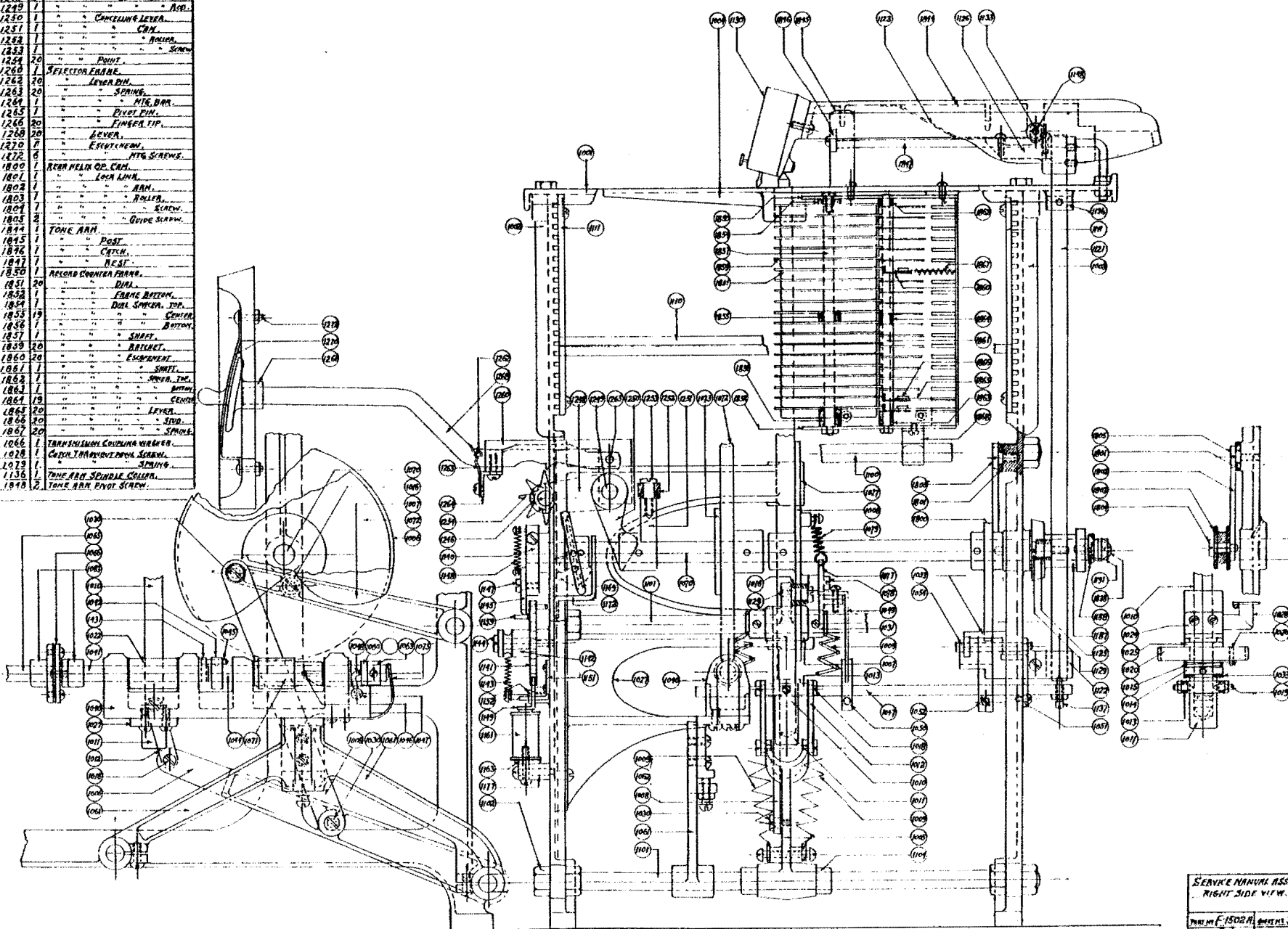
F. 1801	REAR HEAD OPERATING CAP.	F. 1801	REAR HEAD LOCKING ADJUSTER.
1801	LOCKING LEVER.	1801	DRIVING BEARING.
1802	ARM.	1801	SPRING.
1803	ARM.	1802	SPRING LOCKING ARM.
1804	ARM.	1803	SPRING.
1805	LINK AND SPR.	1804	PIVOT SCREW. TOP.
1806	SPRING.	1805	SELECTOR COIL AND SPRING.
1807	SEGMENT BEAR.	1806	RECORD COIL AND SPRING.
1808	ARM.	1807	RECORD COIL AND SPRING.
1809	ARM.	1808	RECORD COIL AND SPRING.
1810	ARM.	1809	RECORD COIL AND SPRING.
1811	ARM.	1810	RECORD COIL AND SPRING.
1812	ARM.	1811	RECORD COIL AND SPRING.
1813	ARM.	1812	RECORD COIL AND SPRING.
1814	ARM.	1813	RECORD COIL AND SPRING.
1815	ARM.	1814	RECORD COIL AND SPRING.
1816	ARM.	1815	RECORD COIL AND SPRING.
1817	ARM.	1816	RECORD COIL AND SPRING.
1818	ARM.	1817	RECORD COIL AND SPRING.

F. 1301.8



SEARISE MANUAL ASSEMBLY
 AIR VIEW.
 PART 1301.8 SHEET 2
 DRAWN BY E. L. J.
 CHECKED BY J. P. S.
 DATE 2-16-31
 J. P. S. SEARISE CORP. CHICAGO

NO.	QTY.	DESCRIPTION
1001	1	TOP SHELF
1002	1	FRONT FRAME
1003	1	REAR
1004	1	TURN TABLE
1005	1	FLYING LEVER
1006	1	CON.
1007	1	LEVER
1008	1	COMM. ROD
1009	1	SPRING
1010	1	SPRING
1011	1	SPRING
1012	2	SPRING
1013	1	SPRING
1014	1	SPRING
1015	1	SPRING
1016	1	SPRING
1017	1	SPRING
1018	1	SPRING
1019	1	SPRING
1020	1	SPRING
1021	1	SPRING
1022	1	SPRING
1023	1	SPRING
1024	1	SPRING
1025	1	SPRING
1026	1	SPRING
1027	1	SPRING
1028	1	SPRING
1029	1	SPRING
1030	1	SPRING
1031	1	SPRING
1032	1	SPRING
1033	1	SPRING
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1037	1	SPRING
1038	1	SPRING
1039	1	SPRING
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1046	1	SPRING
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1066	1	SPRING
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1118	1	SPRING
1119	1	SPRING
1120	1	SPRING
1121	1	SPRING
1122	1	SPRING
1123	1	SPRING
1124	1	SPRING
1125	1	SPRING
1126	1	SPRING
1127	1	SPRING
1128	1	SPRING
1129	1	SPRING
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1198	1	SPRING
1199	1	SPRING
1200	1	SPRING

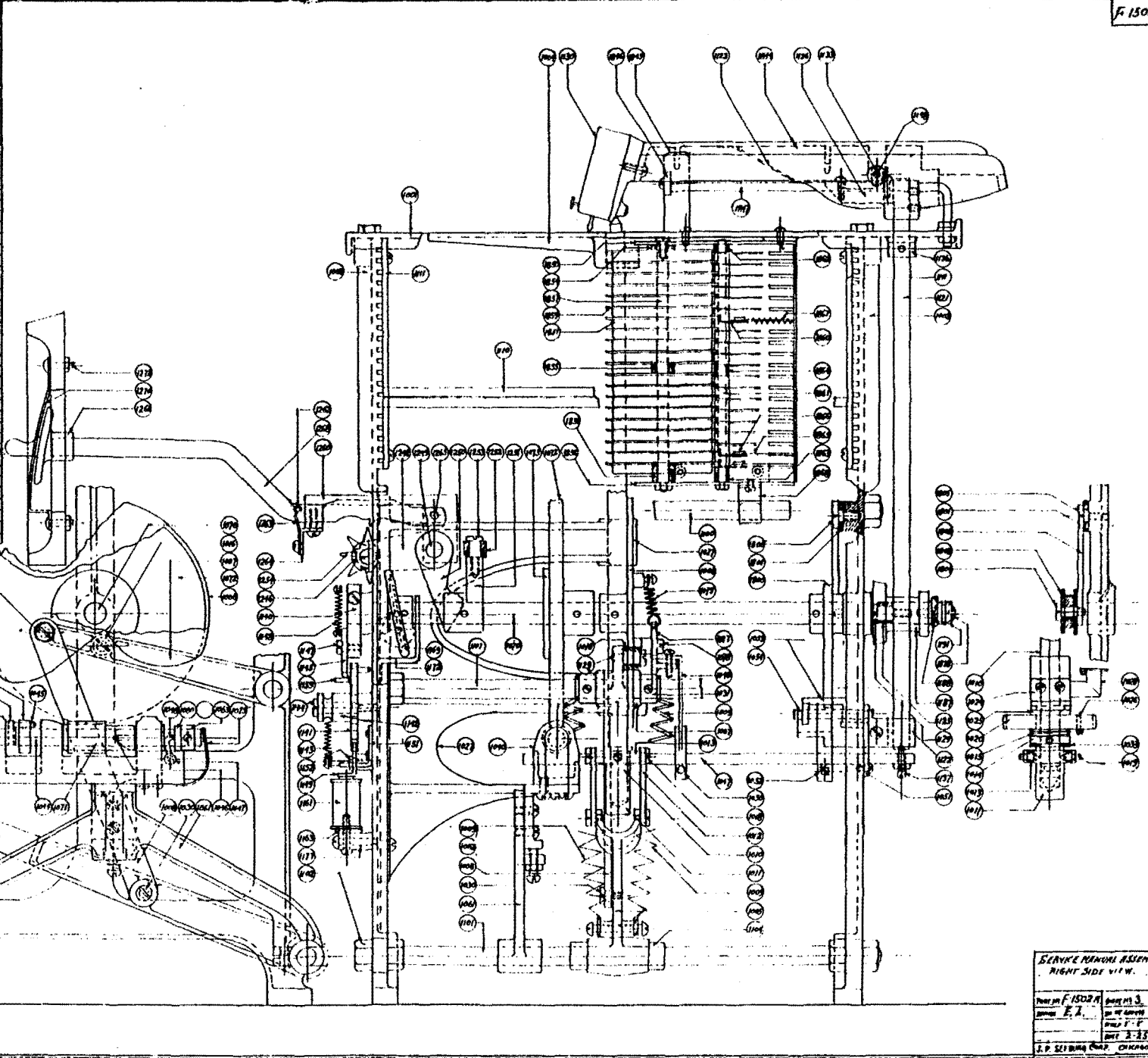


SERVICE MANUAL ASSEMBLY
RIGHT SIDE VIEW

FIG. 1502A
REV. 1
J. P. SEEBURG CO. CHICAGO, ILL.

NO.	DESCRIPTION
1	TRAP SHEET
2	FRAME FRAME
3	BACK
4	DOWN TABLE
5	FLYING LEVER
6	CON.
7	1254
8	CON. ROD
9	SPRING
10	SPRING
11	SPRING
12	SPRING
13	SPRING
14	SPRING
15	SPRING
16	SPRING
17	SPRING
18	SPRING
19	SPRING
20	SPRING
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22	SPRING
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97	SPRING
98	SPRING
99	SPRING
100	SPRING

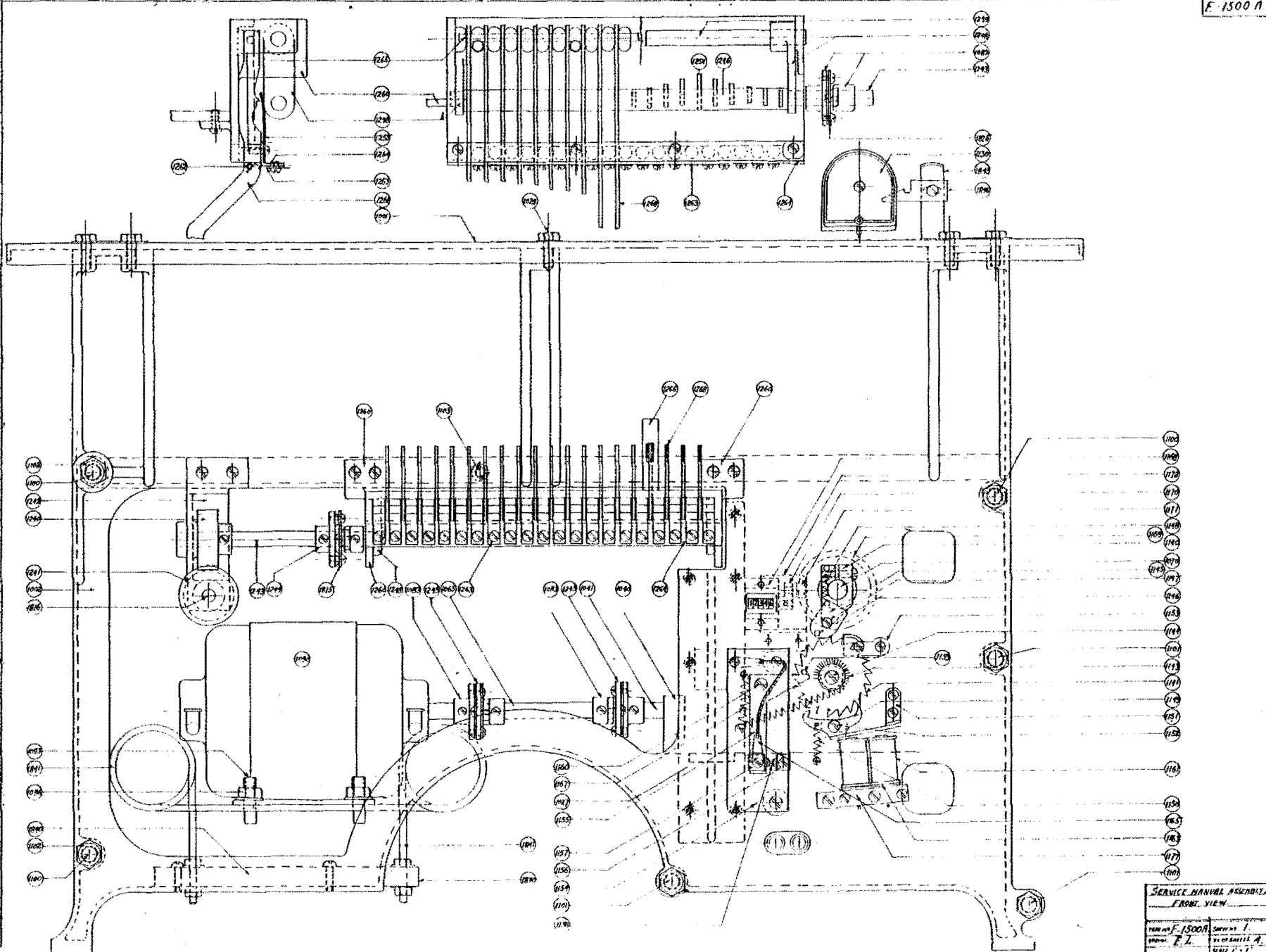
1191	1	SELECTOR SLIDE CARTRIDGE SPRING
1246	1	FRONT REAR SHIRT
1247	1	FRONT REAR SHIRT
1248	1	FRONT REAR SHIRT
1249	1	FRONT REAR SHIRT
1250	1	FRONT REAR SHIRT
1251	1	FRONT REAR SHIRT
1252	1	FRONT REAR SHIRT
1253	1	FRONT REAR SHIRT
1254	20	POINT
1255	1	SELECTOR LEVER
1256	1	LEVER DR.
1257	1	SPRING
1258	1	MTG. DR.
1259	1	POINT DR.
1260	1	POINT DR.
1261	1	POINT DR.
1262	1	POINT DR.
1263	1	POINT DR.
1264	1	POINT DR.
1265	1	POINT DR.
1266	1	POINT DR.
1267	1	POINT DR.
1268	1	POINT DR.
1269	1	POINT DR.
1270	1	POINT DR.
1271	1	POINT DR.
1272	1	POINT DR.
1273	1	POINT DR.
1274	1	POINT DR.
1275	1	POINT DR.
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1277	1	POINT DR.
1278	1	POINT DR.
1279	1	POINT DR.
1280	1	POINT DR.
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1285	1	POINT DR.
1286	1	POINT DR.
1287	1	POINT DR.
1288	1	POINT DR.
1289	1	POINT DR.
1290	1	POINT DR.
1291	1	POINT DR.
1292	1	POINT DR.
1293	1	POINT DR.
1294	1	POINT DR.
1295	1	POINT DR.
1296	1	POINT DR.
1297	1	POINT DR.
1298	1	POINT DR.
1299	1	POINT DR.
1300	1	POINT DR.



SERVICE MANUAL ASSEMBLY
 RIGHT SIDE VIEW
 Part No. F 1502A
 Date 1-1-54
 Drawn by E. J.
 Checked by J. P. Seibing
 Date 2-23-54
 J. P. Seibing Chief Engineer

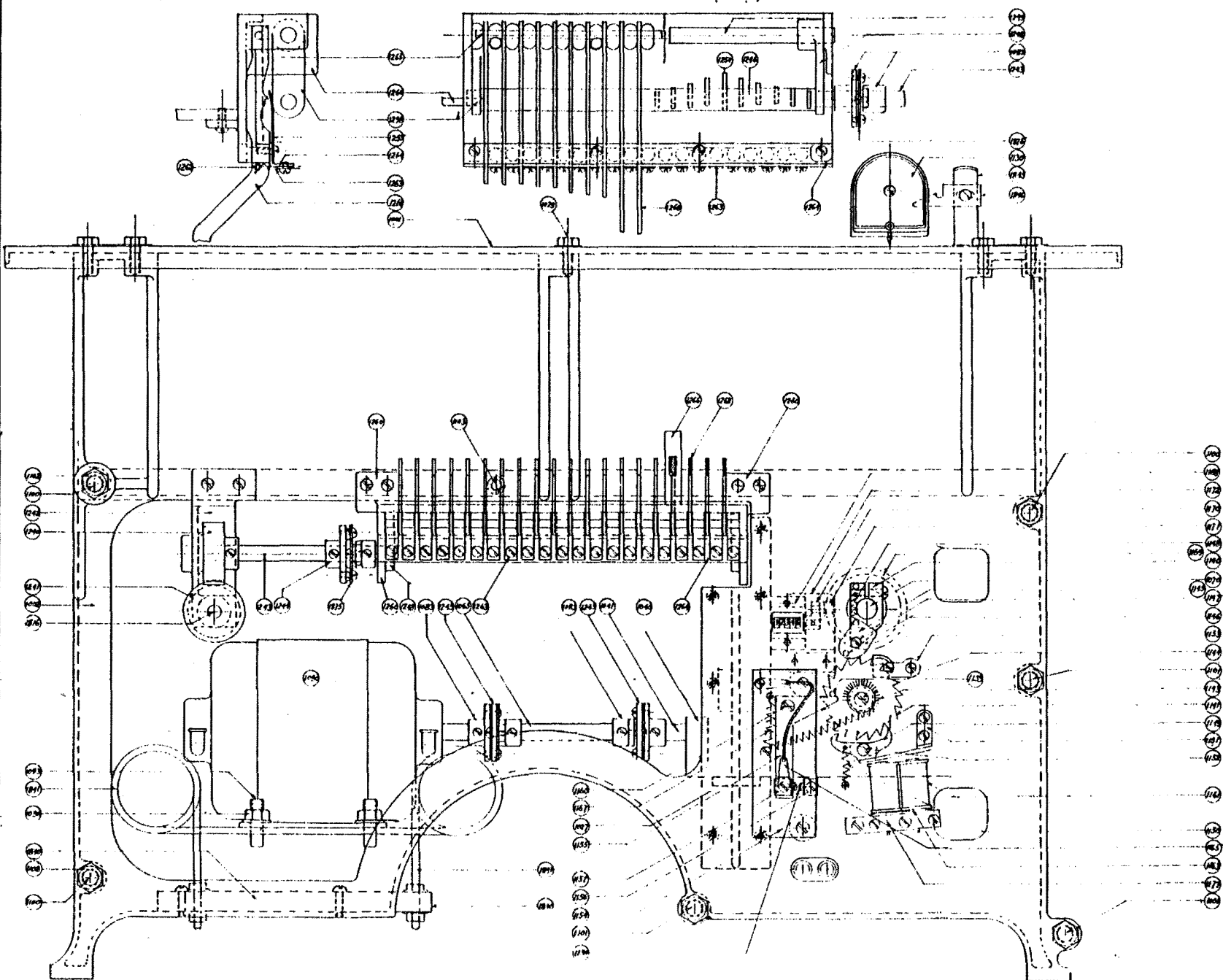
STOCK LIST

ITEM NO.	DESCRIPTION
1001	TOP SHAKE
1002	FRONT FRAME
1023	FRONT TABLE SINGLE BRACKET
1028	TOP SHELF MTG. SCREW
1030	TRANSMISSION BEARING
1041	SHAFT
1065	MOTOR DRIVE SHAFT
1066	Coupling WHEEL
1080	CRIM. SHAFT
1083	TRANSMISSION COUPLING
1090	MOTOR
1093	MTG. BOLT
1096	NUT
1100	FRAME TIE BAR
1101	ROLLED TIE BAR
1102	CRIM. TIE BAR
1103	MTG. NUTS
1104	TOP CENTER
1105	PISTON HEAD
1140	MACHINE NUTS
1141	WASHER
1143	WASHER
1144	MTG. SCREW
1145	WASHER
1146	MTG. SCREW
1147	WASHER
1148	MTG. SCREW
1149	WASHER
1150	MTG. SCREW
1151	WASHER
1153	MTG. SCREW
1154	WASHER
1155	MTG. SCREW
1156	WASHER
1157	MTG. SCREW
1158	WASHER
1159	MTG. SCREW
1160	WASHER
1161	MTG. SCREW
1162	WASHER
1163	MTG. SCREW
1164	WASHER
1165	MTG. SCREW
1166	WASHER
1167	MTG. SCREW
1168	WASHER
1169	MTG. SCREW
1170	WASHER
1171	MTG. SCREW
1172	WASHER
1173	MTG. SCREW
1174	WASHER
1175	MTG. SCREW
1176	WASHER
1177	MTG. SCREW
1178	WASHER
1179	MTG. SCREW
1180	WASHER
1181	MTG. SCREW
1182	WASHER
1183	MTG. SCREW
1184	WASHER
1185	MTG. SCREW
1186	WASHER
1187	MTG. SCREW
1188	WASHER
1189	MTG. SCREW
1190	WASHER
1191	MTG. SCREW
1192	WASHER
1193	MTG. SCREW
1194	WASHER
1195	MTG. SCREW
1196	WASHER
1197	MTG. SCREW
1198	WASHER
1199	MTG. SCREW
1200	WASHER
1201	MTG. SCREW
1202	WASHER
1203	MTG. SCREW
1204	WASHER
1205	MTG. SCREW
1206	WASHER
1207	MTG. SCREW
1208	WASHER
1209	MTG. SCREW
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1213	MTG. SCREW
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1215	MTG. SCREW
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1221	MTG. SCREW
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1233	MTG. SCREW
1234	WASHER
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1236	WASHER
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1245	MTG. SCREW
1246	WASHER
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1289	MTG. SCREW
1290	WASHER
1291	MTG. SCREW
1292	WASHER
1293	MTG. SCREW
1294	WASHER
1295	MTG. SCREW
1296	WASHER
1297	MTG. SCREW
1298	WASHER
1299	MTG. SCREW
1300	WASHER

SERVICE MANUAL ASSEMBLY
FRONT VIEW

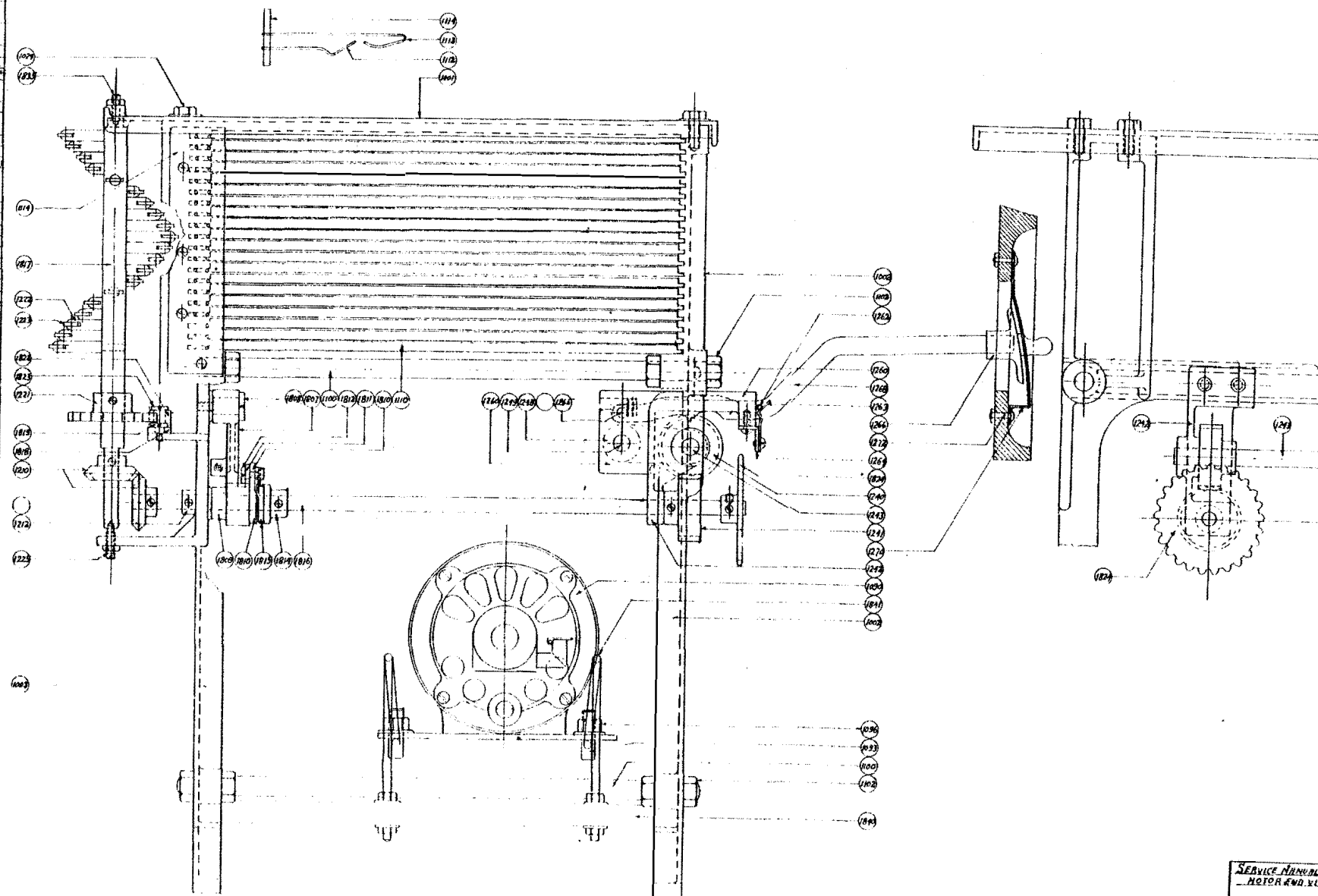
MANUAL F-1500 A	SERIAL NO. 1
DATE OF BIRTH 1	DATE 1-1-1
UNIT 2-27-38	
J.P. SERRAVALLO CORP. CHICAGO, ILL.	

Stock List		
Part No.	Qty.	Description
1001	1	TOP SHELL
1002	1	FRONT FRAME
1021	1	TYRE BASE SHAFT BRACKET
1028	9	TOP SHELL MTG. SCREW
1030	1	TRANSMISSION BEARING
1041	1	SHAFT
1065	1	MOTOR DRIVE SHEET
1066	2	CHROME WHEEL
1070	1	CAM SHAFT
1082	6	TRANSMISSION COUPLING
1090	1	MOTOR
1093	1	MTG. BOLT
1098	1	NUT
1100	3	FRONT TIE BAR
1101	3	CH. TEN.
1102	23	NUTS
1103	1	WASHER
1130	1	PROP. HEAD
1140	1	HEATING HANGER BUSH
1141	1	RETINET
1143	1	RETURN SPRING
1144	1	MTG. SCREW
1145	1	PLATE
1146	1	P.M.
1147	1	SCREW
1148	1	SPRING
1149	1	CHAMPNESS
1150	1	SPRING
1151	1	SPR.
1153	1	PLATE REJECTOR BUSH
1154	1	SWITCH BASE
1155	1	LEVER
1156	1	COUPLING BRACKET
1157	1	CHINE
1158	1	LEVER END BUSH
1159	1	MTG. SCREW
1160	1	REAR COIL CHASE
1161	2	TIE PLATE
1162	25	SWITCH SLIDING ARM
1163	1	LEVER SPRING
1164	1	VEE BAR FINGER
1165	1	CH. CAM
1166	1	CH. CAM
1167	1	SPRING
1168	1	MTG. SCREW
1169	1	REAR COIL CHASE
1170	1	FRONT HELL DOME SHAFT
1171	1	SWIFT BEARING
1172	1	SWIFT (DRIVE)
1173	1	CHROME WHEEL
1174	1	FRONT HELL SHEET
1175	1	FLYING LUG
1176	1	ROD
1177	1	POINT
1178	20	ELEVATOR BOOSTER SPRING
1179	1	SELECTION FRAME
1180	1	LEVER END
1181	1	SPRING
1182	1	MTG. BUSH
1183	1	PIVOT ROD
1184	1	FOUNDER TIP
1185	20	LEVER (UNDERBUSH)
1186	1	REAR HELL DOME SHAFT
1187	1	MTG. MTG. BASE
1188	1	SPRING
1189	1	TIME ARM BASE
1190	1	CATCH
1191	1	FRONT HELL DOME CHROME SPRING
1192	1	FRONT HELL DOME CHROME SPRING



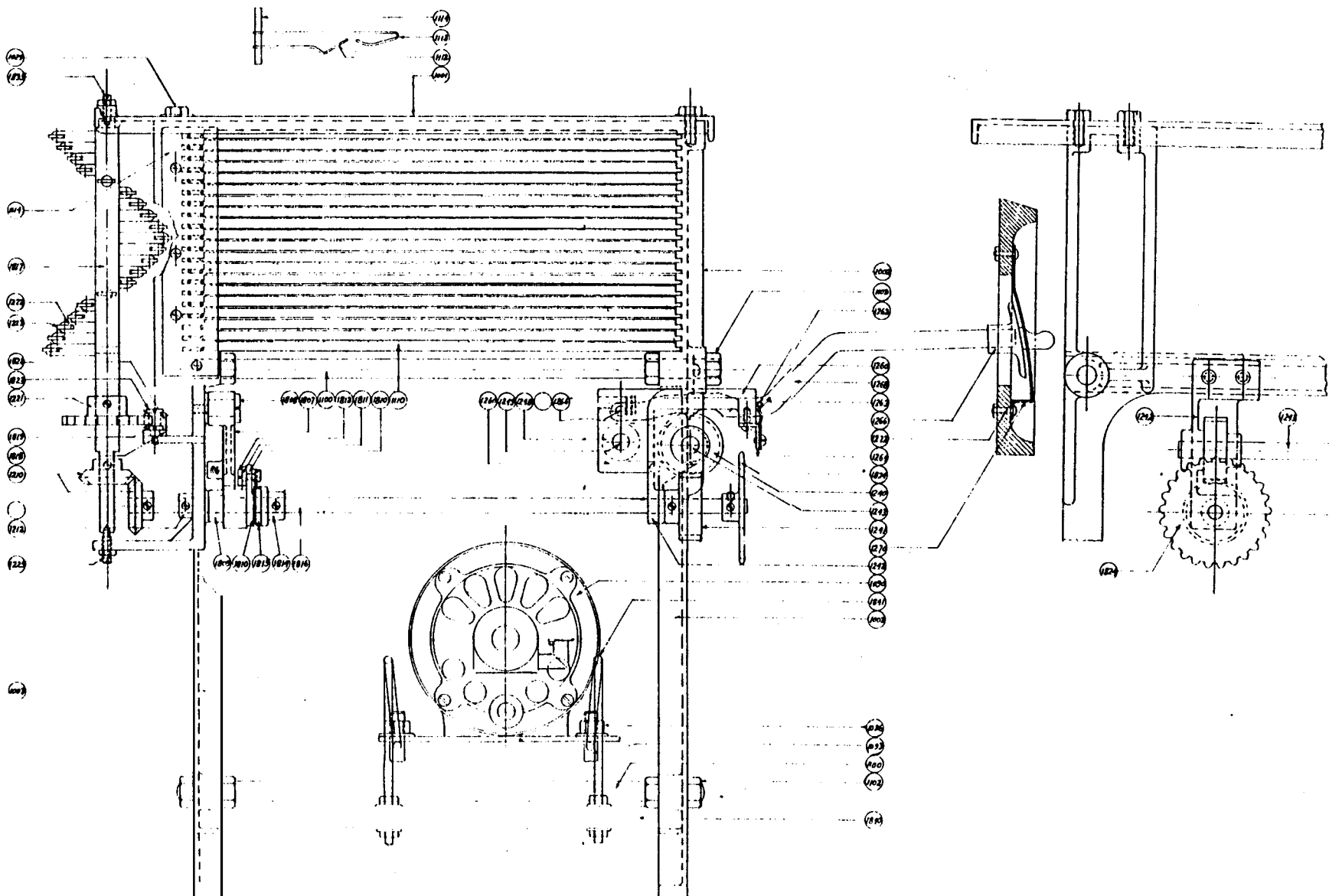
STOCK LIST.

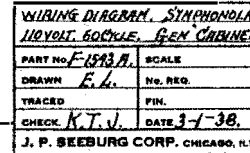
PART NO.	QTY.	DESCRIPTION.
1001	1	TOP SHELL.
1002	1	FRONT FRAME.
1003	1	REAR.
1009	9	TOP SHELL MTG SCREW.
1090	1	MOTOR.
1091	4	" MTG. BOLT.
1096	4	" NUT.
1100	3	FRAME TIE BAR. (ROUND BAR).
1108	6	" NUT.
1110	20	RECORD TANT.
1112	20	" LOCK SPRING.
1113	20	" SLIDE PIVOT BEARING.
1114	1	" LOCK SPRING PLATE.
1210	2	SELECTION DRIVE GEAR.
1212	1	" SPINDLE COLLAR.
1221	1	REAR HELIX LOCK SPINDLE.
1222	20	" STOP.
1223	20	" ROLLER.
1225	1	PIVOT SCREW. (LANTERN).
1240	1	FRONT HELIX DRIVE SPINDLE GEAR.
1241	1	" DRIVE SHAFT BEARING.
1242	1	" SHAFT.
1248	2	" ELEVATING LING.
1249	1	" AND.
1260	1	SELECTION LEVER FRAME.
1262	20	" BUSH.
1263	20	" SPRING.
1264	1	" MTG. BAR.
1265	1	" PIVOT ROD.
1266	20	" FINGER TIP.
1268	20	" LEVER.
1270	1	" ESTIMATING PLATE.
1272	6	" MTG. SCREW.
1807	1	REAR HELIX LOCK SPINDLE GEAR.
1808	1	" MTG. SCREW.
1809	1	" PIVOT.
1810	1	" ARMATURE FLANGE.
1811	1	" PIVOT.
1812	1	" SCREW.
1814	1	" CLUTCH BODY.
1815	1	" SPRING.
1816	1	" SPINDLE.
1818	1	" LOCK LEVER.
1819	1	" MTG. SCREW.
1822	1	" SPINDLE LOCKING ROLLER.
1823	1	" SCREW.
1824	2	DRIVE SPINDLE.
1835	1	REAR HELIX PIVOT SCREW. (TOP).
1840	1	MOTOR MTG. BASE.
1817	1	REAR HELIX SHAFT.

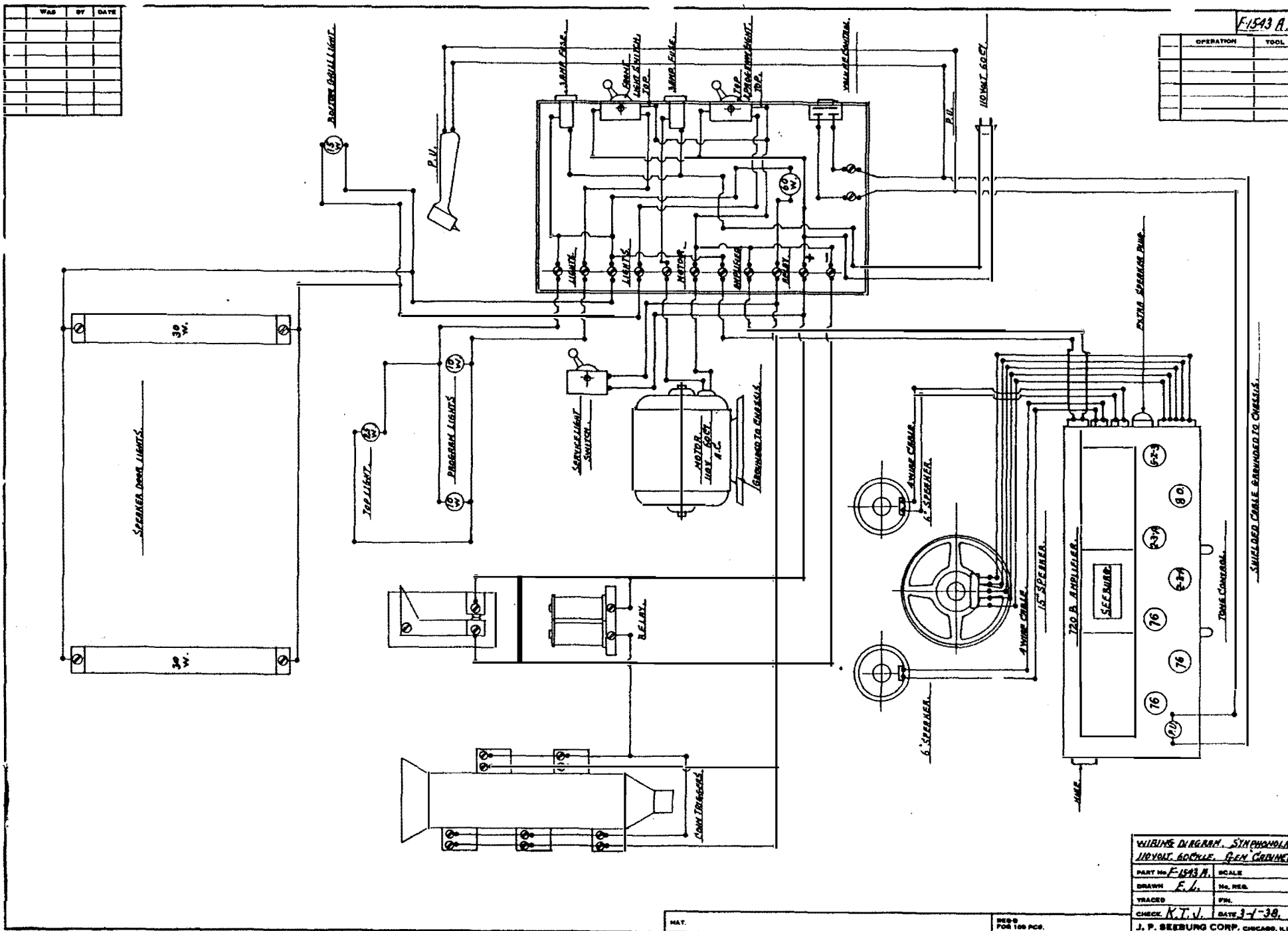


STOCK LIST

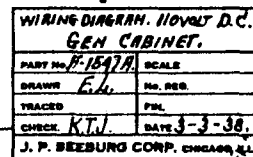
QTY	DESCRIPTION
1001	TOP SHELF
1002	FRONT FRAME
1003	REAR
1004	TOP SHELF MTG SCREW
1005	MOTOR
1006	MTG BOLT
1007	NUT
1008	FRAME TIE BAR (ROUNDING)
1009	NUT
1010	RECORD TAP
1011	LOCK SPRING
1012	SLIP PIVOT BUSHING
1013	LOCK SPRING PLATE
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WILBURS DIAGRAM, SYMPHONIA	
JAYBOLT BOCKLE, GEN CRABING	
PART No. F-1593A.	SCALE
DRAWN E.L.	No. REV.
TRACED	FIN.
CHECK K.T.V.	DATE 3-1-38.
J. P. SEEBURG CORP. CHICAGO, ILL.	

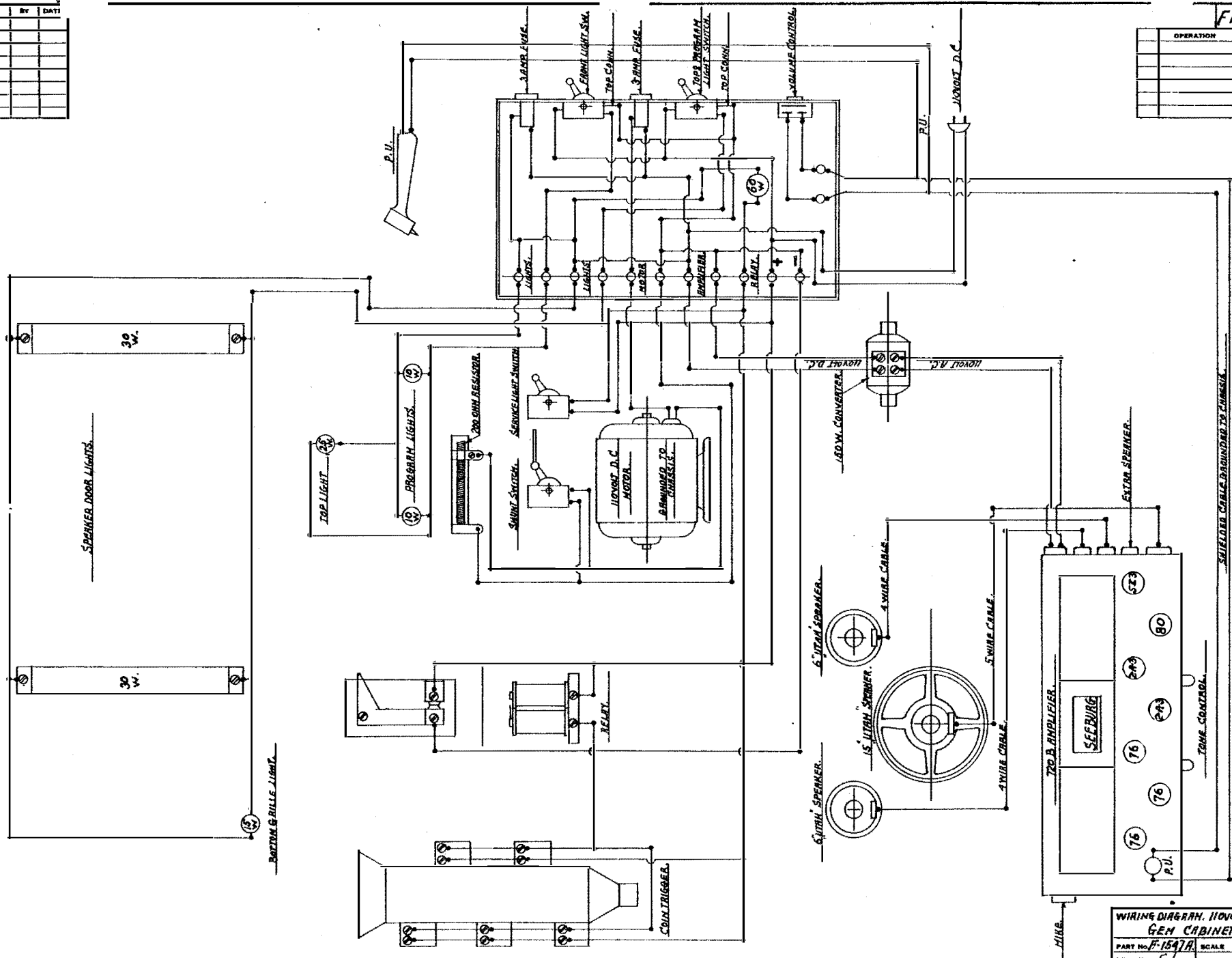
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READY
FOR 100 PAGES

WAB	BY	DATE

F1547A.

OPERATION	TOOL



WIRING DIAGRAM, 110VOLT D.C.
GEN CABINET.
PART NO. F1547A. SCALE
DRAWN E.H. NO. REQ.
TRACED FIN.
CHECK K.T.V. DATE 3-3-38.
J. P. SEEBURG CORP. CHICAGO, ILL.

MAT.

REQD FOR 100 PCS.

SHIELDED CABLE BRIDGED TO CHASSIS

HIVE

110V D.C. MOTOR

110V D.C. MOTOR

110V D.C. MOTOR

110V D.C. MOTOR

110V D.C. MOTOR

110V D.C. MOTOR

110V D.C. MOTOR

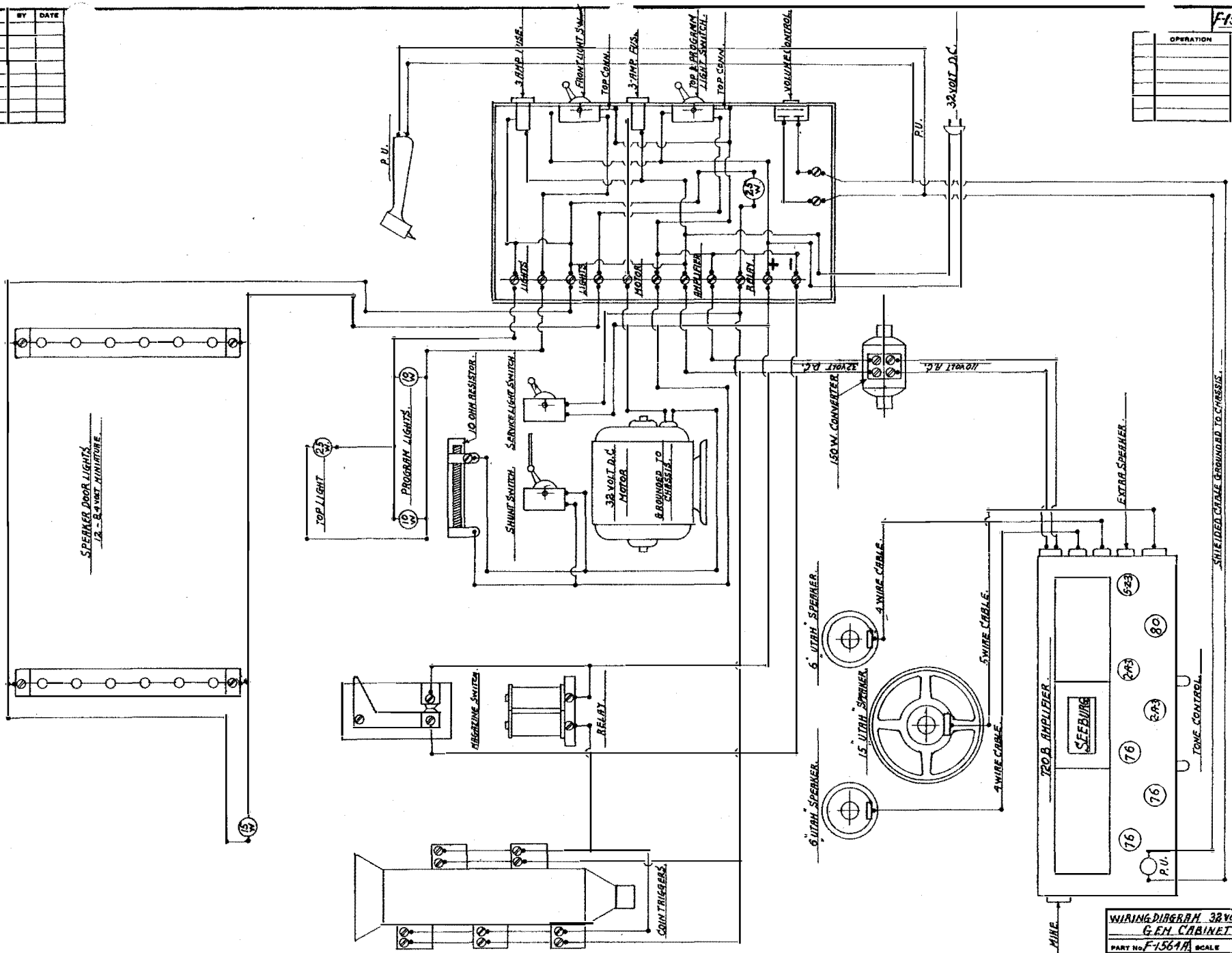
110V D.C. MOTOR

110V D.C. MOTOR

WAS	BY	DATE

F1561A

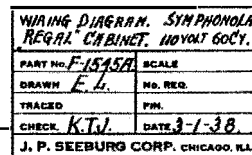
OPERATION	TOOL



WIRING DIAGRAM 32VOLT D.C. GEM CABINET.	
PART NO. F1561A	SCALE
DRAWN E.L.	NO. REQ.
TRACED	PIN.
CHECK K.T.J.	DATE 3-9-38
J. P. SEEBURG CORP. CHICAGO, ILL.	

MAT.

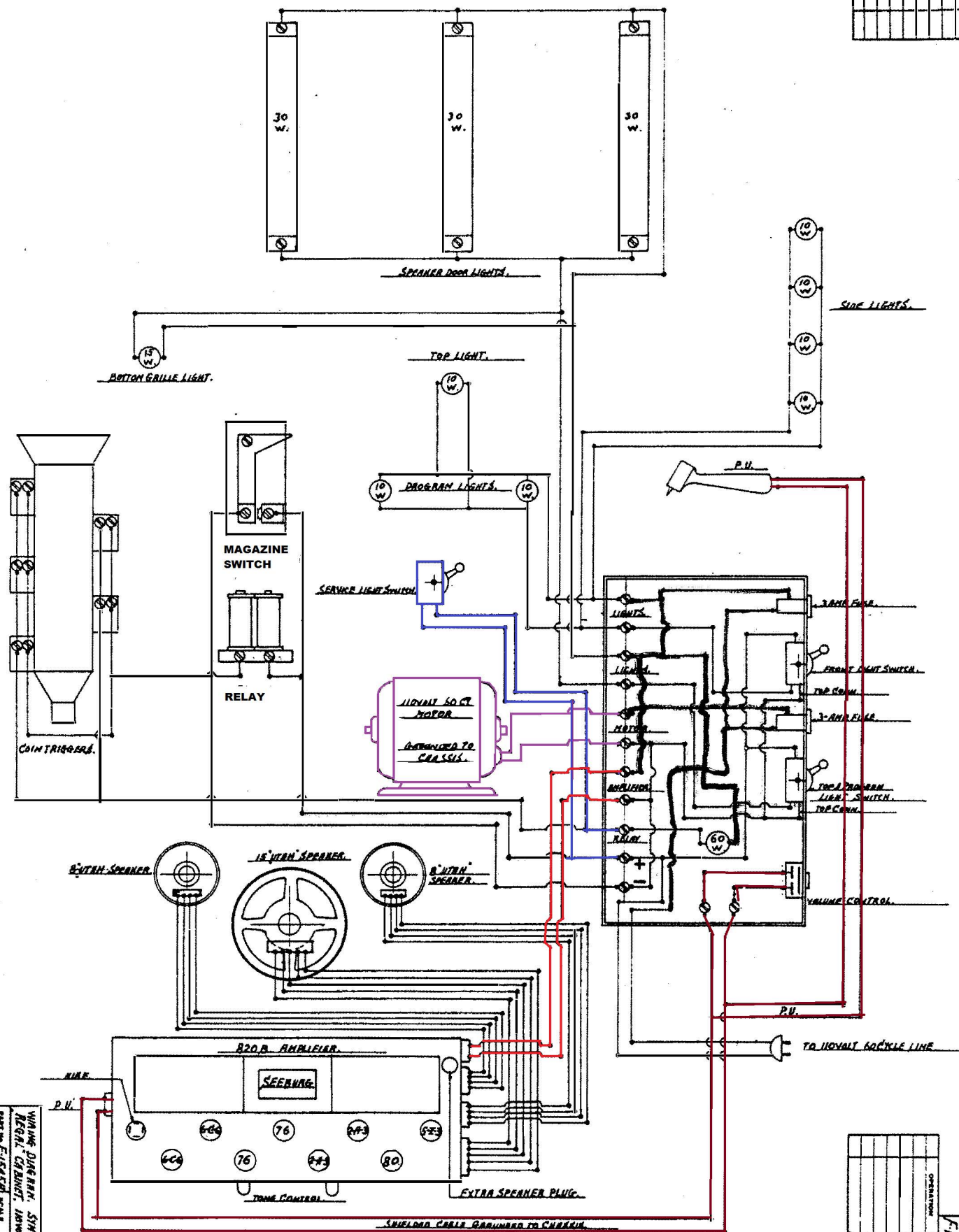
REQD FOR 100 PCS.

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Page 100 PC

J. P. SEEBURG CORP., CHICAGO, ILL.

DATE	
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WAT

READ FOR INFO.

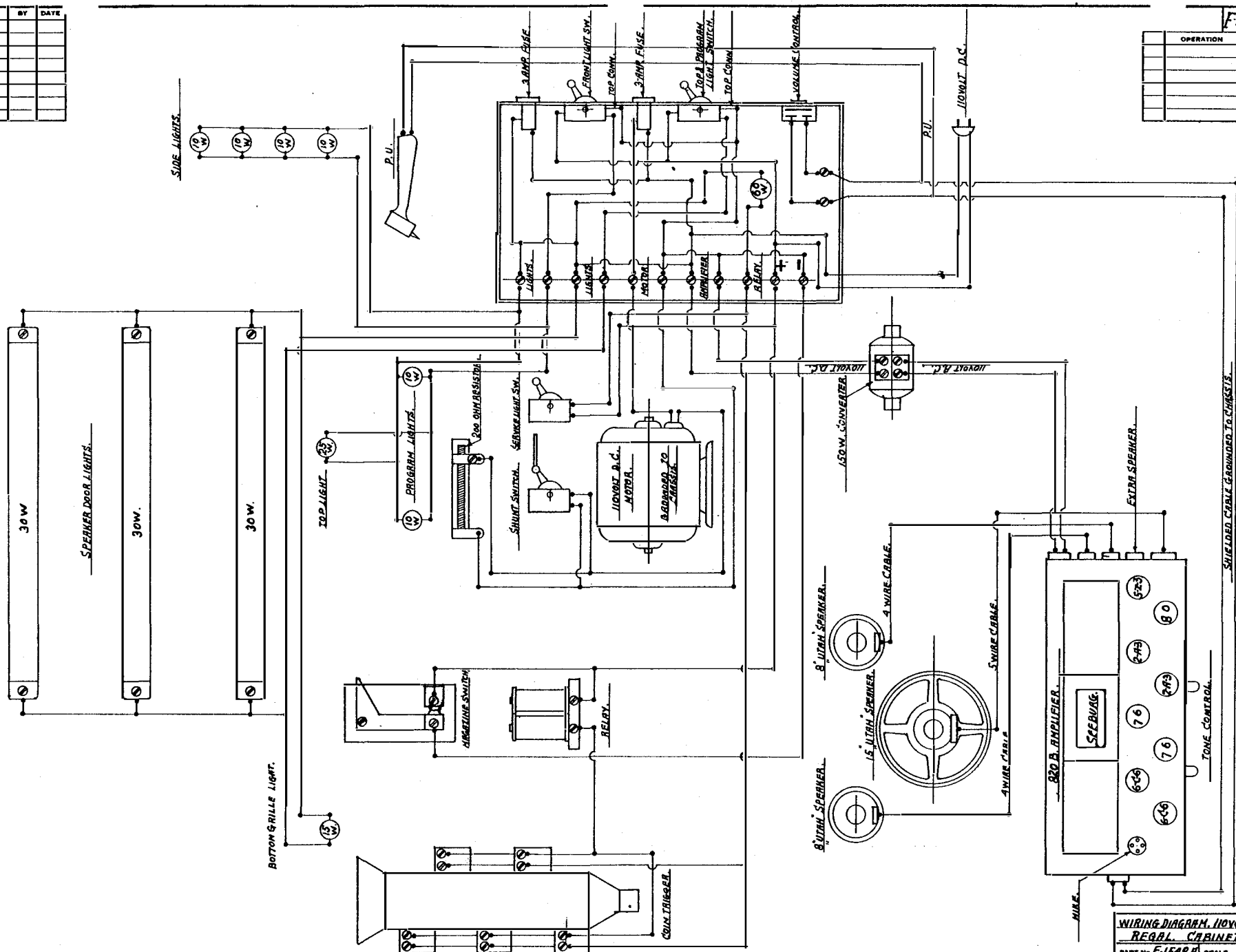
WING DING HAN, SINGAPORE
 NEGAL, CHANG, HONG 604,
 PART NO. F1345H, 10000
 DRAWING E. L.
 CHECK K.T.V. DATE 1-1-38
 J. P. SEEHUNG COMP. CHICAGO, ILL.

OPERATION	
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BY	
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F1345H

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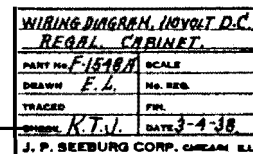
F-15481	
OPERATION	TOOL

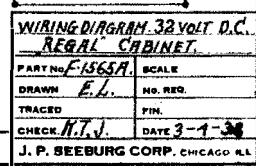


WIRING DIAGRAM, 110VOLT D.C.
REGAL. CABINET.

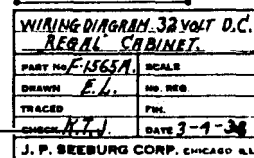
PART NO. <i>F-1598A</i>	SCALE
DRAWN <i>E.L.</i>	NO. REQ.
TRACED	FIN.
CHECK. <i>R.T.V.</i>	DATE <i>3-4-38</i>
J. P. SEEB	ORP. CHICAGO, ILL.

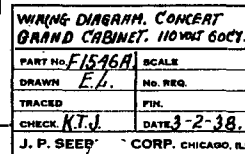
REQD
FOR 100 PCB

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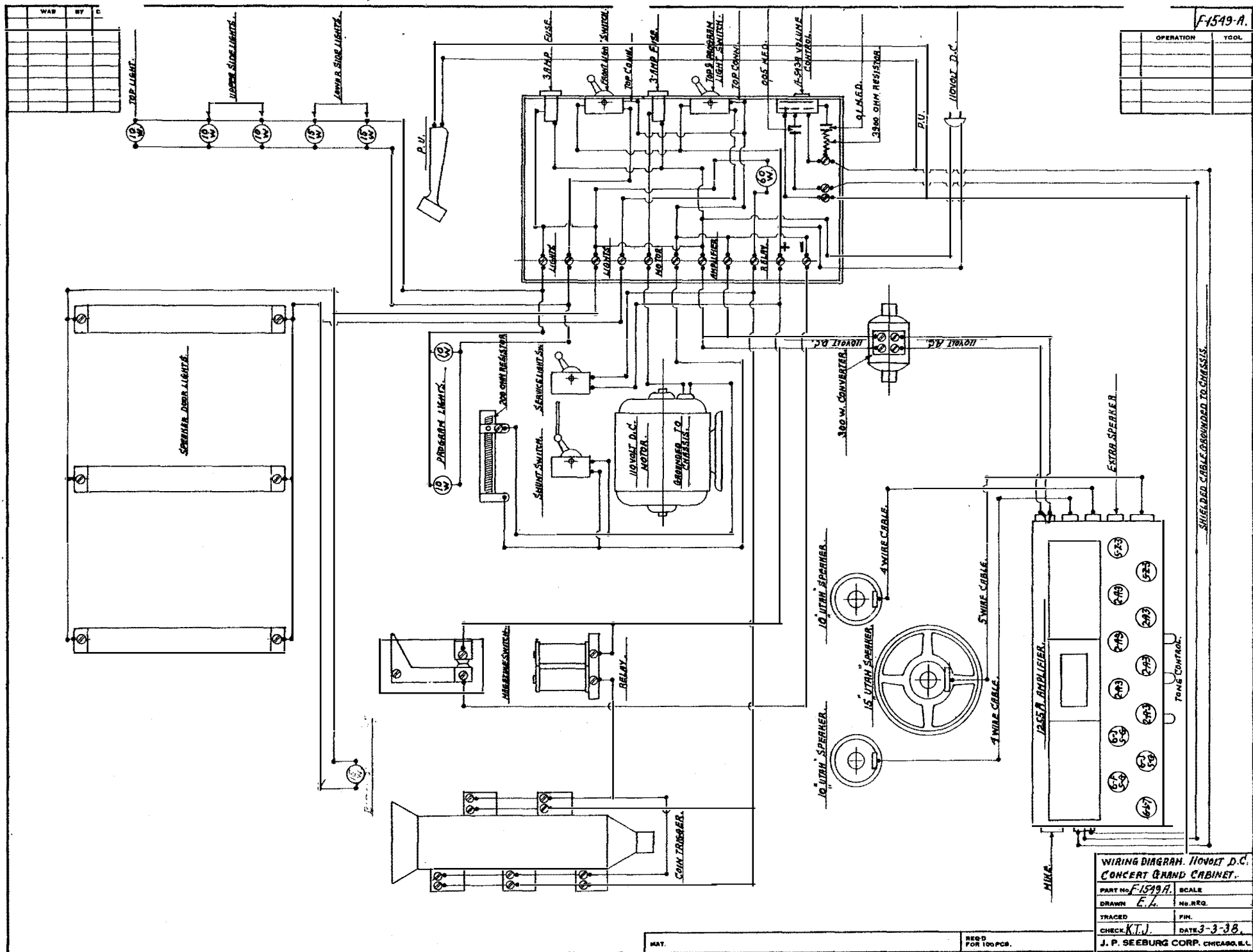
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REQ'D
FOR 100PCS.

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REQ'D
FOR 100 PCS



WIRING DIAGRAM. 110VOLT D.C. CONCERT GRAND CABINET.	
PART NO. <i>F-1549A.</i>	SCALE
DRAWN <i>E.L.</i>	NO. REQ.
TRACED	FIN.
CHECK <i>K.T.V.</i>	DATE <i>3-3-38.</i>
J. P. SEEBURG CORP. CHICAGO, ILL.	

INSTRUCTION BOOK, MECHANISM
CHARTS, WIRING DIAGRAMS AND
AMPLIFIER CIRCUITS COVERING
THE 20-RECORD MODELS: GEM,
REGAL AND CONCERT GRAND
SEEBURG SYMPHONOLAS

1-15-38

SCHEMATIC DIAGRAM 720B AMPLIFIER

PART NUMBER

50024

REVISIONS

2-10-38

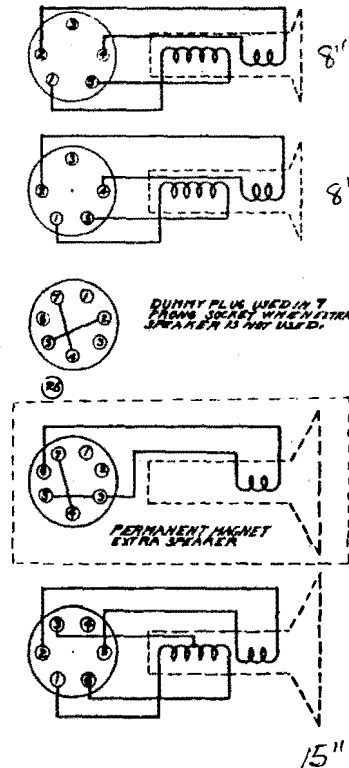
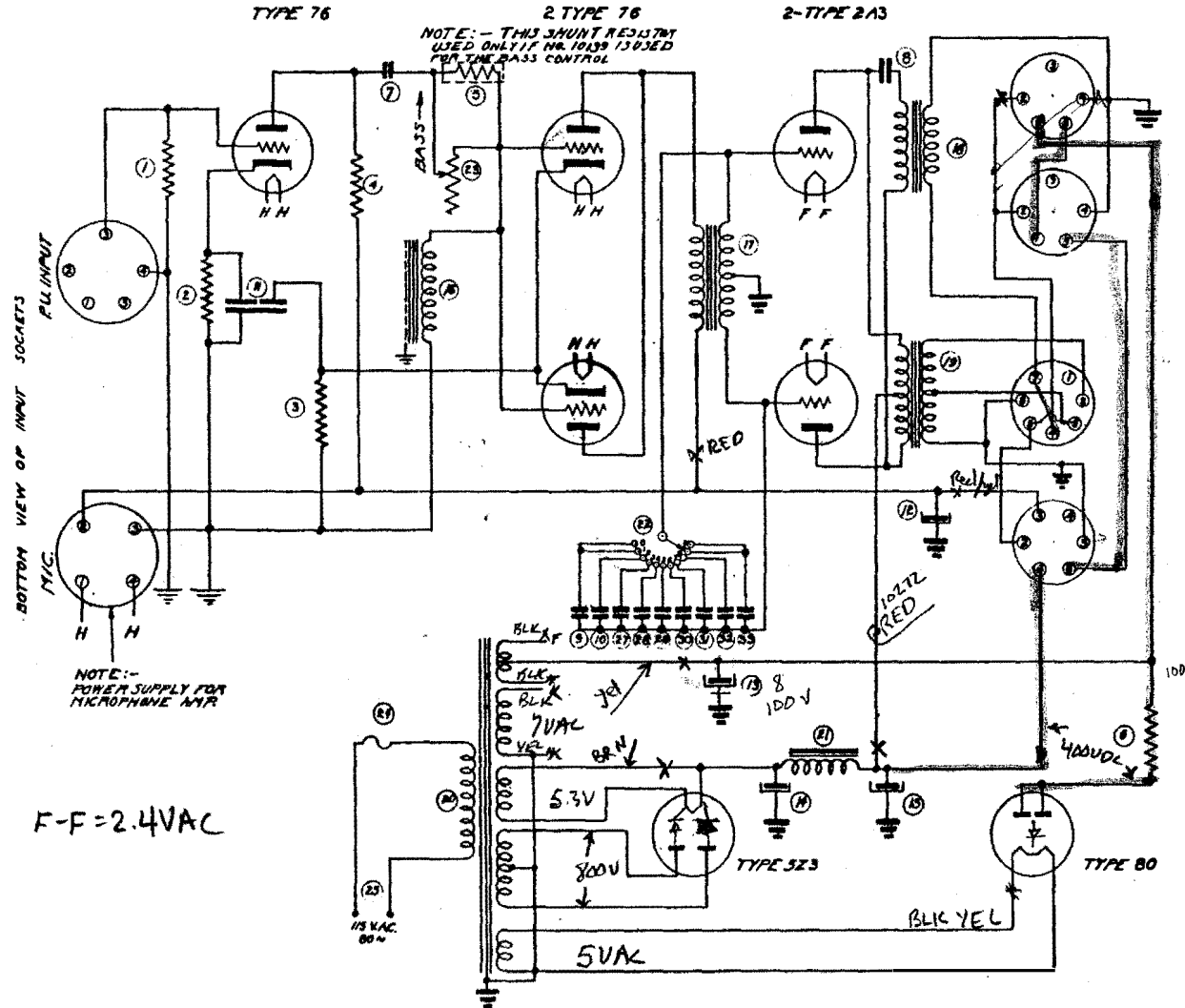
1 72

TYPE 76

2 TYPE 76

2-TYPE 2A3

NOTE: - THIS SHUNT RESISTOR
USED ONLY IF NO. 10139 IS USED
FOR THE BASS CONTROL



ALL SOCKETS AND PLUGS ARE
WELDED FROM BOTTOM

F-F=2.4VAC

FIXED RESISTORS			PAPER CAPACITORS			IRON CORE COILS			MISCELLANEOUS			MICA CAPACITORS		
ITEM	PART	DESCRIPTION	ITEM	PART	DESCRIPTION	ITEM	PART	DESCRIPTION	ITEM	PART	DESCRIPTION	ITEM	PART	DESCRIPTION
1	82478	100 OHMS 1/4 WATT 5% ±	27	82003	.005 MFD 100V 20%	16	10036	POWER TRANS. FILTER CHOKES	22	82006	TAPER CONTROL SWITCH	30	85001	.002 MFD. 20%
2	82478	200 " 1/4 " ±10%	28	86025	.004 100 20%	17	10036	POWER TRANS. INPUT TRANS.	23	14208	BASS CONTROL	31	85001	.0015 " 20%
3	82477	1200 " 1/4 " ±10%	29	85004	.003 100 20%	18	10036	POWER TRANS. 1/2 TRANS. 1/2 TRANS.	24	10033	FUSE PLUG & FUSE	32	85001	.001 " 20%
4	82475	1000V " 1/4 " ±10%				19	10035	POWER TRANS. 1/2 TRANS. 1/2 TRANS.	25	1004	LINE CORD & LUG ASSY	33	85001	.0005 " 20%
5	82901	250V " 1/4 " ±10%												
6	81000	200 " 1/4 " ±10%												
PAPER CAPACITORS			ELECT. CAPACITORS											
7	86005	.015 MFD. 600V 310%	11	87500	DUAL 1/2 MFD 25V DRY									
8	86012	.01 1500V ±20%	12	87501	1/2 MFD 475V WET									
9	86026	.015 100V 20%	13	87501	1/2 MFD 100V DRY									
10	86000	.01 400V 20%	14	87502	1/2 MFD 175V WET									
			15	87502	1/2 MFD 175V WET									

USED ON

SEEBURG RADIO CORP.
CHICAGO, ILL.

DRAWN C.E.R. 12-24-37

CHECKED S.

APPROVED K.W.

SCHEMATIC DIAGRAM 720B AMPLIFIER

PART NUMBER

50024

REVISIONS

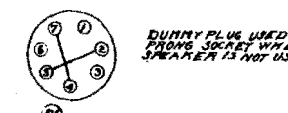
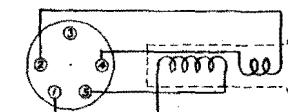
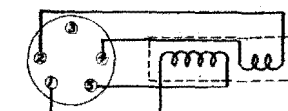
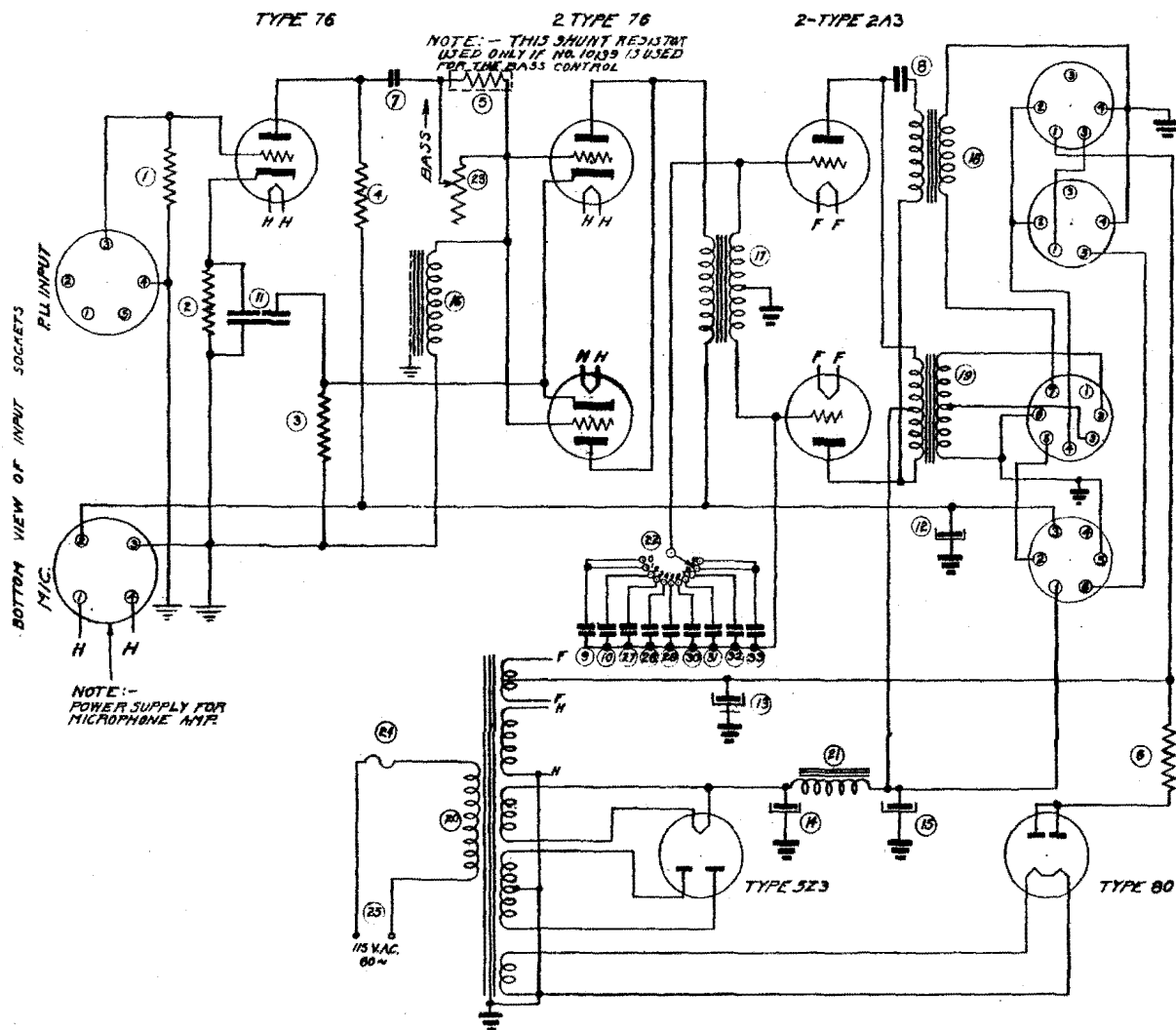
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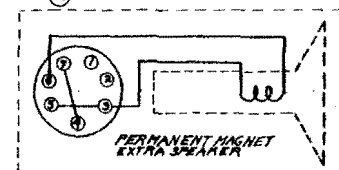
2-10-38

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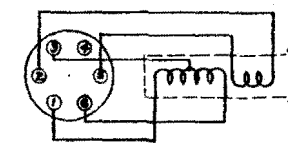
92



DUMMY PLUG USED IN 7
FROM SOCKET WHEN EXTRA
SPEAKER IS NOT USED.



PERMANENT MAGNET
EXTRA SPEAKER



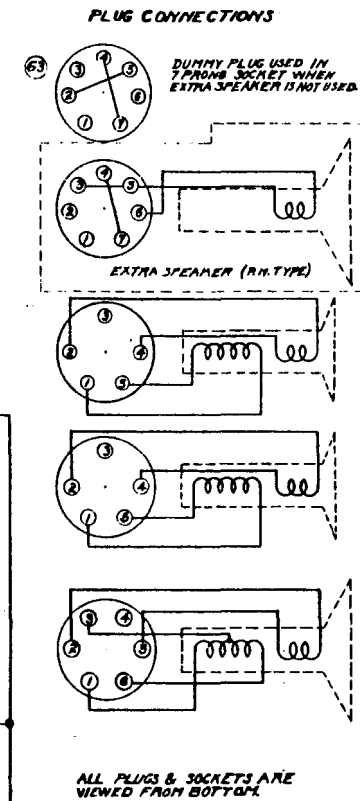
ALL SOCKETS AND PLUGS ARE
WIRED FROM BOTTOM

FIXED RESISTORS				PAPER CAPACITORS				IRON CORE COILS				MISCELLANEOUS				MICA CAPACITORS			
ITEM	PART	DESCRIPTION		ITEM	PART	DESCRIPTION		ITEM	PART	DESCRIPTION		ITEM	PART	DESCRIPTION		ITEM	PART	DESCRIPTION	
1	82479	100 H OHMS 1/2 WATT 5.0%		27	88002	.005 MFD 100V 20%		16	10033	TONE CRANK ASSEMBLY		22	10286	TREBLE CONTROL SWITCH		30	85010	.002 MFD.	20%
2	82479	2700 " 1/2 " 5.0%		28	86025	.004 " 100 20%		17	10034	INPUT TRANS "		23	10288	BASS CONTROL		31	85010	.0015 "	20%
3	82477	1200 " 1/2 " 5.0%		29	86024	.003 " 100 20%		18	10060	TWEETER OPT. TRANS ASSX.		24	10035	FUSE PLUG & FUSE		32	85008	.001 " "	20%
4	82479	100H " 1/2 " 5.0%						19	10035	B.P. TRANS "		25	10041	LINECORD & PLUG ASSX.		33	85008	.0005 " "	20%
5	82501	250H " 1/2 " 5.0%						20	10040	POWER TRANS.									
6	91000	200 " 10 " 5.0%						21	10036	FILTER CHoke									
PAPER CAPACITORS				ELECT. CAPACITORS															
7	86005	.015 MFD. 600V ±10%		11	87500	DUAL MFD 25K DRY													
8	86012	.01 " 1200V ±20%		12	87001	16 MFD 475 V. WET													
9	86026	.015 " 400V 20%		13	87200	8 MFD 100 V. DRY													
10	86000	.01 " 400V 20%		14	87001	16 MFD 475 V. WET													
				15	87002	8 MFD 175 V. WET													

USED ON

SEEBURG RADIO CORP.
CHICAGO, ILL.DRAWN C.E.R. 12-24-37
CHECKED J.
APPROVED K.W.

PART 1. GER		
50025		
REVISIONS	ISSUE	MEMO
2-10-33	1	92



FIXED RESISTORS					PAPER CONDENSERS					ELECT. CONDENSERS					IRON CORE COILS					MISCELLANEOUS		
ITEM	PART	DESCRIPTION			ITEM	PART	DESCRIPTION			ITEM	PART	DESCRIPTION			ITEM	NUMBER	DESCRIPTION		ITEM	NUMBER	DESCRIPTION	
1	82902	1200 Ω	1/4 W	5%	20	86027	.006 MFD	600V	20%	30	87300	12-12MFD	DUAL 25V	50	10033	TONE CHANG		60	10039	BASS CONTROL		
2	82803	3900 Ω	1/4 W	5%	21	86033	.02	800	10%	31	87301	8	DAY	100 V	51	10034	INPUT TRANS.		61	10035	FUSE PLUG ASSEMBLY	
3	82180	2000 Ω	1/4 W	5%	22	86028	.04	600	10%	32	87301	16	WET	175V	52	10035	OUTPUT TRANS.		62	10041	LINECARD & LUG ASSEMBLY	
4	82476	30 M	1/4 W	10%	23	86026	.015	400	20%	33	87001	8	WET	175V	53	10036	POWER TRANS.		63	10029	DUMMY PLUG ASSEMBLY	
5	82479	10017	1/4 W	10%	24	86020	.01	400	50%	34	87002	8	WET	175V	54	10038	FILTER CHANG		64	10236	TREBLE CONTROL SWITCH	
6	82454	330 M	1/4 W	10%	25	86022	.006	400	20%	35	87001	16	WET	175V	MICA CONDENSERS							
7	82478	30 M	1/4 W	10%	26	86025	.004	400	20%	36	87503	4	DAY	350 WKK								
8	82479	100 M	1/4 W	10%	27	86024	.003	400	20%						40	85011	.002	20%				
9	82242	33 M	1/4 W	10%	FIXED RESISTORS (CONT)										41	85010	.0015	20%				
10	82477	1200 Ω	1/4 W	10%											42	85008	.001	20%				
11	81000	200 Ω	WW		12	82016	4700 Ω	1/4 W	20%						43	85008	.0005	20%				

SEEBURG RADIO CORP.
CHICAGO, U.S.A.

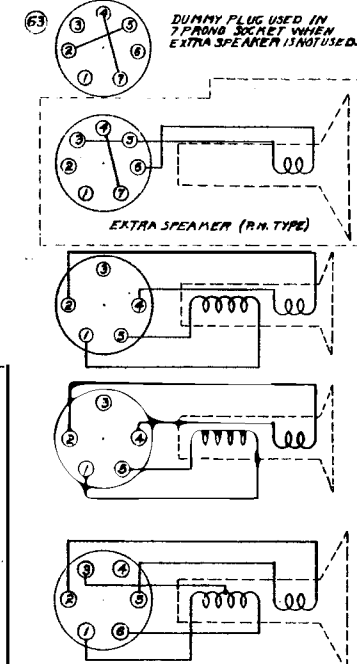
DAWN C.E.A. 1-11-38
CHECKED &
APPROVED KIDK

PART NAME
SCHEMATIC DIAGRAM 820B AMPLIFIER

PART NO. 50025

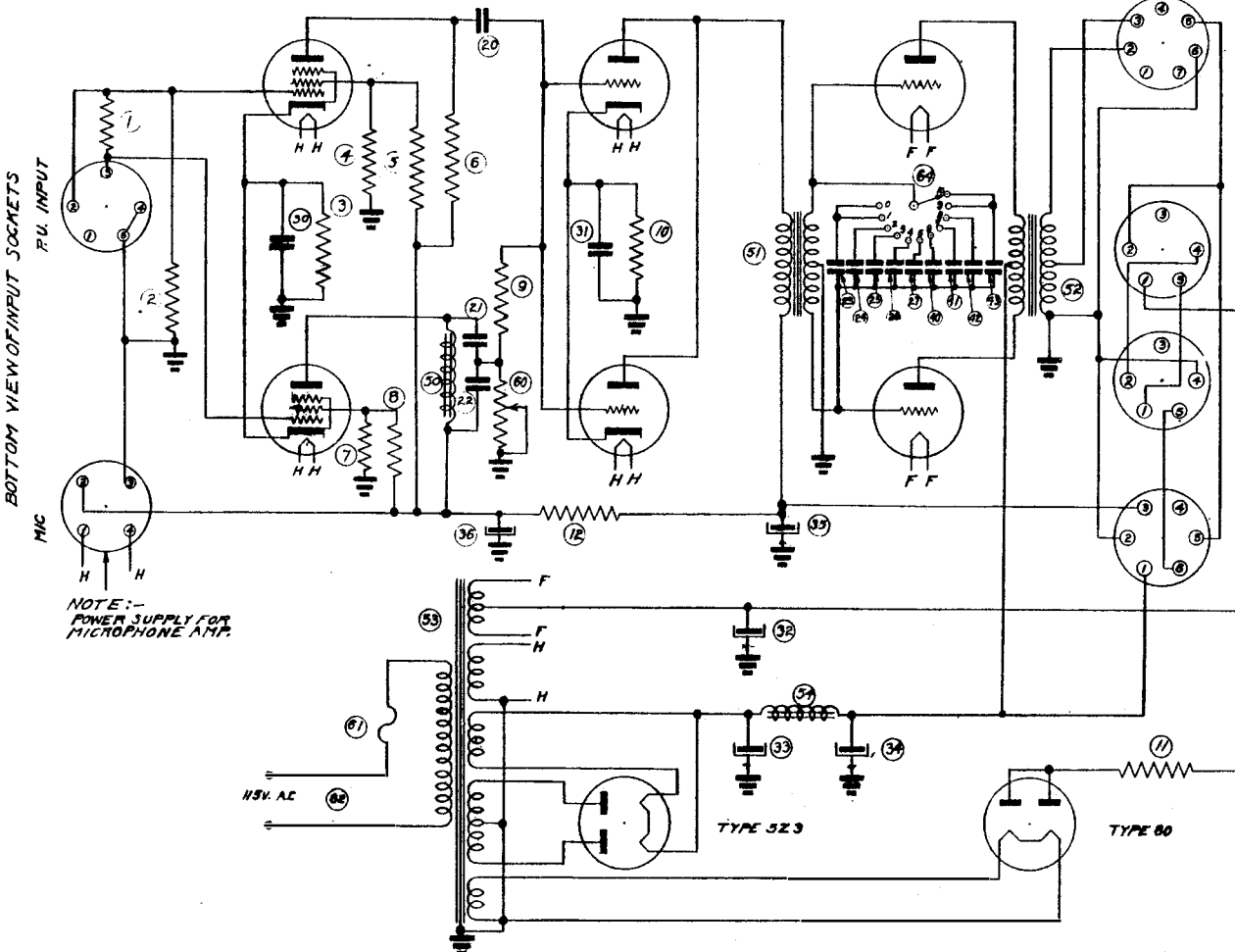
REVISIONS
2-10-33 1 92

PLUG CONNECTIONS



ALL PLUGS & SOCKETS ARE VIEWED FROM BOTTOM.

2-TYPE 6C6 2-TYPE 76 2-TYPE 2A3



FIXED RESISTORS				PAPER CONDENSERS				ELECT. CONDENSERS				IRON CORE COILS				MISCELLANEOUS			
ITEM	PART	DESCRIPTION		ITEM	PART	DESCRIPTION		ITEM	PART	DESCRIPTION		ITEM	NUMBER	DESCRIPTION		ITEM	NUMBER	DESCRIPTION	
1	82902	1200 Ω	1/4 W 5%	20	86027	.006 MFD 600V	20%	30	87500	12-12MFD DRY DUAL 25V		30	10033	TOPE CHOKES		60	10039	BASS CONTROL	
2	82903	3900 Ω	1/4 W 5%	21	86028	.02	600 10%	31	87501	8 DRY 100V		31	10034	INPUT TRANS.		61	10035	FUSE PLUG ASSEMBLY	
3	82480	2000 Ω	1/2 W 10%	22	86029	.04	600 10%	32	87502	8 WET 475V		32	10272	OUTPUT TRANS.		62	10041	LINE AND LUG ASSEMBLY	
4	82476	30M	1/2 W 10%	23	86030	.05	400 20%	33	87001	8 WET 475V		33	10287	POWER TRANS.		63	10029	DUMMY PLUG ASSEMBLY	
5	82479	100M	1/2 W 10%	24	86031	.01	400 20%	34	87002	8 WET 475V		34	10036	FILTER CHOKES		64	10236	TREBLE CONTROL SWITCH	
6	82454	330M	1/2 W 10%	25	86032	.006	400 20%	35	87001	8 WET 475V		MICA CONDENSERS							
7	82478	30M	1/2 W 10%	26	86033	.004	400 20%	36	87503	4 DRY 350 MK		40	85011	.002	20%				
8	82479	100M	1/2 W 10%	27	86034	.003	400 20%					41	85010	.0015	20%				
9	82242	33M	1/2 W 10%	FIXED RESISTORS (CONT)								42	85009	.001	20%				
10	82477	1200 Ω	1/2 W 10%	12	86035	4700 Ω	1/2 W 20%					43	85008	.0005	20%				
11	81000	200 Ω	1/2 W 10%																

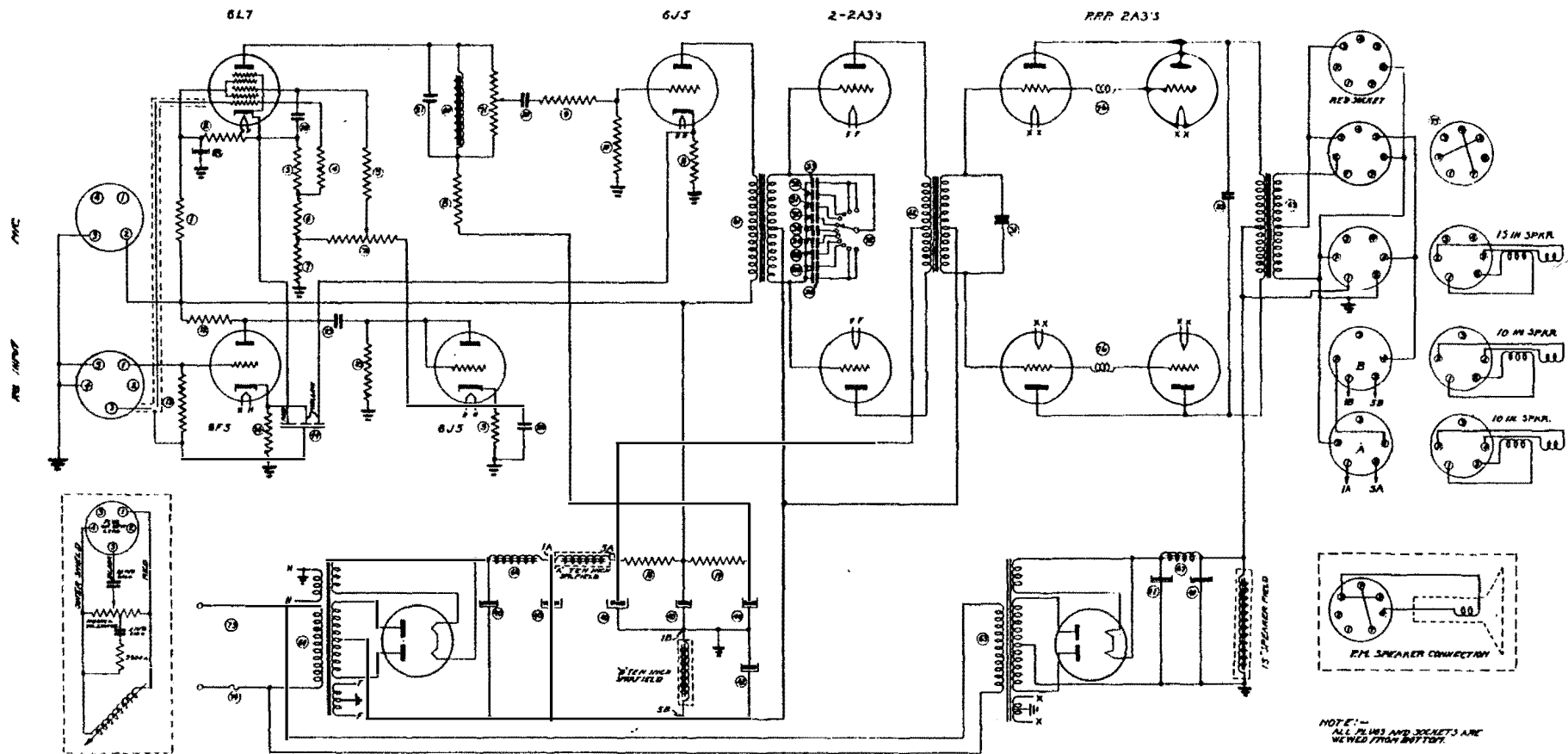
SEEBURG RADICORP
CHICAGO, U.S.A.
DRAWN C.E.R. 1-11-38
CHECKED
APPROVED

SCHEMATIC DIAGRAM 1255A AMPLIFIER

80059

REVISIONS
2-9-38

ITEM
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FIXED RESISTORS				PAPER CONDENSERS				ELECTROLYTIC CONDENSERS				IRON CORE COILS				MISCELLANEOUS			
ITEM	PART	DESCRIPTION	ITEM	PART	DESCRIPTION	ITEM	PART	DESCRIPTION	ITEM	PART	DESCRIPTION	ITEM	PART	DESCRIPTION	ITEM	PART	DESCRIPTION		
1	8205	5000 OHMS	20	86908	.10 MFD	40	8700	15 MFD 450 V WET	60	8837	700 OHMS	70	1031	1000 OHMS	10	1031	1000 OHMS		
2	8204	11000	21	86930	.05	41	8700	15 MFD 425 V WET	61	8837	700 OHMS	11	1032	1000 OHMS	11	1032	1000 OHMS		
3	8217	300	22	86908	.02	42	8700	40 MFD 150 V WET	62	8837	700 OHMS	12	1033	1000 OHMS	12	1033	1000 OHMS		
4	8213	1700	23	86904	.008	43	8700	5 MFD 300 V WET	63	8837	700 OHMS	13	1034	1000 OHMS	13	1034	1000 OHMS		
5	8214	1700	24	86908	.10	44	8700	25 MFD 150 V WET	64	8837	700 OHMS	14	1035	1000 OHMS	14	1035	1000 OHMS		
6	8215	100	25	86911	.02	45	8700	15 MFD 425 V WET	65	8837	700 OHMS	15	1036	1000 OHMS	15	1036	1000 OHMS		
7	8217	370	26	86916	.01	46	8700	15 MFD 425 V WET	66	8837	700 OHMS	16	1037	1000 OHMS	16	1037	1000 OHMS		
8	8218	1500	27	86908	.01	47	8700	15 MFD 425 V WET	67	8837	700 OHMS	17	1038	1000 OHMS	17	1038	1000 OHMS		
9	8215	100	28	86911	.02	48	8700	15 MFD 425 V WET											
10	8213	1300	29	86916	.01	49	8700	15 MFD 425 V WET											
11	8215	100	30	86911	.02	50	8700	15 MFD 425 V WET											
12	8213	1300	31	86916	.01	51	8700	15 MFD 425 V WET											
13	8215	100				52	8700	15 MFD 425 V WET											
14	8213	1300				53	8700	15 MFD 425 V WET											
15	8215	100																	
16	8213	1300																	
17	8215	100																	

SEE DRAWING FOR COILS

DRAWN BY: J. H. B. - 10-5-58

CHECKED BY: J. H. B. - 10-5-58

APPROVED BY: J. H. B. - 10-5-58

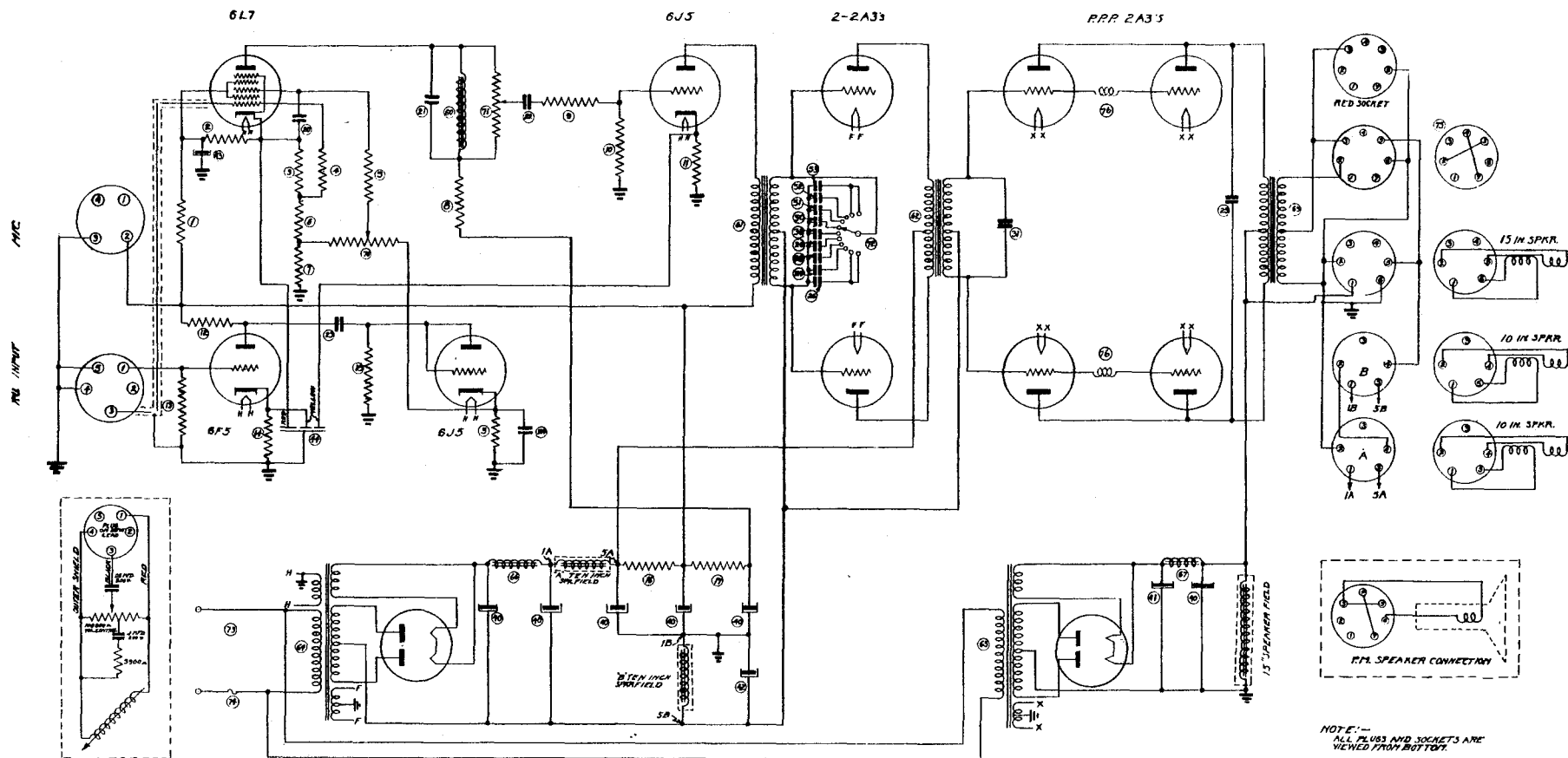
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PART NAME
SCHEMATIC DIAGRAM 1255A AMPLIFIER

60059

REVISIONS	DATE	MEMO
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2-9-38	1	92
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NOTE:-
ALL PLUGS AND SOCKETS ARE
VIEWED FROM BOTTOM.

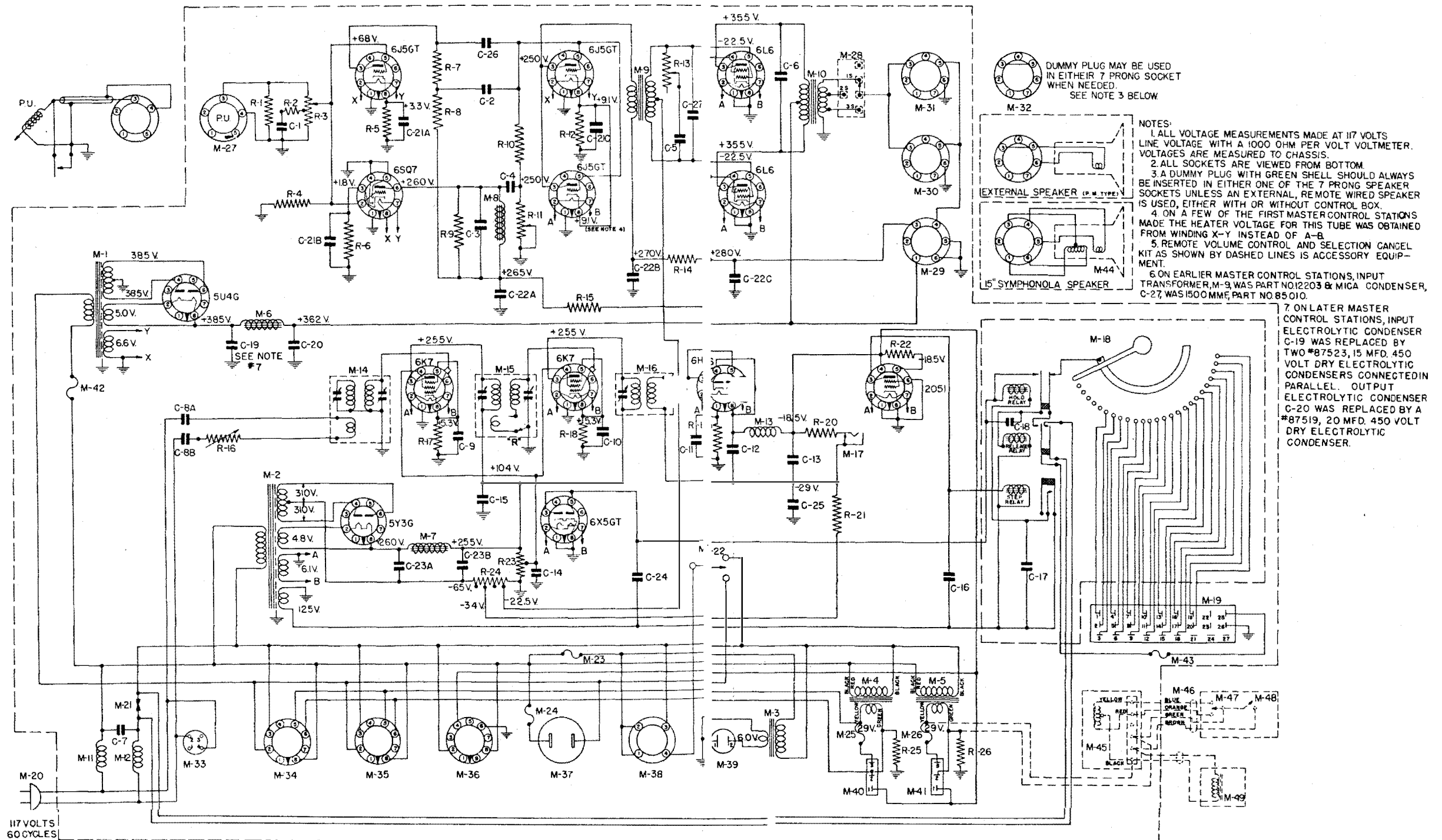
FIXED RESISTORS			PAPER CONDENSERS			ELECTROLYTIC CONDENSERS			IRON CORE COILS			MISCELLANEOUS			
ITEM	PART	DESCRIPTION	ITEM	PART	DESCRIPTION	ITEM	PART	DESCRIPTION	ITEM	PART	DESCRIPTION	ITEM	PART	DESCRIPTION	
1	82005	3000 OHMS	2	W	10%	1	86008	.10 MFD 240 V	20 %	40	87001	16 MFD 45 V WZT	80	10332	1770 VOLU EX CONTROL
2	86004	11000	2	W	10%	2	86009	.005 400 V	10 %	41	87002	16 MFD 45 V WET	61	10333	1770 BASS CONTROL
3	82274	300	W	10 %	2.2	86010	.002 600 V	20 %	42	87003	25 MFD 200 V WET	62	10334	1770 EQ CONTROL SWCH	
4	82236	4700	W	10 %	2.3	86011	.002 600 V	20 %	43	87004	8 MFD 300 V WET	63	10335	LINE COND ASSEMBLY	
5	82237	100	W	10 %	2.4	86012	.001 600 V	20 %	44	87005	25 MFD 200 V WET	64	10336	FUSE ASSEMBLY	
6	82217	180	W	10 %	2.5	86013	.001 600 V	20 %				65	10337	SWITCH RELAY ASSEMBLY	
7	82217	370	W	10 %	2.6	86014	.013 400 V	20 %				66	10338	GRID CHGR	
8	82238	15000	W	10 %	2.7	86015	.005 400 V	20 %				67	10339		
9	82251	18000	W	10 %	2.8	86016	.006 400 V	20 %	MICA CONDENSERS						
10	82239	3900	W	10 %	2.9	86017	.005 400 V	20 %	30	85011	.002 MFD				
11	82226	6800	W	10 %	3.0	86018	.003 400 V	20 %	31	85010	.0015				
12	82293	560	W	10 %	3.1	86031	.02 400 V	20 %	44	85009	.001				
13	82235	6800	W	10 %					53	85008	.0005				
14	82224	1000	W	10 %											
15	82232	2200	W	10 %											
16	82005	2200	W	10 %											
17	82436	10000	W	10 %											

SEE BOMBARDIER COMPANY

DRAWN BY: C.E.R. R-Y-34

CHECKED BY: J.W.A.

FIG. 5 - SCHEMATIC DIAGRAM O TYPE CS25-1 MASTER CONTROL STATION



117 VOLTS 60 CYCLES

NOTES:

1. ALL VOLTAGE MEASUREMENTS ARE TO BE MADE ON THE LINE VOLTAGE WITH A 10% TOLERANCE.
2. ALL VOLTAGES ARE MEASURED WITH THE VOLTAGE MEASURING INSTRUMENTS.
3. A DUMMY PLUG WITH 7 PRONGS MUST BE USED IN EITHER OF THE SOCKETS UNLESS AN EXTERNAL SPEAKER IS USED, EITHER WITH OR WITHOUT THE DUMMY PLUG.
4. ON A FEW OF THE TUBES, THE HEATER VOLTAGE IS INDICATED BY X-Y. INSTEAD OF THE HEATER VOLTAGE, THE REMOTE VOLUME CONTROL KIT AS SHOWN BY DASHED LINES.
5. ON LATER MASTER KIT, ELECTROLYTIC CONDENSERS ARE USED.

DUMMY PLUG MAY BE USED IN EITHER 7 PRONG SOCKET WHEN NEEDED. SEE NOTE 3 BELOW.

EXTERNAL SPEAKER (P. N. TYPE) M-32

15" SYMPHONOLA SPEAKER M-44

M-18

M-19

M-45

M-46


M-47

M-48

M-49

NOTES:

1. ALL VOLTAGE MEASUREMENTS MADE AT 117 VOLTS LINE VOLTAGE WITH A 1000 OHM PER VOLT VOLTMETER. VOLTAGES ARE MEASURED TO CHASSIS.
2. ALL SOCKETS ARE VIEWED FROM BOTTOM.
3. A DUMMY PLUG WITH GREEN SHELL SHOULD ALWAYS BE INSERTED IN EITHER ONE OF THE 7 PRONG SPEAKER SOCKETS UNLESS AN EXTERNAL, REMOTE WIRED SPEAKER IS USED, EITHER WITH OR WITHOUT CONTROL BOX.
4. ON A FEW OF THE FIRST MASTER CONTROL STATIONS MADE, THE HEATER VOLTAGE FOR THIS TUBE WAS OBTAINED FROM WINDING X-Y INSTEAD OF A-B.
5. REMOTE VOLUME CONTROL AND SELECTION CANCEL KIT AS SHOWN BY DASHED LINES IS ACCESSORY EQUIPMENT.
6. ON LATER MASTER CONTROL STATIONS, INPUT ELECTROLYTIC CONDENSER C-19, WAS REPLACED BY TWO *87523, 15 MFD. 450 VOLT DRY ELECTROLYTIC CONDENSERS CONNECTED IN PARALLEL. OUTPUT ELECTROLYTIC CONDENSER C-20 WAS REPLACED BY A *87519, 20 MFD. 450 VOLT DRY ELECTROLYTIC CONDENSER.



117 VOLTS
60 CYCLES

FIG. 5 - SCHEMATIC DIAGRAM OF TYPE MCS25-1 MASTER CONTROL STATION

ITEM	PART NO.	DESCRIPTION	PRICE
RESISTORS			
R1	82433	- 5,600 Ohms 1/2 Watt 10% . . . . .	.07
R2	82482	- 500 Ohms 1/2 Watt 10% . . . . .	.07
R3	F-3076	- 16,000 Ohms Volume Control . . . . .	.75
R4	82448	- 100,000 Ohms 1/2 Watt 10% . . . . .	.07
R5	82433	- 5,600 Ohms 1/2 Watt 10% . . . . .	.07
R6	82428	- 2,200 Ohms 1/2 Watt 10% . . . . .	.07
R7	82443	- 39,000 Ohms 1/2 Watt 10% . . . . .	.07
R8	82452	- 220,000 Ohms 1/2 Watt 10% . . . . .	.07
R9	82448	- 100,000 Ohms 1/2 Watt 10% . . . . .	.07
R10	82443	- 39,000 Ohms 1/2 Watt 10% . . . . .	.07
R11	10039	- 100,000 Ohms Variable Bass Control . . . . .	.75
R12	82423	- 820 Ohms 1/2 Watt 10% . . . . .	.07
R13	10688	- 1 Megohm Variable Treble Control . . . . .	.75
R14	82424	- 1,000 Ohms 1/2 Watt 10% . . . . .	.07
R15	82433	- 5,600 Ohms 1/2 Watt 10% . . . . .	.07
R16	11315	- 40,000 Ohms Variable Sensitivity Control . . . . .	.75
R17	82424	- 1,000 Ohms 1/2 Watt 10% . . . . .	.07
R18	82424	- 1,000 Ohms 1/2 Watt 10% . . . . .	.07
R19	82134	- 4.7 Megohms 1/2 Watt 20% . . . . .	.07
R20	82450	- 150,000 Ohms 1/2 Watt 10% . . . . .	.07
R21	82442	- 33,000 Ohms 1/2 Watt 10% . . . . .	.07
R22	82436	- 10,000 Ohms 1/2 Watt 10% . . . . .	.07
R23	11300	- Candohm 2380-3260 Ohms . . . . .	.40
R24	12200	- Candohm 400-127-88-88-492 Ohms . . . . .	.40
R25	82424	- 1,000 Ohms 1/2 Watt 10% . . . . .	.07
R26	81006	- 1,000 Ohms 5 Watt 10% . . . . .	.25
PAPER CONDENSERS			
C1	86043	- .25 Mfd. 200 Volts . . . . .	.15
C2	86031	- .02 Mfd. 400 Volts . . . . .	.10
C3	86008	- .1 Mfd. 200 Volts . . . . .	.10
C4	86013	- .05 Mfd. 400 Volts . . . . .	.10
C5	86031	- .02 Mfd. 400 Volts . . . . .	.10
C6	86069	- .005 Mfd. 1000 Volts . . . . .	.10
C7	86062	- .5 Mfd. 600 Volts . . . . .	.25
C8A } C8B }	86061	{ -.05 Mfd. 600 Volts -.05 Mfd. 600 Volts . . . . .	.25
C9	86008	- .1 Mfd. 200 Volts . . . . .	.10
C10	86008	- .1 Mfd. 200 Volts . . . . .	.10
C11	86009	- .05 Mfd. 200 Volts . . . . .	.10
C12	86013	- .05 Mfd. 400 Volts . . . . .	.10
C13	86013	- .05 Mfd. 400 Volts . . . . .	.10
C14	86008	- .1 Mfd. 200 Volts . . . . .	.10
C15	86003	- .1 Mfd. 400 Volts . . . . .	.10
C16	11076	- 5 Mfd. 300 Volts	1.25
C17	86015	- .01 Mfd. 600 Volts . . . . .	.10
C18	86015	- .01 Mfd. 600 Volts . . . . .	.10
ELECTROLYTIC CONDENSERS			
C19	87542	- 16 Mfd. 475 Volts Wet.	1.00
C20	87541	- 16 Mfd. 475 Volts Wet.	1.00
C21A } C21B } C21C }	87543	{ - 20 Mfd. 25 Volts Dry - 20 Mfd. 25 Volts Dry - 20 Mfd. 25 Volts Dry . . . . .	.40
C22A } C22B } C22C }	87544	{ - 20 Mfd. 300 Volts Dry - 20 Mfd. 300 Volts Dry - 20 Mfd. 300 Volts Dry . . . . .	.40

FIG. 5 - SCHEMATIC DIAGRAM OF TYPE MCS25-1 MASTER CONTROL STATION - Continued

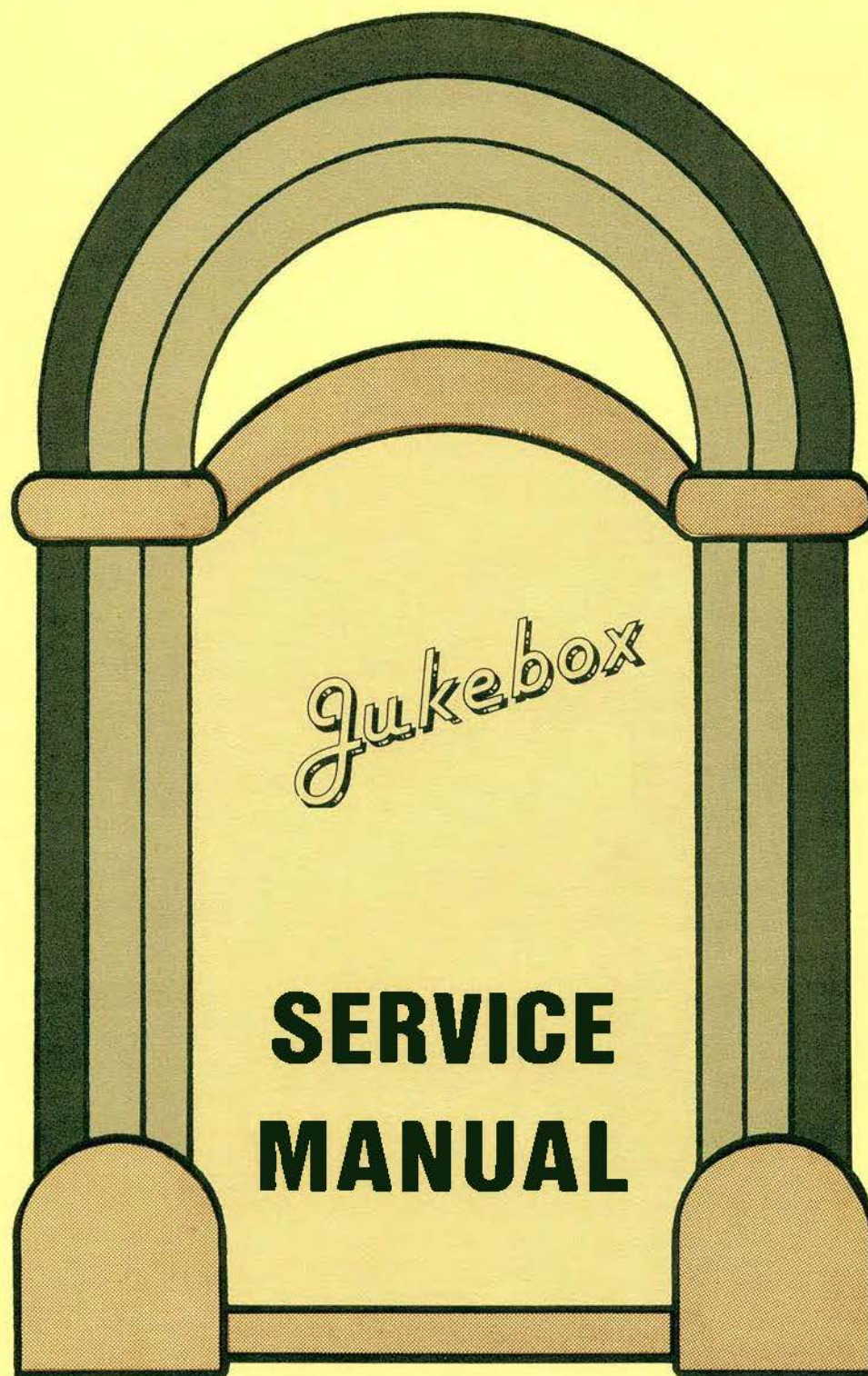
ITEM	PART NO.	DESCRIPTION	PRICE
C23A }	87517	- 20 Mfd. 450 Volts Dry.	\$.65
C23B }		- 20 Mfd. 450 Volts Dry.	
C24	87523	- 15 Mfd. 450 Volts Dry. . . . .	.45
C25	87521	- 10 Mfd. 50 Volts Dry. . . . .	.25
MICA CONDENSERS			
C26	85016	- .002 Mfd. 2000 Mmf. 10%. . . . .	.20
C27	85022	- .0025 Mfd. 2500 Mmf. 10%. . . . .	.20
MISCELLANEOUS			
M1	12204	- Power Transformer.	4.50
M2	12202	- Power Transformer.	3.50
M3	12213	- 6 Volt Transformer.	2.50
M4	12211	- 25 Volt Transformer.	2.85
M5	12211	- 25 Volt Transformer.	2.85
M6	12223	- Filter Choke	1.50
M7	11306	- Filter Choke	1.25
M8	12065	- Bass Choke Assembly.	1.25
M9	12226	- Input Transformer.	1.75
M10	12058	- Output Transformer	2.25
M11	10841	- R.F. Choke . . . . .	.35
M12	10841	- R.F. Choke . . . . .	.35
M13	10843	- R.F. Choke . . . . .	.25
M14	30191	- 1st (Input) R.F. Transformer Assembly. . . . .	.75
M15	30192	- 2nd (Interstage) R.F. Transformer Assembly . . . . .	.85
M16	30193	- 3rd (Diode) R.F. Transformer Assembly. . . . .	.75
M17	11188	- Diode Jack . . . . .	.35
M18	50128	- Step Switch Assembly	10.50
M19	12022	- 27 Contact Male Socket	1.00
M20	F-1369	- 16 Ft. Line Cord and Plug. . . . .	.85
M20	12077	- 2 Ft. Line Cord and Plug . . . . .	.25
M21	F-1349	- Main Switch. . . . .	.35
M22	12031	- Light Switch . . . . .	.45
M23	F-7846	- 2-1/2 Amp. Light Fuse. . . . .	.10
M24	14173	- 2.5 Amp. Non-tamperable Motor Fuse . . . . .	.25
M25	14173	- 2.5 Amp. Non-tamperable Fuse . . . . .	.25
M26	14173	- 2.5 Amp. Non-tamperable Fuse . . . . .	.25
M27	84203	- Pickup Socket. . . . .	.10
M28	12216	- Speaker Matching Panel . . . . .	.20
M29	84201	- Socket for Symphonola Speaker. . . . .	.10
M30	84200	- Socket for Wired Remote Speaker. . . . .	.15
M31	84200	- Socket for Wired Remote Speaker. . . . .	.15
M32	11367	- Dummy Plug (Green Shell) . . . . .	.25
M33	12032	- Socket for Transmitter Output. . . . .	.15
M34	84248	- Socket for Power to Transmitter. . . . .	.10
M35	84248	- Socket for Power to Solenoid Drum. . . . .	.10
M36	84244	- Socket for Power to Remote Control Equipment . . . . .	.10
M37	11401	- Motor Receptacle . . . . .	.20
M38	84222	- Socket for Lighting Transformer. . . . .	.10
M39	F-8897	- Socket for Electrical Selector Lights. . . . .	.15
M40	12006	- Socket for 6 DeLuxe Select-O-Matics. . . . .	.15
M41	12006	- Socket for 6 DeLuxe Select-O-Matics. . . . .	.15
M42	F-7846	- 2-1/2 Amp. Amplifier Fuse. . . . .	.10
M43	12224	- 1/2 Amp. Solenoid Fuse . . . . .	.15
M44	F-9824	- 15" Symphonola Speaker	16.50
M45	12108	- Remote Volume Control Motor.	4.50
M46	14215	- Remote Volume Control Cable. per ft.	.06
M47	12106	- Remote Volume Control Switch	1.25
M48	12105	- Remote Selection Cancel Switch . . . . .	.50
M49	14121	- Remote Selection Cancel Relay.	1.40

FIG. 6 - SCHEMATIC DIAGRAM OF TYPE MCS25-5 MASTER CONTROL STATION

ITEM	PART NO.	DESCRIPTION	PRICE
RESISTORS			
R1	82433	- 5,600 Ohms 1/2 Watt 10%	\$.07
R2	82482	- 500 Ohms 1/2 Watt 10% . . . . .	.07
R3	F-3076	- 16,000 Ohm Volume Control . . . . .	.75
R4	82613	- 24,000 Ohms 1/2 Watt 5% . . . . .	.10
R5	82606	- 75,000 Ohms 1/2 Watt 5% . . . . .	.10
R6	82433	- 5,600 Ohms 1/2 Watt 10% . . . . .	.07
R7	82428	- 2,200 Ohms 1/2 Watt 10% . . . . .	.07
R8	82443	- 39,000 Ohms 1/2 Watt 10% . . . . .	.07
R9	82443	- 39,000 Ohms 1/2 Watt 10% . . . . .	.07
R10	82443	- 39,000 Ohms 1/2 Watt 10% . . . . .	.07
R11	10039	- 100,000 Ohms Variable Bass Control . . . . .	.75
R12	82423	- 820 Ohms 1/2 Watt 10% . . . . .	.07
R13	10688	- 1 Megohm Variable Treble Control . . . . .	.75
R14	82424	- 1000 Ohms 1/2 Watt 10% . . . . .	.07
R15	82433	- 5,600 Ohms 1/2 Watt 10% . . . . .	.07
R16	81039	- 20 Ohms 5 Watts 10% Wire Wound . . . . .	.20
R17	81041	- 11,000 Ohms 10 Watts 10% Wire Wound . . . . .	.25
R18	81040	- 2,000 Ohms 10 Watts 10% Wire Wound . . . . .	.25
R19	11315	- 40,000 Ohms Variable Sensitivity Control . . . . .	.75
R20	82424	- 1,000 Ohms 1/2 Watt 10% . . . . .	.07
R21	82424	- 1,000 Ohms 1/2 Watt 10% . . . . .	.07
R22	82134	- 4.7 Megohms 1/2 Watt 10% . . . . .	.07
R23	82450	- 150,000 Ohms 1/2 Watt 10% . . . . .	.07
R24	82442	- 33,000 Ohms 1/2 Watt 10% . . . . .	.07
R25	82536	- 10,000 Ohms 1/2 Watt 10% . . . . .	.07
R26	11300	- Candohm 2380-3260 Ohms . . . . .	.40
R27	12200	- Candohm 400-127-88-88-492 Ohms . . . . .	.40
R28	82424	- 1,000 Ohms 1/2 Watt 10% . . . . .	.07
R29	81006	- 1,000 Ohms 5 Watts 10% . . . . .	.25
PAPER CONDENSERS			
C1	86043	- .25 Mfd. 200 Volts . . . . .	.15
C2	86031	- .02 Mfd. 400 Volts . . . . .	.10
C3	86008	- .1 Mfd. 200 Volts . . . . .	.10
C4	86013	- .05 Mfd. 400 Volts . . . . .	.10
C5	86031	- .02 Mfd. 400 Volts . . . . .	.10
C6	86070	- .01 Mfd. 1000 Volts . . . . .	.10
C7	86062	- .5 Mfd. 600 Volts . . . . .	.25
C8A } C8B }	86061 }	{ .05 Mfd. 600 Volts05 Mfd. 600 Volts . . . . .	.25
C9	86008	- .1 Mfd. 200 Volts . . . . .	.10
C10	86008	- .1 Mfd. 200 Volts . . . . .	.10
C11	86009	- .05 Mfd. 200 Volts . . . . .	.10
C12	86013	- .05 Mfd. 400 Volts . . . . .	.10
C13	86013	- .05 Mfd. 400 Volts . . . . .	.10
C14	86008	- .1 Mfd. 200 Volts . . . . .	.10
C15	86003	- .1 Mfd. 400 Volts . . . . .	.10
C16	11076	- 5 Mfd. 300 Volts	1.25
C17	86015	- .01 Mfd. 600 Volts . . . . .	.10
C18	86015	- .01 Mfd. 600 Volts . . . . .	.10
ELECTROLYTIC CONDENSERS			
C19	87542	- 16 Mfd. 475 Volts Wet	1.00
C20	87541	- 16 Mfd. 475 Volts Wet	1.00
C21A } C21B } C21C }	87543 }	{ 20 Mfd. 25 Volts Dry 20 Mfd. 25 Volts Dry 20 Mfd. 25 Volts Dry . . . . .	.40
C22A } C22B } C22C }	87544 }	{ 20 Mfd. 300 Volts Dry 20 Mfd. 300 Volts Dry 20 Mfd. 300 Volts Dry . . . . .	.40

FIG. 6 - SCHEMATIC DIAGRAM OF TYPE MCS25-5 MASTER CONTROL STATION - Continued

ITEM	PART NO.	DESCRIPTION	PRICE
C23A } C23B }	87517	{ - 20 Mfd. 450 Volts Dry. }	\$.65
C24	87523	- 15 Mfd. 450 Volts Dry. . . . .	.45
C25	87521	- 10 Mfd. 50 Volts Dry . . . . .	.25
MICA CONDENSERS			
C26	85010	- .0015 Mfd. 1500 Mmf. 10% . . . . .	.20
MISCELLANEOUS			
M1	12204	- Amplifier Power Transformer.	4.50
M2	12202	- Selection Receiver Power Transformer	3.50
M3	12213	- 6 Volt Transformer	2.50
M4	12211	- 25 Volt Transformer.	2.85
M5	12211	- 25 Volt Transformer.	2.85
M6	12223	- Filter Choke	1.50
M7	11306	- Filter Choke	1.25
M8	12065	- Bass Choke Assembly.	1.25
M9	12203	- Input Transformer.	1.75
M10	12217	- Output Transformer	2.25
M11	10841	- R.F. Choke . . . . .	.35
M12	10841	- R.F. Choke . . . . .	.35
M13	10843	- R.F. Choke . . . . .	.25
M14	30191	- 1st (Input) R.F. Transformer Assembly. . . . .	.75
M15	30192	- 2nd (Interstage) R.F. Transformer Assembly . . . . .	.85
M16	30193	- 3rd (Diode) R.F. Transformer Assembly. . . . .	.75
M17	11188	- Diode Jack . . . . .	.35
M18	50128	- Step Switch Assembly	10.50
M19	12022	- 27 Contact Male Socket	1.00
M20	F-1369	- 16 Ft. Line Cord and Plug. . . . .	.85
M20	12077	- 2 Ft. Power Cord and Plug. . . . .	.25
M21	F-1349	- Main Switch. . . . .	.35
M22	12031	- Light Switch . . . . .	.45
M23	F-7846	- 2-1/2 Amp. Light Fuse. . . . .	.10
M24	14173	- 2.5 Amp. Non-tamperable Motor Fuse . . . . .	.25
M25	14173	- 2.5 Amp. Non-tamperable Fuse . . . . .	.25
M26	14173	- 2.5 Amp. Non-tamperable Fuse . . . . .	.25
M27	84203	- Pickup Socket. . . . .	.10
M28	12216	- Speaker Matching Panel . . . . .	.20
M29	84201	- Socket for Symphonola Speaker. . . . .	.10
M30	84200	- Socket for Wired Remote Speaker. . . . .	.15
M31	84200	- Socket for Wired Remote Speaker. . . . .	.15
M32	11367	- Dummy Plug (Green Shell) . . . . .	.25
M33	12032	- Socket for Transmitter Output. . . . .	.15
M34	84248	- Socket for Power to Transmitter. . . . .	.10
M35	84248	- Socket for Power to Solenoid Drum. . . . .	.10
M36	84244	- Socket for Power to Remote Control Equipment . . . . .	.10
M37	11401	- Motor Receptacle . . . . .	.20
M38	84222	- Socket for Lighting Transformer. . . . .	.10
M39	F-8897	- Socket for Electrical Selector Lights. . . . .	.15
M40	12006	- Socket for 6 DeLuxe Select-O-Matics. . . . .	.15
M41	12006	- Socket for 6 DeLuxe Select-O-Matics. . . . .	.15
M42	F-7846	- 2-1/2 Amp. Amplifier Fuse. . . . .	.10
M43	12224	- 1/2 Amp. Solenoid Fuse . . . . .	.15
M44	F-9024	- 15" Symphonola Speaker	11.00
M45	12108	- Remote Volume Control Motor.	4.50
M46	14215	- Remote Volume Control Cable. per ft.	.06
M47	12106	- Remote Volume Control Switch	1.25
M48	12105	- Remote Selection Cancel Switch . . . . .	.50
M49	14121	- Remote Selection Cancel Solenoid	1.40



Jukebox

**SERVICE
MANUAL**

NOTES ON SPEAKERS

- Note 1: Symphonola model listed is representative, not the only model to use the speaker designated.
- Note 2: Speaker field resistance shown as measured between indicated plug prong numbers.
- Note 3: When it is desired to use an amplifier without the instrument speaker, as on remote "hide-away" installation, it must be kept in mind that the speaker fields - both high frequency, when used, and main speaker - are used as bleeder and in some instances as filter chokes. The SB-7 and the 1255 amplifiers are in the latter class. The other amplifiers may be so used by substituting for the field coil sections, wire-wound resistors of the same value as the field coil and of 20 Watt capacity.
- Note 4: Voice coil impedance at 400 cycles. This value is not the same as would be indicated by a DC Ohmmeter.
- Note 5: Where substitutions are indicated, it is assumed that such substitution is to be made only when the correct replacement is not available. In some instances the substitute speaker, while satisfactory, will have field resistance differing from the original speaker. In such cases, the amplifier output may suffer somewhat due to a change in the voltage distribution to the various high-voltage circuits.
- Note 6: Speaker field resistance measured hot (after attaining normal operating temperature).

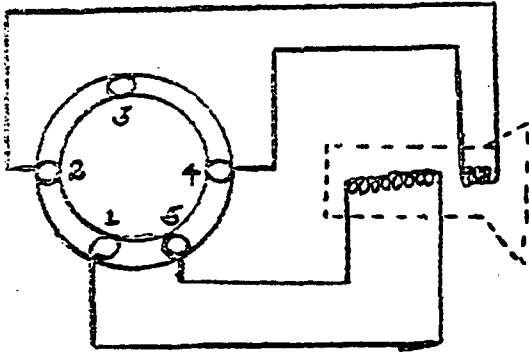
SPEAKERS

Geoburg Number	Mfg's. Number	Mfg'd. By	Size	Instrument (note 1)	Amplifier	Diagrams	Field Coil res. (notes 2,3)	V.C. (4)	Remarks (note 5)
--	6C100	Utah	6	Gem	720	A	1 to 5 - 700	-	Same as Jensen 5857
2017	8C101	"	8	Regal	820	A	1 to 5 - 700	-	
--	10E7	"	10	Concert Grand	1255	A	1 to 5 - 1000	-	Replace with Utah 10E11 Read note 3.
2118	10E11	"	10	Concert Grand	1255	A	1 to 5 - 1000	-	Read note 3.
2018	15H1	"	15	Regal	820	B	1 to 3 - 2000 3 to 6 - 2000	8	Same as F-7018
2117	15H2	"	15	Concert Grand	1255	C	1 to 6 - 5000	8	
--	2356	"	6	Model D	SB-8	B	1 to 5 - 2200	-	
--	3282	Jensen	15	Queen, H. I.	SB-1020	B	1 to 3 - 2250 3 to 6 - 2500	8	Same as Jensen 5060 Substitute F-7018
--	J-5060	"	15	Queen, H. I.	SB-1020	B	--	-	Data same as Jensen 3282
--	5857	"	8	Gem	720	A	1 to 5 - 700	-	Same as Utah 6C100
--	5864	"	16	Gem	720	B	1 to 3 - 2000 3 to 6 - 2000	8	Same as F-7018
1918	6427A	"	12	Model A, B, C	SB-7	D	3 to 4 - 2500	6	
1918	8892	"	12	Model A, B, C	SB-7	D	--	-	Same data as Jensen 6427A
--	12101	Utah	12	Model D	SB-8	I	1 to 4 - 2500	6	With change of plug, 6427A may be substituted
--	12102	"	12	Model F	SB-9-30	I	1 to 4 - 2500	6	
--	83069	"	6	Royal	SB-1120	A	1 to 5 - 1800	-	
--	145004	"	14	Royal	SB-1120	B	1 to 3 - 2000 3 to 6 - 2000	6	
F-6354	--	--	12	--	--	F	--	8	Number used for F-7534 complete with ocrd and plug
F-7018	15H17	Utah	15	Major	625	B	1 to 3 - 2000 3 to 6 - 2000	8	
F-718	8239	Jensen	15	Major	625	B	--	-	Data same as Utah 15H17.
F-7534	12PG9	Utah	12	--	--	F	PM type	8	Used as "top speaker" (part No. F-6354) in 1940 models, Cadet, Colonel, etc. and as PM type wired remote speaker.
F-7534	12PG19	"	12	--	--	F			
F-7534	PH12C	Jensen	12	--	--	F			

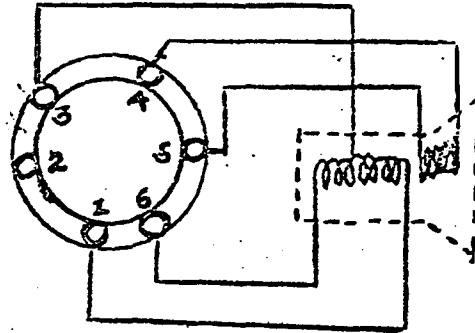
SPEAKERS

Seeburg No.	Mfg's. No.	Mfg'd. by	Size	Instrument	Amplifier	Diagram	Field Coil Res. (notes 2,3)	V.C. (4)	Remarks
F-7734	15H18	Utah	15	Envoy RC	MCS-1Z	B	1 to 3 - 760 3 to 6 - 3240	8	F-9024, having same electrical characteristics but of higher efficiency may be used.
F-7762	15H21	"	15	8800	MCS25-5	B	-	-	Data same as F-9024. Use 9024.
F-7763	15H20	Utah	15	7850	615-3	B	1 to 3 - 2000 3 to 6 - 2000	8	Same as F-7018
F-8024	15H15	"	15	Plaza	725	B	1 to 3 - 2000 3 to 6 - 2000	8	Substitute F-7018
F-9024	15H16E	"	15	Claudio	830	B	1 to 3 - 760 3 to 6 - 3240	8	
F-9824	15M100	"	15	9800	825-5	BB	1 to 3 - 760 3 to 6 - 3240	8	DO NOT use 9024. F-9824 requires higher field current that would overload the F-9024 field.
10894	12PG5	"	12	-	-	F	-	8	FM type. Use F-7534.
11059	12J23	"	12	SO-1Z	NR6-1Z	G	1100 2 - 6950	2	Note 6.
11399	12J37	"	12	SO-3Z	NR6-2Z	H	1 to 2 - 6950	2	Note 6. 16018 is identical except for longer leads.
11399	12J61	"	12	SO-3Z	NR6-2Z	H	1 to 2 - 6950	2	Note 6.
11557	12J68	"	12	SO-16	9SFS-10	A	11 to 5 - 1600	8	16016 is identical except for longer leads
15043	7C514	"	8	-	-	-	450	3.2	Used in HMS-1, connecting without plug.
16018	12J76	"	12	WC-1Z-	NR6-5Z	H	1 to 2 - 6950	2	Note 6. Same as 11399 except longer leads.
16048	12J77	"	12	DSC-1Z	9SFS-15	A	1 to 5 - 1600	8	Same as 11557 except longer leads.
23080	12J47	"	12	-	-	J	4 to 5 - 8300	5.5	Monitor speaker, Type A Central System.
23344	6PE6	"	6	-	-	-	FM Type	3.2	Monitor speaker, Type B Central System

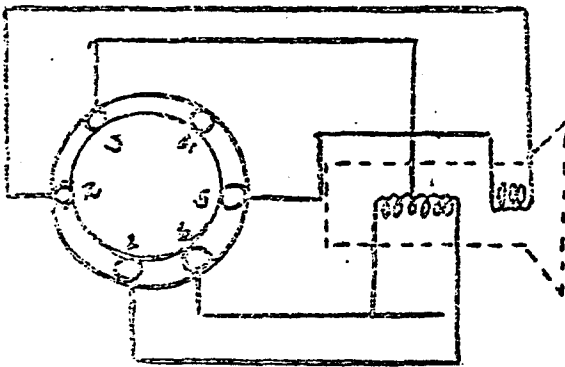
SPEAKER CONNECTIONS



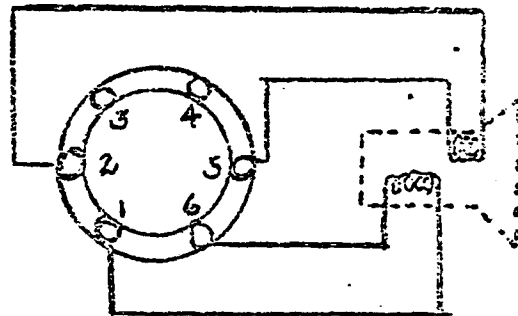
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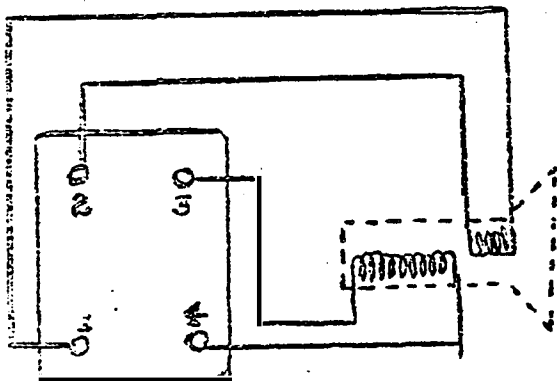
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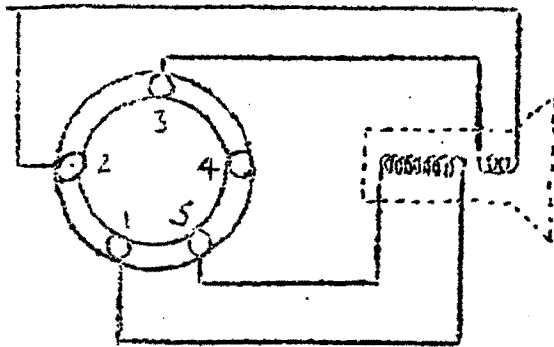


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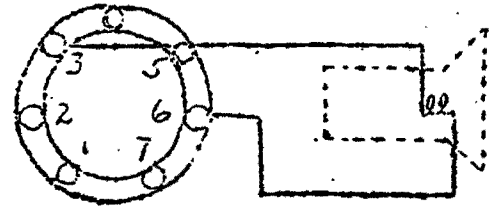


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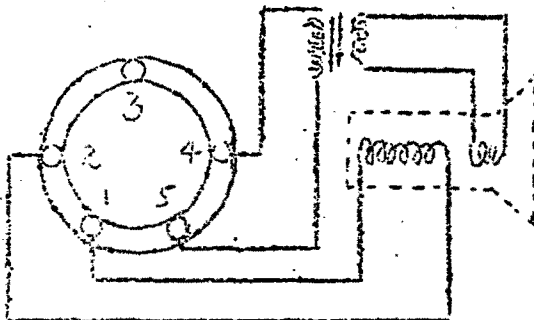
SPRINGER CONNECTIONS



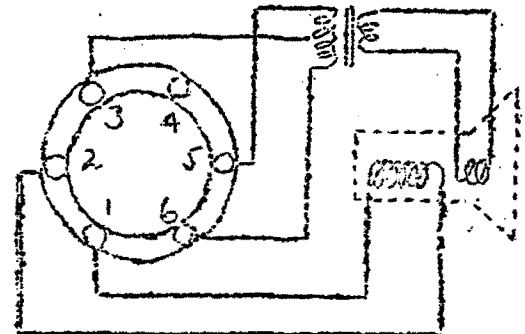
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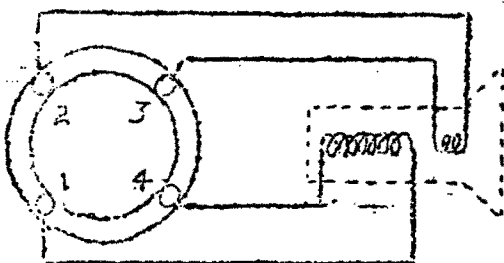
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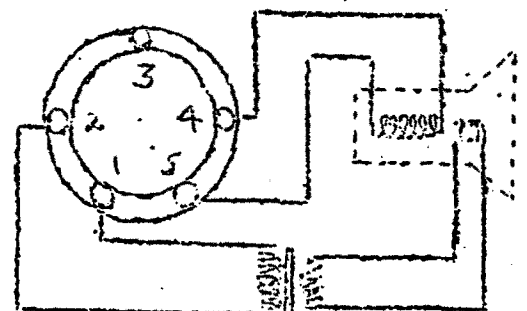
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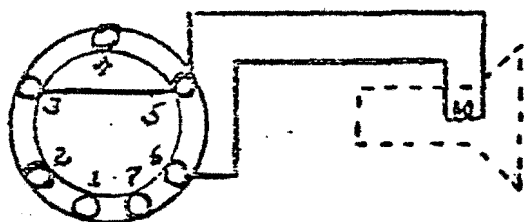


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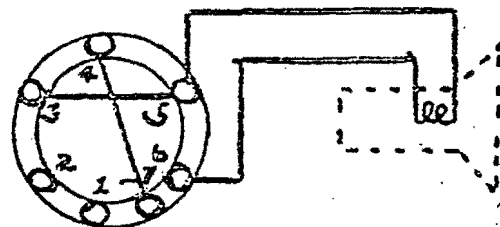


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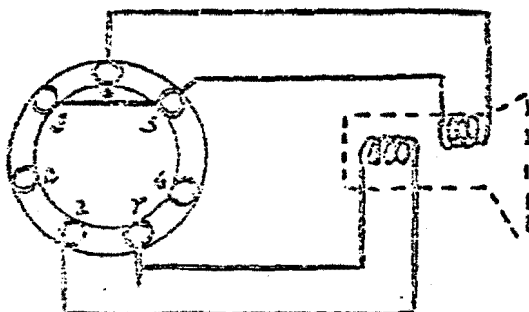
EXTRA SPEAKER PLUG WIRING



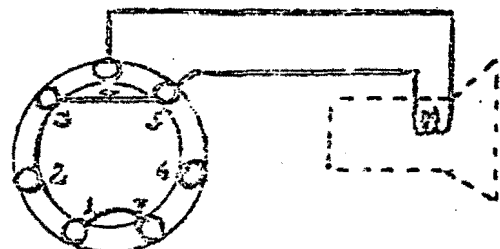
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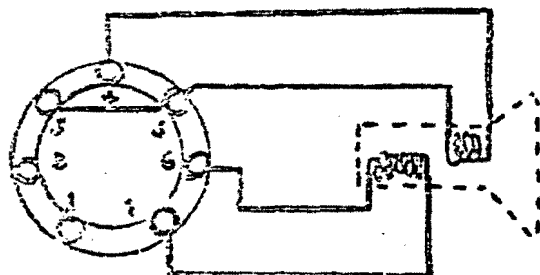
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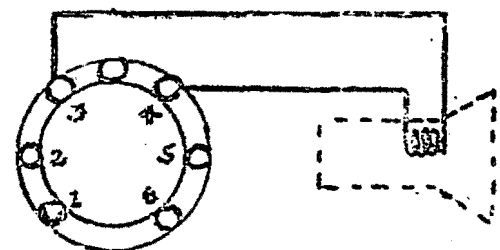
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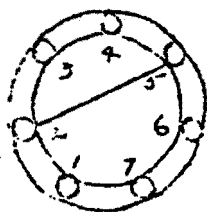


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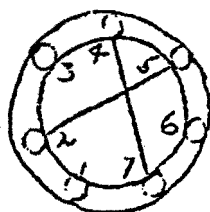


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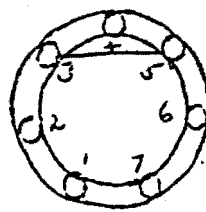
DUMMY PLUG CONNECTIONS



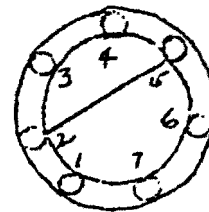
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2



3



4

SERVICE MANUAL

No. 3

SEEBURG REMOTE CONTROL SYSTEMS

1. WALL-O-MATIC WIRELESS REMOTE CONTROL SYSTEM
2. DELUXE SELECT-O-MATIC 3 WIRE REMOTE CONTROL SYSTEM
3. SELECT-O-MATIC WIRED REMOTE CONTROL SYSTEM

as applied to

1941 SEEBURG SYMPHONOLAS

(SEE BACK COVER FOR INDEX)



J. P. SEEBURG CORPORATION

1500 DAYTON STREET

CHICAGO, U. S. A.

DIAGRAMS FOR SEEBURG REMOTE CONTROL SYSTEMS

	PAGE
1941 R.C. SYMPHONOLAS:	
FIG. 1 - Cabinet Wiring Diagram for RC-8800 and RC-9800	2 & 3
FIG. 2 - Cabinet Wiring Diagram for RC-7850	4 & 5
FIG. 3 - Cabinet Wiring Diagram for TRC-1 Special	6
FIG. 4 - Cabinet Wiring Diagram for RC-1 Special.	7
FIG. 5 - Schematic Diagram of Type MCS25-1 Master Control Station . .	8 & 9
FIG. 6 - Schematic Diagram of Type MCS25-5 Master Control Station . .	12 & 13
FIG. 7 - Step Switch and Relay Assembly (#50128).	16
WALL-O-MATIC WIRELESS REMOTE CONTROL SYSTEM:	
FIG. 8 - Schematic Diagram of Type WS-2Z Wall-O-Matic (5¢).	17
FIG. 9 - Schematic Diagram of Type WS-10Z Wall-O-Matic (5¢-10¢-25¢) .	18
FIG. 10 - Schematic Diagram of Type WB-5Z Bar-O-Matic (5¢)	19
FIG. 11 - Schematic Diagram of Type WB-1Z Bar-O-Matic (5¢-10¢-25¢) . .	20
FIG. 12 - Schematic Diagram of Type SR-4 Selection Receiver.	22
FIG. 13 - Block Wiring Diagram of Type SR-4 Selection Receiver in Models 7800, 7850, 8800 and 9800	23
DELUXE SELECT-O-MATIC 3 WIRE REMOTE CONTROL SYSTEM:	
FIG. 14 - Schematic Diagram of Type DS20-1Z DeLuxe Select-O-Matic (5¢)	24
FIG. 15 - Schematic Diagram of Type DS20-10Z DeLuxe Select-O-Matic (5¢-10¢-25¢)	25
FIG. 16 - Schematic Diagram of Type DSB-1Z Bar-O-Matic (5¢-10¢-25¢). .	26
FIG. 17 - Schematic Diagram of Type SS20-1 Step Selector	27
FIG. 18 - Step Switch and Relay Assembly (#50142).	28
FIG. 19 - Schematic Diagram of Type PS6-1Z Power Supply.	29
FIG. 20 - Block Wiring Diagram of Type SS20-1 Step Selector in Models 7800, 7850, 8800 and 9800	30
SELECT-O-MATIC WIRED REMOTE CONTROL SYSTEM:	
FIG. 21 - Schematic Diagram of Type S20-1Z Select-O-Matic.	31
FIG. 22 - Schematic Diagram of Type WA-1Z Wired Adaptor.	32
FIG. 23 - Schematic Diagram of Type PSI2-3Z Power Supply	33
FIG. 24 - Block Wiring Diagram of Type WA-1Z Wired Adaptor in Models 7800, 7850, 8800 and 9800	34
WIRELESS REMOTE SOUND SYSTEM:	
FIG. 25 - Schematic Diagram of Type T-3Z Transmitter	35
FIG. 26 - Block Wiring Diagram of Type T-3Z Transmitter in Models 7800, 7850, 8800 and 9800.	36
FIG. 27 - Block Wiring Diagram of Type T-3Z Transmitter in Models RC-7850, RC-8800, and RC-9800.	37
FIG. 28 - Schematic Diagram of Type RR6-2Z Remote Receiver	38
MISCELLANEOUS:	
FIG. 29 - Block Wiring Diagram of Type C-5Z Remote Selection Cancel Kit in 1941 Symphonolas.	39
Schematic Diagram of Type VC-1Z Remote Volume Control and Selection Cancel Kit in 1941 Master Control Stations	8 & 12

N O T I C E

We reserve the right to make changes and improvements in our products, whenever we deem necessary, without notice and without retroactive action.

Prices in Parts List are per unit unless otherwise specified and are subject to change without notice.

ITEM	PART NO.	DESCRIPTION	NO. REQ.	PRICE
1	F-1369	- 16 Ft. Line Cord	1	\$.85
2	F-7867	- Triple Outlet	1	.15
3	MCS25-5	- Master Control Station (for Model 8800 only)	1	76.50
3	MCS25-1	- Master Control Station (for Model 9800 only)	1	76.50
4	F-9024	- 15" Electrodynamic Speaker (for Model 8800 only)	1	11.00
4	F-9824	- 15" Electrodynamic Speaker (for Model 9800 only)	1	16.50
5	F-6624-A	- Tone Arm Assembly	1	8.00
6	F-6005-A	- Pickup Shorting Switch	1	.15
7	F-7529	- Shielded Input Lead and Plug	1	.65
8	SD20-7Z	- Solenoid Drum Assembly	1	23.00
9	F-7413	- 4 Prong Plug	1	.20
10	11137	- Selection Cancel Switch	1	.25
11	F-3203	- Motor Carryover Switch	1	.35
12	F-8827	- 6 Prong Plug	1	.20
13	F-6001	- Coin Switch	5	.10
14	12020	- 27 Prong Plug	1	1.00
15	12021	- 27 Wire Cable	1	1.50
16	12026	- 27 Prong Female Plug	1	1.00
17	RB-6Z	- Relay Box	1	12.50
18	SA-6Z	- Electrical Selector Switch Assembly	1	15.00
19	F-1090	- Symphonola Motor (110 V. 60 Cycle)	1	17.00
20	F-7813	- Lighting Transformer	1	5.25
21	F-8882	- Cylinder Motor	1	3.50
22	F-7814	- Light Socket	28	.10
23	F-7817	- #81 Mazda Lamps	33	.10
24	F-7810	- Light Socket	7	.10
25	F-7816	- #87 Mazda Lamps	2	.15
26	F-8972	- Service Light Switch	1	.25
27	F-8896	- 2 Prong Polarized Plug	1	.30
28	12015	- 3 Prong Plug	2	.30
29	12001	- 3 Wire Cable per ft.		.06

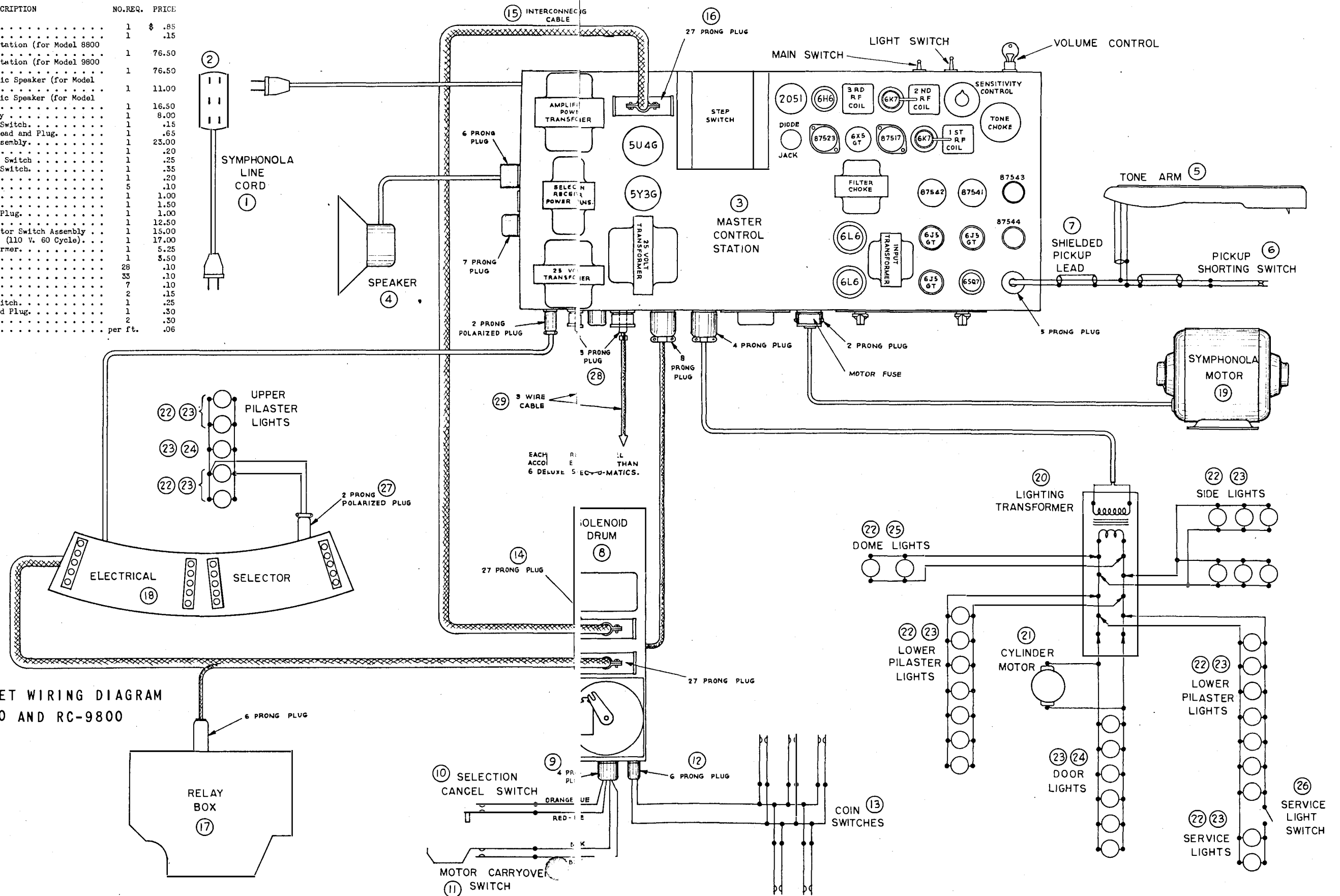


FIG. 2 - CABINET WIRING DIAGRAM FOR RC-7850

ITEM	PART NO.	DESCRIPTION	NO. REQ.	PRICE
1	F-1369	- 16 Ft. Line Cord	1	\$.85
2	F-7867	- Triple Outlet	1	.15
3	MCS25-5	- Master Control Station	1	76.50
4	F-9024	- 15" Dynamic Speaker	1	11.00
5	F-6624-A	- Tone Arm Assembly	1	8.00
6	F-6005-A	- Pickup Shorting Switch	1	.15
7	F-7411	- Shielded Pickup Lead and Plug	1	.65
8	SD20-72	- Solenoid Drum Assembly	1	23.00
9	F-7413	- 4 Prong Plug	1	.20
10	11137	- Selection Cancel Switch	1	.25
11	F-3203	- Motor Carryover Switch	1	.35
12	F-8827	- 6 Prong Plug	1	.20
13	F-6001-A	- Coin Switch	5	.10
14	12020	- 27 Prong Plug	1	1.00
15	12021	- 27 Wire Cable	1	1.50
16	12026	- 27 Prong Female Plug	1	1.00
17	ES-5	- Electrical Selector Assembly	1	27.50
18	F-1090	- Symphonola Motor (110 V. 60 Cycle)	1	17.00
19	F-7842	- 2 Prong Receptacle	1	.15
20	F-7813	- Lighting Transformer	1	5.25
21	F-7814	- Light Socket	21	.10
22	F-7817	- #81 Mazda Lamp	24	.10
23	F-7810	- Light Socket	3	.10
24	F-7815	- Light Socket	4	.15
25	F-7816	- #87 Mazda Lamp	4	.15
26	12015	- 3 Prong Plug	2	.30
27	12001	- 3 Wire Cable per ft.		.06

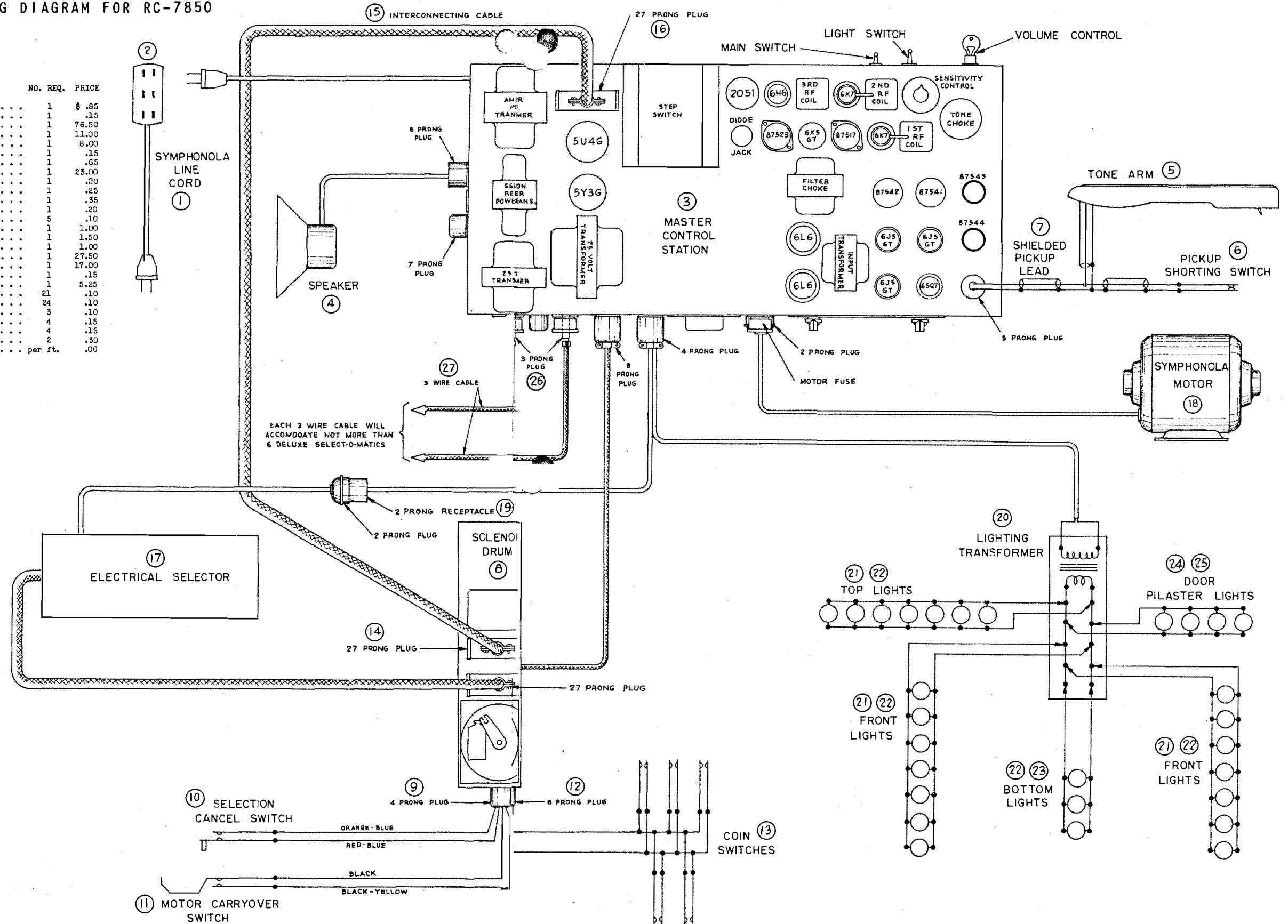
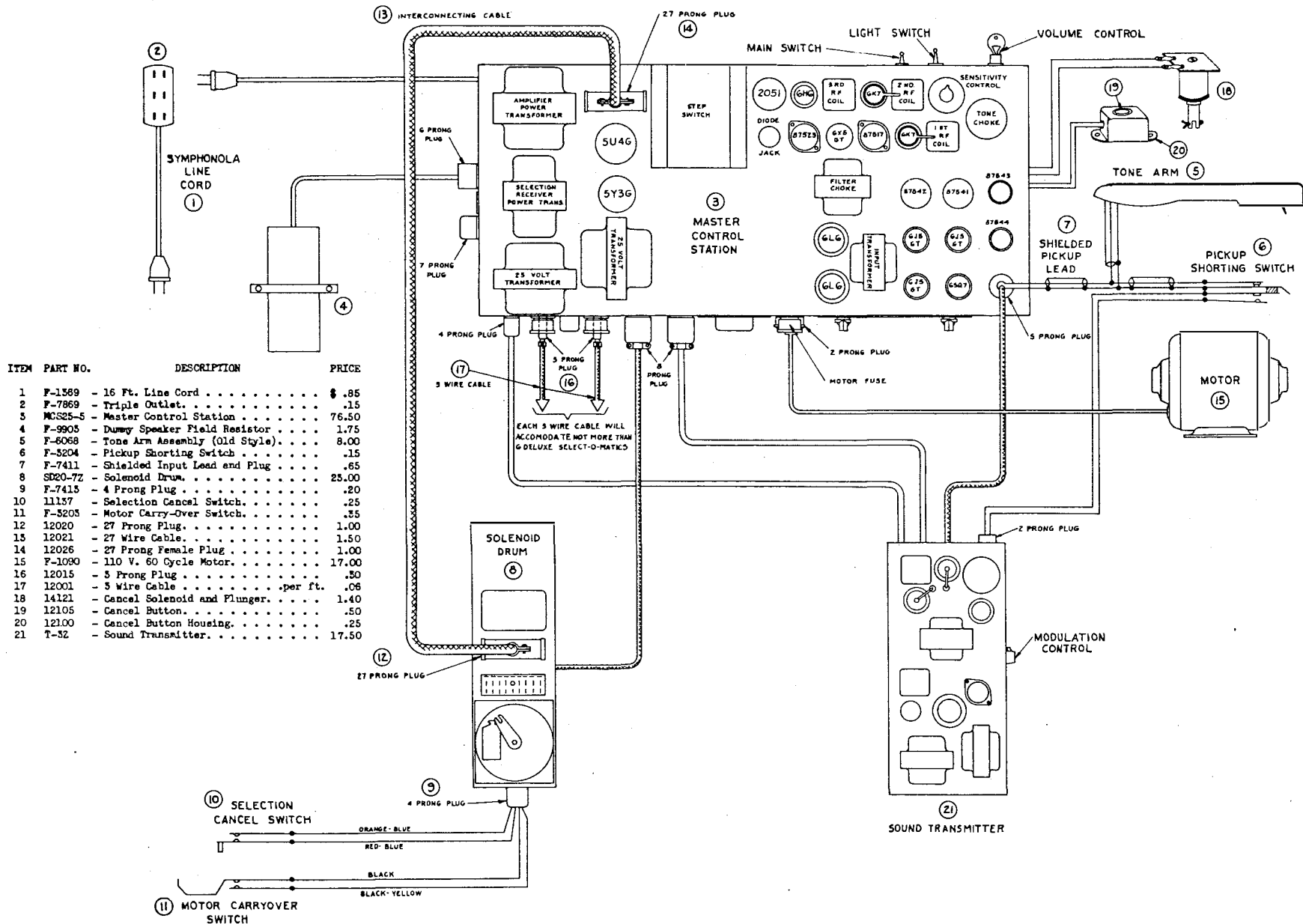


FIG. 3 - CABINET WIRING DIAGRAM FOR TRC-1 SPECIAL



ITEM	PART NO.	DESCRIPTION	PRICE
1	F-1589	- 16 Ft. Line Cord . . . . .	.85
2	F-7869	- Triple Outlet. . . . .	.15
3	MCS25-5	- Master Control Station	76.50
4	F-9905	- Dummy Speaker Field Resistor	1.75
5	F-6068	- Tone Arm Assembly (Old Style).	8.00
6	F-3204	- Pickup Shorting Switch . . . . .	.15
7	F-7411	- Shielded Input Lead and Plug . . . . .	.65
8	SD20-7Z	- Solenoid Drum.	25.00
9	F-7415	- 4 Prong Plug . . . . .	.20
10	11137	- Selection Cancel Switch. . . . .	.25
11	F-3205	- Motor Carry-Over Switch. . . . .	.35
12	12020	- 27 Prong Plug.	1.00
13	12021	- 27 Wire Cable.	1.50
14	12026	- 27 Prong Female Plug	1.00
15	F-1090	- 110 V. 60 Cycle Motor.	17.00
16	12015	- 5 Prong Plug . . . . .	.50
17	12001	- 5 Wire Cable per ft.	.06
18	14121	- Cancel Solenoid and Flunger.	1.40
19	12105	- Cancel Button. . . . .	.50
20	12100	- Cancel Button Housing. . . . .	.25
21	T-52	- Sound Transmitter.	17.50

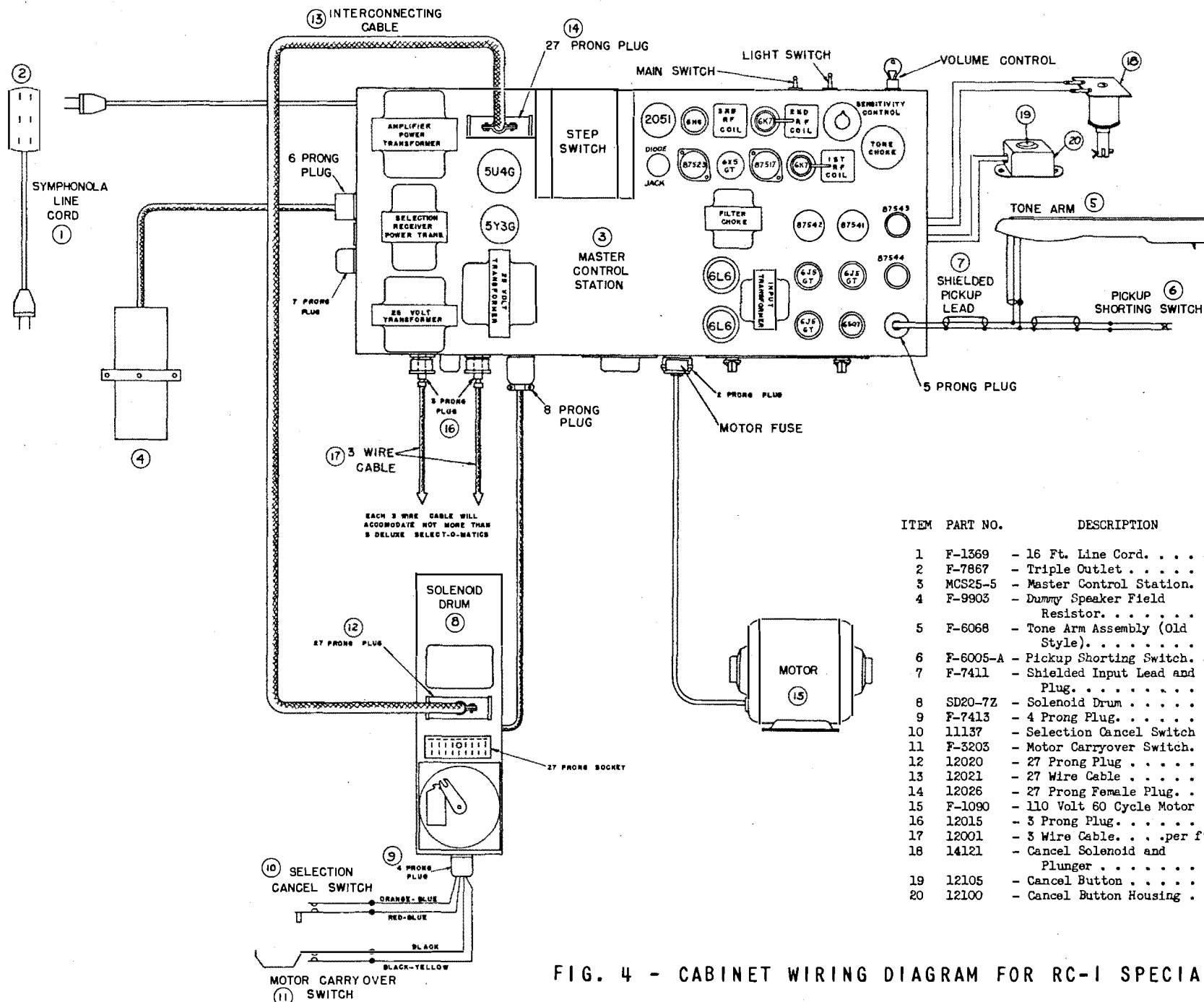
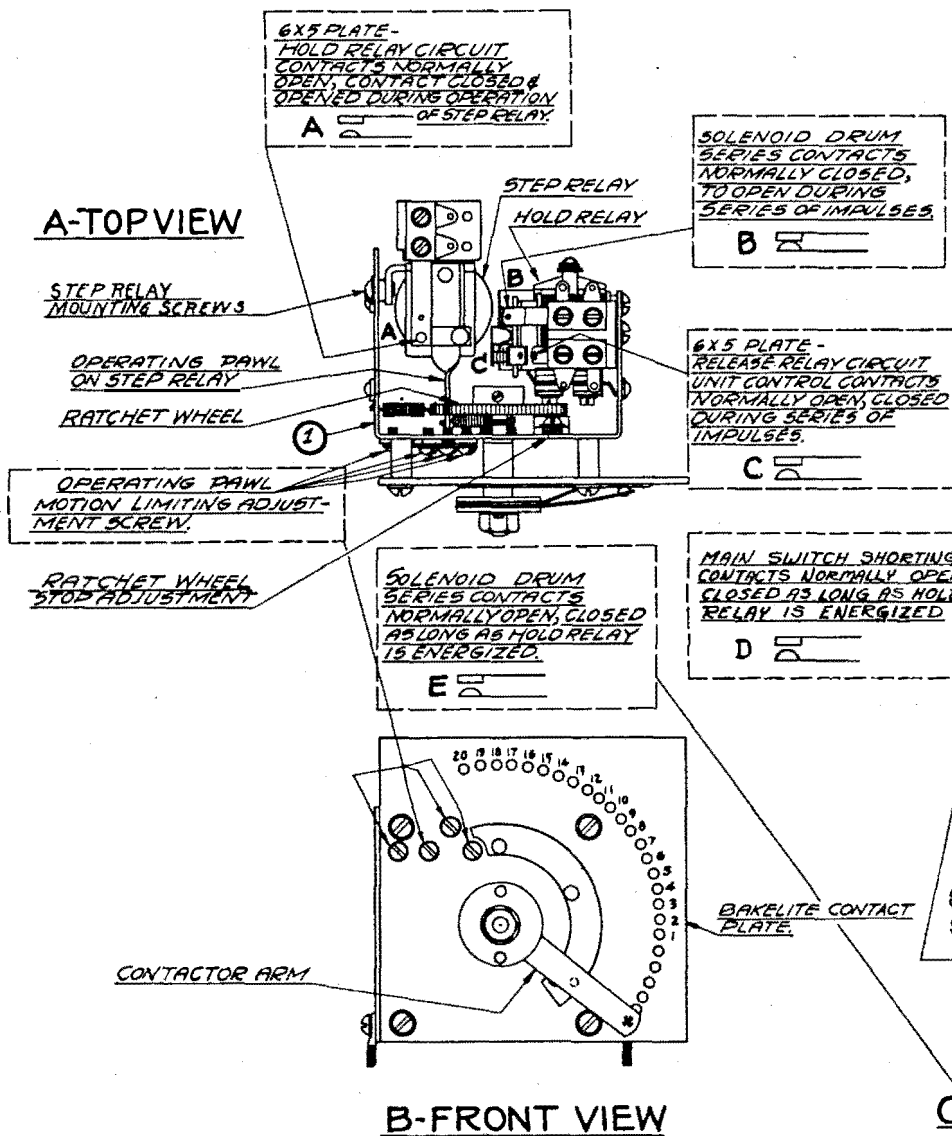


FIG. 4 - CABINET WIRING DIAGRAM FOR RC-1 SPECIAL

FIG. 7 - STEP SWITCH AND RELAY ASSEMBLY (#50128)



ITEM	PART NO.	DESCRIPTION	NO.	REQ.	PRICE
1	50128	Step Switch Assembly..	1		\$10.50

NOTE - WHEN STEP RELAY IS IN OPERATION, CONTACT 'A' IS CLOSED AND OPENED FOR EACH IMPULSE. - THIS SENDS A PULSATING DIRECT CURRENT THROUGH THE HOLD RELAY AND BY VIRTUE OF THE LARGE COPPER SLUGS THE ARMATURE IS HELD STEADILY IN DURING THE PERIOD THE IMPULSES ARE COMING THROUGH. WHEN THE HOLD RELAY IS ENERGIZED, CONTACT 'C' IS CLOSED TO ENERGIZE THE RELEASE RELAY, AND CONTACT 'B' IS OPENED. - THUS, WHEN CONTACT 'C' IS CLOSED TO ENERGIZE THE RELEASE RELAY, CONTACTS 'D' & 'E' ARE CLOSED AND REMAIN IN THIS POSITION AS LONG AS THE HOLD RELAY IS ENERGIZED. BY THE IMPULSES COMING THROUGH, - THE SOLENOIDS ON THE SOLENOID DRUM COMPLETE THEIR CIRCUIT THROUGH CONTACTS 'B' & 'E'. - WHEN THE HOLD RELAY IS NO LONGER ENERGIZED, AT THE END OF A SERIES OF IMPULSES ITS ARMATURE FALLS OUT TO CLOSE CONTACT 'B' BEFORE CONTACT 'E' ON THE RELEASE RELAY IS OPENED. - THIS SEQUENCE OF OPERATION COMPLETES THE SOLENOID CIRCUIT FOR A SHORT TIME INTERVAL TO ENERGIZE THE SELECTOR SOLENOID. - CONTACT 'E' ON THE RELEASE RELAY IS OPENED AN INSTANT AFTER THE IMPULSE HAS BEEN RECEIVED BY THE SELECTOR SOLENOID. -

NOTE - THE FIRST FIVE IMPULSES WILL BE INEFFECTIVE WITH RESPECT TO SECURING SELECTIONS AND STORING UP PLAYS DUE TO EXTRANEOUS IMPULSES THAT MAY BE SET UP ON THE LINE. -

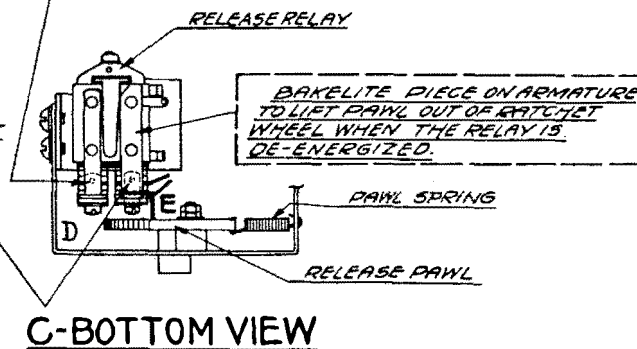
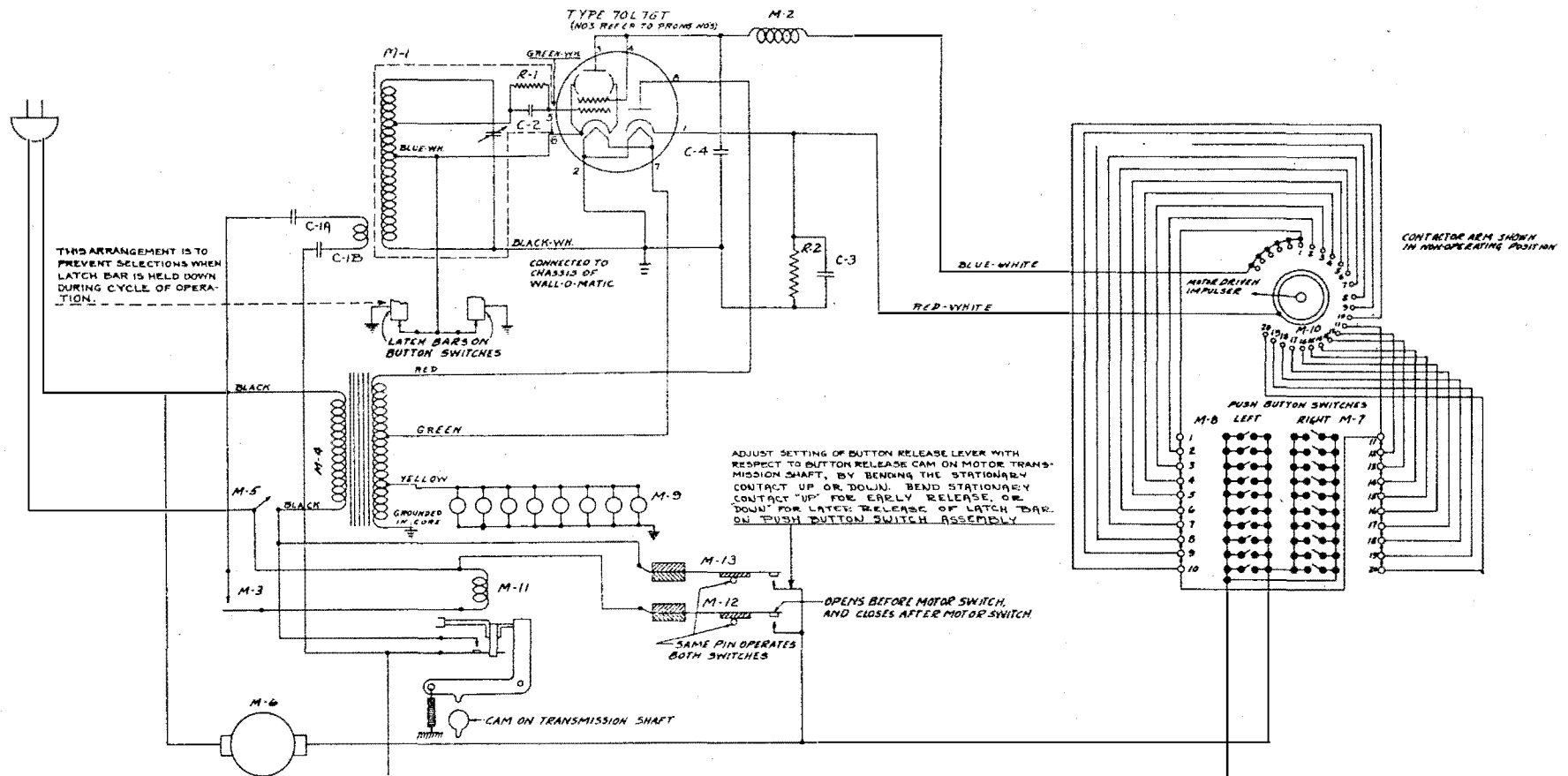
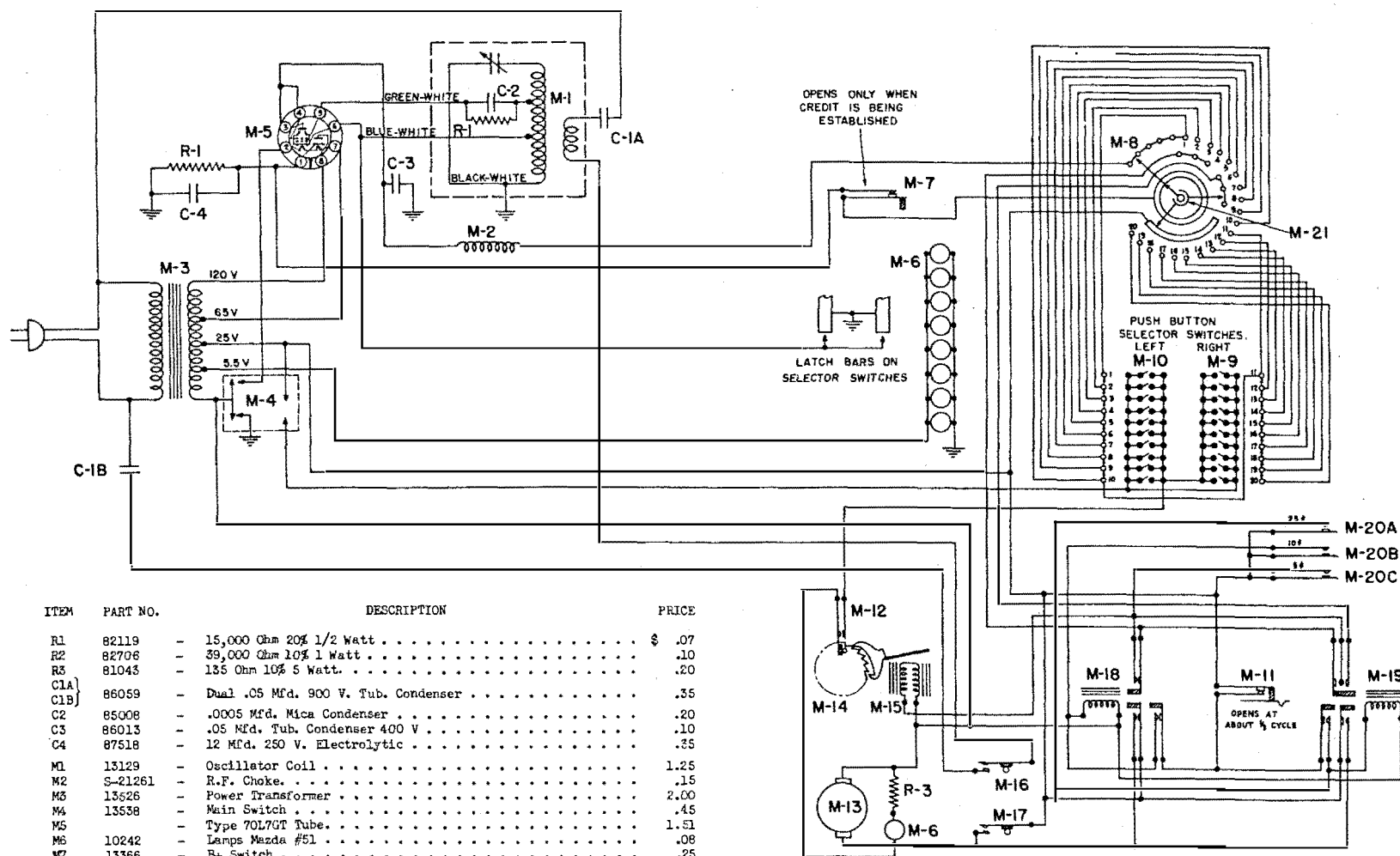


FIG. 8 - SCHEMATIC DIAGRAM OF TYPE WS-2Z WALL-O-MATIC (5¢)



ITEM	PART NO.	DESCRIPTION	PRICE	ITEM	PART NO.	DESCRIPTION	PRICE	ITEM	PART NO.	DESCRIPTION	PRICE
RESISTORS				C2	85008	- .0005 Mfd. Mica Condenser. . . . .	.20	M5	10961	- Main Switch. . . . .	.35
R1	82438	- 15,000 Ohms 1/2 Watt 10%	\$.07	C3	87518	- 12 Mfd. 250 V. Lytic. . . . .	.35	M6	13043	- Motor Assembly . . .	5.00
R2	82706	- 39,000 Ohms 1 Watt 10% . . . . .	.10	C4	86013	- .05 Mfd. 400 V. Tub: Condenser . . .	.10	M7	13089	- Selector Switch Right.	2.25
CONDENSERS				MISCELLANEOUS				M8	13090	- Selector Switch Left.	2.25
CLA	86059	- .05 Mfd. 900 V. Tubular Con- denser . . . . .	.35	M1	13129	- Oscillator Coil. . .	1.25	M9	10242	- Lamps - Mazda #51.	.08
C1B		- .05 Mfd. 900 V. Tubular Con- denser		M2	S21261	- R.F. Choke . . . . .	.15	M10	13005	- Selector Plate Assembly . . . . .	.75
				M3	14087	- Coin Switch. . . . .	.45	M11	13141	- Coin Relay Assembly	1.40
				M4	13056	- Transformer.	1.35	M12	13111	- Shorting Switch. . .	.15
								M13	13110	- Motor Switch . . . . .	.20

FIG. 9 - SCHEMATIC DIAGRAM OF TYPE WS-10Z WALL-O-MATIC (5¢-10¢-25¢)



ITEM	PART NO.	DESCRIPTION	PRICE
R1	82119	- 15,000 Ohm 20% 1/2 Watt	\$.07
R2	82706	- 39,000 Ohm 10% 1 Watt . . . . .	.10
R3	81043	- 135 Ohm 10% 5 Watt. . . . .	.20
C1A	86059	- Dual .05 Mfd. 900 V. Tub. Condenser . . . . .	.35
C1B	85008	- .0005 Mfd. Mica Condenser . . . . .	.20
C3	86013	- .05 Mfd. Tub. Condenser 400 V . . . . .	.10
C4	87518	- 12 Mfd. 250 V. Electrolytic . . . . .	.35
M1	13129	- Oscillator Coil	1.25
M2	S-21261	- R.F. Choke. . . . .	.15
M3	13526	- Power Transformer	2.00
M4	13538	- Main Switch . . . . .	.45
M5		- Type 70L7GT Tube.	1.51
M6	10242	- Lamps Mazda #51 . . . . .	.08
M7	13366	- B+ Switch . . . . .	.25
M8	13348	- Selector Disc . . . . .	.75
M9	13503	- Selector Switch R.H.	2.25
M10	13504	- Selector Switch L.H.	2.25
M11	13368	- Relay "Drop Out" Switch . . . . .	.30
M12	13361	- Motor Switch Assembly . . . . .	.25
M13	13338	- Motor Assembly.	5.00
M14	13466A	- Ratchet Wheel Assembly. . . . .	.60
M15	F-3851	- Credit Magnet Coils (1 Pair).	1.00
M16	13110	- Shorting Switch . . . . .	.20
M17	13110	- Motor Carry-Over Switch . . . . .	.20
M18	13377	- 10¢ Coin Relay.	1.90
M19	13378	- 25¢ Coin Relay.	1.95
M20A			
M20B	13524	- Coin Switch Assembly.	1.25
M20C			
M21	13347	- Contact Arm Assembly. . . . .	.75

117 VOLTS 50-60 CY
120 VOLT
65 VOLT
25 VOLT
5.5 VOLT

M-1

C-4A

M-16

C-2

TOL7-GT

R-1

C-3

M-5

FRONT VIEW OF DOCKET M-3

M-17

M-2

R-2

C-1

GREEN-WHITE

WHITE-BLUE

BLACK-WHITE

C-4B

M-18

LATCH BARS ON SELECTOR SWITCHES

M-19

REAR VIEW OF PLUG M-4

M-12

M-13

M-14

LEFT

M-15

RIGHT

M-8

M-7

M-9

M-6

M-11

M-10

BOTH OPEN AT END OF ONE REVOLUTION OF PRICE SWITCH

ITEM	PART NO.	DESCRIPTION	PRICE	ITEM	PART NO.	DESCRIPTION	PRICE
M1	13294	- Power Transformer.	\$2.00	M16	13538	- Main Switch Off-On.	\$.45
M2	13295	- Oscillator Coil Assembly.	1.25	M17	14087	- Coin Switch. . . . .	.50
M3	13297	- Socket (13 Contact). . . . .	.20	M18	10242	- G.E. Lamps #51. . . . .	.08
M4	13584	- Plug (13 Contact). . . . .	.15	M19		- Latch Bar Switches.	
M5	13296	- R.F. Choke. . . . .	.25				
M6	13338	- Motor.	5.00	R1	82706	- 59,000 Ohm Resistor 1 Watt. . . . .	.10
M7	F-3851	- Credit Magnet Coils (1 Pair).	1.00	R2	82438	- 15,000 Ohm Resistor 1/2 Watt (In Oscillator Coil Assembly) . . . . .	.07
M8	13466-A	- Credit Ratchet Wheel Assembly. . . . .	.60				
M9	13361	- Motor Switch. . . . .	.25				
M10	13110	- Switch. . . . .	.20	C1	85008	- Mica Condenser .0005 Mfd. . . . .	.20
M11	13110	- Switch. . . . .	.20			(In Oscillator Coil Assembly) . . . . .	.20
M12	13347	- Contact Arm Assembly.	1.00	C2	86013	- Tubular Condenser .05 Mfd. 400 Volt . . . . .	.10
M13	13005	- Selector Disc Assembly. . . . .	.75	C3	87518	- Elect. Condenser 12 Mfd. 250 Volt . . . . .	.35
M14	13331	- Selector Switch Assembly L.H.	2.40	C4A			
M15	13330	- Selector Switch Assembly R.H.	2.40	C4B	86059	- Dual .05 Condenser. . . . .	.35

FIG. 11 - SCHEMATIC DIAGRAM OF TYPE WB-1Z BAR-O-MATIC (5¢-10¢-25¢)

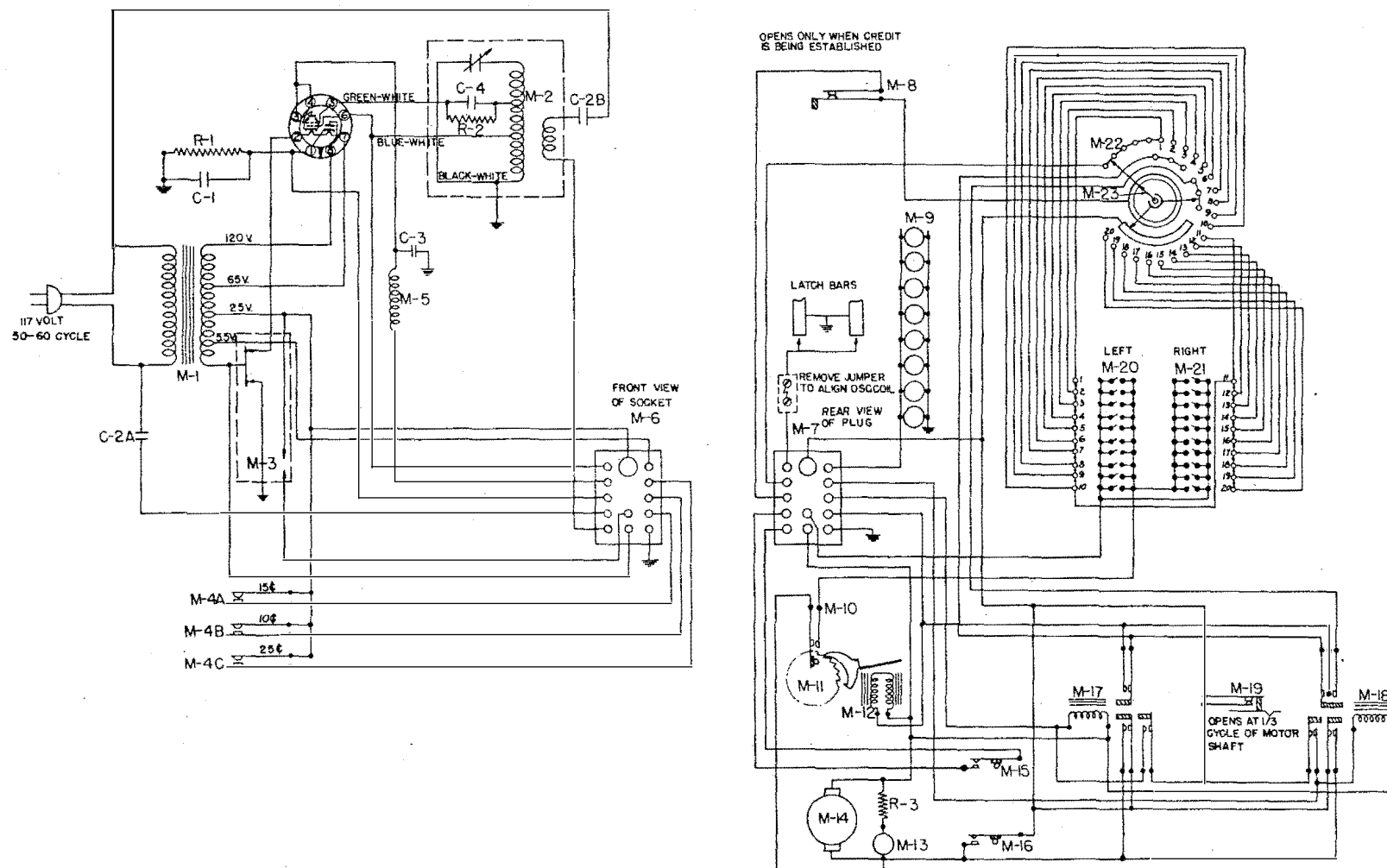


FIG. 11 - SCHEMATIC DIAGRAM OF TYPE WB-1Z BAR-O-MATIC (5¢-10¢-25¢)

ITEM	PART NO.		DESCRIPTION	PRICE
M1	13294	-	Power Transformer.	\$ 2.00
M2	13295	-	Oscillator Coil Assembly	1.25
M3	13538	-	Switch . . . . .	.45
M4A } M4B } M4C }	13298	-	Coin Switch Assembly	1.25
M5	13296	-	R.F. Choke . . . . .	.25
M6	13297	-	Socket (13 Contact). . . . .	.20
M7	13384	-	Plug (13 Contact). . . . .	.15
M8	13366	-	Switch B+ Circuit. . . . .	.25
M9	10242	-	Lamps G.E. #51 . . . . .	.08
M10	13361	-	Motor Switch . . . . .	.25
M11	13355	-	Credit Ratchet Wheel . . . . .	.60
M12	F-3851	-	Credit Magnet Coils (1 Pair)	1.00
M13	10242	-	Lamp G.E. #51 ("Wait" Light) . . . . .	.08
M14	13338	-	Motor.	5.00
M15	13110	-	Switch . . . . .	.20
M16	13110	-	Switch . . . . .	.20
M17	13377	-	Relay (10¢ Credit)	1.90
M18	13378	-	Relay (25¢ Credit)	1.95
M19	13368	-	Relay Switch . . . . .	.30
M20	13331	-	Selector Switch Assembly L.H	2.40
M21	13330	-	Selector Switch Assembly R.H	2.40
M22	13348	-	Selector Disc Assembly . . . . .	.75
M23	13347	-	Contact Arm Assembly	1.00
C1	87518	-	12 Mfd. 250 V. Electrolytic Condenser. . . . .	.35
C2A } C2B }	86059	-	Dual .05 Mfd. 400 V. Condenser . . . . .	.35
C3	86013	-	.05 Mfd. 400 Volt Condenser. . . . .	.10
C4	85008	-	Mica Condenser .005 Mfd. (In Oscillator Coil Assembly). . . . .	.20
R1	82706	-	Resistor 39,000 Ohm 1 Watt . . . . .	.10
R2	82438	-	Resistor 15,000 Ohm 1/2 Watt (In Oscillator Coil Assembly) . . . . .	.07
R3	81043	-	Resistor 135 Ohm Wire Wound. . . . .	.20

FIG. 12 - SCHEMATIC DIAGRAM OF TYPE SR-4 SELECTION RECEIVER

ITEM	PART NO.	DESCRIPTION	PRICE
R1	82426	- 1500 Ohm 1/2 Watt $\pm 10\%$	\$.07
R2	82426	- 1500 Ohm 1/2 Watt $\pm 10\%$ . . . . .	.07
R3	82450	- 150,000 Ohm 1/2 Watt $\pm 10\%$ . . . . .	.07
R4	82468	- 4.7 Meg. Ohm 1/2 Watt $\pm 10\%$ . . . . .	.07
R5	11315	- 40,000 Ohm Variable Sensitivity Control. . . . .	.75
R6	11392	- Candohm 790-132-132 Ohms $\pm 10\%$ . . . . .	.25
R7	10833	- Candohm 5200-4000 Ohms $\pm 10\%$ . . . . .	.40
R8	82108	- 220 Ohm 1/2 Watt $\pm 20\%$ (Wire Wound) . . . . .	.07
R9	82442	- 33,000 Ohm 1/2 Watt $\pm 10\%$ . . . . .	.07
C1A	86061	{ .05 Mfd. 600 Volt Tub. Condenser . . . . .	.25
C1B			
C2	86008	- .1 Mfd. 200 Volt Tub. Condenser . . . . .	.10
C3	86008	- .1 Mfd. 200 Volt Tub. Condenser . . . . .	.10
C4	86013	- .05 Mfd. 400 Volt Tub. Condenser . . . . .	.10
C5	86009	- .05 Mfd. 200 Volt Tub. Condenser . . . . .	.10
C6	86013	- .05 Mfd. 400 Volt Tub. Condenser . . . . .	.10
C7	86008	- .1 Mfd. 200 Volt Tub. Condenser . . . . .	.10
C8	86003	- .1 Mfd. 400 Volt Tub. Condenser . . . . .	.10
C9	87521	- 10 Mfd. 50 Volt Electrolytic Condenser . . . . .	.25
C10	86015	- .01 Mfd. 600 Volt Tub. Condenser . . . . .	.10
C11	11076	- 5.0 Mfd. 300 Volt Paper Condenser	1.25
C12A	87517	{ 20.0 Mfd. 450 Volt Electrolytic Condenser . . . . .	.65
C12B			
C13	87523	- 15.0 Mfd. 450 Volt Electrolytic Condenser . . . . .	.45
C14	86062	- .5 Mfd. 400 Volt Tubular Condenser . . . . .	.25
C15	87529	- 10.0 Mfd. 300 Volt Non-polarized Condenser . . . . .	.40
M1	30202	- 1st R.F. (Input) Transformer . . . . .	.75
M2	30203	- 2nd R.F. (Interstate) Transformer . . . . .	.85
M3	30204	- 3rd R.F. (Diode) Transformer . . . . .	.75
M4	10843	- R.F. Choke . . . . .	.25
M5	11188	- Jack . . . . .	.35
M6	12224	- 1/2 Amp. Solenoid Fuse . . . . .	.15
M7	50142	- Stepswitch Assembly	10.50
M8	12022	- 27 Prong Male Socket	1.00
M9	10840	- Filter Choke . . . . .	.60
M10	12185	- Power Transformer	2.75
M11	11401	- 2 Prong Receptacle . . . . .	.20
M12	F-1369	- Line Cord . . . . .	.85
M13	10841	- R.F. Choke . . . . .	.35
M14	10841	- R.F. Choke . . . . .	.35
M15	11474	- Line Cord . . . . .	.15
M16	12004	- 9 Prong Plug . . . . .	.25
M17	12032	- Small 4 Contact Socket . . . . .	.15

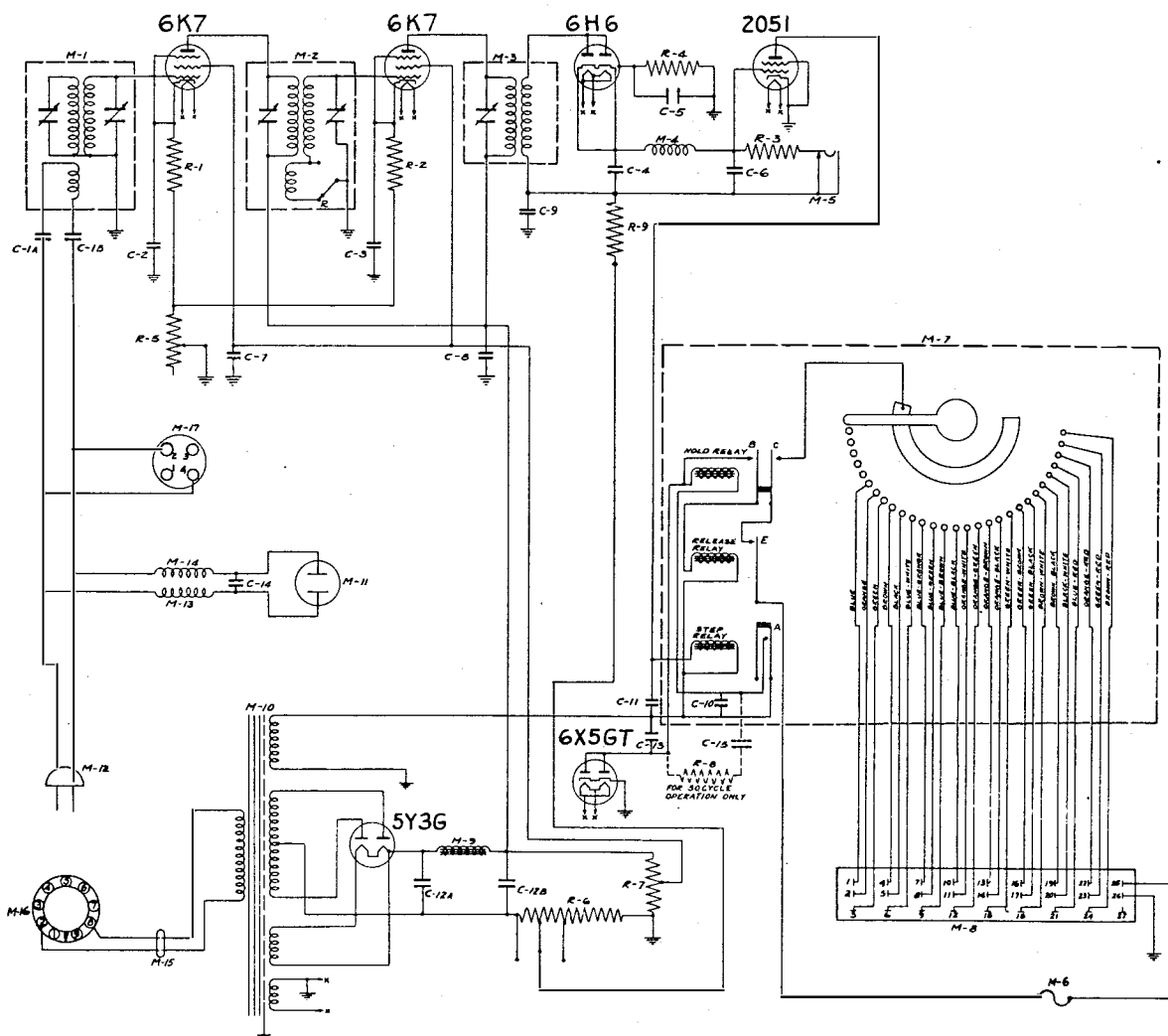


FIG. 13 - BLOCK WIRING DIAGRAM OF TYPE SR-4 SELECTION RECEIVER
IN MODELS 7800, 7850, 8800, AND 9800

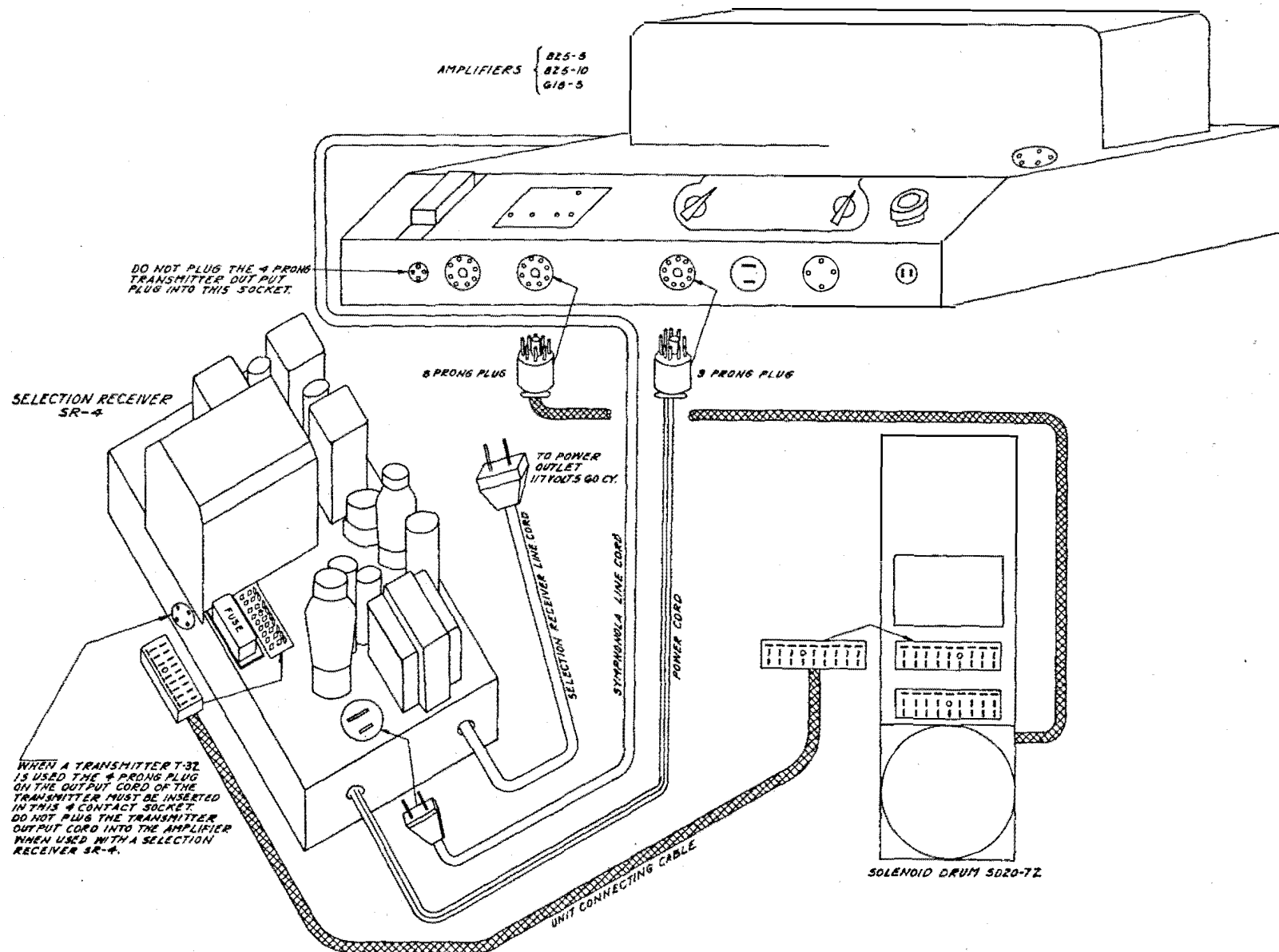
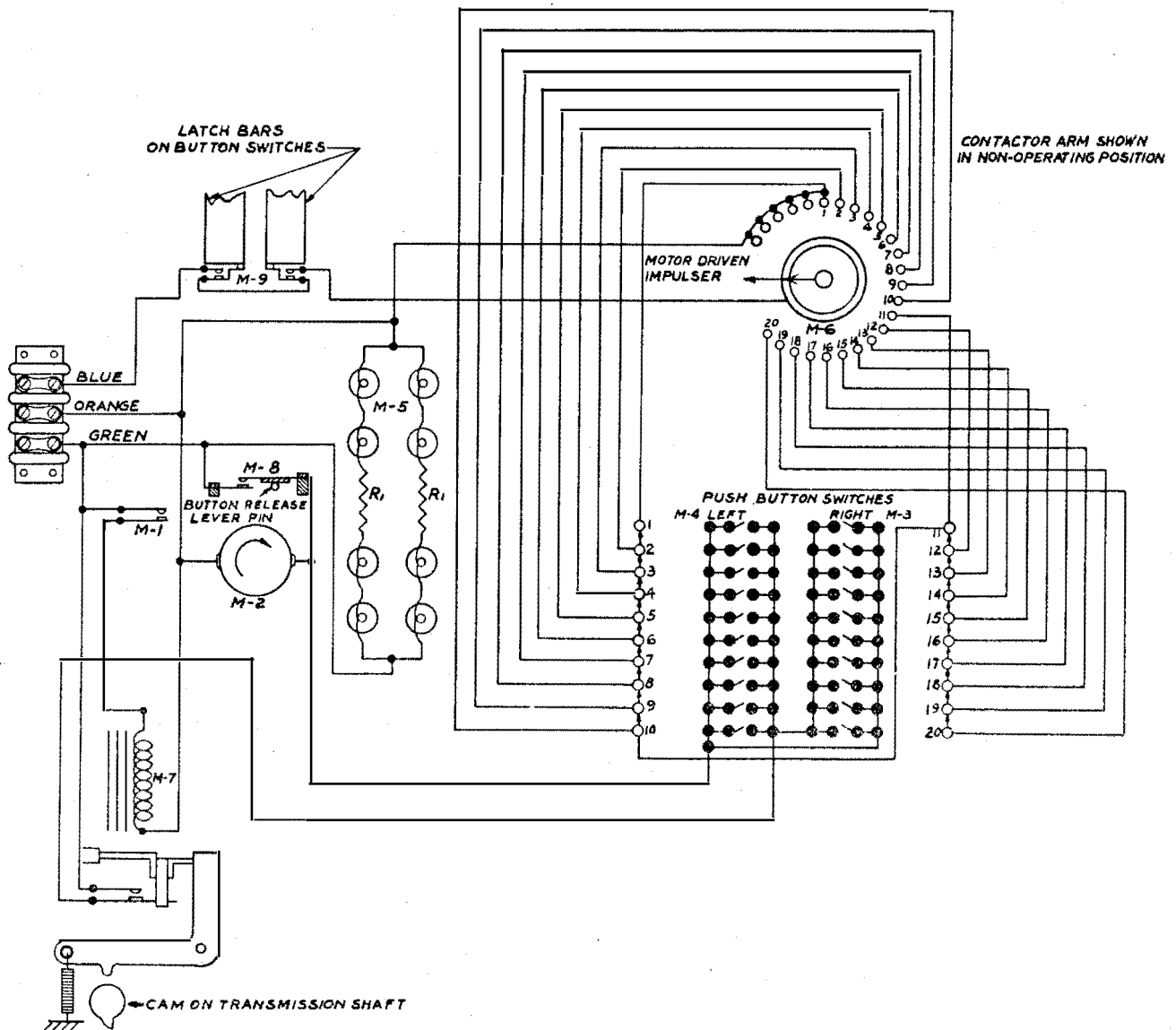
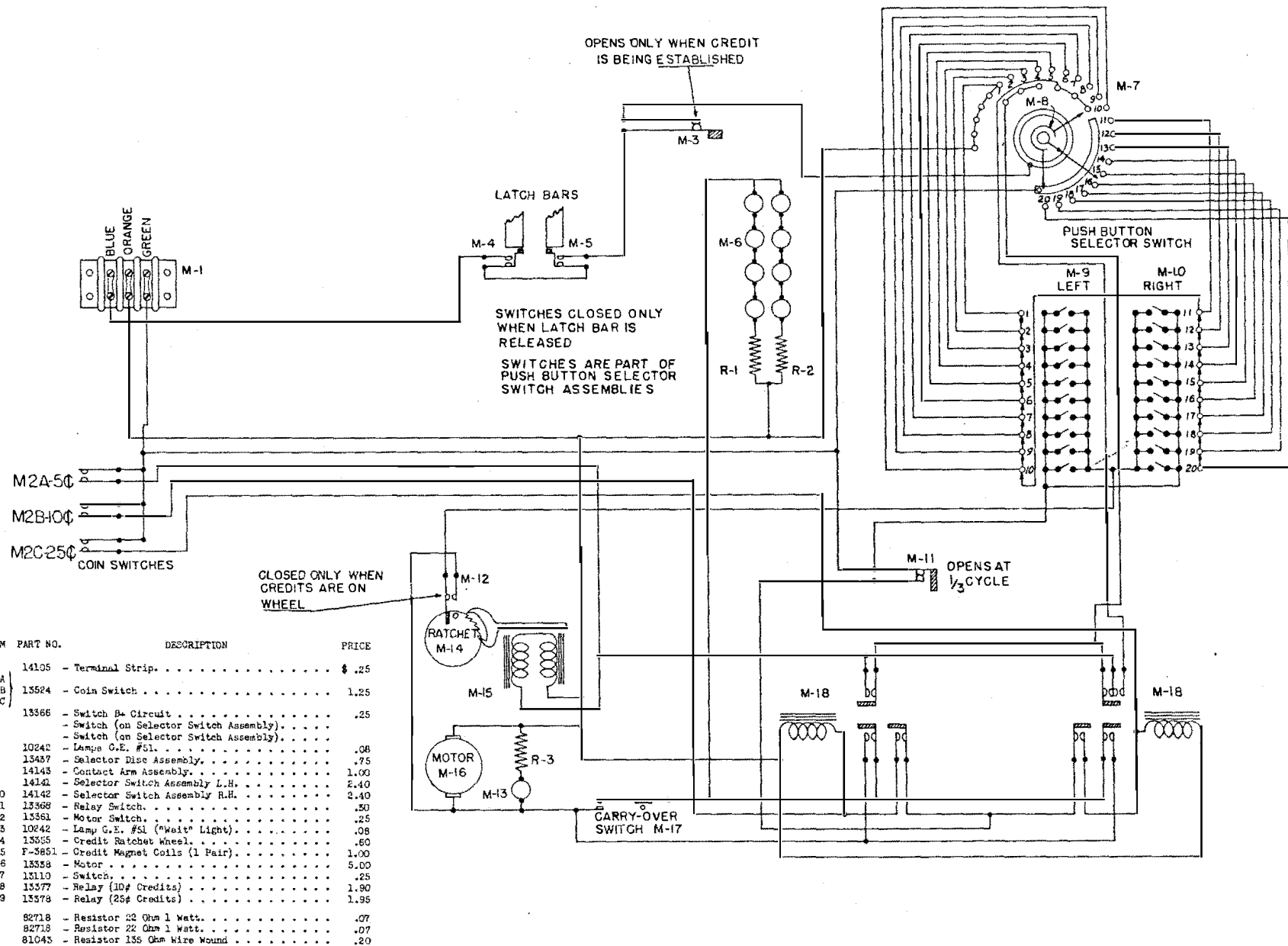


FIG. 14 - SCHEMATIC DIAGRAM OF TYPE DS20-1Z
DELUXE SELECT-O-MATIC (5¢)



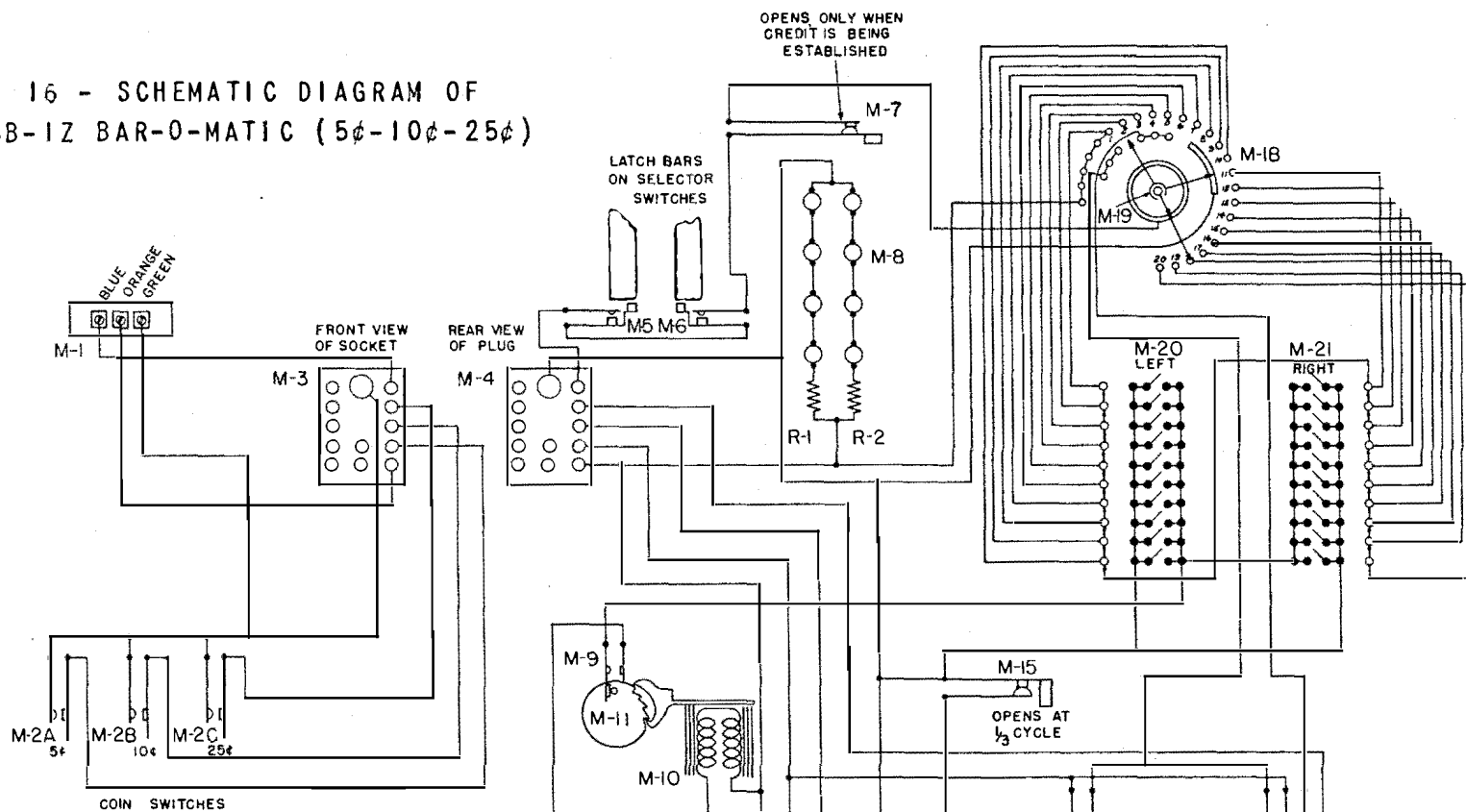
ITEM	PART NO.	DESCRIPTION	NO. REQ.	PRICE
R1	82718 -	22 Ohm 20% 1 Watt	1	\$.15
M1	13040 -	Coin Switch	1	.45
M2	14108 -	Motor Assembly.	1	5.00
M3	14109 -	Selector Switch (R.H.).	1	2.25
M4	14110 -	Selector Switch (L.H.).	1	2.25
M5	10242 -	Lamps #51 Mazda	8	.08
M6	13848 -	Selector Disc Assembly.	1	.75
M7	14103 -	Coin Relay Assembly	1	1.25
M8	13110 -	Motor Switch.	1	.20
M9	-	"Open" Switch (on M-3 and M-4).		

FIG. 15 - SCHEMATIC DIAGRAM OF TYPE DS20-10Z DELUXE SELECT-O-MATIC (5¢-10¢-25¢)



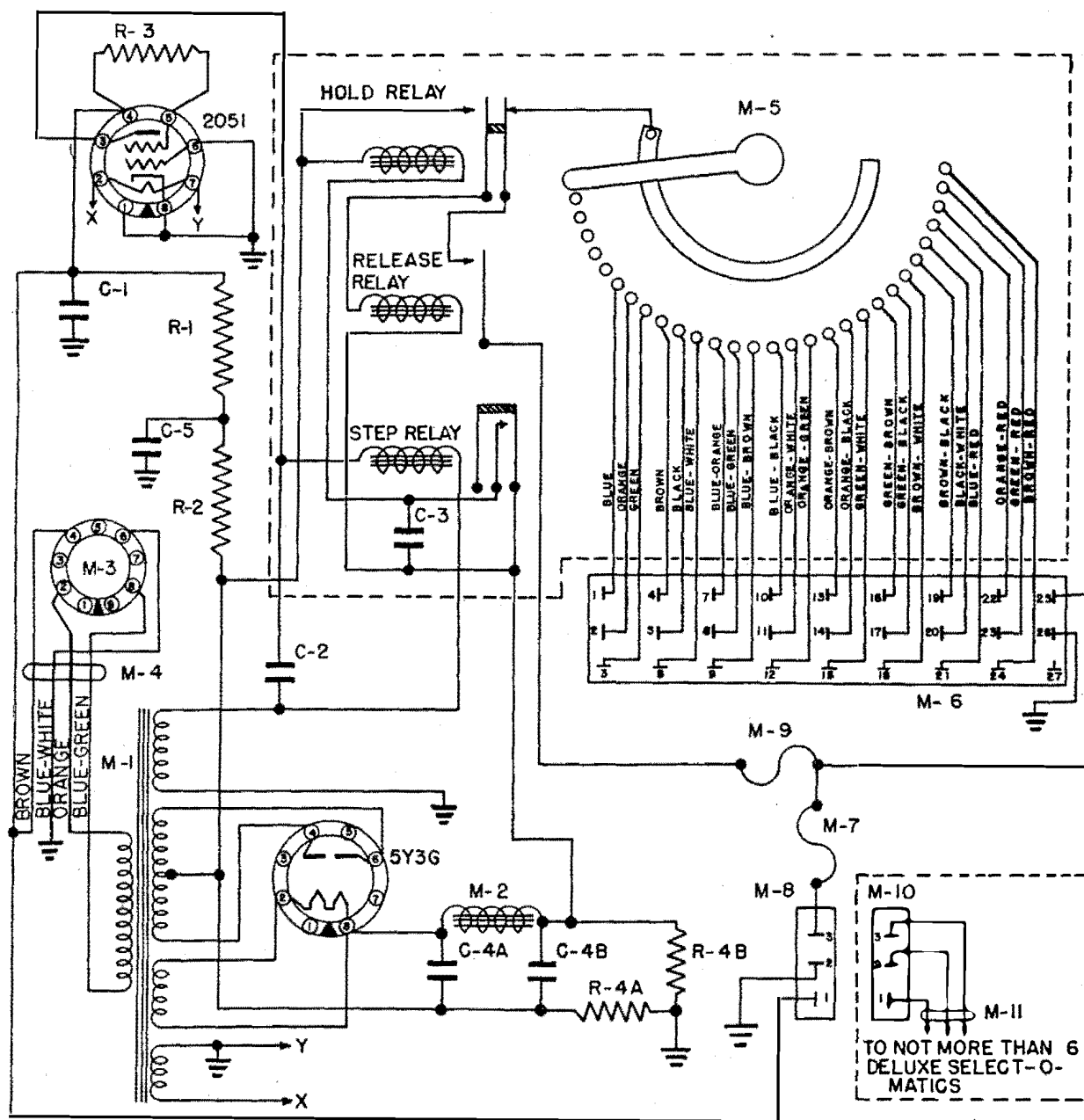
ITEM	PART NO.	DESCRIPTION	PRICE
M1	14105	- Terminal Strip	.25
M2A	13524	- Coin Switch	1.25
M2B			
M2C			
M3	13566	- Switch B+ Circuit	.25
M4		- Switch (on Selector Switch Assembly)	
M5		- Switch (on Selector Switch Assembly)	
M6	10242	- Lamp G.E. #51	.08
M7	13487	- Selector Disc Assembly	.75
M8	14145	- Contact Arm Assembly	1.00
M9	14142	- Selector Switch Assembly L.H.	2.40
M10	14142	- Selector Switch Assembly R.H.	2.40
M11	13568	- Relay Switch	.50
M12	13561	- Motor Switch	.25
M13	10242	- Lamp G.E. #51 ("Wait" Light)	.08
M14	13555	- Credit Ratchet Wheel	.60
M15	F-3851	- Credit Magnet Coils (1 Pair)	1.00
M16	13558	- Motor	5.00
M17	13110	- Switch	.25
M18	13377	- Relay (10¢ Credits)	1.90
M19	13378	- Relay (25¢ Credits)	1.95
R1	82718	- Resistor 22 Ohm 1 Watt	.07
R2	82718	- Resistor 22 Ohm 1 Watt	.07
R3	81045	- Resistor 135 Ohm Wire Wound	.20

FIG. 16 - SCHEMATIC DIAGRAM OF
TYPE DSB-1Z BAR-O-MATIC (5¢-10¢-25¢)



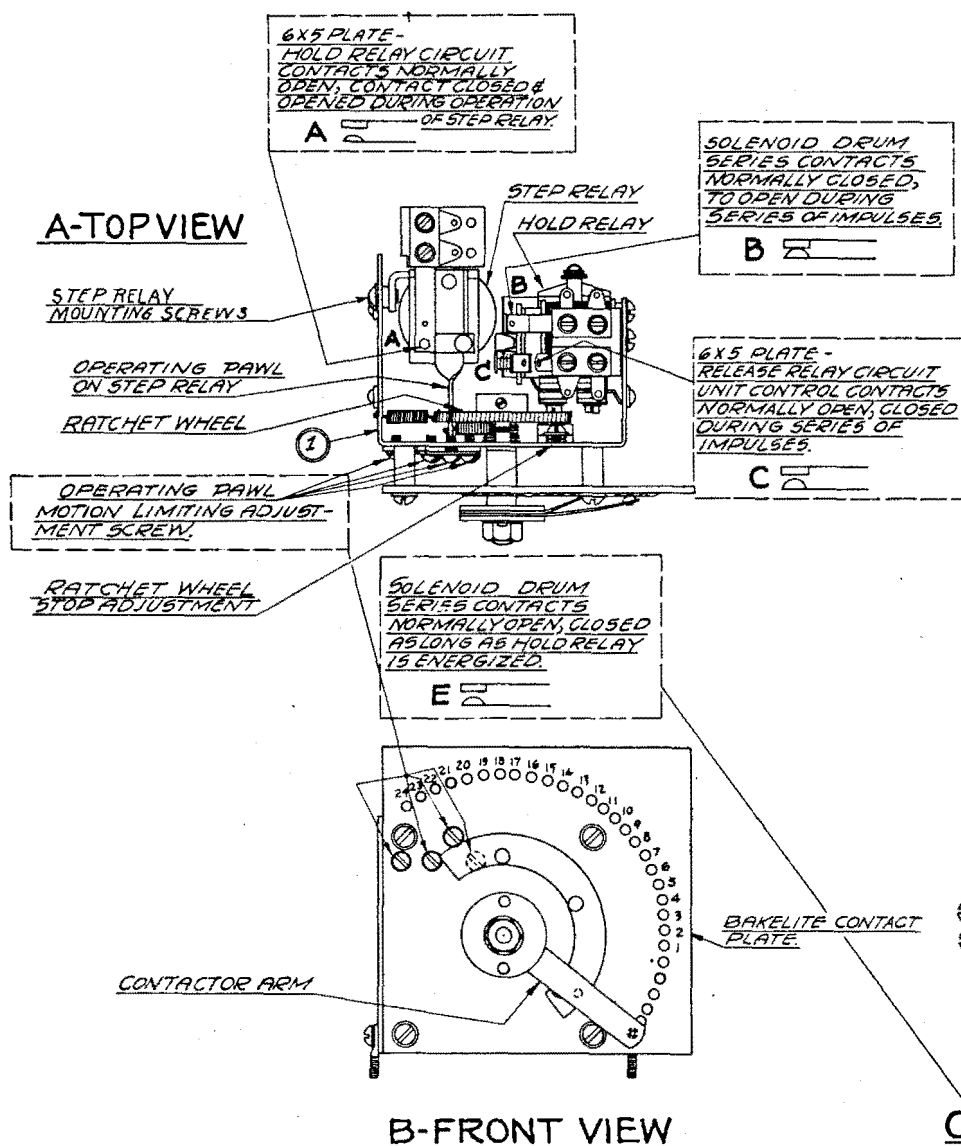
ITEM	PART NO.	DESCRIPTION	PRICE
M1	14233	Terminal Strip Assembly.	\$.25
M2A	13298	Coin Switch Assembly.	1.25
M2B			
M2C			
M3	13297	Socket (13 Contact). . . . .	.20
M4	13384	Plug (13 Contact). . . . .	.15
M5		Switch (on Selector Switch Assembly).	
M6		Switch (on Selector Switch Assembly).	
M7	13366	Switch (2¢). . . . .	.25
M8	10242	Lamps (G.E. #51). . . . .	.08
M9	13361	Motor Switch. . . . .	.25
M10	F-3851	Credit Magnet Coils (1 Pair).	1.00
M11	13466	Credit Hatchet Wheel. . . . .	.60
M12	13338	Motor.	5.00
M13	10242	Lamp G.E. #51 ("Wait" Light). . . . .	.08
M14	13110	Carry-Over Switch. . . . .	.20
M15	13368	Relay Switch. . . . .	.30
M16	13377	Relay 10¢ Credit.	1.90
M17	13378	Relay 25¢ Credit.	1.95
M18	13348	Selector Disc Assembly. . . . .	.75
M19	13347	Contact Arm Assembly.	1.00
M20	13351	Selector Switch Assembly L.H.	2.40
M21	13350	Selector Switch Assembly R.H.	2.40
R1	82718	Resistor 22 Ohms 1 Watt. . . . .	.07
R2	82718	Resistor 22 Ohms 1 Watt. . . . .	.07
R3	81043	Resistor 155 Ohms 5 Watt Wire Wound. . . . .	.20

FIG. 17 - SCHEMATIC DIAGRAM OF TYPE SS20-1 STEP SELECTOR



ITEM PART NO.	DESCRIPTION	PRICE	ITEM PART NO.	DESCRIPTION	PRICE
PAPER CONDENSERS					
C1	86013 - .05 Mfd. 400 Volts . . . . .	.10	R4A	12007 { 500 Ohms Wire Wound 10% } \$.45	
C2	11076 - 5 Mfd. 300 Volts	1.25	R4B		
C3	86015 - .01 Mfd. 600 Volts . . . . .	.10	MISCELLANEOUS		
ELECTROLYTIC CONDENSERS					
C4A	87517 { 20 Mfd. 450 Volts Dry } .65		M1	12002 - Power Transformer.	2.25
C4B					
C5	87521 - 10 Mfd. 50 Volts Dry . . . . .	.25	M2	10840 - Filter Choke . . . . .	.60
RESISTORS					
R1	82442 - 33,000 Ohms 1/2 Watt 10% . . . . .	.07	M3	12004 - 9 Prong Plug . . . . .	.25
R2	82442 - 33,000 Ohms 1/2 Watt 10% . . . . .	.07	M4	12003 - Power Cable. . . . .	.35
R3	82454 - 330,000 Ohms 1/2 Watt 10% . . . . .	.07	M5	50142 - Step Switch Assembly	10.50
			M6	12022 - 27 Prong Male Socket	1.00
			M7	14173 - 2.5 Amp. Non-tamperable Fuse . . . . .	.25
			M8	12006 - 3 Prong Socket . . . . .	.15
			M9	12224 - 1/2 Amp. Solenoid Fuse . . . . .	.15
			M10	12015 - 3 Prong Plug . . . . .	.20
			M11	12001 - 3 Wire Cable per ft.	.06

FIG. 18 - STEP SWITCH AND RELAY ASSEMBLY (#50142)

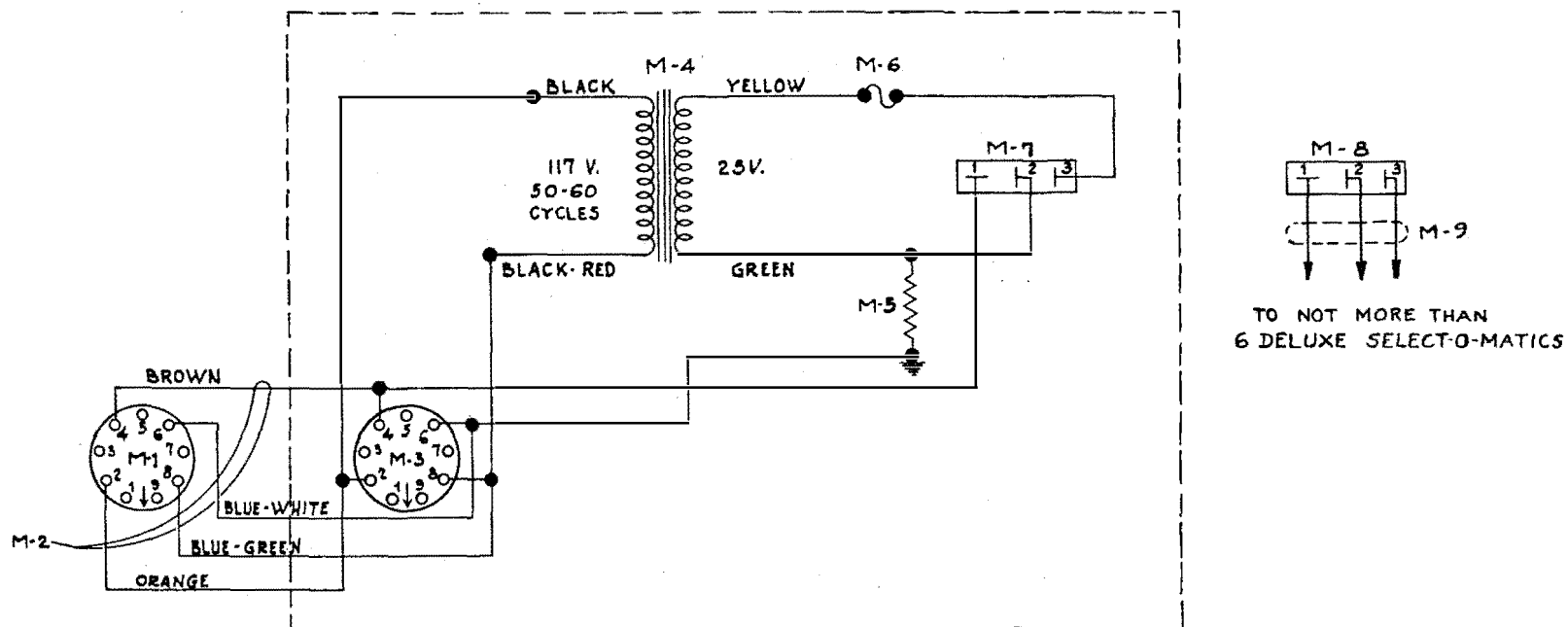


ITEM PART NO. DESCRIPTION NO. REQ. PRICE

1 50142 - Step Switch Assembly. . 1 \$10.50

NOTE:- WHEN STEP RELAY IS IN OPERATION, CONTACT "A" IS CLOSED AND OPENED FOR EACH IMPULSE. THIS SENDS A PULSATING DIRECT CURRENT THROUGH THE HOLD RELAY AND BY VIRTUE OF THE LARGE COPPER SLUGS THE ARMATURE IS HELD STRAIGHTLY IN DURING THE PERIOD THE IMPULSES ARE COMING THROUGH. WHEN THE HOLD RELAY IS ENERGIZED, CONTACT "C" IS CLOSED TO ENERGIZE THE RELEASE RELAY, AND CONTACT "B" IS OPENED. - THUS, WHEN CONTACT "C" IS CLOSED TO ENERGIZE THE RELEASE RELAY, CONTACTS "E" ARE CLOSED AND REMAIN IN THIS POSITION AS LONG AS THE HOLD RELAY IS ENERGIZED BY THE IMPULSES COMING THROUGH. - THE SOLENOIDS ON THE SOLENOID DRUM COMPLETE THEIR CIRCUIT THROUGH CONTACTS "B" & "E". - WHEN THE HOLD RELAY IS NO LONGER ENERGIZED, AT THE END OF A SERIES OF IMPULSES ITS ARMATURE FALLS OUT TO CLOSE CONTACT "B" BEFORE CONTACT "E" ON THE RELEASE RELAY IS OPENED. - THIS SEQUENCE OF OPERATION COMPLETES THE SOLENOID CIRCUIT FOR A SHORT TIME INTERVAL TO ENERGIZE THE SELECTION SOLENOID. - CONTACT "E" ON THE RELEASE RELAY IS OPENED AN INSTANT AFTER THE IMPULSE HAS BEEN RECEIVED BY THE SELECTOR SOLENOID. -

NOTE:- THE FIRST FIVE IMPULSES WILL BE INEFFECTIVE WITH RESPECT TO SECURING SELECTIONS AND STORING UP PLAYS DUE TO EXTRANEIOUS IMPULSES THAT MAY BE SET UP ON THE LINE. -



ITEM	PART NO.	DESCRIPTION	NO. REQ.	PRICE
1	12004	- 9 Prong Plug	1	\$.25
2	12003	- Power Cable.	1	.35
3	84244	- Socket for Power to Step Selector.	1	.10
4	11213	- Power Transformer.	1	2.75
5	81006	- 1000 Ohm 5 Watts 10% Wire Wound Resistor . .	1	.25
6	14173	- 2.5 Amp. Non-tamperable Fuse	1	.25
7	12006	- Socket for 6 DeLuxe Select-O-Matics.	1	.15
8	12015	- Plug for 3 Wire Cable.	1	.30
9	12001	- 3 Wire Cable per ft.		.06

FIG. 20 - BLOCK WIRING DIAGRAM OF TYPE SS20-1 STEP SELECTOR
IN MODELS 7800, 7850, 8800, AND 9800

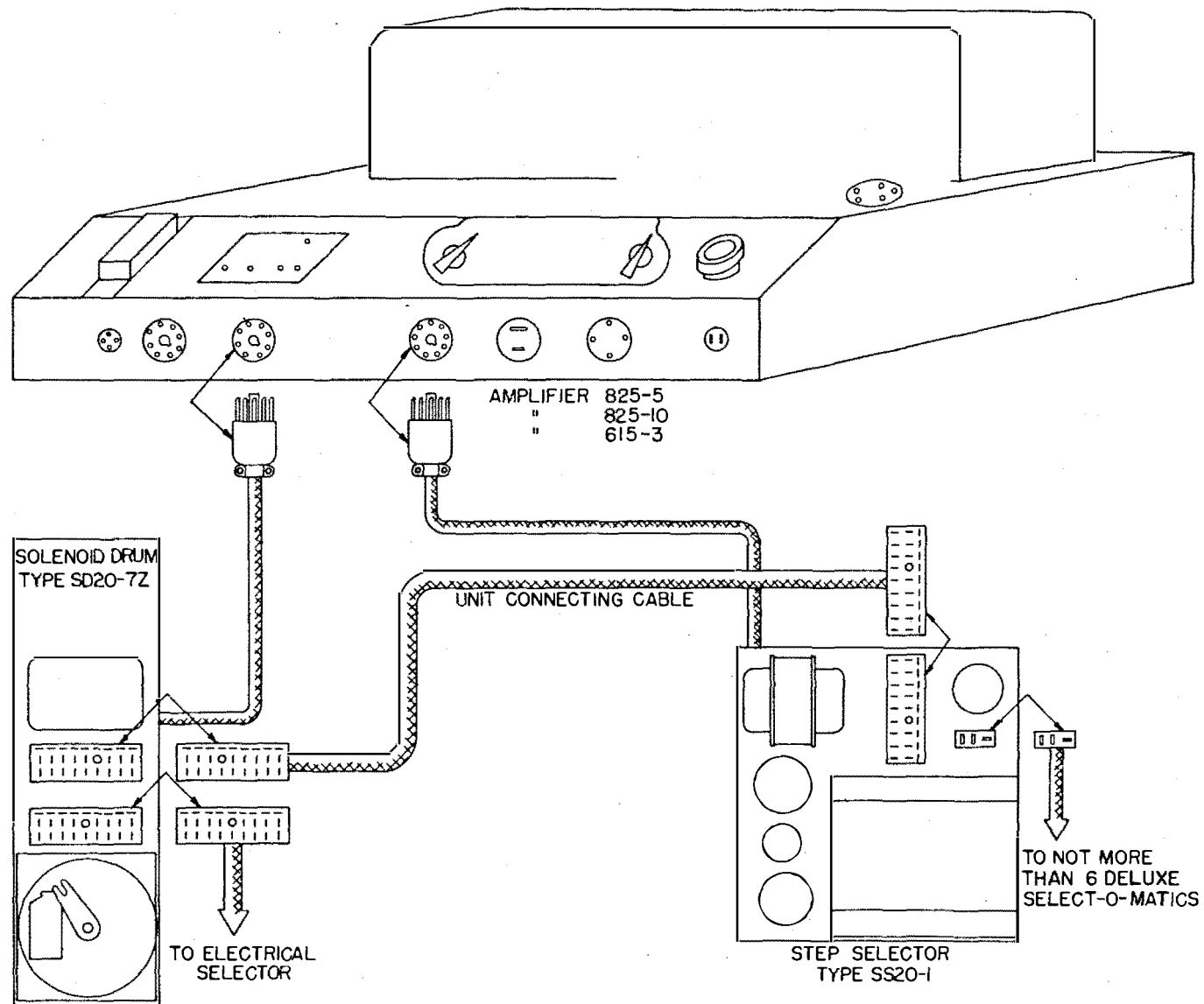


FIG. 21 - SCHEMATIC DIAGRAM OF TYPE S20-1Z SELECT-O-MATIC.

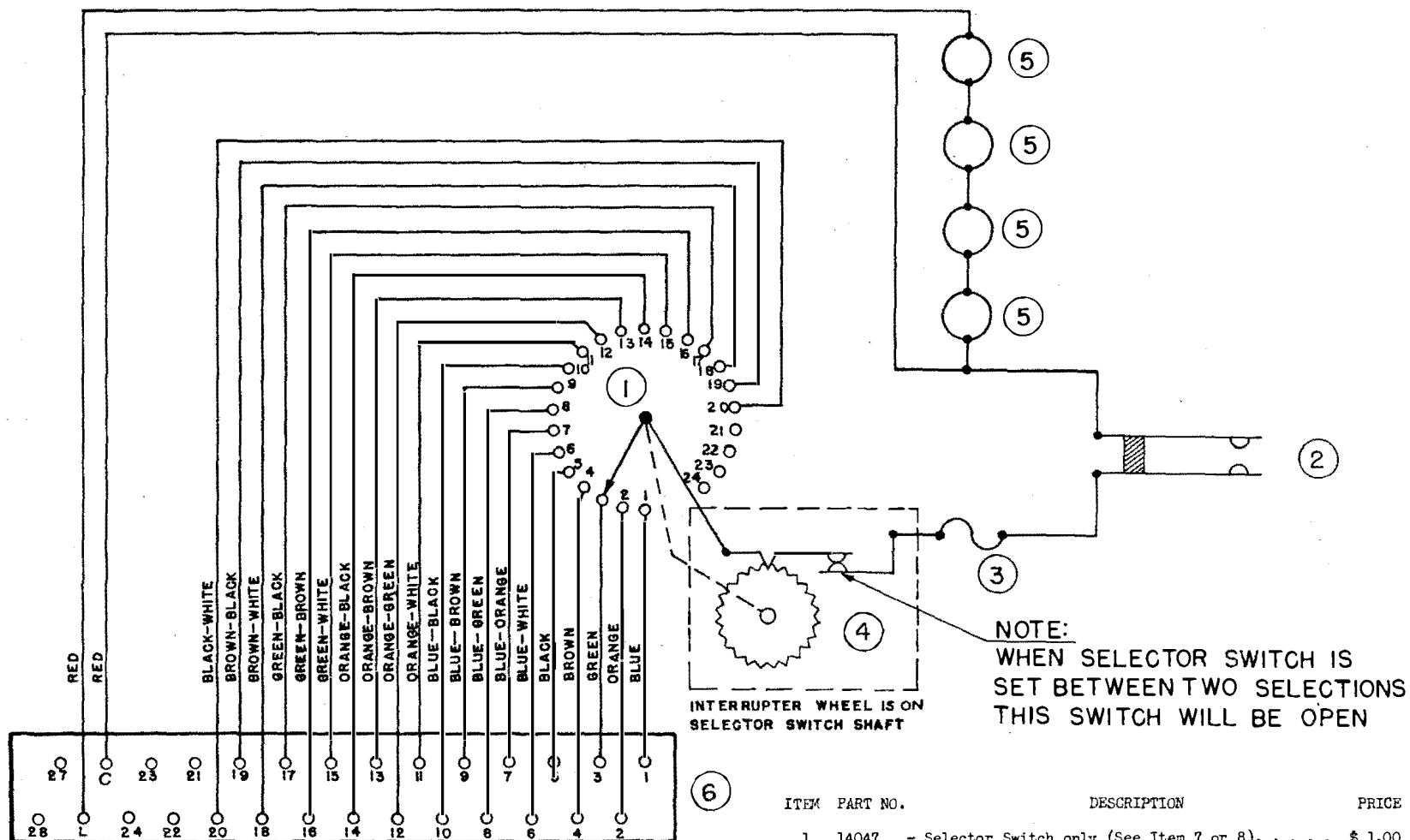
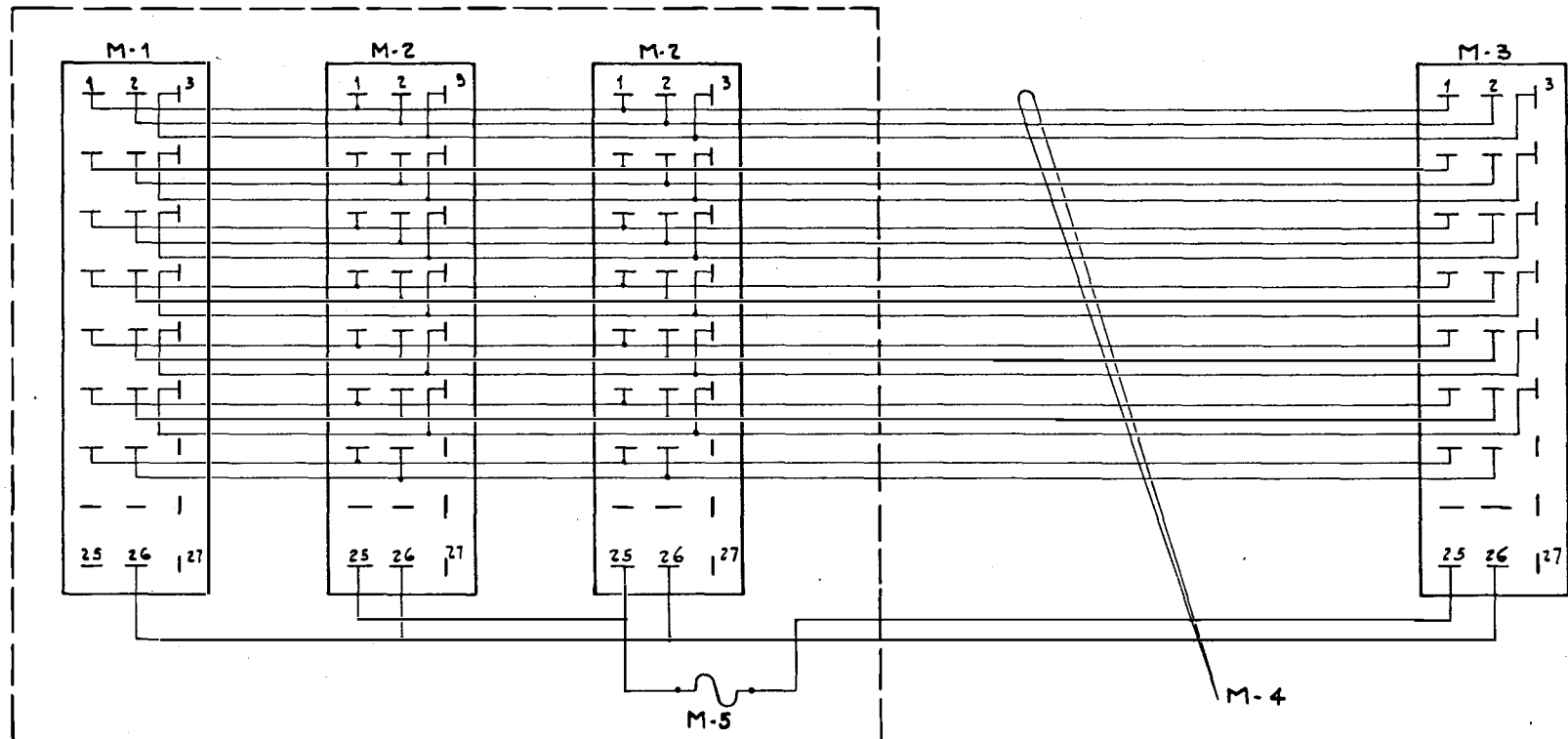


FIG. 22 - SCHEMATIC DIAGRAM OF TYPE WA-1Z WIRED ADAPTOR



ITEM	PART NO.	DESCRIPTION	NO. USED	PRICE
1	12017	- 27 Prong Socket - Special.	1	\$ 1.00
2	11202	- 27 Prong Socket.	2	1.00
3	12020	- 27 Prong Plug.	1	1.00
4	14213	- Selection and Power Cable.	1	1.50
5	14173	- 2.5 Amp. Non-tamperable Fuse	1	.25

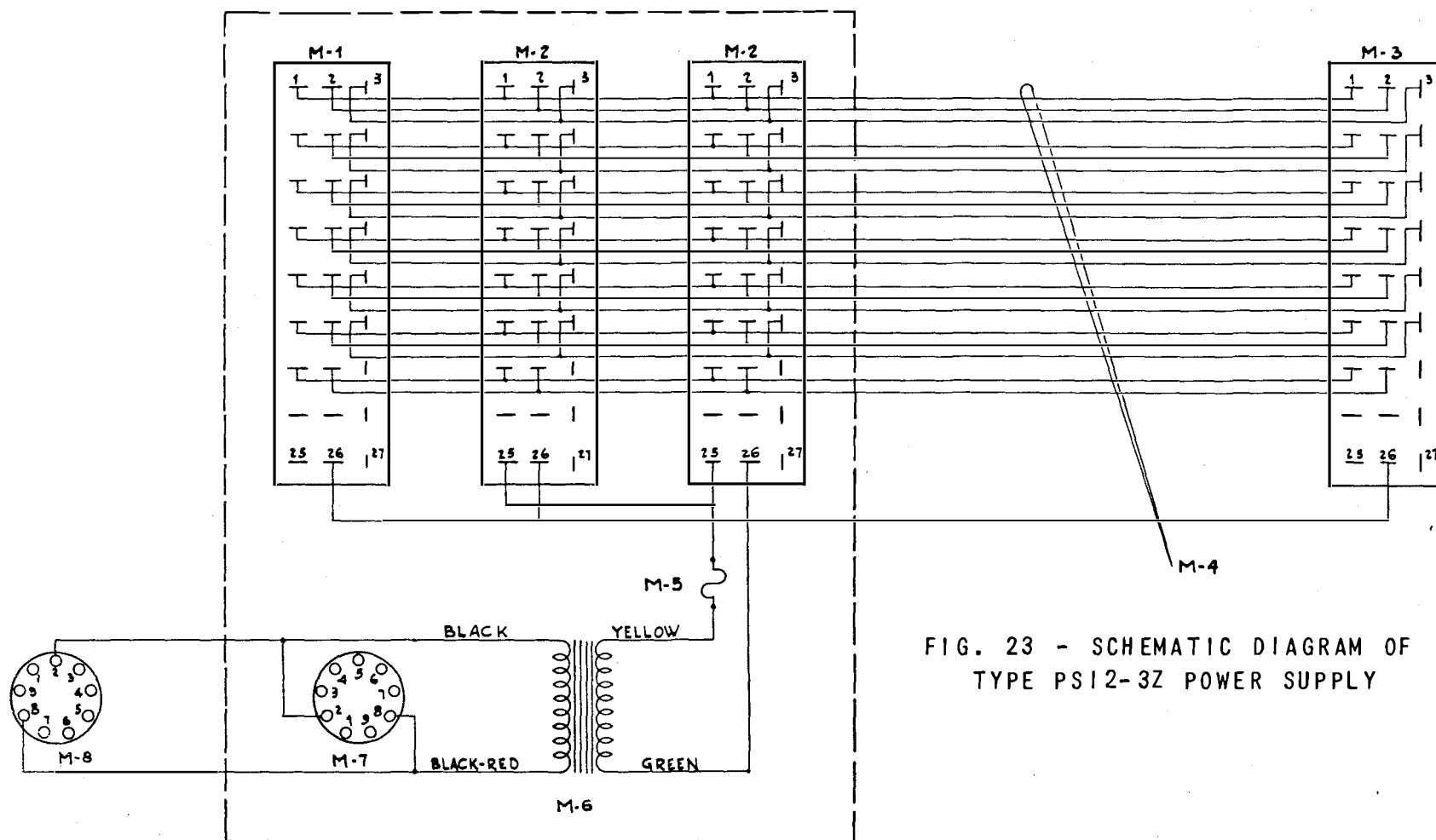


FIG. 23 - SCHEMATIC DIAGRAM OF
TYPE PS12-3Z POWER SUPPLY

ITEM	PART NO.	DESCRIPTION	NO REQ.	PRICE
1	12017	- 27 Prong Socket - Special.	1	\$1.00
2	11202	- 27 Prong Socket.	2	1.00
3	12020	- 27 Prong Plug.	1	1.00
4	14213	- Selection and Power Cable.	1	1.50
5	14173	- 2.5 Amp. Non-tamperable Fuse	1	.25
6	11213	- Power Transformer.	1	2.75
7	84244	- 9 Prong Socket	1	.10
8	12004	- 9 Prong Plug	1	.25

FIG. 24 - BLOCK WIRING DIAGRAM OF TYPE WA-1Z WIRED ADAPTOR
IN MODELS 7800, 7850, 8800, AND 9800

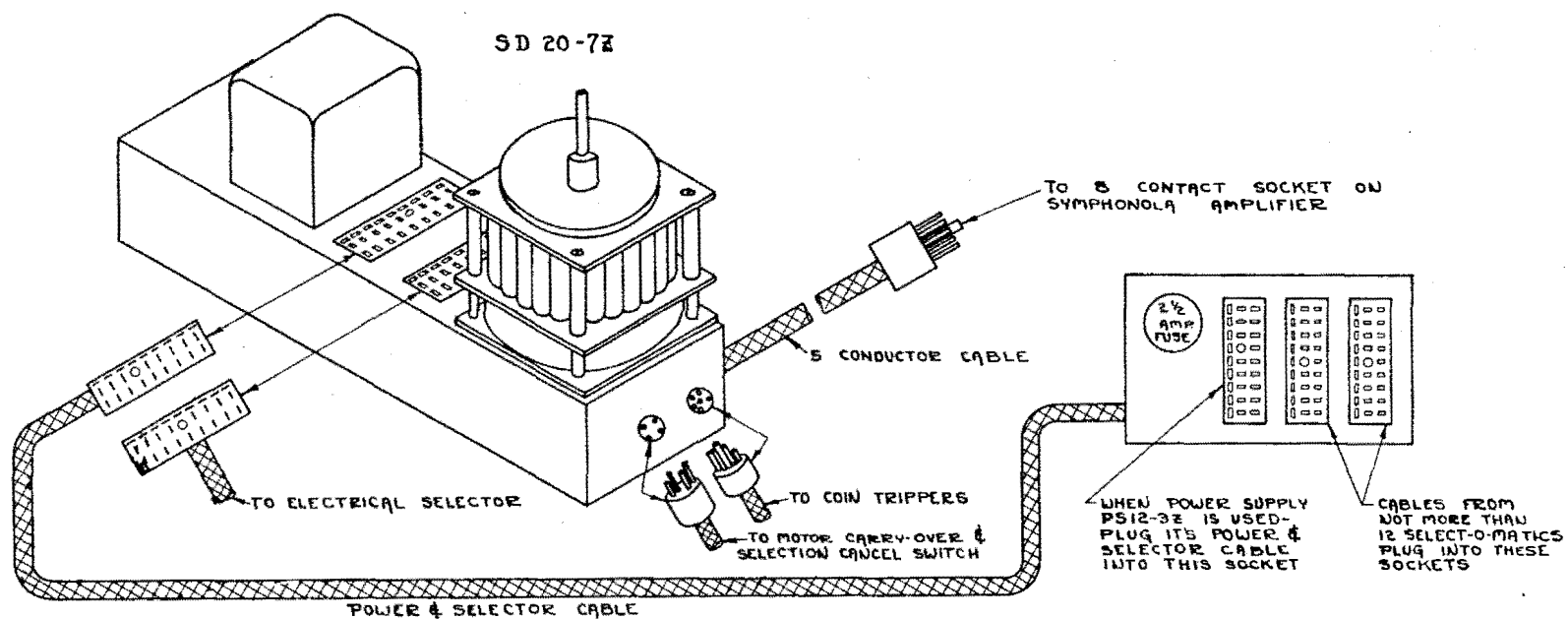
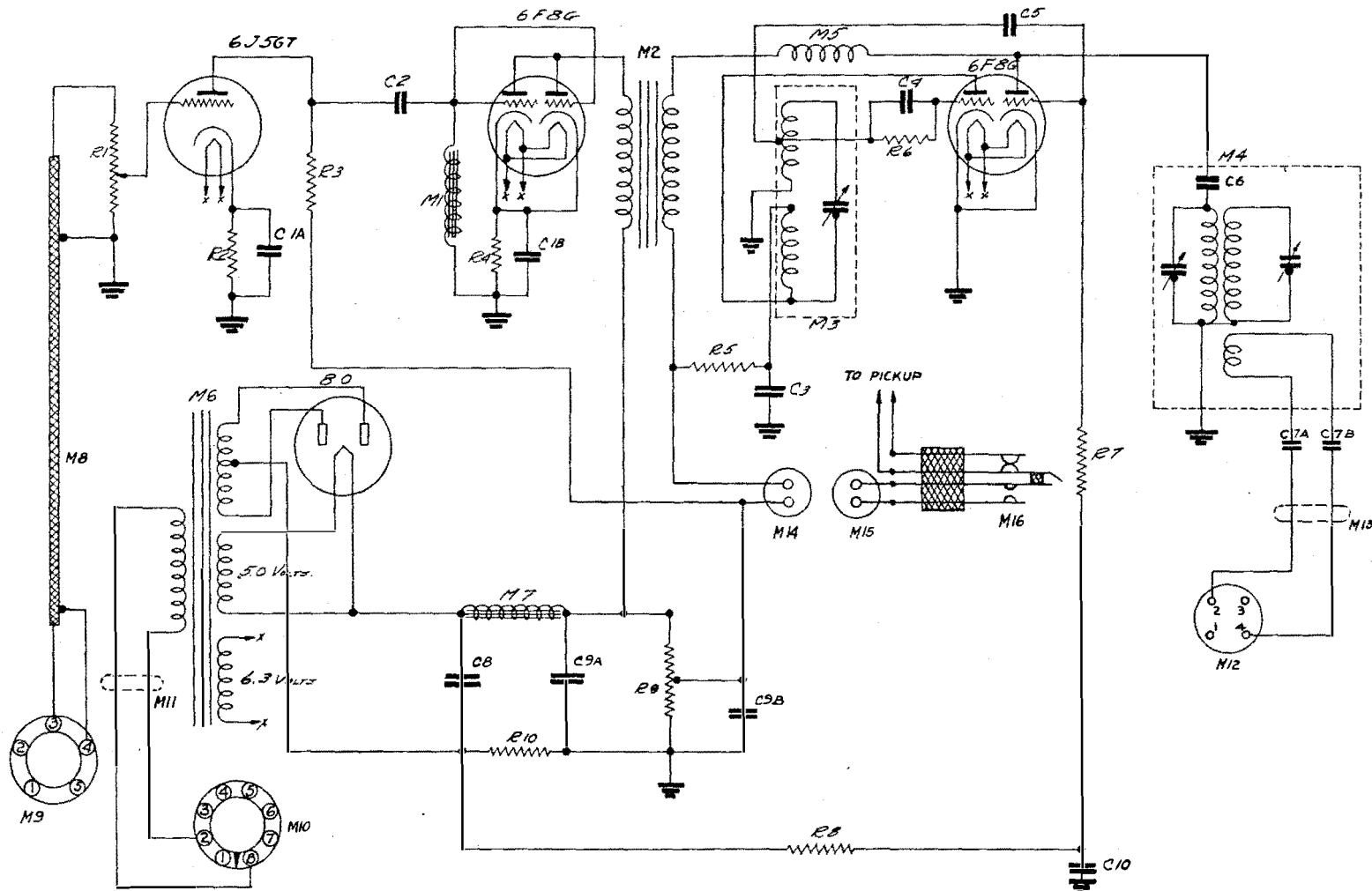


FIG. 25 - SCHEMATIC DIAGRAM OF TYPE T-3Z TRANSMITTER



ITEM	PART NO.	DESCRIPTION	PRICE	ITEM	PART NO.	DESCRIPTION	PRICE	ITEM	PART NO.	DESCRIPTION	PRICE
RESISTORS											
R1	11010	- 250,000 Ohm Variable Modulation Control.	\$.75	C2	85026	- .015 Mfd. 400 V. Tubular. . .	\$.10	M3	30148	- Oscillator Coil Assembly. . .	\$.75
R2	82427	- 1800 Ohm 1/2 Watt ± 10% . .	.07	C3	85013	- .05 Mfd. 400 V. Tubular. . .	.10	M4	30179	- Output Coil Assembly.	1.00
R3	82444	- 47,000 Ohm 1/2 Watt ± 10% . .	.07	C4	85013	- .0005 Mfd. (500 Mmf.) Mica . .	.10	M5	11012	- R-F. Choke. . . . .	.35
R4	82421	- 560 Ohm 1/2 Watt ± 10% . . .	.07			10%		M6	11022	- Power Transformer.	2.25
R5	82441	- 27,000 Ohm 1/2 Watt ± 10% . .	.07	CB7A	85060	- .001 Mfd. (1000 Mmf.) 10% . .	.20	M7	11007	- Filter Choke.	1.25
R6	82444	- 47,000 Ohm 1/2 Watt ± 10% . .	.07	CB7B	85060	- .02 Mfd. 600 V. Tubular. . .	.40	M8	11469	- Input Lead. . . . .	.30
R7	82444	- 47,000 Ohm 1/2 Watt ± 10% . .	.07	C8	87519	- .20 Mfd. 600 V. Tubular. . .		M9	12023	- Input Adapter Plug and Socket Assembly. . . . .	.50
R8	82444	- 47,000 Ohm 1/2 Watt ± 10% . .	.07			- .20 Mfd. 600 V. Tubular. . .		M10	12028	- 8 Prong Plug. . . . .	.25
R9	82436	- 10,000 Ohm 1/2 Watt ± 10% . .	.07	CB9A	87520	- 20 Mfd. 450 V. Lytic.	1.00	M11	12126	- Power Cord. . . . .	.20
R10	11009	- Candohm 1900±53 Ohms. . . .	.50	CB9B	87520	- 30 Mfd. 300 V. Lytic.		M12	11758	- 4 Prong Plug. . . . .	.20
		- Candohm 700 Ohms. . . . .	.20	C10	87521	- 10 Mfd. 50 V. Lytic. . . . .	.25	M13	12126	- Output Cord. . . . .	.20
				MISCELLANEOUS							
CLA	87512	- 20 Mfd. 25 V. Lytic. . . . .	.75	M1	11072	- Bass Choke Assembly.	1.25	M14	12027	- 2 Prong Socket. . . . .	.10
CLB		- 20 Mfd. 25 V. Lytic.		M2	11006	- Modulation Transformer. . . .	1.50	M15	F-3205	- 2 Prong Plug.10
								M16	F-3024	- Pickup Shorting Switch.25

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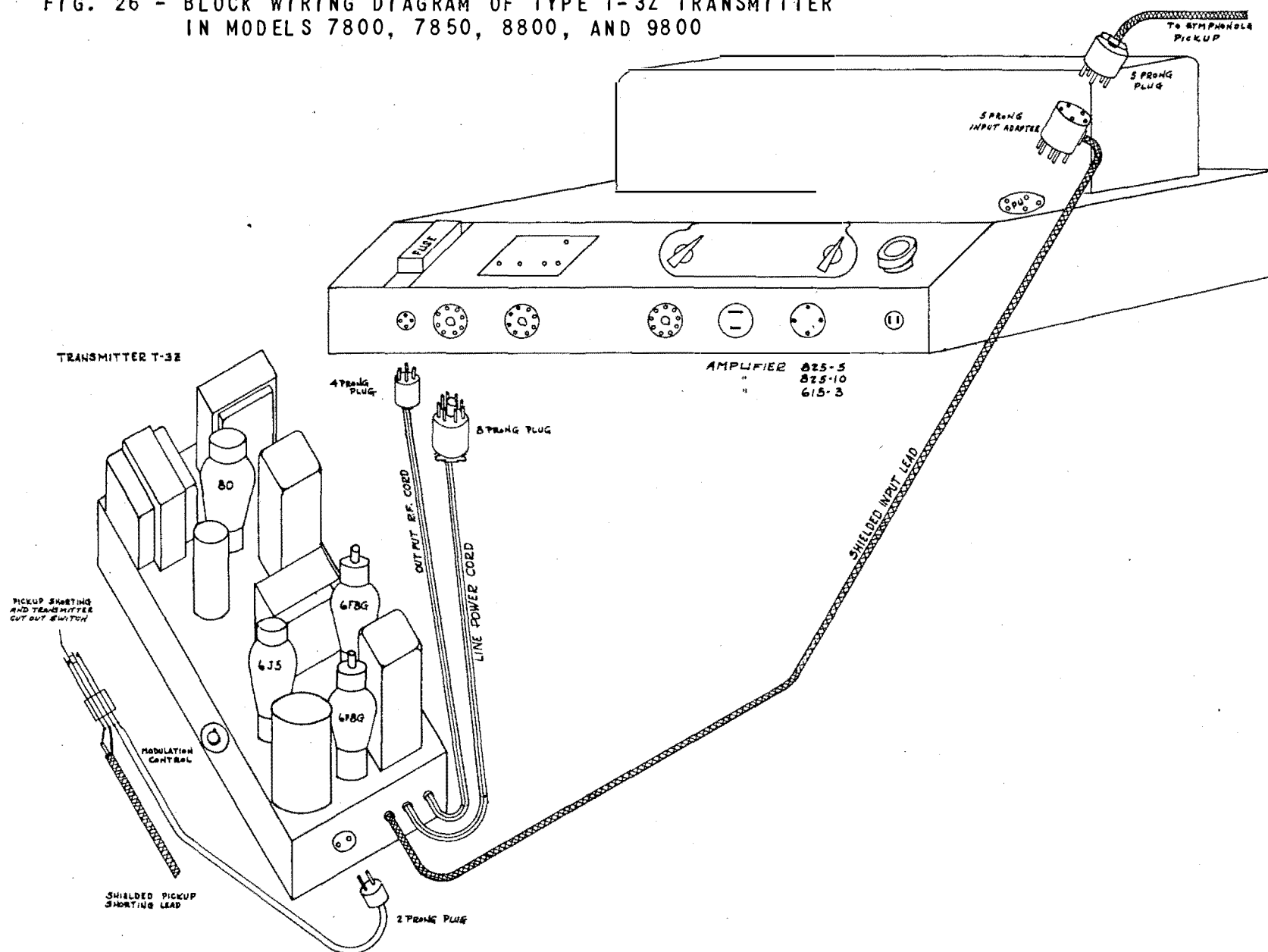
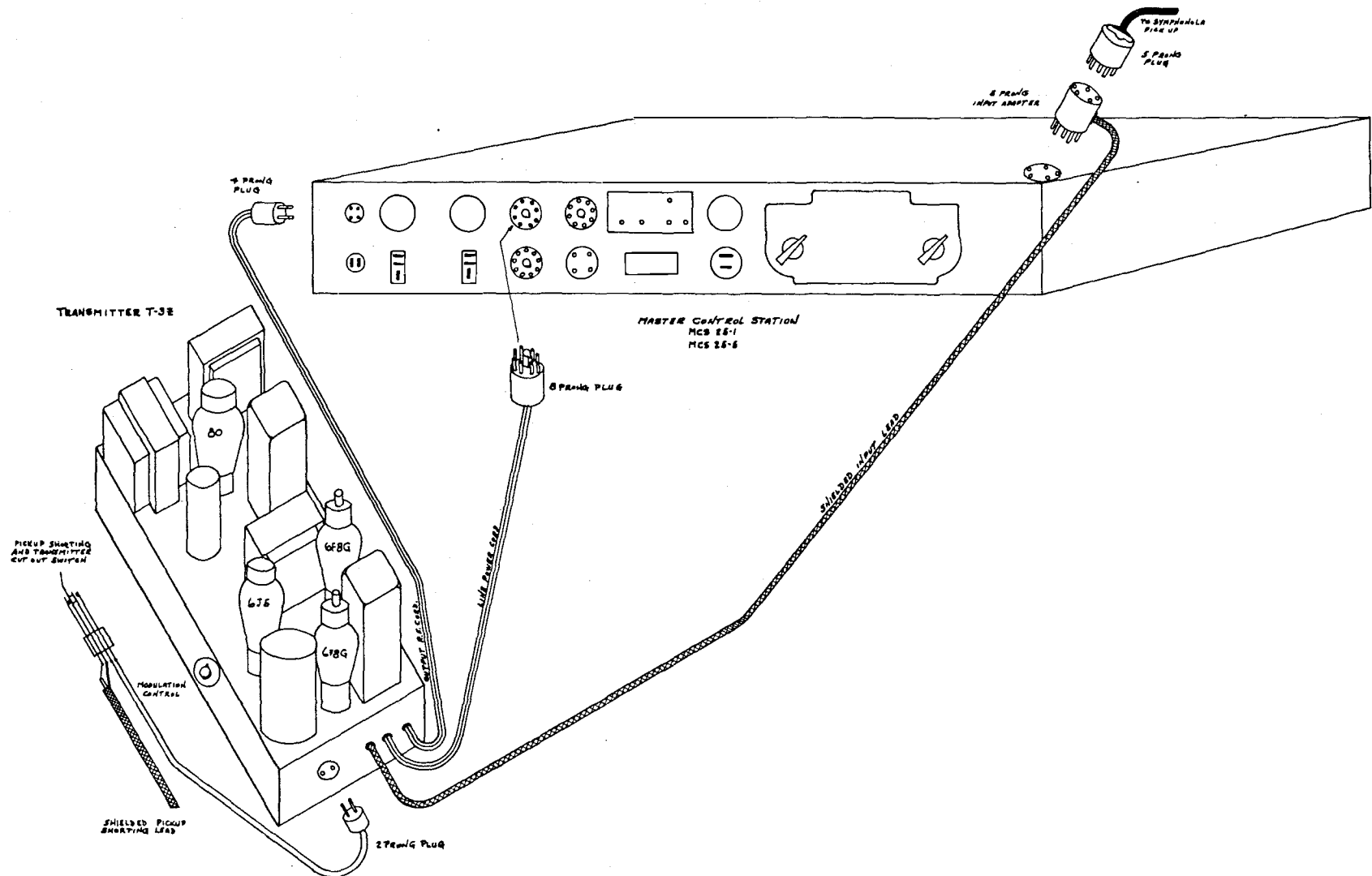


FIG. 27 - BLOCK WIRING DIAGRAM OF TYPE T-3Z TRANSMITTER
IN MODELS RC-7850, RC-8800, AND RC-9800



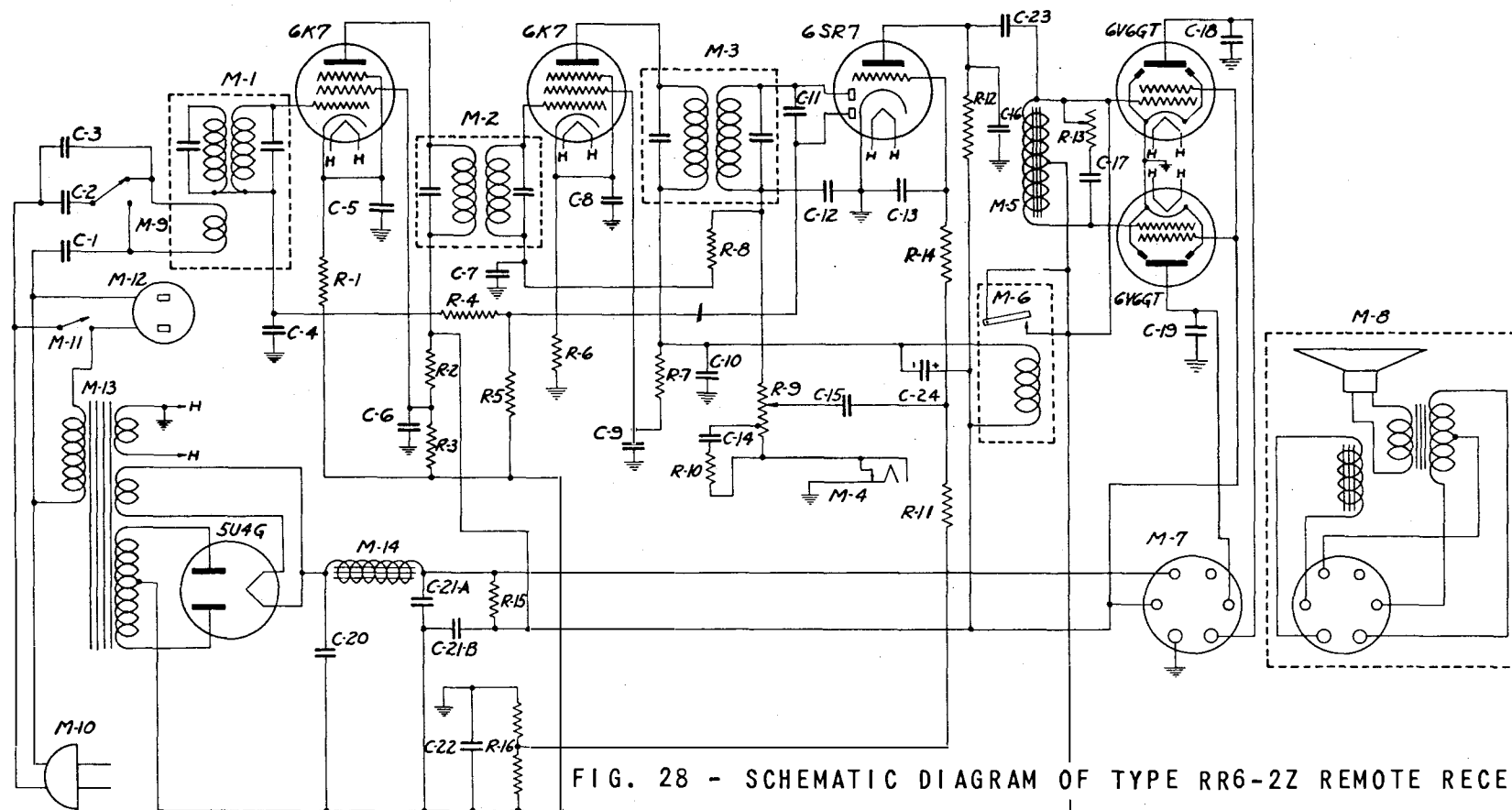
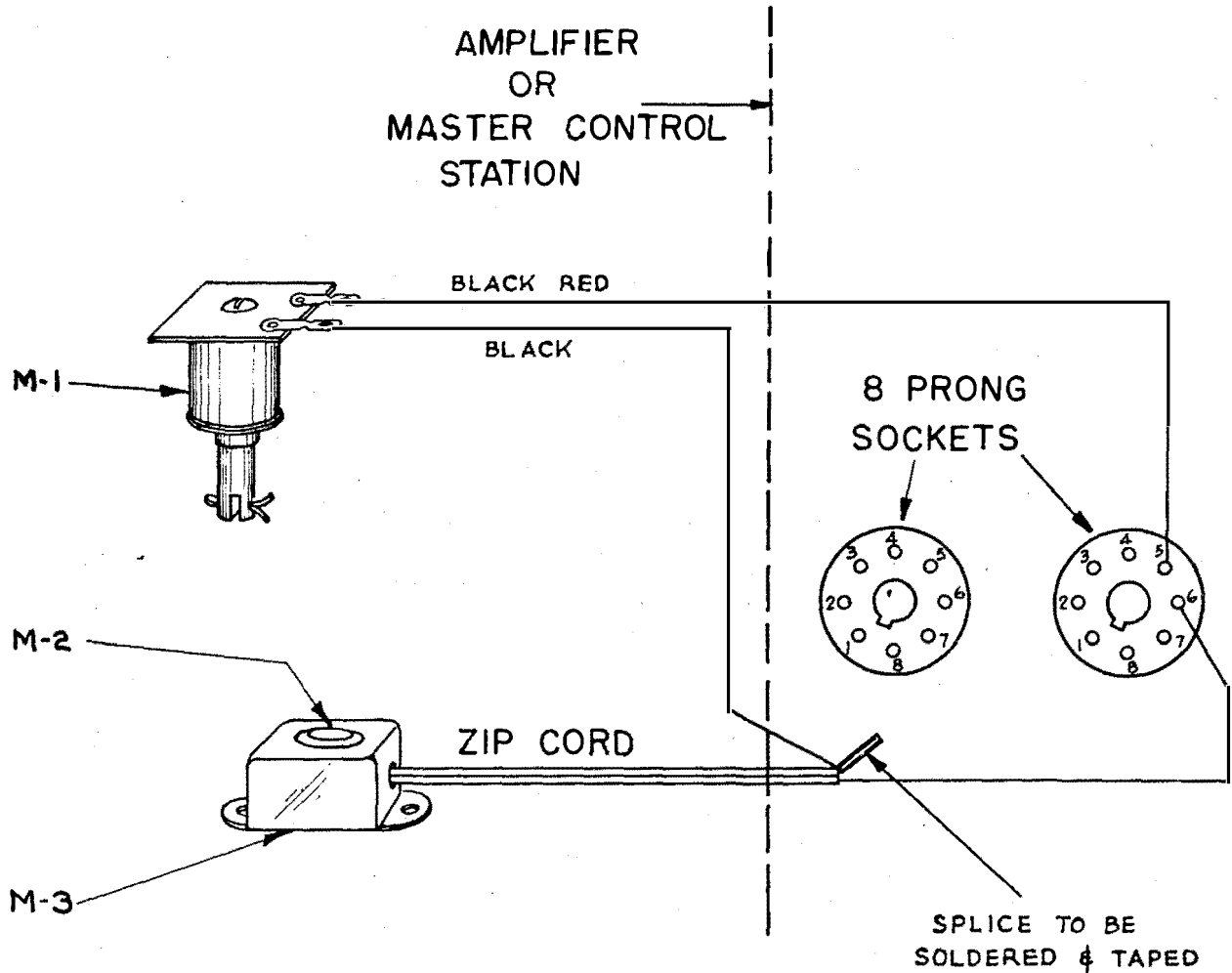


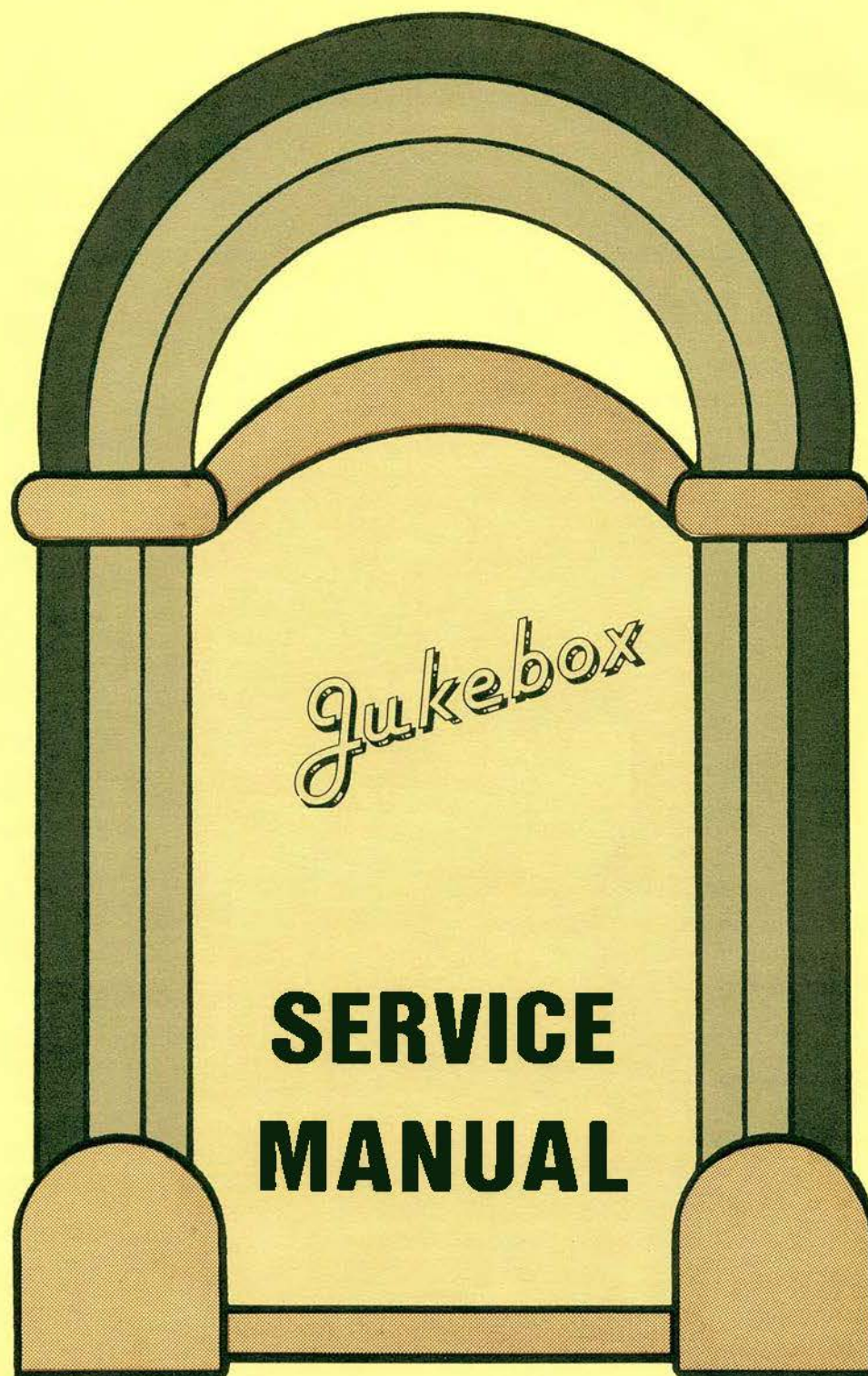
FIG. 28 - SCHEMATIC DIAGRAM OF TYPE RR6-22 REMOTE RECEIVER

ITEM	PART NO.	DESCRIPTION	PRICE	ITEM	PART NO.	DESCRIPTION	PRICE	ITEM	PART NO.	DESCRIPTION	PRICE
RESISTORS				C3	86038	- .005 Mfd. 600 Volt Tub . . .	.10	C23	86032	- .2 Mfd. 400 Volt Tubular . . .	.10
R1	82417	- 270 Ohm 1/2 Watt ± 10% . . .	.07	C4	86009	- .05 Mfd. 200 Volt. . . . .	.10	C24	87539	- 100 Mfd. 50 Volt Electro-lytic. . . . .	.35
R2	82706	- 39,000 Ohm 1 Watt ± 10% . . .	.10	C5	86009	- .05 Mfd. 200 Volt Tubular. . .	.10	MISCELLANEOUS			
R3	82444	- 47,000 Ohm 1 Watt ± 10% . . .	.10	C6	86013	- .05 Mfd. 400 Volt Tubular. . .	.10	M1	30185	- 1st R.F. Coil and Shield Assembly . . . . .	.75
R4	82460	- 1 Meg. Ohm 1 Watt ± 10% . . .	.10	C7	86017	- .2 Mfd. 200 Volt Tubular. . .	.10	M2	30184	- 2nd R.F. Coil and Shield Assembly . . . . .	.75
R5	82460	- 1 Meg. Ohm 1 Watt ± 10% . . .	.10	C8	86009	- .05 Mfd. 200 Volt Tubular. . .	.10	M3	30185	- 3rd R.F. Coil and Shield Assembly . . . . .	.75
R6	82417	- 270 Ohm 1 Watt ± 10% . . .	.10	C9	86013	- .05 Mfd. 400 Volt Tubular. . .	.10	M4	11188	- Jack . . . . .	.35
R7	82445	- 56,000 Ohm 1 Watt ± 10% . . .	.10	C10	86003	- .1 Mfd. 400 Volt Tubular. . .	.10	M5	11400	- Audio Input Choke.	1.00
R8	82460	- 1 Meg. Ohm 1 Watt ± 10% . . .	.10	C11	85017	- .003 Mfd. Mica . . . . .	.20	M6	11403	- Relay and Bracket.	2.00
R9	11152	- 250,000 Ohm Volume Control . .	.75	C12	85000	- .0001 Mfd. Mica. . . . .	.10	M7	84201	- Speaker Socket . . . . .	.10
R10	82440	- 22,000 Ohm 1/2 Watt ± 10% . . .	.07	C13	85000	- .0001 Mfd. Mica. . . . .	.10	M8	11399	- 12" Speaker.	6.00
R11	82460	- 1 Meg. Ohm 1/2 Watt ± 10% . . .	.07	C14	86031	- .02 Mfd. 400 Volt Tubular. . .	.10	M9	11409	- Near-Far Switch. . . . .	.15
R12	82442	- 33,000 Ohm 1/2 Watt ± 10% . . .	.07	C15	86000	- .01 Mfd. 400 Volt Tubular. . .	.10	M10	F-1369	- Line Cord and Plug Assembly. . . . .	.85
R13	11406	- 1 Meg. Ohm Tone Control. . . . .	.50	C16	85010	- .0015 Mfd. Mica. . . . .	.20	M11	11443	- Off-On Switch and Lead Assembly . . . . .	.30
R14	82444	- 47,000 Ohm 1/2 Watt ± 10% . . .	.07	C17	86000	- .01 Mfd. 400 Volt Tubular. . .	.10	M12	11401	- Two Prong Receptacle . . . . .	.20
R15	11398	- 135 Ohm Candohm. . . . .	.15	C18	85010	- .0015 Mfd. Mica. . . . .	.20	M13	11397	- Power Transformer.	3.25
R16	11402	- 105 Ohm Candohm. . . . .	.20	C19	85010	- .0015 Mfd. Mica. . . . .	.20	M14	11396	- Filter Choke	1.25
CONDENSERS				C20	87534	- 50 Mfd. 350 Volt Electro-lytic. . . . .	.65				
C1	86045	- .1 Mfd. 600 Volt Tubular . . .	.10	C21A	87533	- 30 Mfd. 350 Volt Electrolytic . . . . .	.75				
C2	86045	- .1 Mfd. 600 Volt Tubular . . .	.10	C21B	87533	- 30 Mfd. 350 Volt Electrolytic . . . . .	.75				
				C22	87535	- 200 Mfd. 25 Volt Electrolytic . . . . .	.40				

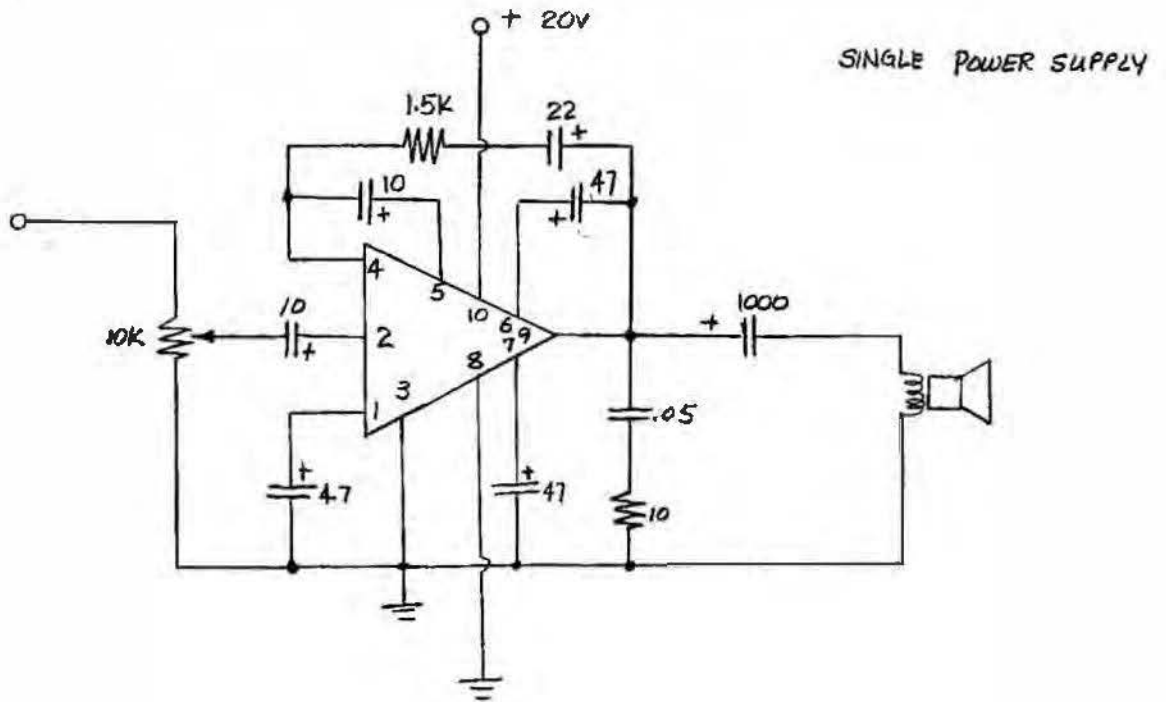
FIG. 29 - BLOCK WIRING DIAGRAM OF TYPE C-5Z REMOTE
SELECTION CANCEL KIT IN 1941 SYMPHONOLAS



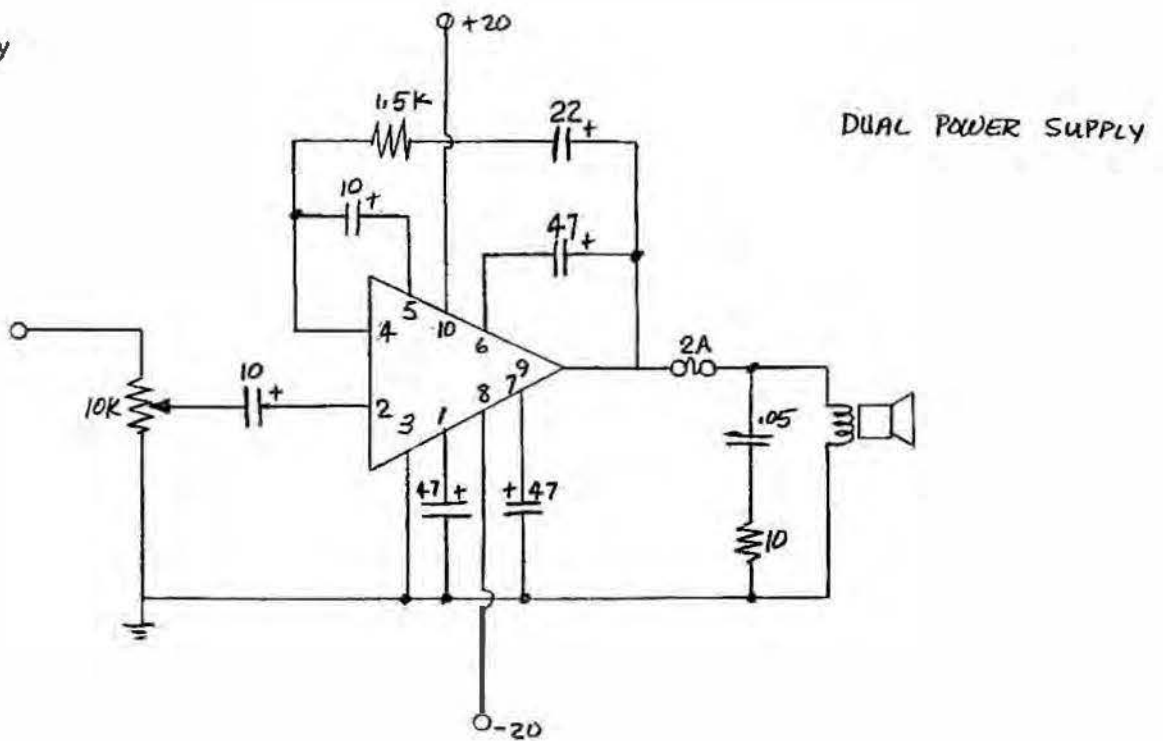
ITEM	PART NO.	DESCRIPTION	PRICE
M1	14121 -	Cancel Solenoid and Plunger	\$ 1.40
M2	12105 -	Cancel Button50
M3	12100 -	Cancel Button Housing25



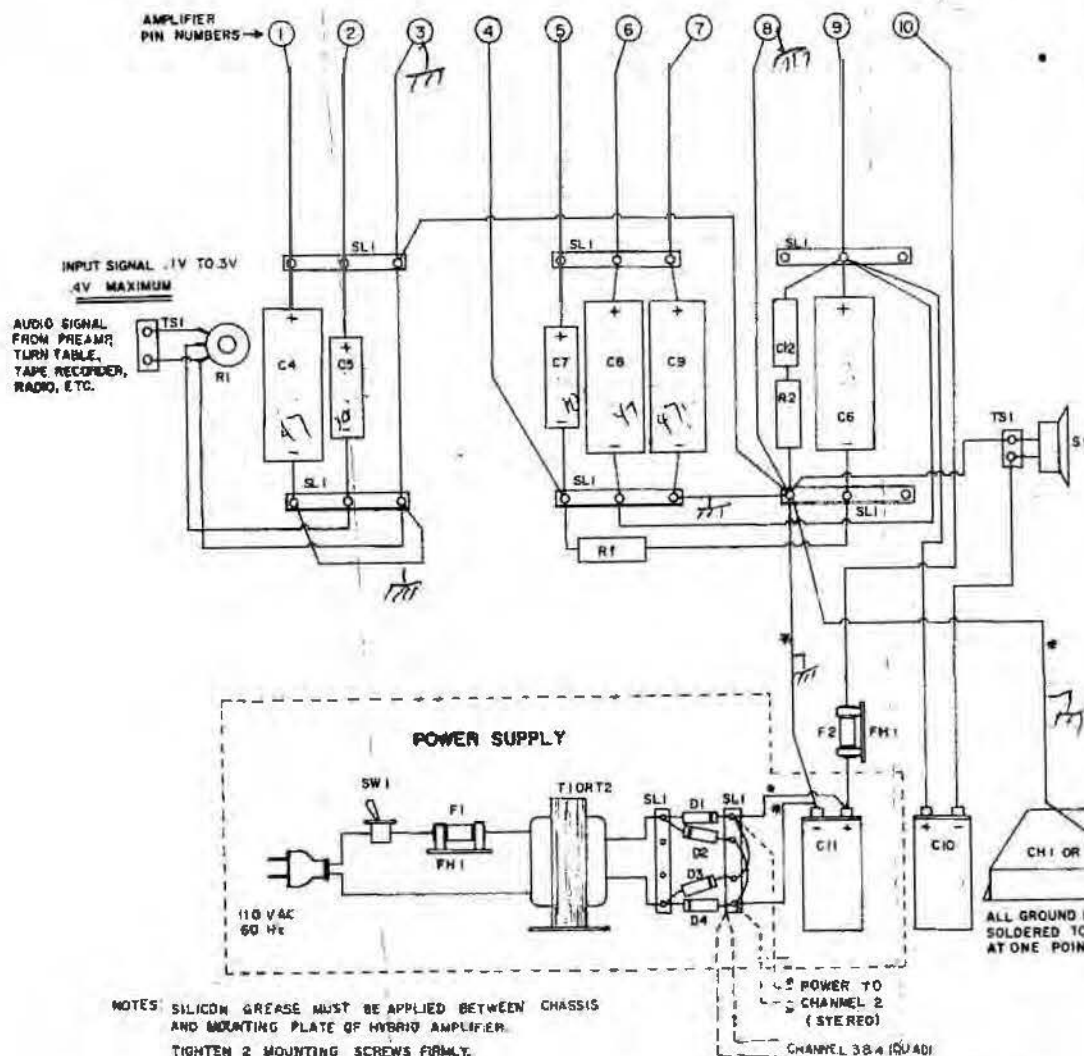
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INSTRUCTIONS FOR ASSEMBLING A BASIC 10 WATT (RMS) SINGLE CHANNEL OR STEREO SOUND SYSTEM

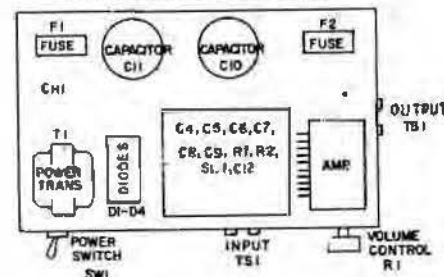


NOTES: SILICON GREASE MUST BE APPLIED BETWEEN CHASSIS AND MOUNTING PLATE OF HYBRID AMPLIFIER.
TIGHTEN 2 MOUNTING SCREWS FIRMLY.
KEEP ALL WIRING AS SHORT AS POSSIBLE
CHECK ALL WIRING CAREFULLY BEFORE TURNING POWER ON

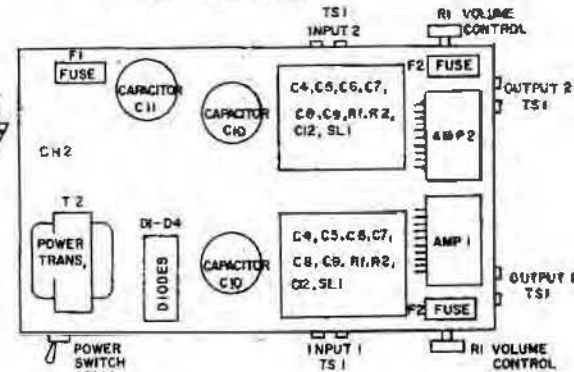
FOR STEREO AND QUAD USE SAME POWER SUPPLY WITH TRANSFORMER AS INDICATED AND DUPLICATE REMAINING CIRCUIT AS REQUIRED FROM PARTS LIST

CODE	PARTS LIST	QTY SINGLE	QTY STEREO	QTY QUAD
AMP	SANKEN HYBRID POWER IC # SI-1010-Y	1	2	4
R1	VOLUME CONTROL 10K OHMS 2 WATT	1	2	4
R2	RESISTOR 1500 OHMS 1/2 WATT	1	2	4
R2	RESISTOR 10 OHMS 1/4 WATT	1	2	4
C4	CAPACITOR ELECTROLYTIC 47MFD 50VDC	1	2	4
C5	CAPACITOR ELECTROLYTIC 10MFD 16VDC	1	2	4
C7	CAPACITOR ELECTROLYTIC 10MFD 16VDC	1	2	4
C8	CAPACITOR ELECTROLYTIC 47MFD 50VDC	1	2	4
C9	CAPACITOR ELECTROLYTIC 47MFD 50VDC	1	2	4
C12	CAPACITOR .05MFD 50VDC	1	2	4
C6	CAPACITOR ELECTROLYTIC 22MFD 50VDC	1	2	4
C11	CAPACITOR ELECTROLYTIC 1800 TO 2500MFD 50VDC	1	1	1
C10	CAPACITOR ELECTROLYTIC 1000 TO 3000MFD 50VDC	1	2	4
DI-D4	DIODES 1 AMP 100V PIV	4	4	4
F1	FUSE 1 AMP QUICK-BLOW	1	1	1
F2	FUSE 1 AMP QUICK-BLOW	1	2	4
FH1	FUSE HOLDER	2	3	5
T1	TRANSFORMER 110V PRI. 24V SEC. 1 AMP	1	—	—
T2	TRANSFORMER 110V PRI. 24V SEC. 1.5 AMP	—	1	1
SW1	SWITCH S.P.S.T. 110V RATING	1	1	1
SL1	SPEAKER 8 OHMS 10 WATT MINIMUM	1	2	4
SL1	SOLDER LUG TERMINAL STRIP	8	14	26
TS1	TERMINAL STRIP (INPUT & OUTPUT) 2 LUG	2	4	8
CH1	CHASSIS 18 GA ALUM 2"x6"x1/2"	1	—	A.R.
CH2	CHASSIS 18 GA ALUM 2"x6"x1/4"	—	1	A.R.
—	WIRE 16 AWG	A.R.	A.R.	A.R.
—	WIRE 20 AWG	A.R.	A.R.	A.R.

TYPICAL LAYOUT (SINGLE CHANNEL)

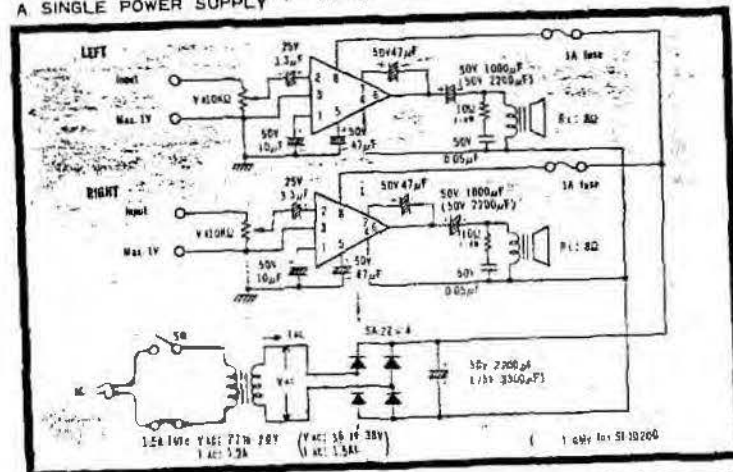


TYPICAL LAYOUT (STEREO)

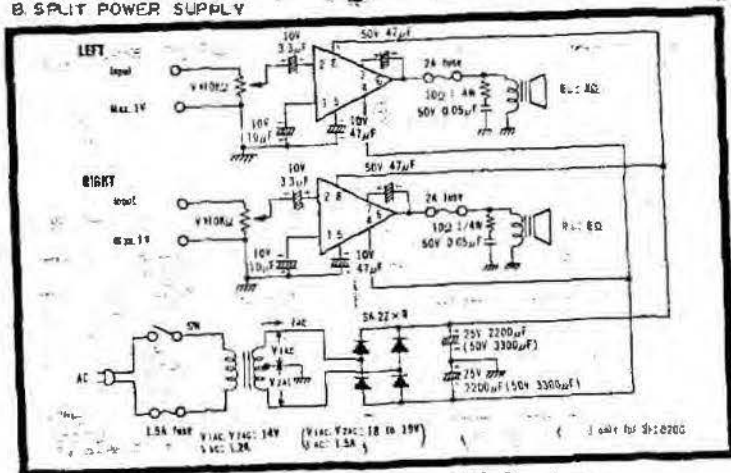


RECOMMENDED CONNECTIONS (SI-1010G & SI-1020G)

A SINGLE POWER SUPPLY



B. SPLIT POWER SUPPLY



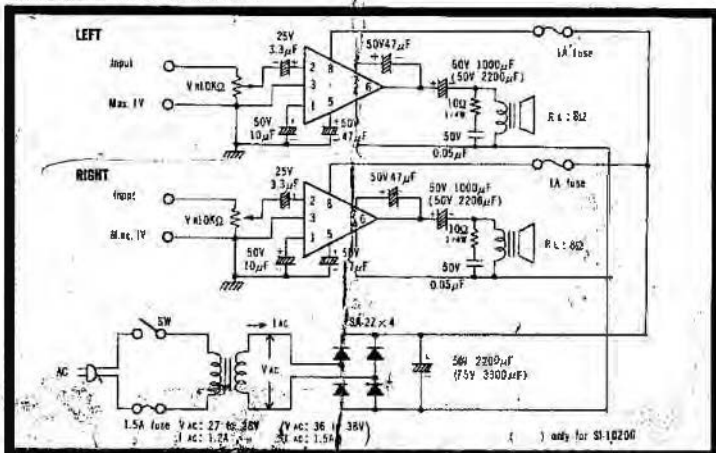
ELECTRICAL CHARACTERISTICS

Characteristic	SI-1010G	SI-1020G	SI-1030G	SI-1050G
Maximum rms Power	10W	20W	30W	50W
Output Load	8 ohms	8 ohms	8 ohms	8 ohms
Supply Voltage	30V or ±12V	45V or ±23V	54V or ±27V	66V or ±33V
Absolute Max. Supply Voltage	45V or ±22.5V	55V or ±27.5V	66V or ±33V	80V or ±40V
Supply Current (avg.)	0.50A	0.72A	0.96A	1.1A
Protective Fusing	1A Quick Blow	1A Quick Blow	1.5A Quick Blow	2A Quick Blow
Harmonic Distortion at Full Output	0.5% max.	0.5% max.	0.5% max.	0.5% max.
Input Voltage	0.30V typ.	0.45V typ.	0.54V typ.	0.70V typ.
Maximum Input Voltage (p-p)	10V	10V	10V	10V
Voltage Gain Full Feedback (P _o =1W)	30dB typ.	30dB typ.	30dB typ.	30dB typ.
Input Impedance	40,000 ohms typ.	40,000 ohms typ.	40,000 ohms typ.	40,000 ohms typ.
Output Impedance (P _o =1W)	0.2 ohm typ.	0.2 ohm typ.	0.2 ohm typ.	0.2 ohm typ.
Load Current (rms)	0.33A typ.	1.58A typ.	2.00A typ.	2.50A typ.
Load Current (p-p)	2.52A typ.	4.45A typ.	5.66A typ.	7.00A typ.
Output Voltage (rms)	8.9V typ.	12.7V typ.	15.0V typ.	20.0V typ.
Signal to Noise Ratio (Input Shorted)	90dB typ.	90dB typ.	90dB typ.	90dB typ.
Idling Current	20mA typ.	20mA typ.	20mA typ.	20mA typ.
Frequency Range (P _o =1W)	20Hz to 100kHz	20Hz to 100kHz	20Hz to 100kHz	20Hz to 100kHz
Power Bandwidth (1-3dB)	20Hz to 20kHz	20Hz to 20kHz	20Hz to 20kHz	20Hz to 20kHz
Operating Temperature	-10°C to +70°C	-20°C to +80°C	-25°C to +80°C	-30°C to +80°C
Storage Temperature	-25°C to +85°C	-30°C to +100°C	-30°C to +100°C	-30°C to +100°C
Built-in Protection			current limiting	current limiting

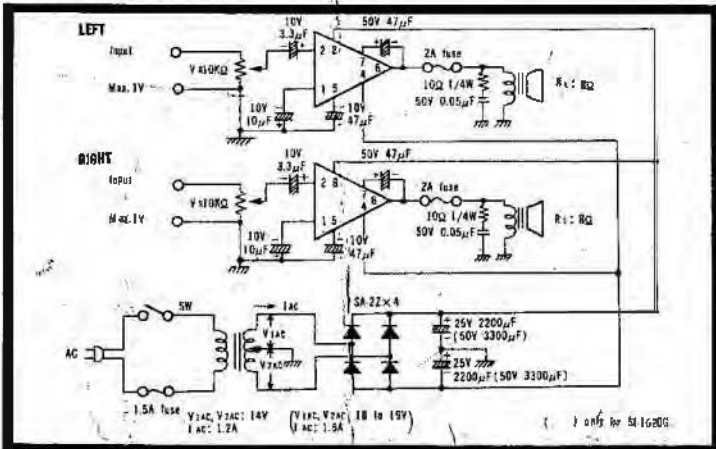
At 25°C ambient, 1kHz, R_L=8 ohms

RECOMMENDED CONNECTIONS (SI1010G & SI1020G)

A. SINGLE POWER SUPPLY



B. SPLIT POWER SUPPLY



ELECTRICAL CHARACTERISTICS

Characteristic	SI-1010G	SI-1020G	SI-1030G	SI-1050G
Maximum rms Power	10W	20W	30W	50W
Output Load	8 ohms	8 ohms	8 ohms	8 ohms
Supply Voltage	34V or $\pm 17V$	46V or $\pm 23V$	54V or $\pm 27V$	66V or $\pm 33V$
Absolute Max. Supply Voltage	45V or $\pm 22.5V$	55V or $\pm 27.5V$	60V or $\pm 30V$	80V or $\pm 40V$
Supply Current (ave.)	0.50A	0.72A	0.86A	1.1A
Protective Fusing	1A Quick Blow	1A Quick Blow	1.5A Quick Blow	2A Quick Blow
Harmonic Distortion at Full Output	0.5% max.	0.4% max.	0.5% max.	0.5% max.
Input Voltage	0.30V typ.	0.30V typ.	0.32V typ.	0.70V typ.
Maximum Input Voltage (c.p.)	10V	10V	10V	10V
Voltage Gain Full Feedback ($P_o=1W$)	30dB typ.	30dB typ.	30dB typ.	30dB typ.
Input Impedance	40,000 ohms typ.	40,000 ohms typ.	40,000 ohms typ.	40,000 ohms typ.
Output Impedance ($P_o=1W$)	0.2 ohm typ.	0.2 ohm typ.	0.2 ohm typ.	0.2 ohm typ.
Load Current (rms)	0.88A typ.	1.58A typ.	2.00A typ.	2.50A typ.
Load Current (p-p)	2.52A typ.	4.45A typ.	5.66A typ.	7.00A typ.
Output Voltage (rms)	8.9V typ.	12.7V typ.	16.0V typ.	20.0V typ.
Signal to Noise Ratio (Input Shorted)	90dB typ.	90dB typ.	90dB typ.	90dB typ.
Idling Current	20mA typ.	20mA typ.	20mA typ.	20mA typ.
Frequency Range ($P_o=1W$)	20Hz to 180kHz	20Hz to 100kHz	20Hz to 100kHz	20Hz to 100kHz
Power Bandwidth ($-3dB$)	20Hz to 20kHz	20Hz to 20kHz	20Hz to 20kHz	20Hz to 20kHz
Operating Temperature	$-10^{\circ}C$ to $+70^{\circ}C$	$-20^{\circ}C$ to $+80^{\circ}C$	$-20^{\circ}C$ to $+80^{\circ}C$	$-20^{\circ}C$ to $+80^{\circ}C$
Storage Temperature	$-25^{\circ}C$ to $+85^{\circ}C$	$-30^{\circ}C$ to $+100^{\circ}C$	$-30^{\circ}C$ to $+100^{\circ}C$	$-30^{\circ}C$ to $+100^{\circ}C$
Built-in Protection	—	—	current limiting	current limiting
At 25°C ambient, 1kHz, $R_L=8$ ohms				

TRM-40B

