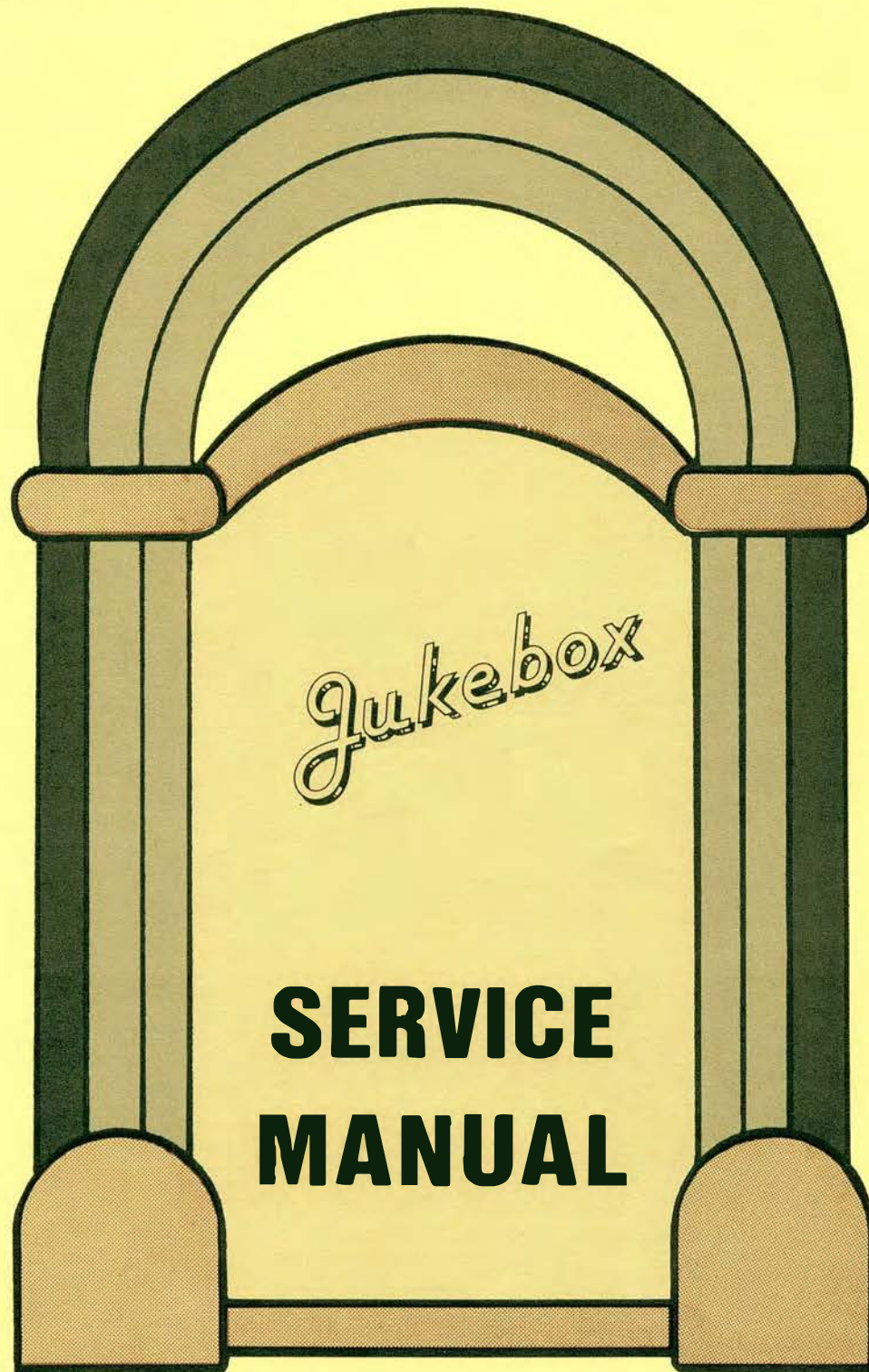


SEEBURG SYMPHONOLA



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 CHOME	--	--	--	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 SR-112QWR	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 10336 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	7850 ES	8800 ES	8800 RC
AMPLIFIER	625-3 625-3C 625-3Z 625-3Y(25) 625-3YC(26)	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 2-6F8G 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 2-5L6 1-2051 1-5Y3G
POWER TRANSFORMER	3-3C: 10710 3Z : 11192 3Y-3YC: 11191	AMP: 11307 S.R.: 11310	3: 12057 3Y: 12079	12059	AMP: 12204 S.A.: 12203
INPUT TRANS.	10711	11309	10711	--	12205
OUTPUT TRANS.	11341	11308	11341	--	12207
MODULATION TRANS.	--	11008	--	--	--
25 VOLT TRANSF.	--	--	3: 12663 3Y: 12080	--	12221
6 VOLT TRANS.	--	--	--	--	12215
LIGHTING TRANS.	--	--	--	--	F-7813
FILTER CHOKE-AMP. S.R.	-- --	11036 --	10036 --	11316 --	12223 11308
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	--	30248	--	--	--
BASS CONTROL	10887	10039	10887	10039	10039
TREBLE CONTROL	10888	10888	10888	--	10888
SENSITIVITY CONT.	--	11315	--	--	11315
MODULATION CONT.	--	12010	--	--	--
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-7734A	--	--	--	--
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 2-6K7 1-6X5GT 1-6SQ7 1-6H6 1-5U4G 2-6L6 1-2051 1-5Y3G	3-6J5GT 2-6K7 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.	12068	12203	12203
OUTPUT TRANS.	12068	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-1544
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 1-6Y3C
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-12	T-52 T-32
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	11008
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	RR5-12	RR6-2Z	RR6-6Z
		RR8-3Z	
Tubes used	2-6X7 1-6B8 1-2A3 1-6Z5	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 cr 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	2-6X7 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	11315	11315

POWER SUPPLIES

Unit	Transformer
SFS-12	11213
SFS-32	14182
SPS-62	11213
SPS-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	RR3-FZ	--	--
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

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FILTER CHOKES

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WC-1002V	Use 10036
WC-1006H	Use 10240
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 " " "
23230	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.	

TOPE 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 11482 by changing 2A4G tube to 2051 (connecting 2051 heater terminals to 615G socket) and tape up 25-volt leads. Substitute 11388. 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

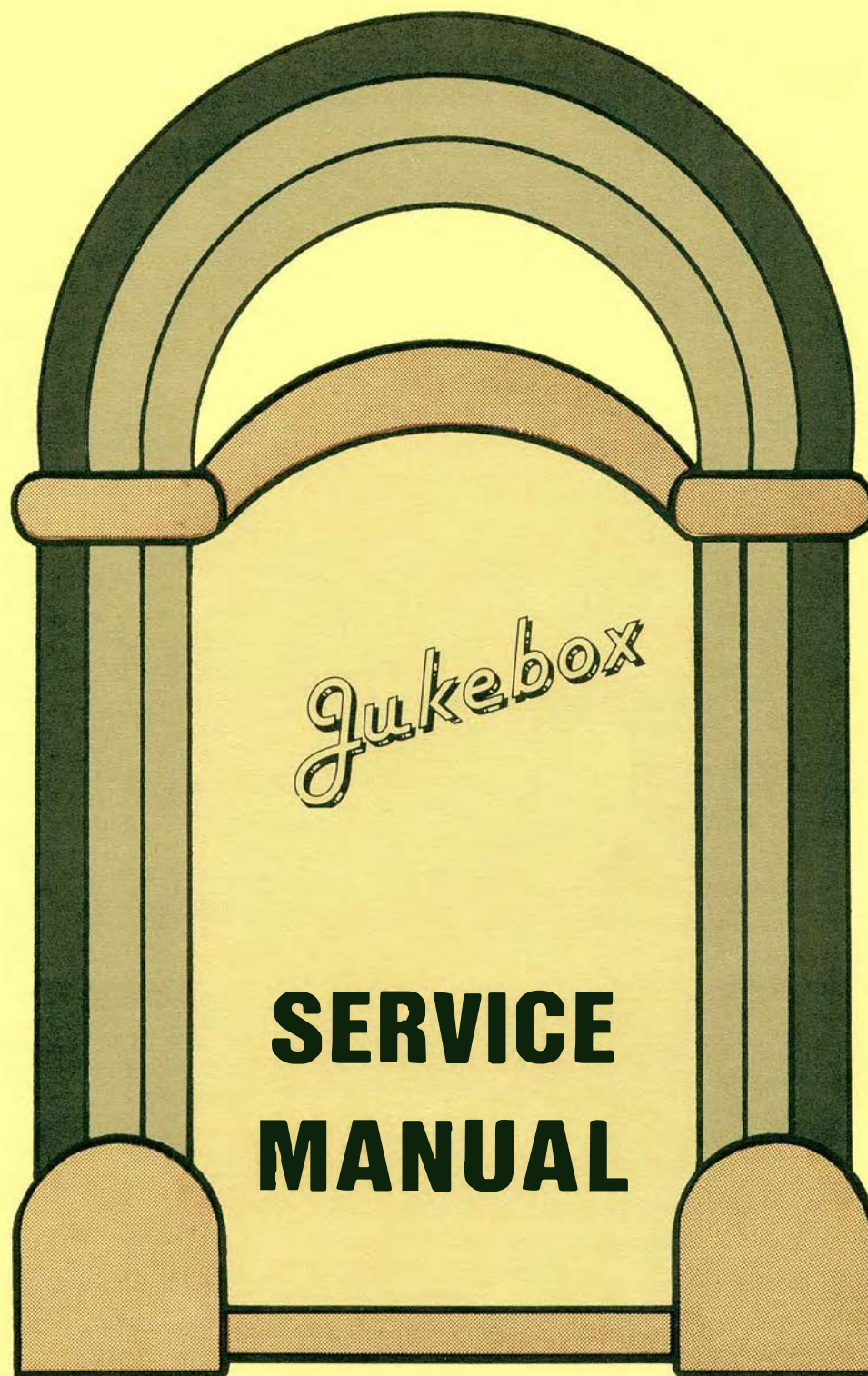
11194	No substitute.
11195	Substitute 10792
11213	" 12211, 12063
11307	No substitute.
11310	No exact substitute. Use 12202 and change amplifiers to use 2051 tube in place of 2A4G.
11388	No exact substitute. Use 11493 and change amplifier to use 2051 tube in place of 2A4G.
11397	No substitute.
11462	" "
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
12073	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)



Jukebox

**SERVICE
MANUAL**

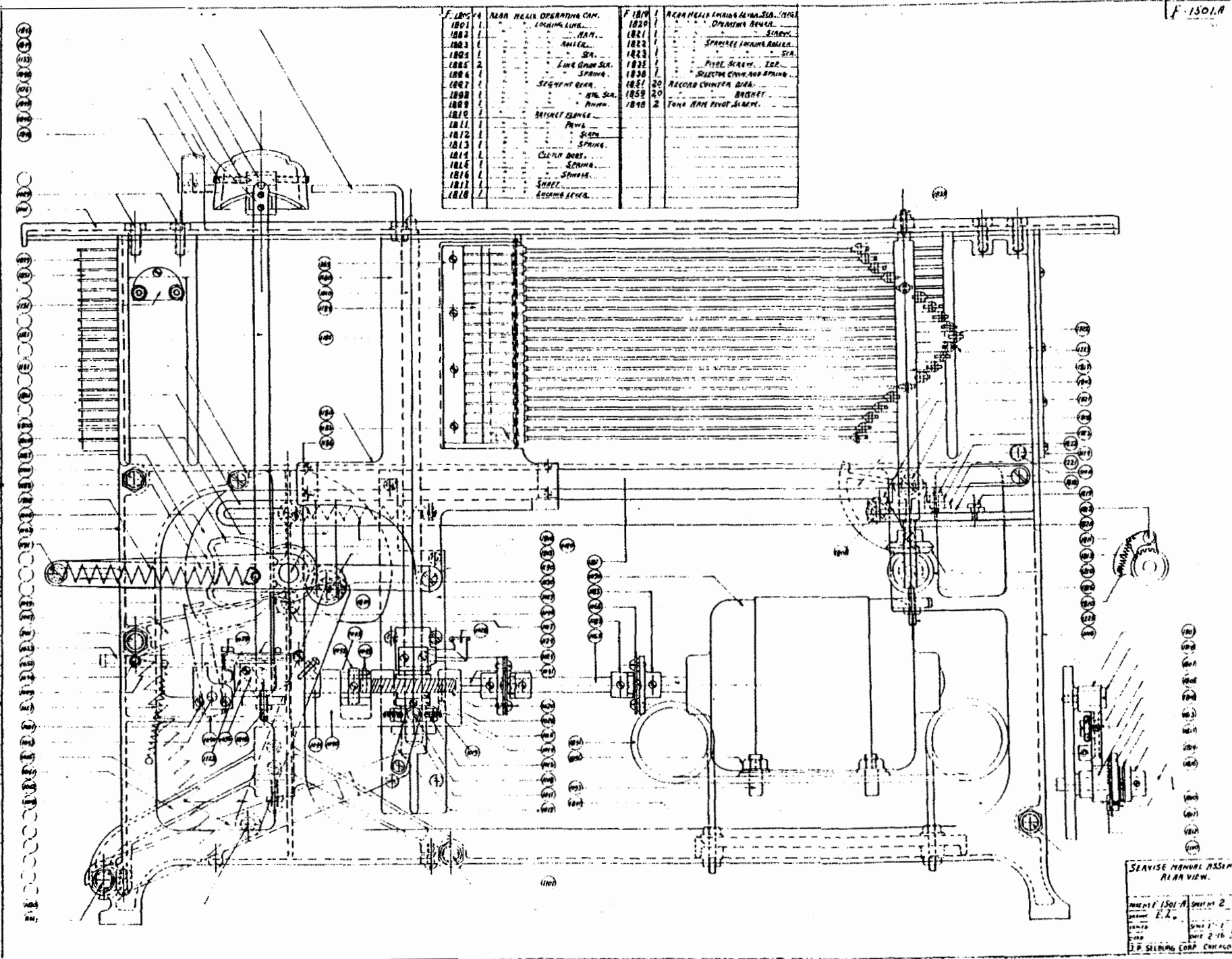
INSTRUCTION BOOK, MECHANISM
CHARTS, WIRING DIAGRAMS AND
AMPLIFIER CIRCUITS COVERING
THE 20-RECORD MODELS: GEM,
REGAL AND CONCERT GRAND
SEEBURG SYMPHONOLAS

1-15-38

F-1501A

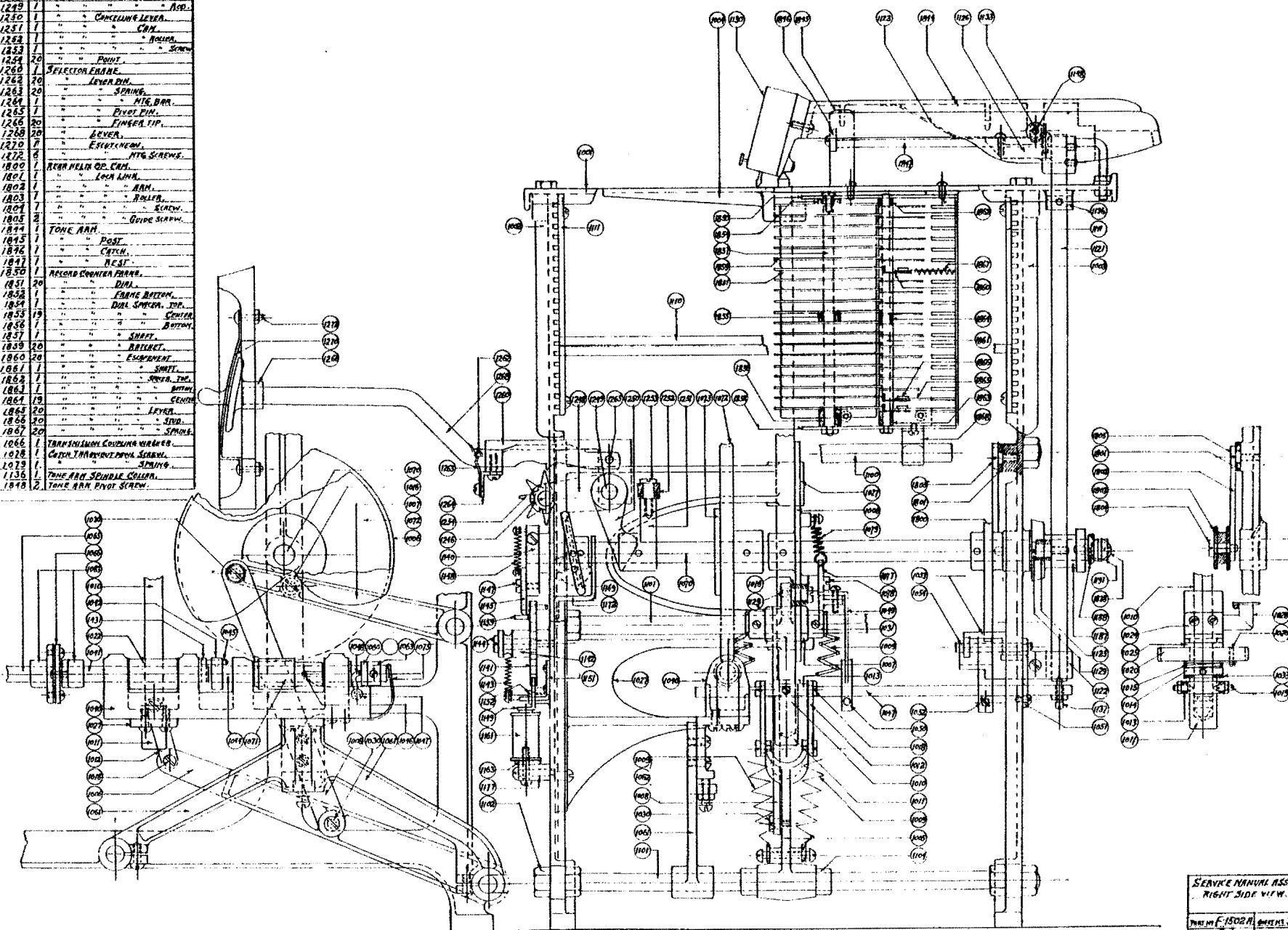
TOP SHELF.
ACRA FRANGE.
MONTIQUE ELEVATION LEVER.
CASH.
LEVER.
CASH ADD.
SPRINGS.
SPRINGS.
2 TRASH DRAWERS.
LAST
AIR.
CUTTER ADD.
SPRING.
LIFTING CASH DRAWER.
LASH SCREEN.
HAND WASHING PUMP ADD.
DRIVE MOTOR ADD.
ALUMINUM
FIN.
SPRINGER DETECTOR
OIL CARD.
TOP SHELF RITE SCREEN.
HAND WASHING ELEVATION SPRINGER ADD.
HANDSHOWER DRAWING.
SINKET
CUTTER.
SINKET OVERFLOW.
WASH SHAPE
PUMP
CENTRAL HEATING ADD.
LASH.
AIR.
ADD HEATING.
AFTERMATH LASH.
TONE.
FIN.
RELEASE PUMP.
TRASH PUMP.
CUTTER.
DRAWING ADD.
HANDSHOWER DRAWING.
MOTOR DRIVE SHAPE.
CUTTER.
CASH SHAFT
HANDSHOWER DRIVE SHAPE ADD.
MOTOR
RITE SHAFT.
MUT.
FRAME THE ADD.
HANDSHOWER.
CUT
CASH ADD SPRINGER.
TRASH ADD LASH.
BASKET ADD.
DRAWING SPRINGER ADD.
ROAD THERMAL
ELEVATION SHAPE
AIR.
PUMP.
SPRING.
FIN.
AFTERMATH PUMP.
CASH
CASH ADD
SINKET
SINKET ADD
DETACH BEAR.
AIR.
AIR.
HAND WASHING SHAPE.
SPRING
SPRING
PUMP SPRINGER BASKET.
TONE ADD PUMP SHAFT.
SELECTOR SHAFT SPRINGER SHAFT.
SPRING SPRINGER BASKET.

F 1805	1	ACCA HEAD OPERATING CAMP.	F 1819	1	ACCA HEAD LOADING AREA. SEC. 100
1801	1	LOCALITY LINE.	1820	1	OPERATING AREA.
1802	1	NAM.	1821	1	SCAFF.
1803	1	ROLLER.	1822	1	SPACER INSURING ROLLER.
1804	1	SA.	1823	1	SA.
1805	2	LINE UNDER SEC.	1824	1	PISTOL SCAFF. TOP.
1806	4	SPRING.	1825	1	SELECTOR CAME AND SPRING.
1807	1	SEQUENT BEAR.	1826	20	RECORD COUNTER BEAR.
1808	1	ONE SA.	1827	20	DRISSET.
1809	1	ARM.	1828	2	TONE ARM PIVOT SCAFF.
1810	1	ATTRACT PLANCE.			
1811	1	PISTOL.			
1812	1	SA.			
1813	1	SPRING.			
1814	1	CALIB. BOX.			
1815	1	SPRING.			
1816	1	SPRING.			
1817	1	SHOCK.			
1818	1	ARMING SEVER.			

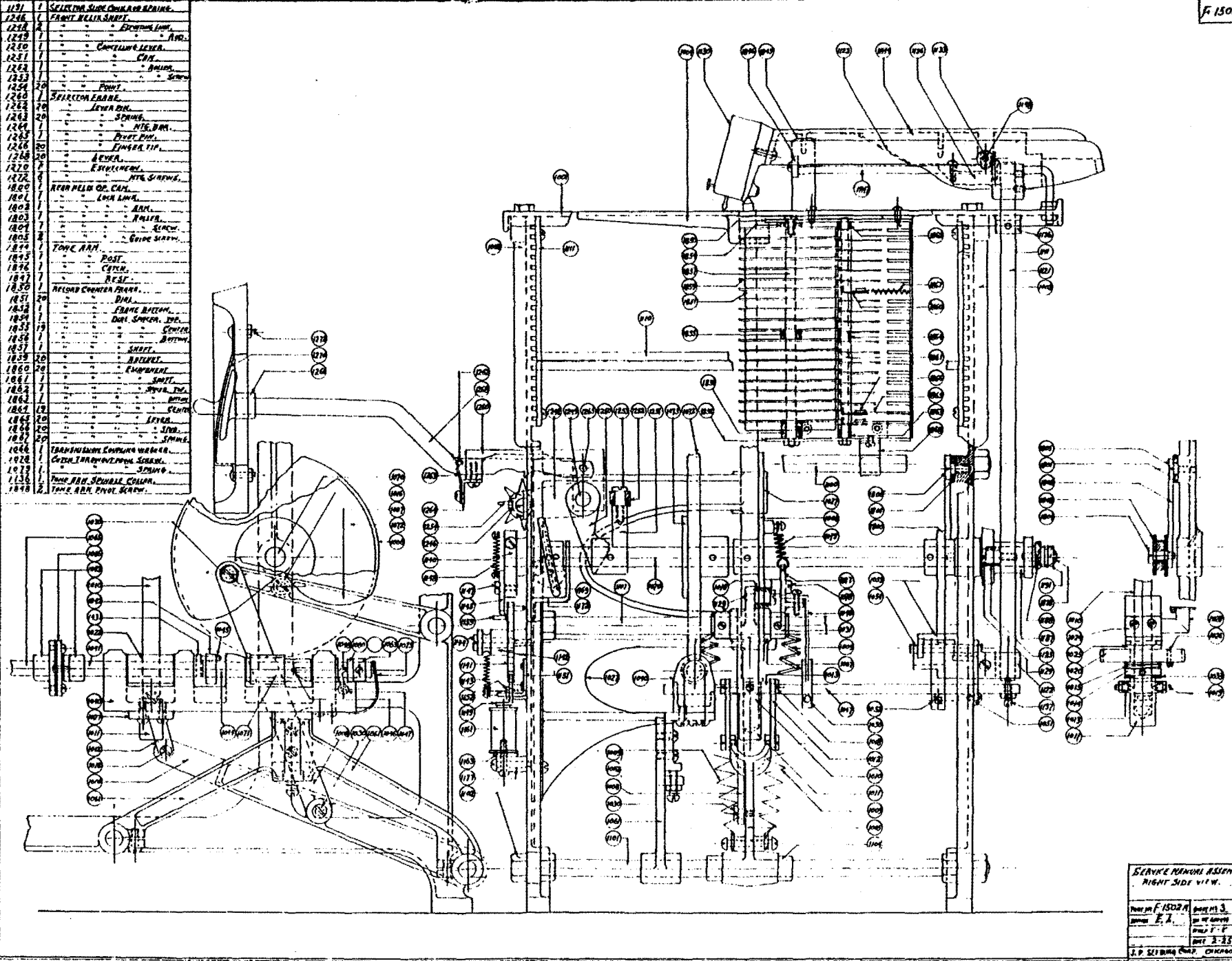


PAGE 1501-A SHEET 2
 DRAWN E.L.
 SCALE 1" = 1'
 DATE 2-16-35
 J.P. SELLERS CORP CHICAGO

NO.	QTY.	DESCRIPTION
1001	1	TOP SHELF
1002	1	FRONT FRAME
1003	1	REAR
1004	1	TURN TABLE
1005	1	ELECTRIC MOTOR
1006	1	GEAR
1007	1	COMM. ROD
1008	1	SPRING
1009	1	SPRING
1010	1	SPRING
1011	1	SPRING
1012	1	SPRING
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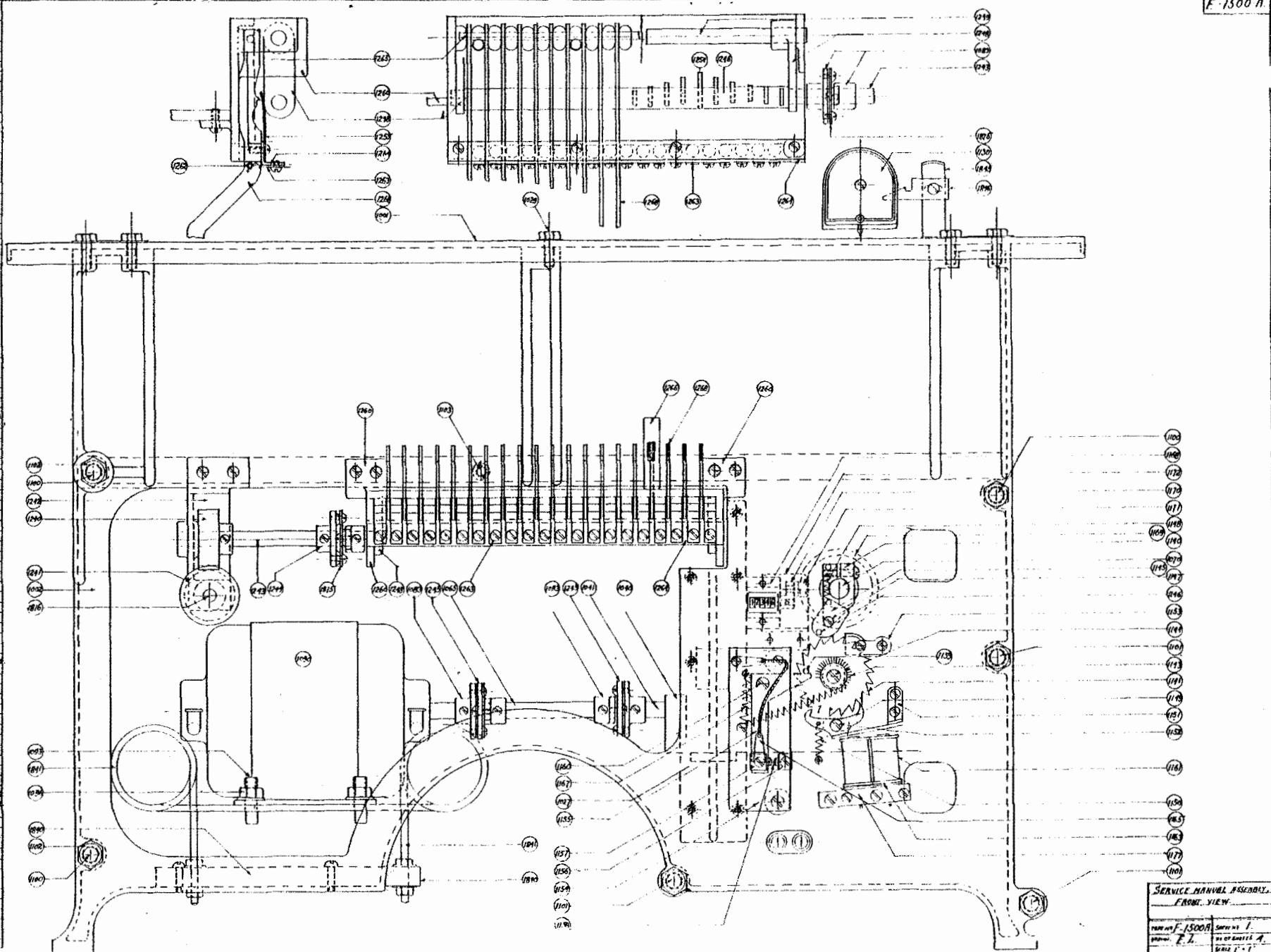
ITEM	DESCRIPTION	ITEM	DESCRIPTION
1	SELECTION SLIDE	1191	SELECTION SLIDE CHAIN AND BEARING
2	FRONT BEARING	1248	FRONT BEARING SHROTT
3	FRONT BEARING	1249	FRONT BEARING SHROTT
4	FRONT BEARING	1250	FRONT BEARING SHROTT
5	FRONT BEARING	1251	FRONT BEARING SHROTT
6	FRONT BEARING	1252	FRONT BEARING SHROTT
7	FRONT BEARING	1253	FRONT BEARING SHROTT
8	FRONT BEARING	1254	FRONT BEARING SHROTT
9	FRONT BEARING	1255	FRONT BEARING SHROTT
10	FRONT BEARING	1256	FRONT BEARING SHROTT
11	FRONT BEARING	1257	FRONT BEARING SHROTT
12	FRONT BEARING	1258	FRONT BEARING SHROTT
13	FRONT BEARING	1259	FRONT BEARING SHROTT
14	FRONT BEARING	1260	FRONT BEARING SHROTT
15	FRONT BEARING	1261	FRONT BEARING SHROTT
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17	FRONT BEARING	1263	FRONT BEARING SHROTT
18	FRONT BEARING	1264	FRONT BEARING SHROTT
19	FRONT BEARING	1265	FRONT BEARING SHROTT
20	FRONT BEARING	1266	FRONT BEARING SHROTT
21	FRONT BEARING	1267	FRONT BEARING SHROTT
22	FRONT BEARING	1268	FRONT BEARING SHROTT
23	FRONT BEARING	1269	FRONT BEARING SHROTT
24	FRONT BEARING	1270	FRONT BEARING SHROTT
25	FRONT BEARING	1271	FRONT BEARING SHROTT
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100	FRONT BEARING	1346	FRONT BEARING SHROTT



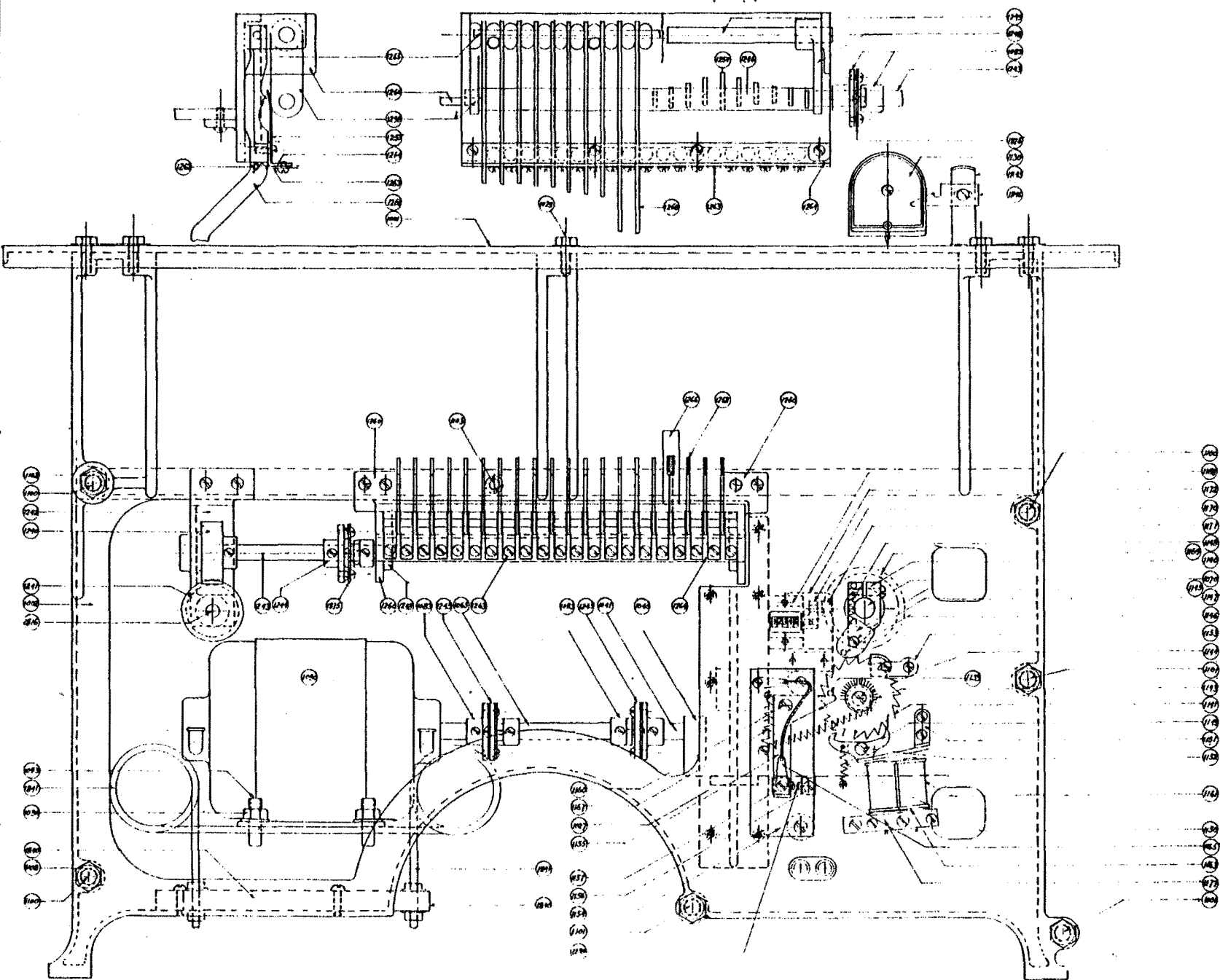
SERVICE MANUAL ASSEMBLY
 RIGHT SIDE VIEW
 Part No. F-1502A Rev. 13
 Date 1-1-54
 Drawn by J. P. Seibing
 Checked by J. P. Seibing

STOCK LIST

ITEM NO.	QTY.	DESCRIPTION
1001	1	TOP SHELF
1002	1	FRONT FRAME
1021	1	TRANSMISSION SHAFT
1022	1	TOP SHELF MTR. SCREW
1023	1	TRANSMISSION BEARING
1041	1	SHAFT
1061	1	MOTOR DRIVE SHAFT
1062	2	Coupling WHEELS
1081	1	CRAN SHAFT
1082	1	TRANSMISSION COUPLER
1091	1	MOTOR
1092	1	MTR. BOLT
1093	1	NUT
1100	3	FRAME TIE BAR
1101	3	ROLLED IRON
1102	23	CR. TRA.
1103	1	MTR.
1104	1	TOP CENTER
1140	1	PISTON HEAD
1141	1	AUDIAN
1142	1	MACHINE WHEEL BLOCK
1143	1	RETENET
1144	1	REPAIR SPRING
1145	1	MTR. SCREW
1146	1	PIN
1147	1	SCREW
1148	1	SPRING
1149	1	ESCAPEMENT
1150	1	SHAFT
1151	1	STOP
1152	1	PIN
1153	1	RELEASE BLOCK
1154	1	SWITCH BASE
1155	1	LEVER
1156	1	CONTACT BRACKET
1157	1	SCREW
1158	2	SPRING
1159	1	REPAIR COIL COIL
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1299	1	REPAIR COIL
1300	1	REPAIR COIL

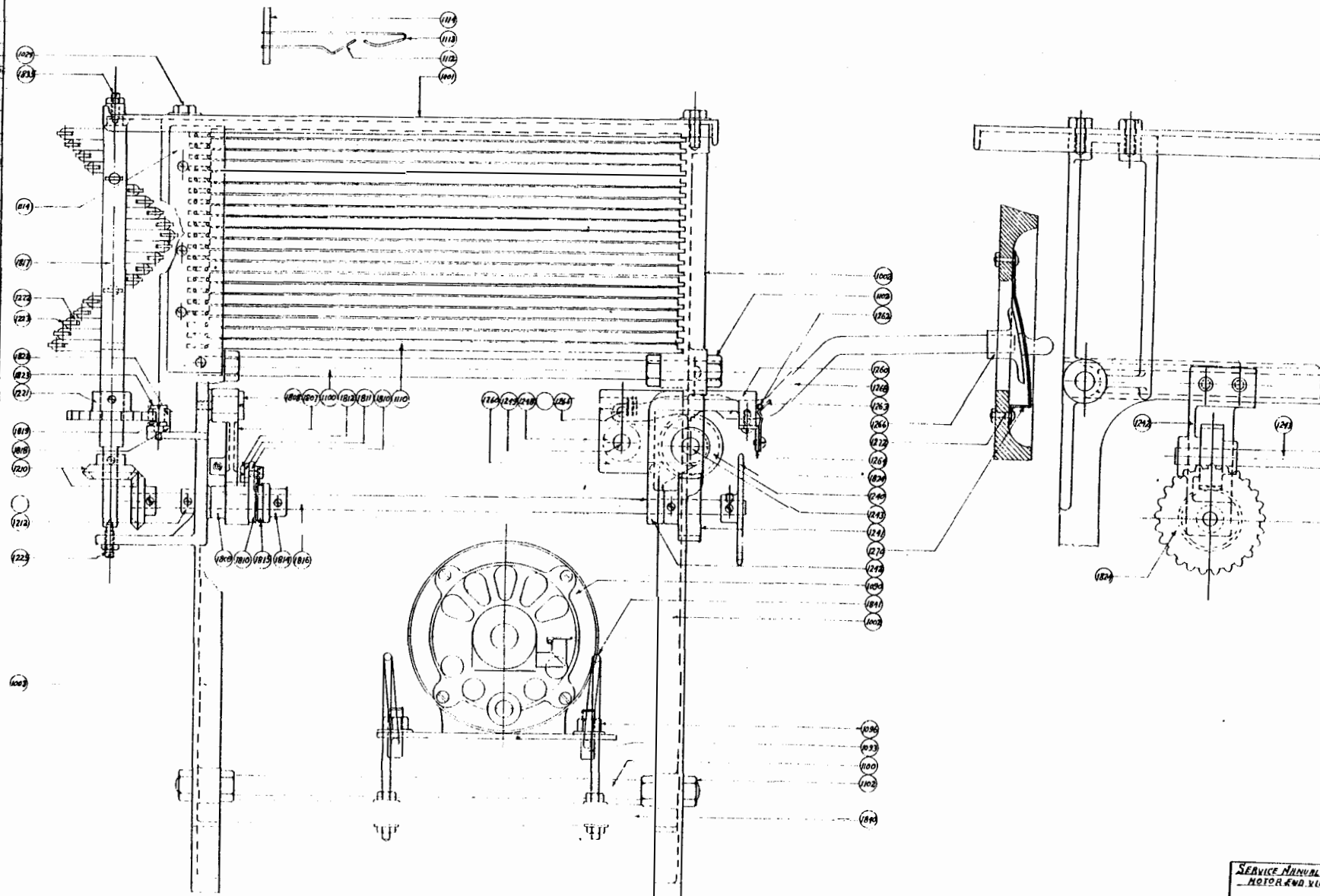


STOCK LIST		
PART NO.	QTY	DESCRIPTION
1001	1	TOP SHEET
1002	1	FRONT FRAME
1021	1	TRANSMISSION SHAFT
1022	1	TOP SHEET NUT
1023	1	TRANSMISSION BEARING
1024	1	SHAFT
1025	1	MOTOR DRIVE SHAFT
1026	1	CRANK SHAFT
1027	1	TRANSMISSION COUPLER
1028	1	MOTOR
1029	1	MTG. BELT
1030	1	NUT
1031	1	FRAME TIE BAR
1032	1	SHOULDER
1033	1	CHUCK
1034	1	HEAD
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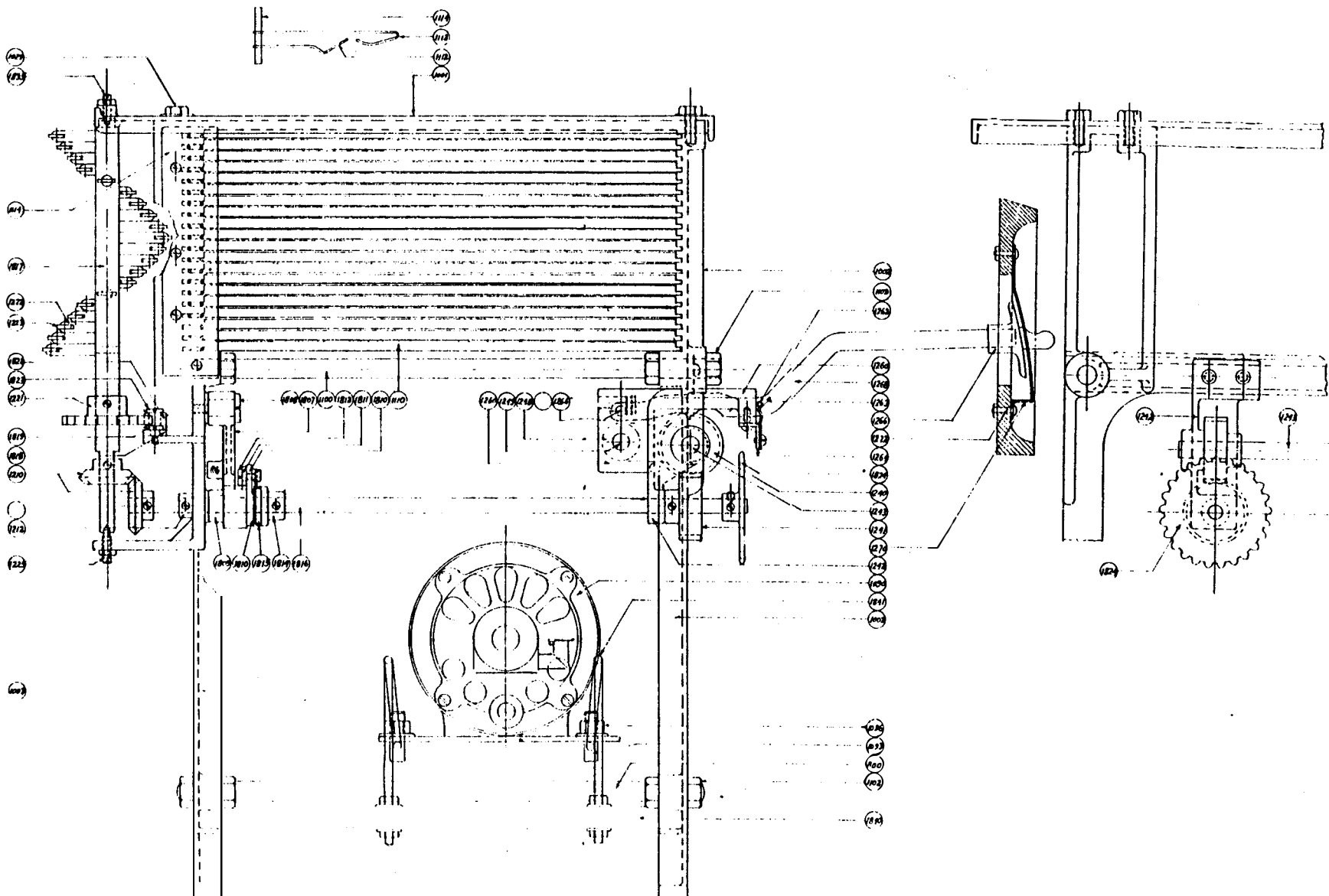
STOCK LIST.

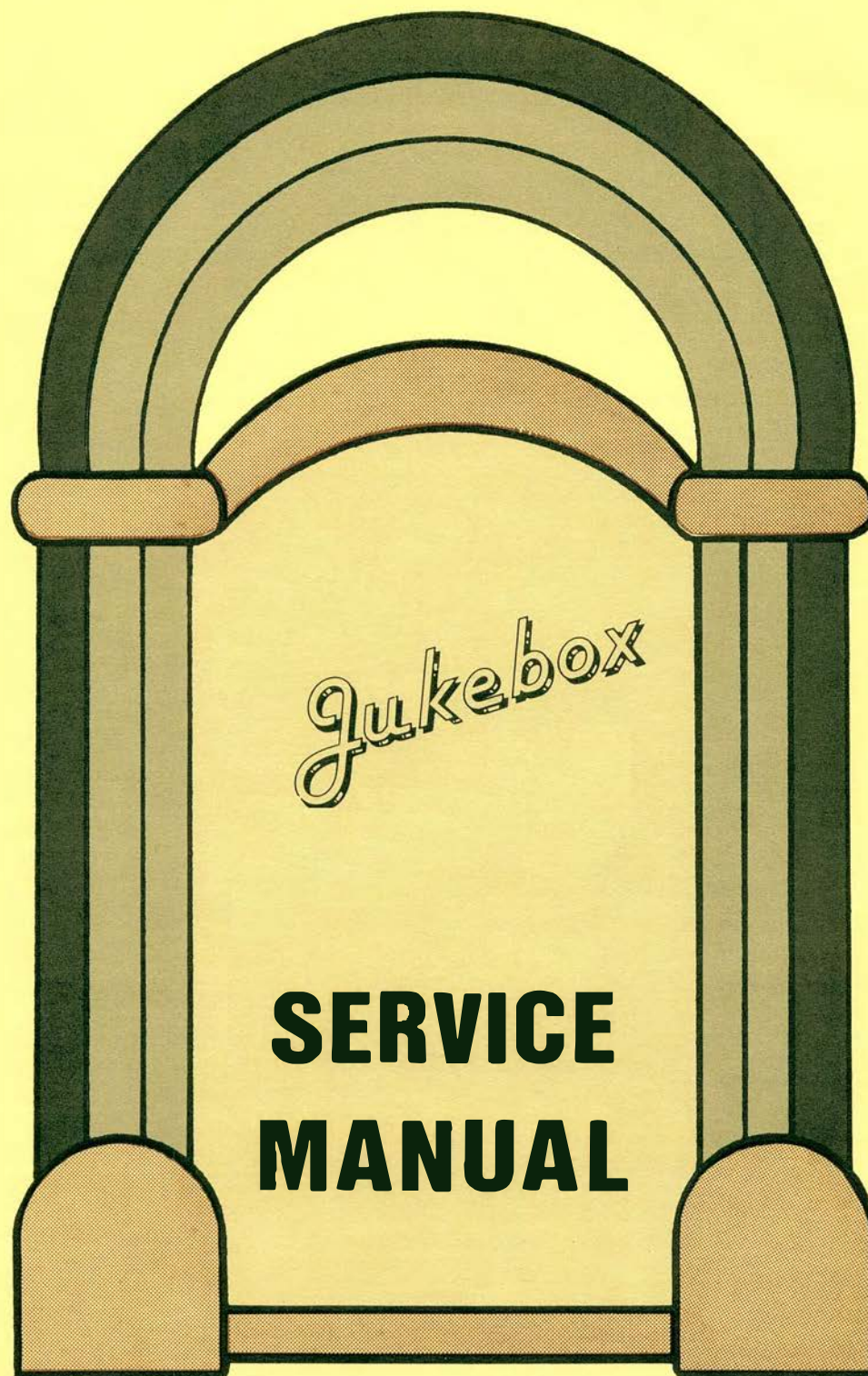
PART NO.	QTY.	DESCRIPTION.
1001	1	TOP SHIELD.
1002	1	FRONT FRAME.
1003	1	REAR.
1029	9	TOP SHELF MTG SCREW.
1030	1	MOTOR.
1031	4	MTG. BOLT.
1036	4	NUT.
1100	3	FRAME TIE BAR. (ARMEDITH).
1102	6	NUT.
1110	20	RECORD TAPE.
1112	20	LOCK SPRING.
1113	20	SLIDE PAWLS BELT.
1114	1	LOCK SPRING PLATE.
1210	2	SELECTION DRIVE GEAR.
1212	1	SPINDLE COLLAR.
1221	1	ARM HELIX LOCK SPINDLE.
1222	20	STUD.
1223	20	ROLLER.
1225	1	PIVOT SCREW. (BOTTOM).
1240	1	RIGHT HELIX DRIVE SPINDLE GEAR.
1241	1	DRIVE SHAFT BEARING.
1242	1	SHAFT.
1243	1	ELEVATING LIMS.
1248	2	AND.
1249	1	SELECTION LEVER FRAME.
1262	20	DISC.
1263	20	SPRING.
1264	1	MTG. BAR.
1265	1	PIVOT ROD.
1266	20	FINGER TIP.
1268	20	BEYER.
1270	1	ESCHERICH PLATE.
1272	6	MTG. SCREW.
1807	1	ARM HELIX LOCK SECTOR GEAR.
1808	1	MTG. SCREW.
1809	1	PISTON.
1810	1	ARMING PLANGE.
1811	1	PISTON.
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	ARM HELIX PINION SCREW. (TOP).
1840	1	MOTOR MTG. BASE.
1877	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 (HORIZONTAL).
1009	NUT.
1010	RECORD TAPE.
1011	LOCK SPRING.
1012	SLIP PIVOT BUSHING.
1013	LOCK SPRING PLATE.
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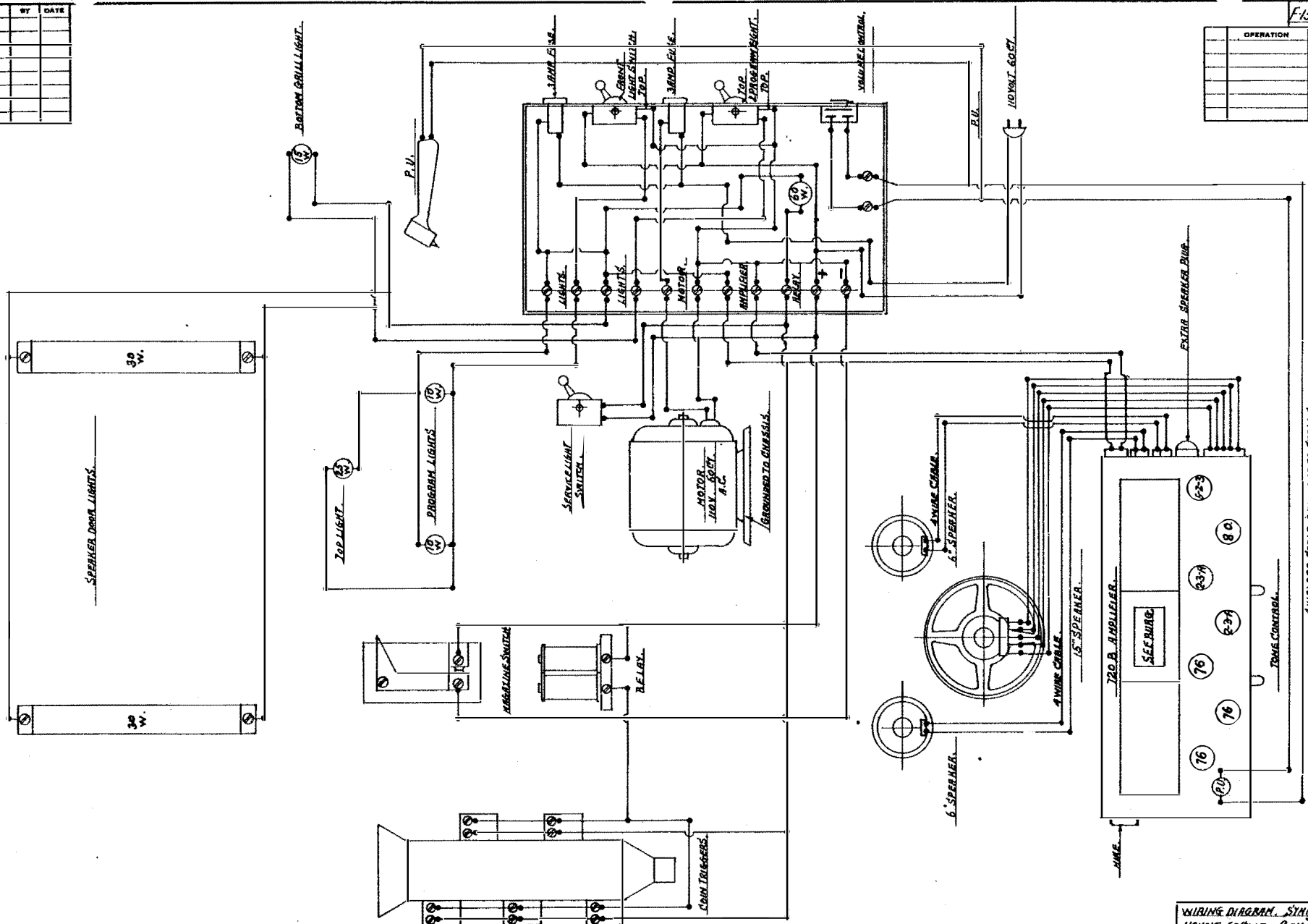




WAS	BY	DATE

F-1543 A.

OPERATION	TOOL

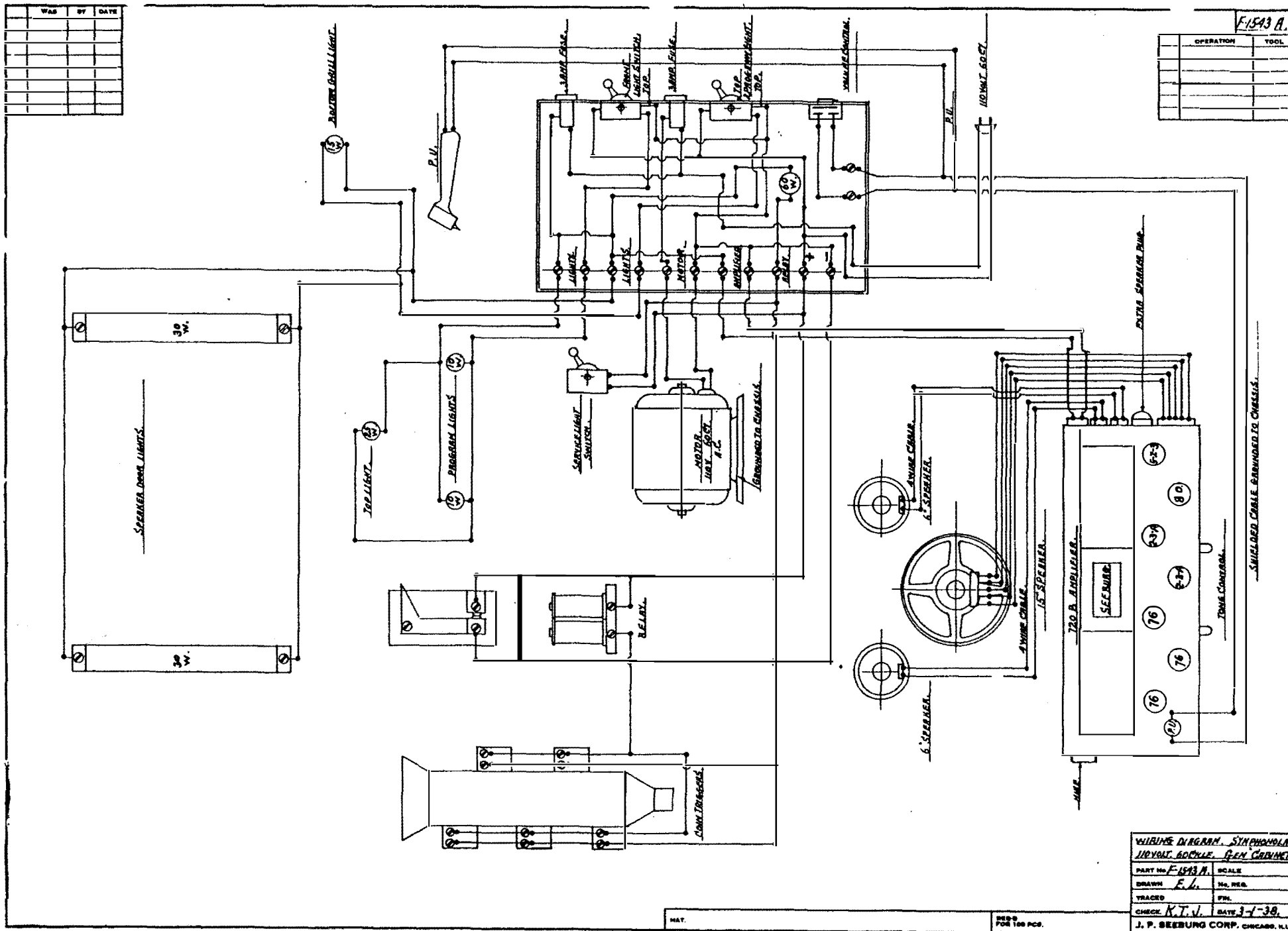


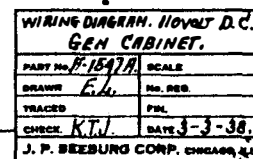
WIRING DIAGRAM, SYMPHONOLA, 110V 60 CYCLE GEN CHROMET.	
PART No. F-1543 A.	SCALE
DRAWN E. L.	No. REQ.
TRACED	FIN.
CHECK K. T. V.	DATE 3-1-38.

MAT.

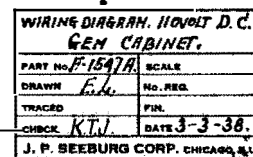
REED FOR 100 PCS.

J. P. SEEBURG CORP. CHICAGO, ILL.

[illegible]

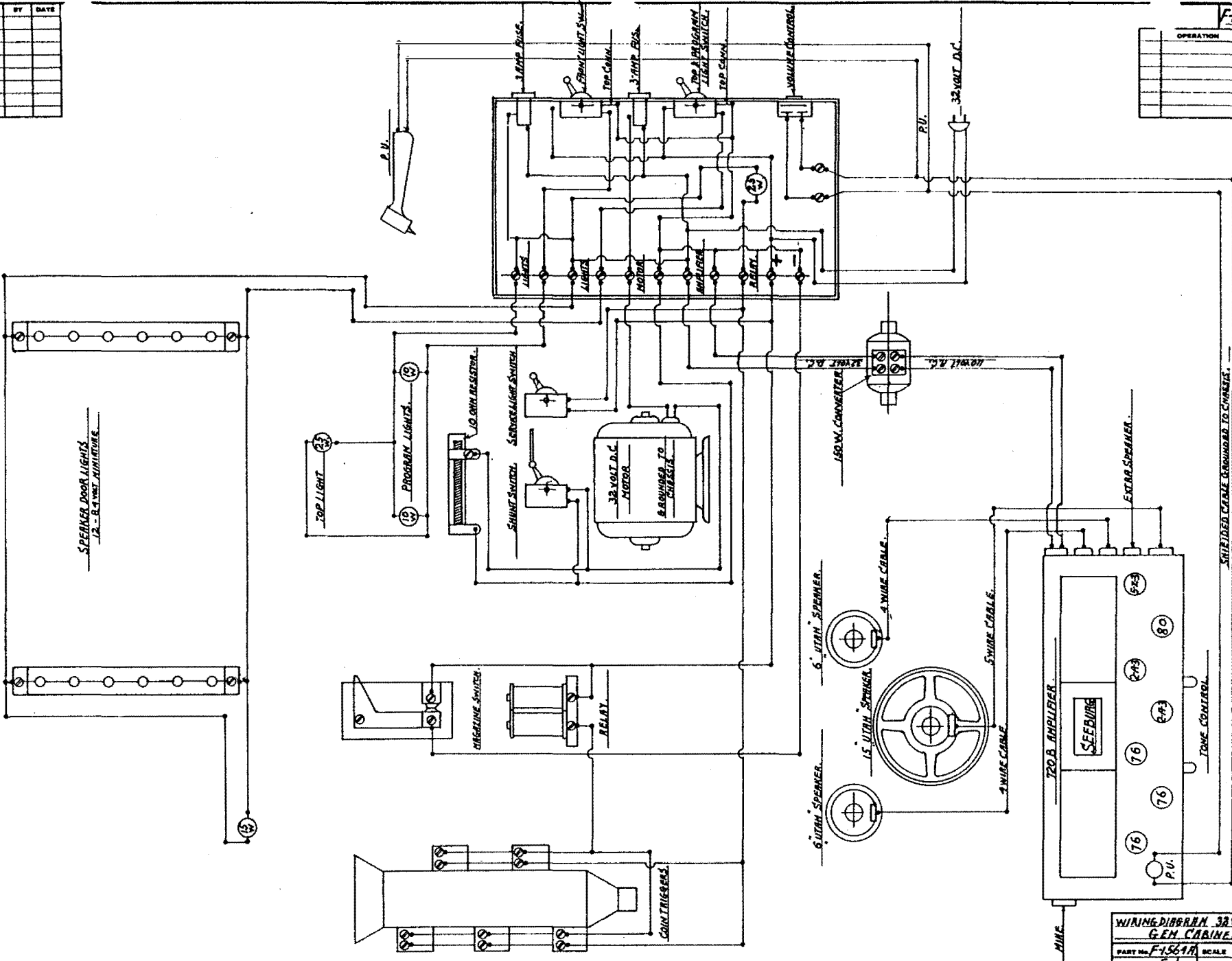
[illegible]

READ
FOR 100 PAGES

[illegible]

FOR 100 PCs.

WAS	BY	DATE



F-1561A

OPERATION	TOOL

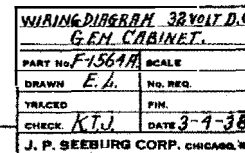
WIRING DIAGRAM 32V D.C. GEN. CABINET.

PART NO.	SCALE
F-1561A	
DRAWN	NO. REV.
E.L.	
TRACED	FIN.
K.T.V.	
CHECK	DATE
	3-1-38

J. P. SEEBURG CORP. CHICAGO, ILL.

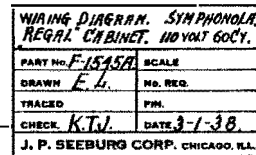
MAT

REQ FOR 100 PCS.

[illegible]

REQ'D
FOR 100 PCS

	OPERATION	TOOL
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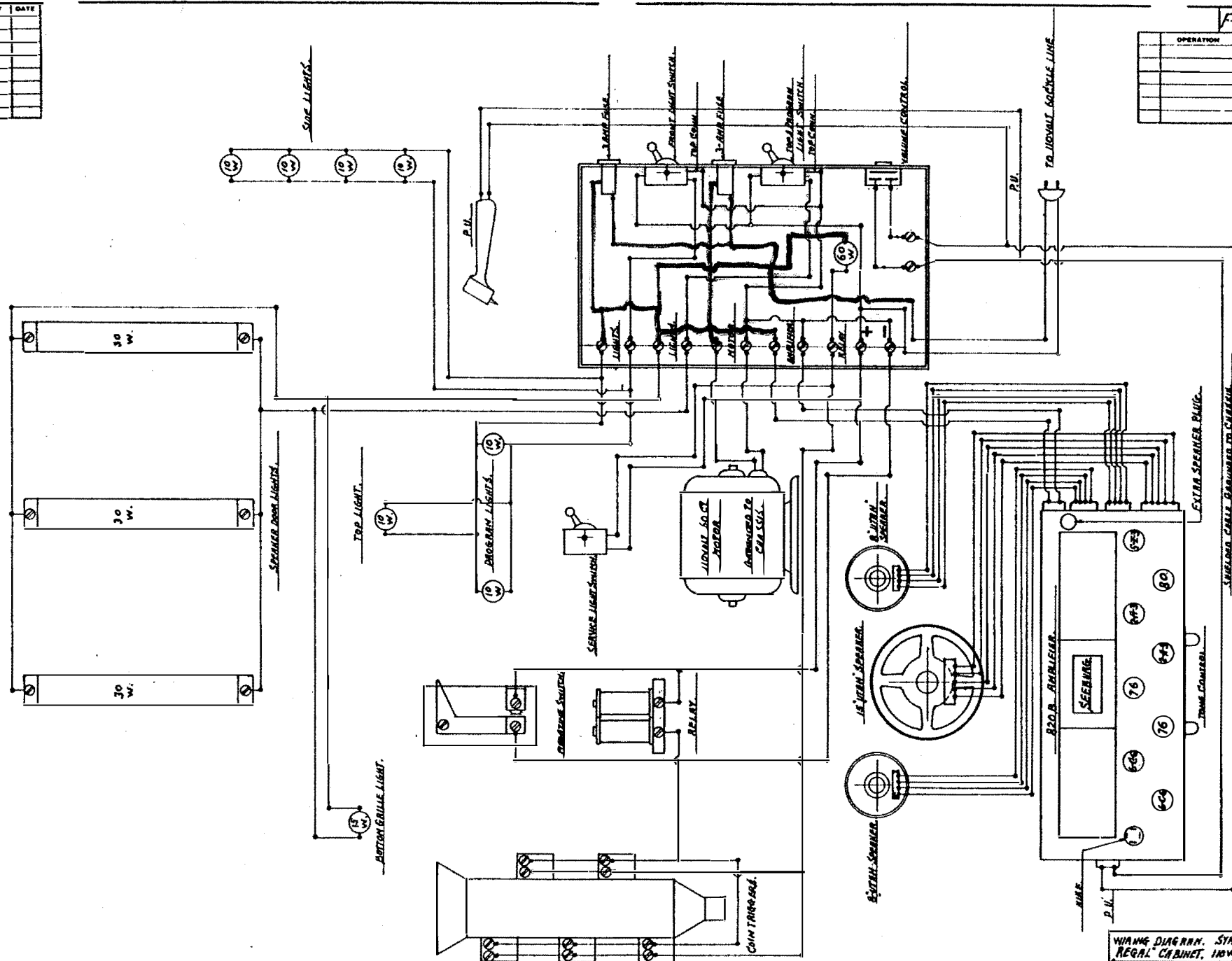


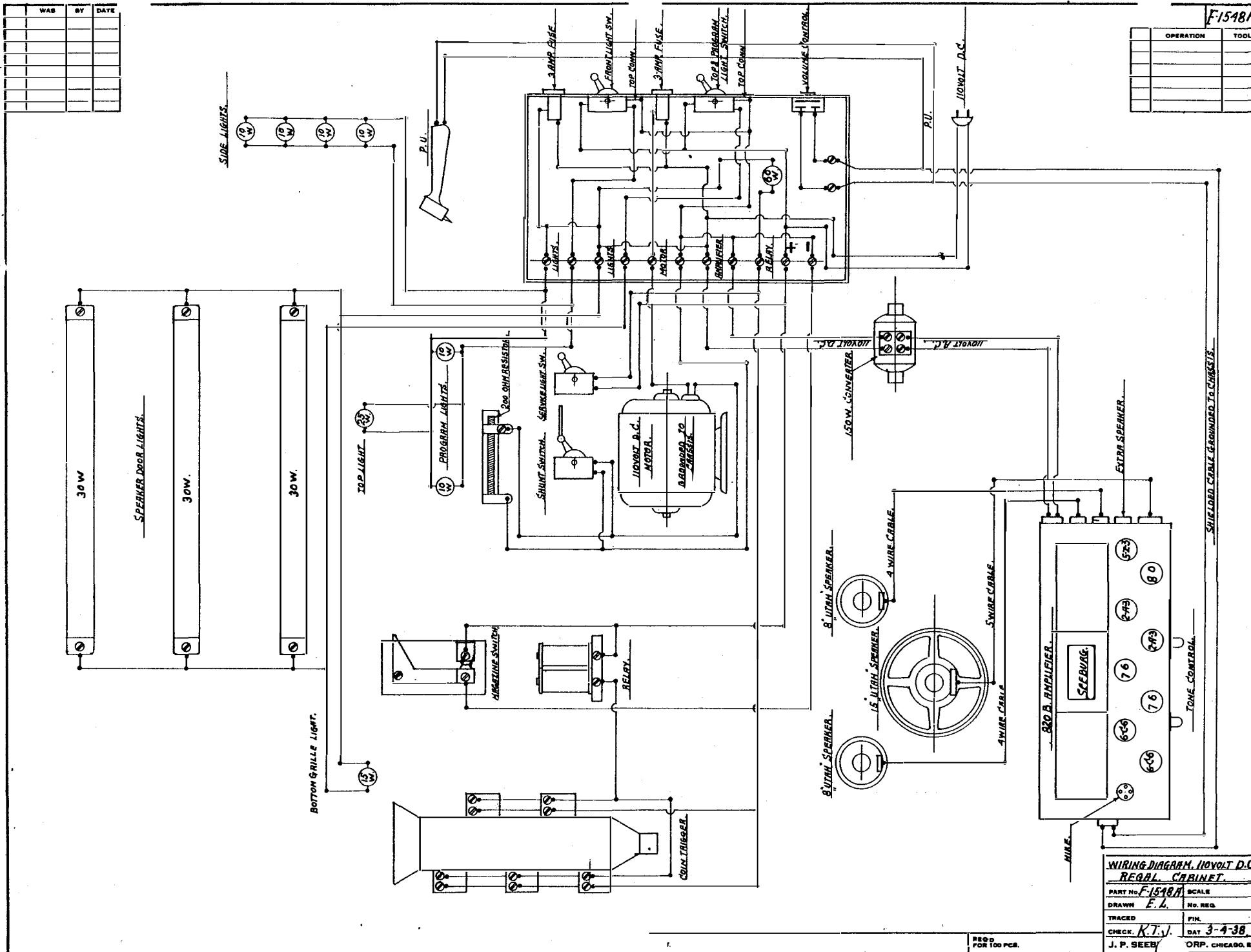
REG-D
FOR 100 PCB.

地址

	OPERATION	TOOL

WIRING DIAGRAM. SYMPHONY. REGAL CABINET. 120VOLT 60CY.	
PART No. <u>F-1545A</u>	SCALE
DRAWN <u>E.L.</u>	No. REQ.
TRACED	FWL
CHECK <u>K.T.V.</u>	DATE <u>3-1-38</u>
J. P. SEEBURG CORP. CHICAGO, ILL.	

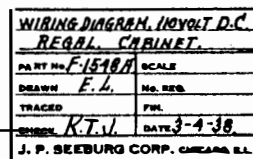


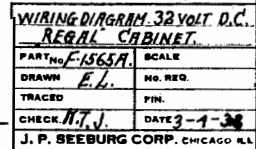
[illegible][illegible]

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

PART No. <i>F-1548A</i>	SCALE
DRAWN <i>E.L.</i>	No. REQ.
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J. P. SEEBY	ORP. CHICAGO, ILL.

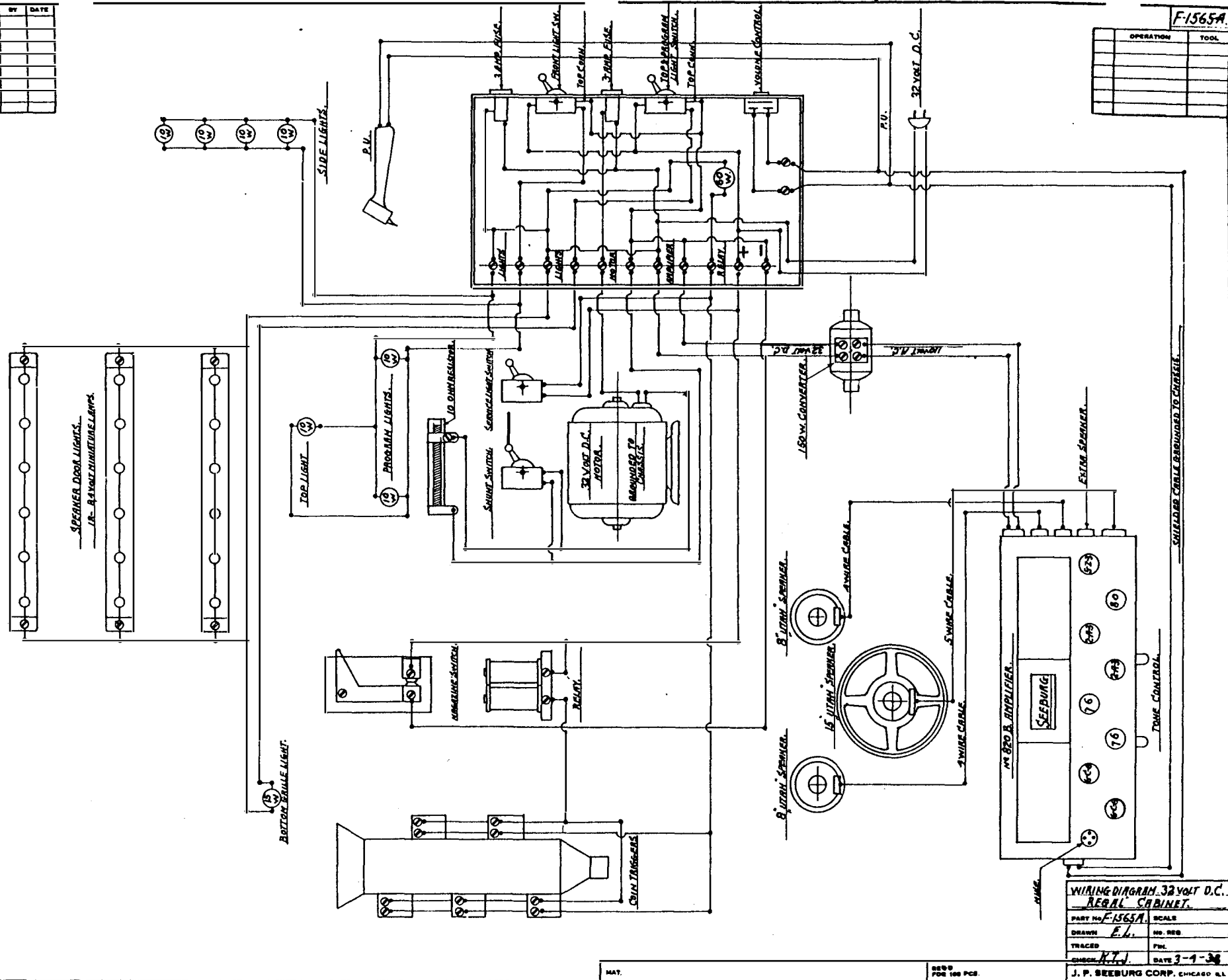
	OPERATION	TOOL



[illegible]

REQ'D
FOR 100 PCS.

WAP	BY	DATE



WIRING DIAGRAM 32VOLT D.C.	
REGAL CABINET	
PART NO. F-1565A	SCALE
DRAWN E.H.	NO. REQ.
TRACED P.H.	DATE 3-1-38
CHECK K.Y.	
J. P. SEEBURG CORP. CHICAGO ILL.	

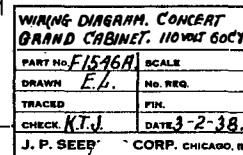
MAT.

8000
FOR 100 PCS.

F-1565A

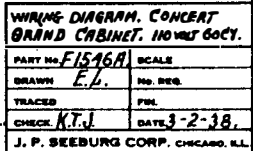
OPERATION	TOOL

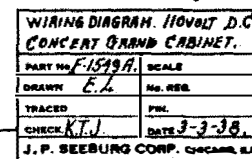
SHIELDED CABLE BUNDLED TO CHASSIS

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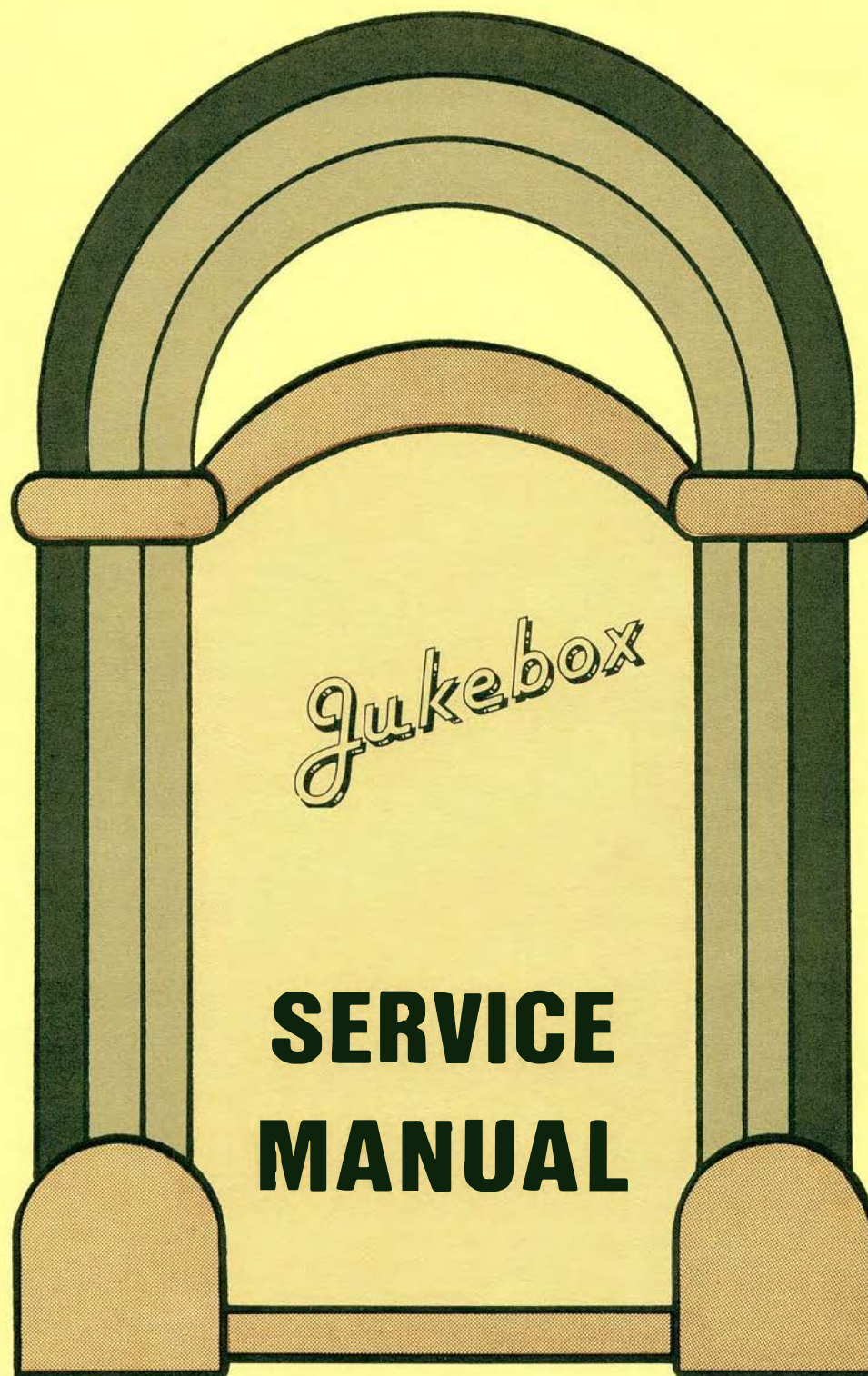
REG-0
FOR 100 PC

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REC'D
FOR INFO PCO.



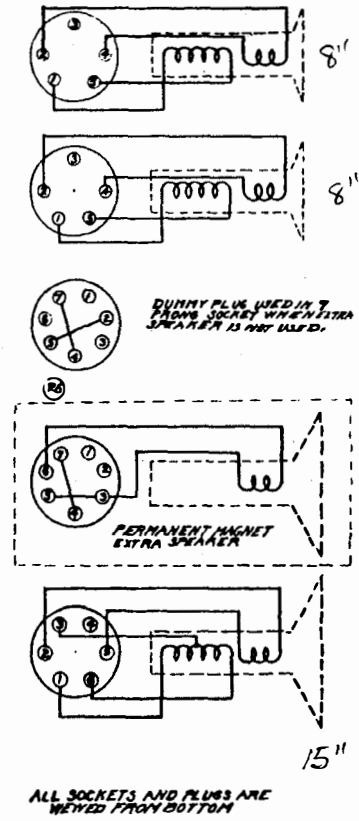
Jukebox

**SERVICE
MANUAL**

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	DATE
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USED ON		
SEEBURG RADIO CORP.		
CHICAGO, ILL.		
DRAWN	C.E.R. 12-24-37	
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SCHEMATIC DIAGRAM 720B AMPLIFIER

REVISIONS

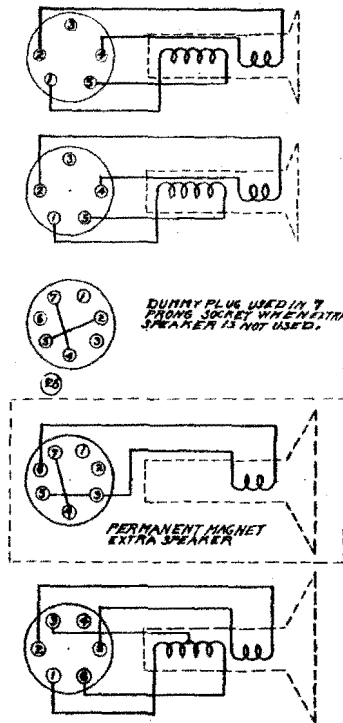
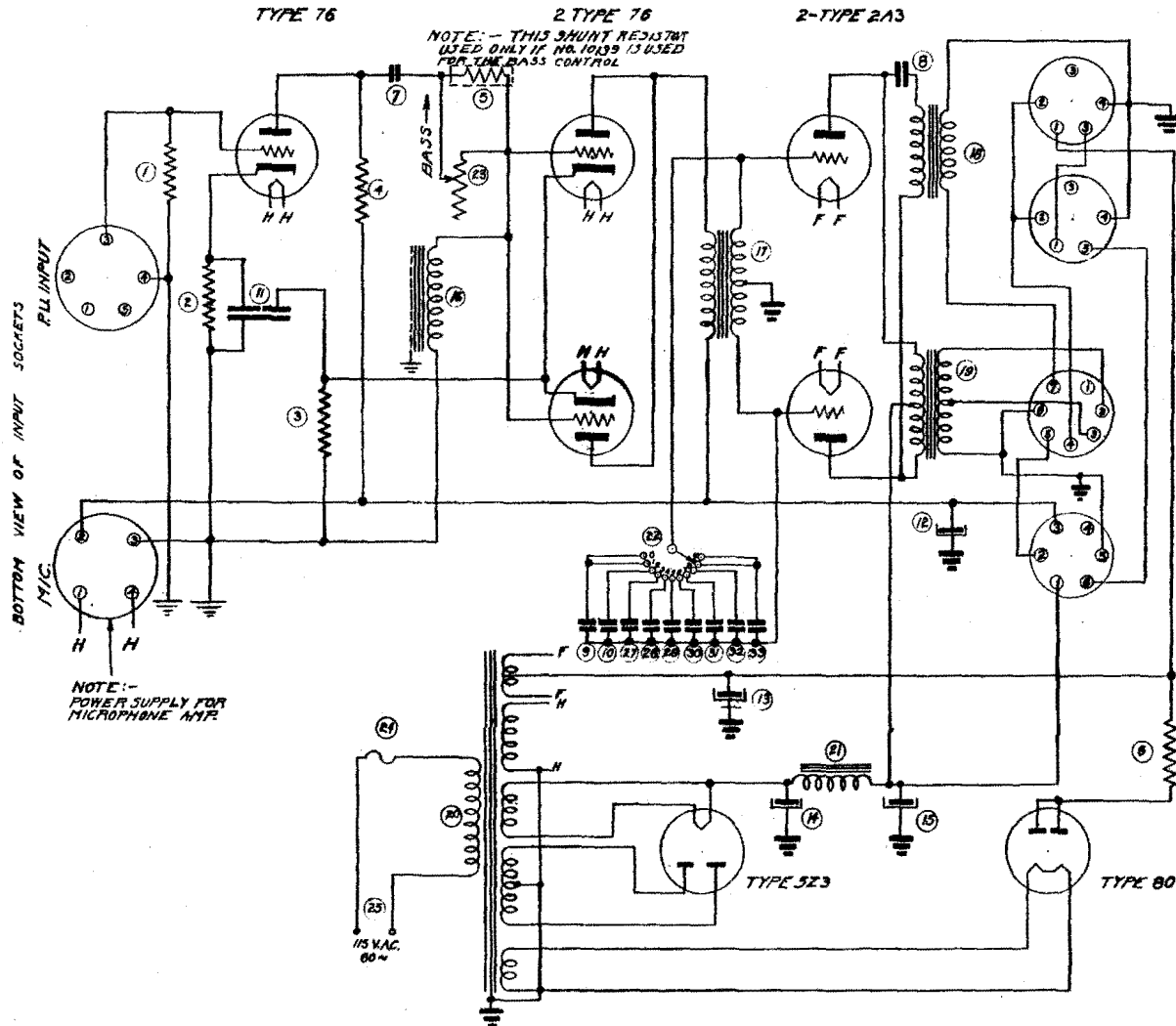
REVISIONS

2-10-38

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ALL SOCKETS AND PLUGS ARE
VIEWED FROM BOTTOM

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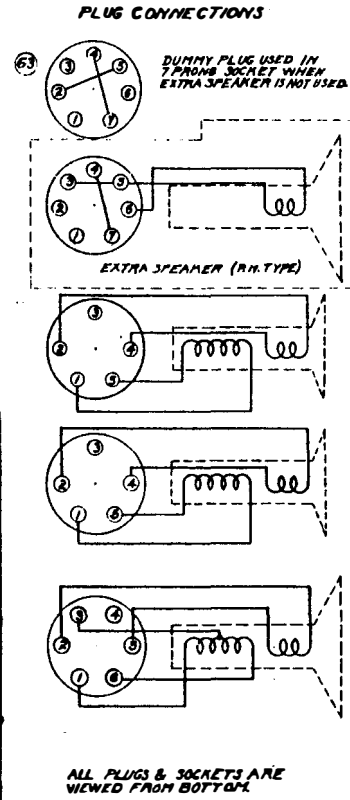
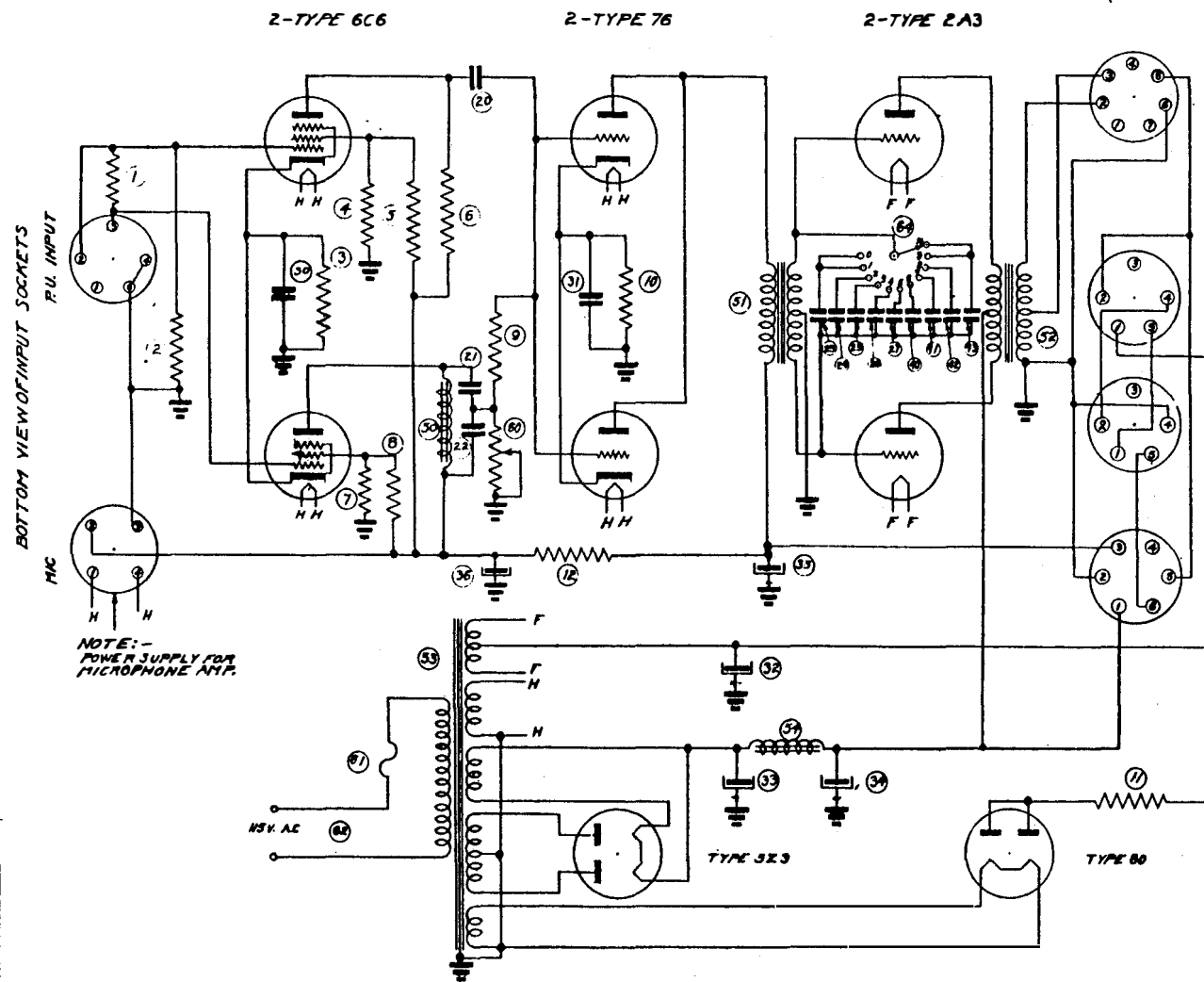
SECURITY DATA CORP

SEEBURG RADIO CORP.
CHICAGO, ILL.

DRAWN C.E. 12-24-37
CHECKED J.
APPROVED KUL

SCHEMATIC DIAGRAM 820B AMPLIFIER

50023
REVISIONS
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	85027	.006 MFD 600V	20%	30	87500	12-RMF D DRY DUAL 25V		30	10033	700K CHOKES		60	10039	BASS CONTROL	
2	82803	3900 Ω	1/4 W 5%	21	85028	.02	800 10%	31	87501	8 DRY 190V		51	10034	INPUT TRANS.		61	10033	FUSE PLUG ASSEMBLY	
3	82480	2000 Ω	1/4 W 10%	22	85029	.04	800 10%	32	87502	16 WET 475V		52	10035	OUTPUT TRANS.		62	10041	LINECORD & LUG ASSEMBLY	
4	82476	30 M	1/4 W 10%	23	85026	.05	400 20%	33	87001	8 WET 475V		53	10036	POWER TRANS.		63	10029	DUMMY PLUG ASSEMBLY	
5	82475	100 M	1/4 W 10%	24	85020	.01	400 20%	34	87002	8 WET 475V		54	10036	FILTER CHOKES		64	10238	TREBLE CONTROL SWITCH	
6	82454	330 M	1/4 W 10%	25	85022	.008	400 20%	35	87001	16 WET 475V		MICA CONDENSERS							
7	82478	30 M	1/4 W 10%	26	85025	.004	400 20%	36	87503	4 DRY 350 WAX		40	85011	.002	20%				
8	82479	100 M	1/4 W 10%	27	85024	.003	400 20%					41	85010	.0015	20%				
9	82242	33 M	1/4 W 10%	FIXED RESISTORS (CONT)								42	85009	.001	20%				
10	82477	1200 Ω	1/4 W 10%	12	82026	4700 Ω	1/4 W 20%					43	85008	.0005	20%				
11	81000	200 Ω W/W																	

SEEBURG RADIO CORP.
CHICAGO, U.S.A.
DRAWN C.E.R. 1-8-38
CHECKED & APPROVED

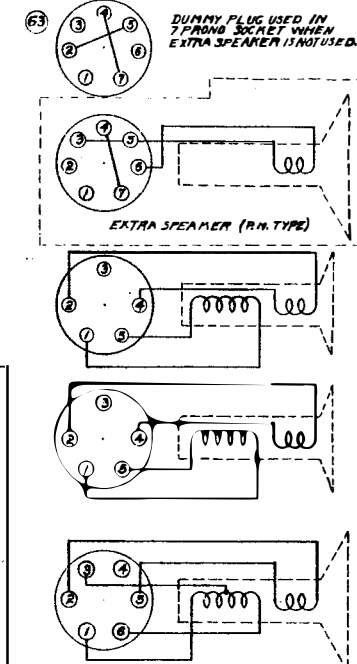
PART NAME
SCHEMATIC DIAGRAM 820B AMPLIFIER

REF. DES.
50025

REVISIONS
2-10-33

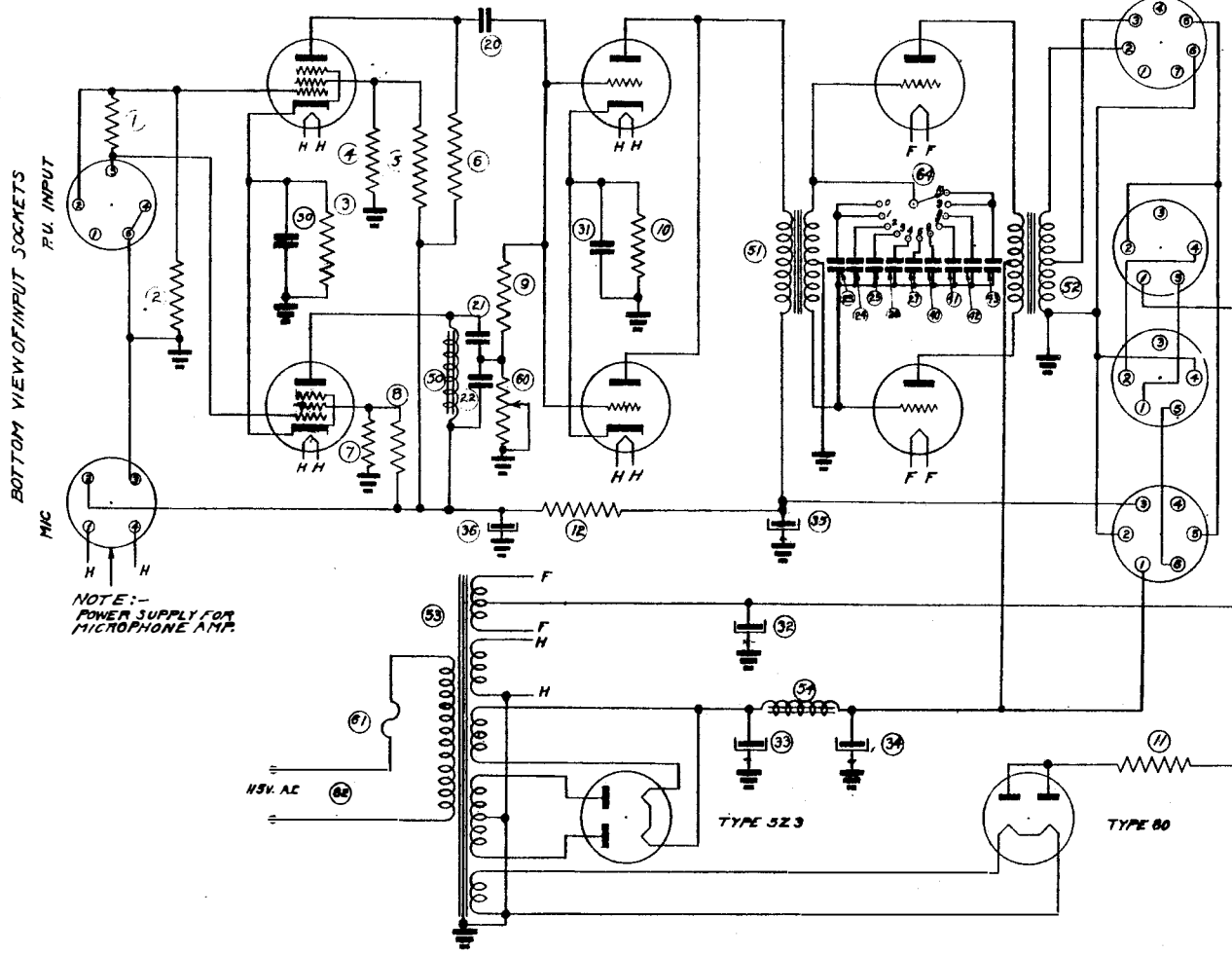
1 92

PLUG CONNECTIONS



ALL PLUGS & SOCKETS ARE VIEWED FROM BOTTOM.

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



NOTE:-
POWER SUPPLY FOR
MICROPHONE AMP.

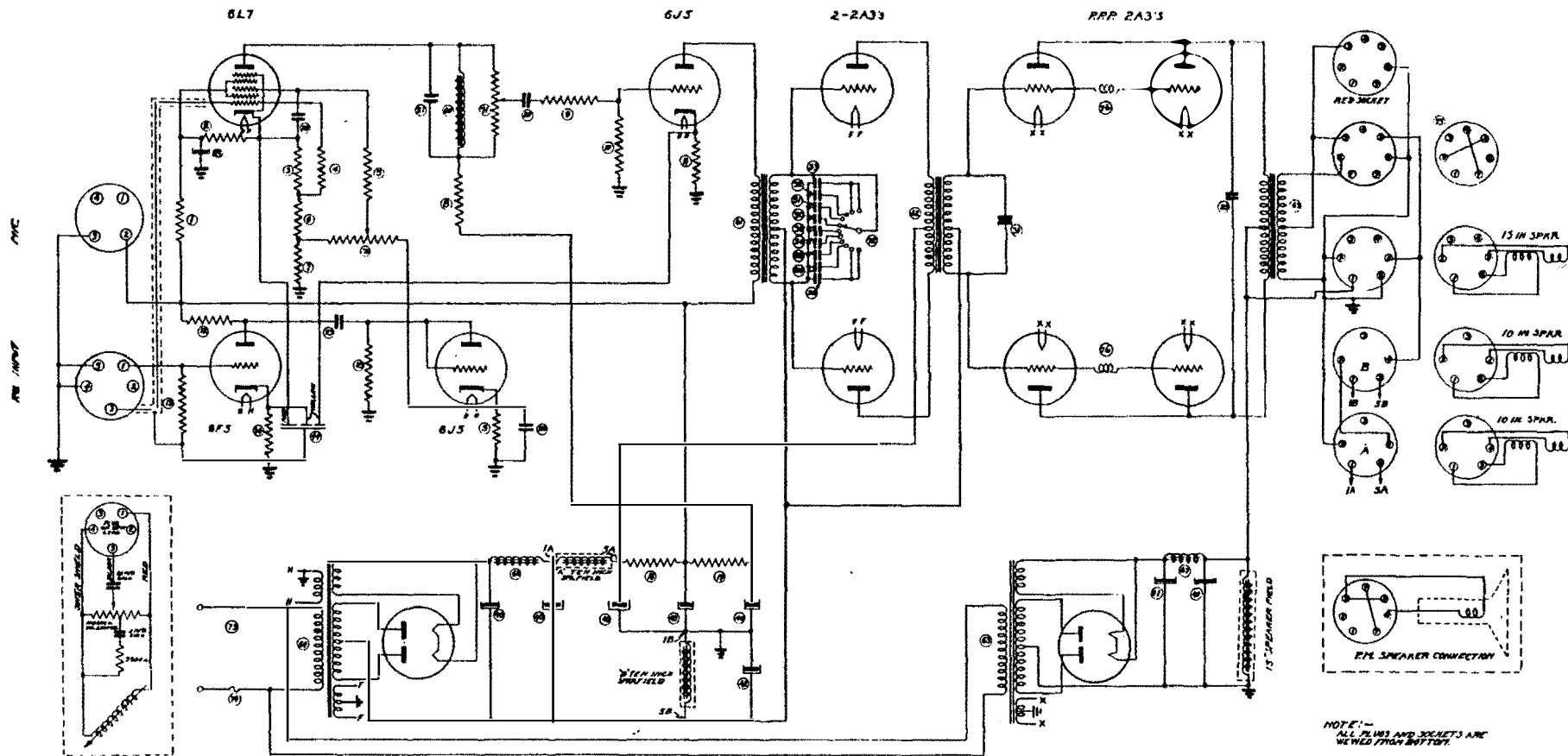
FIXED RESISTORS				PAPER CONDENSERS				ELECT. CONDENSERS				IRON CORE COILS				MISCELLANEOUS			
ITEM	PART	DESCRIPTION		ITEM	PART	DESCRIPTION		ITEM	PART	DESCRIPTION		ITEM	NUMBER	DESCRIPTION		ITEM	NUMBER	DESCRIPTION	
1	82902	1200 Ω	1/4 W 5%	20	86027	.006 MFD 600V	20%	30	87500	12-12MFD DRY DUAL 25V		30	10033	TOPE CHOK		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	1/4 W 10%	22	86028	.04	600 10%	32	87501	8 DRY 100V		32	10034	OUTPUT TRANS.		62	10041	LINE AND LUG ASSEMBLY	
4	82476	30M	1/2 W 10%	23	86028	.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	86028	.01	400 20%	34	87002	8 WET 475V		34	10036	FILTER CHOK		64	10236	TREBLE CONTROL SWITCH	
6	82479	330M	1/2 W 10%	25	86002	.006	400 20%	35	87001	16 WET 475V		MICA CONDENSERS							
7	82476	30M	1/2 W 10%	26	86025	.004	400 20%	36	87503	4 DRY 350 MK		40	85011	.002	20%				
8	82479	100M	1/2 W 10%	27	86024	.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	1/4 W 10%	12	86065	4700 Ω	1/4 W 20%					43	85008	.0005	20%				
11	81000	200 Ω	1/4 W 10%																

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

SCHEMATIC DIAGRAM 1255A AMPLIFIER

80059

REVISIONS
2-9-38 1 12



FIXED RESISTORS				PAPER CAPACITORS				ELECTROLYTIC CAPACITORS				IRON CORE COILS				MISCELLANEOUS			
ITEM	VAL	DESCRIPTION	ITEM	VAL	DESCRIPTION	ITEM	VAL	DESCRIPTION	ITEM	VAL	DESCRIPTION	ITEM	VAL	DESCRIPTION	ITEM	VAL	DESCRIPTION		
1	68005	5000 OHMS	20	68006	.10 MFD	200 V	28 %	40	67001	15 MFD	150 V	WET	60	1031	1000 OHMS	70	1031	1000 OHMS	
2	68004	11000	21	68007	.05 MFD	275 V	WET	41	67002	16 MFD	150 V	WET	61	1031	1000 OHMS	71	1031	1000 OHMS	
3	68274	300	22	68008	.02 MFD	600 V	28 %	42	67003	40 MFD	150 V	WET	62	1031	1000 OHMS	72	1031	1000 OHMS	
4	68236	1700	23	68009	.002	600 V	28 %	43	67006	8 MFD	300 V	WET	63	1031	1000 OHMS	73	1031	1000 OHMS	
5	68240	1700	24	68010	.01	600 V	28 %	44	67009	25 MFD 150 V WET	250 OHMS	28 %	64	1031	1000 OHMS	74	1031	1000 OHMS	
6	68215	100	25	68011	.02	800 V	28 %	45					65	1031	1000 OHMS	75	1031	1000 OHMS	
7	68217	370	26	68016	.05	800 V	28 %	46					66	1031	1000 OHMS	76	1031	1000 OHMS	
8	68238	15000	27	68018	.003	400 V	28 %	47					67	1031	1000 OHMS	77	1031	1000 OHMS	
9	68231	1000	28	68020	.004	400 V	28 %	48					68	1031	1000 OHMS	78	1031	1000 OHMS	
10	68235	1800	29	68021	.01	400 V	28 %	49					69	1031	1000 OHMS	79	1031	1000 OHMS	
11	68226	1200	30	68024	.003	400 V	28 %	50					70	1031	1000 OHMS	80	1031	1000 OHMS	
12	68205	500	31	68031	.02	400 V	28 %	51					71	1031	1000 OHMS	81	1031	1000 OHMS	
13	68237	6000						52	68011	.003 MFD			72	1031	1000 OHMS	82	1031	1000 OHMS	
14	68224	1800						53	68016	.0035			73	1031	1000 OHMS	83	1031	1000 OHMS	
15	68230	2200							68009	.001			74	1031	1000 OHMS	84	1031	1000 OHMS	
16	68005	2200							68006	.0005			75	1031	1000 OHMS	85	1031	1000 OHMS	
17	68238	18000											76	1031	1000 OHMS	86	1031	1000 OHMS	

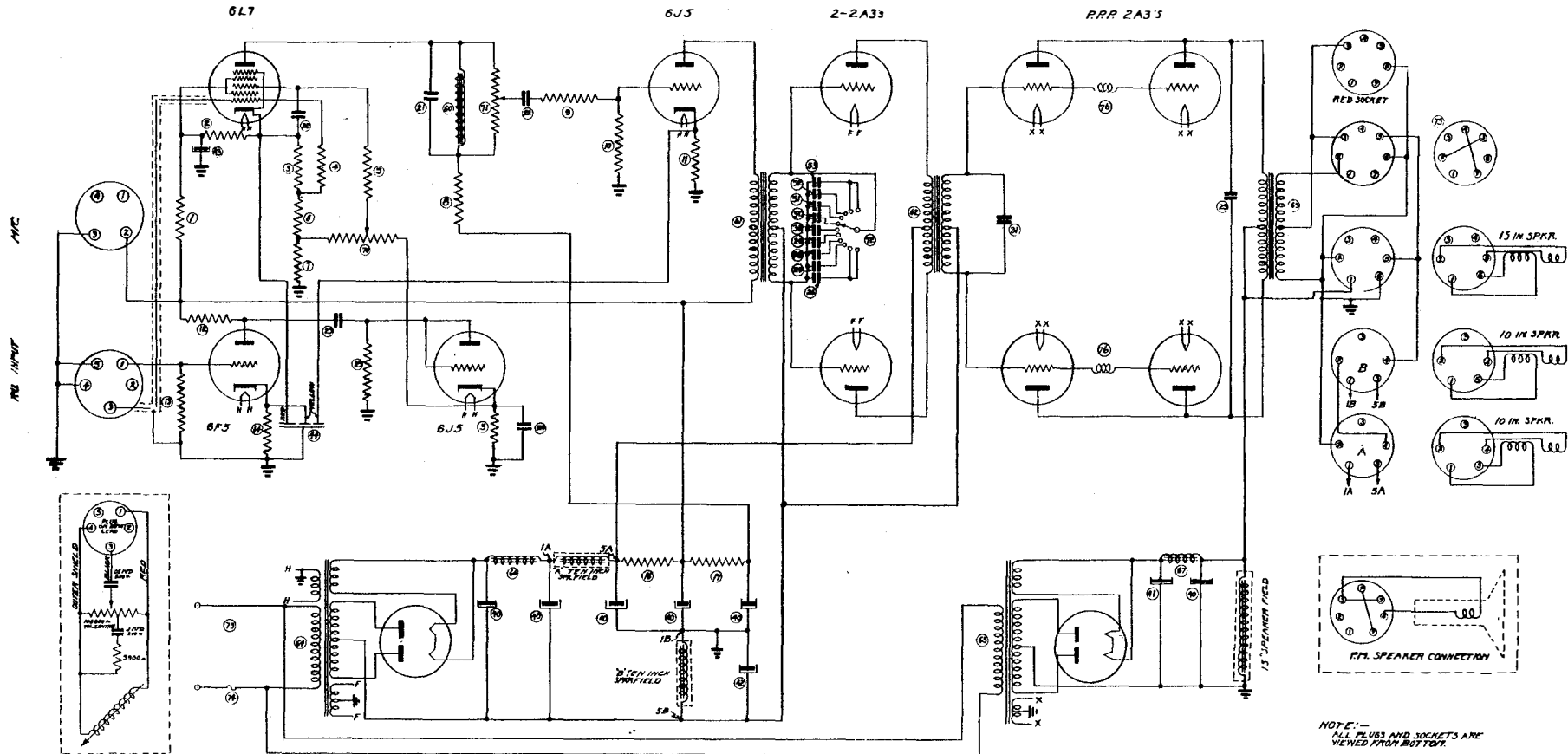
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SCHEMATIC DIAGRAM 1255A AMPLIFIER

80059

REVISIONS
2-9-36 1 92



FIXED RESISTORS				PAPER CONDENSERS				ELECTROLYTIC CONDENSERS				IRON CORE COILS				MISCELLANEOUS			
ITEM	PART	DESCRIPTION	TOL.	ITEM	PART	DESCRIPTION	TOL.	ITEM	PART	DESCRIPTION	TOL.	ITEM	PART	DESCRIPTION	TOL.	ITEM	PART	DESCRIPTION	TOL.
1	02003	5000 OHMS	10%	20	86000	.10 MFD	20%	40	87000	1K MFD	20%	60	10317	70V 2H		10	10317	175V VOLUME CONTROL	
2	02004	11000	10%	21	86030	.05	400K	41	87007	16MFD 475V WET		61	10314	LP TRANS. 1400-700T BA		11	10385	175V BASI CONTROL	
3	02274	300	10%	22	86040	.02	600K	42	87000	40MFD 150V WET		62	10315	PP INTERSTAGE 3400-1741 BA		12	10286	175V CAPTIAL SWITCH	
4	02276	470M	10%	23	86044	.002	600K	43	87008	10MFD 300V WET		63	10316	GP TRANS. 3500-BA 40MFD		13	10287	175V CAPTIAL SWITCH	
5	02260	1M56	10%	24	86006	.10	200K	44	87500	25(RED/YE) 125V 10MFD		64	10250	POWER TRANS. 350V-70 MA		14	10031	LINE CORD ASSEMBLY	
6	02215	180	10%	25	86011	.02	800K	45	87500	25(RED/YE) 125V 10MFD		65	10257	POWER TRANS. 300V-255 MA		15	10032	FUSE ASSEMBLY	
7	02277	270	10%	26	86026	.015	400K	46	87500	25(RED/YE) 125V 10MFD		66	10318	FILTER CH. 125V 750MA 430-DC		16	10033	DUMMY PLUG ASSEMBLY	
8	02238	15000	10%	27	86000	.01	400K	47	87500	25(RED/YE) 125V 10MFD		67	10317	FILTER CH. 125V 750MA 430-DC		17	10338	GRID CROWN	
9	02237	100M	10%	28	86008	.008	400K	48	87500	25(RED/YE) 125V 10MFD									
10	02235	300M	10%	29	86023	.004	400K	49	87500	25(RED/YE) 125V 10MFD									
11	02226	1700	10%	30	86024	.003	400K	50	87500	25(RED/YE) 125V 10MFD									
12	02243	500	10%	31	86031	.02	400K	51	87500	25(RED/YE) 125V 10MFD									
13	02234	6800	10%					30	85011	.002 MFD									
14	02224	1000	10%					31	85010	.0015									
15	02236	220M	10%					34	85009	.001									
16	02605	2200	10%					33	85008	.0005									
17	02438	10000	10%																

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

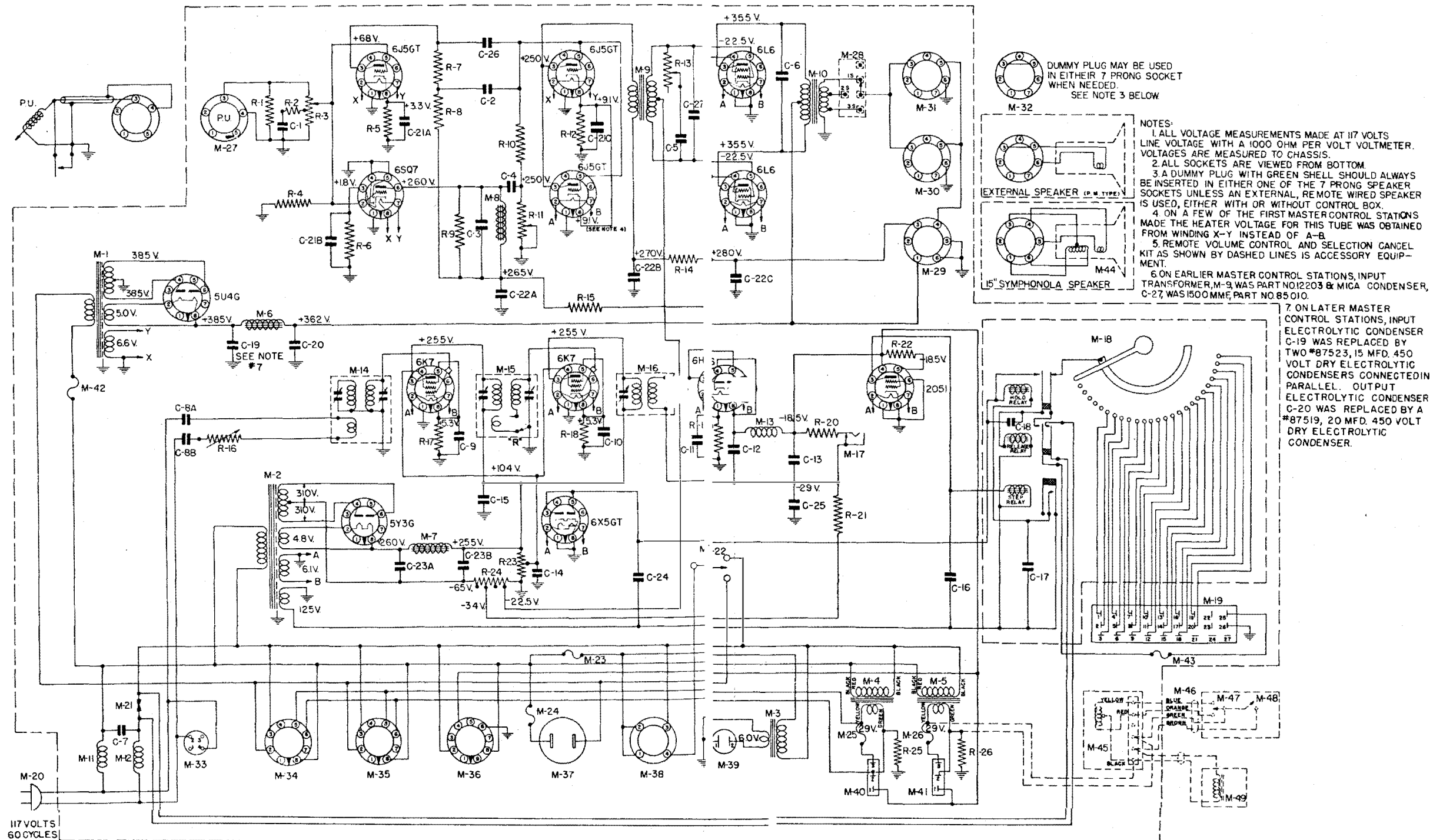


FIG. - SCHEMATIC DIAGRAM O TYPE CS25- MASTER CONTROL STATION

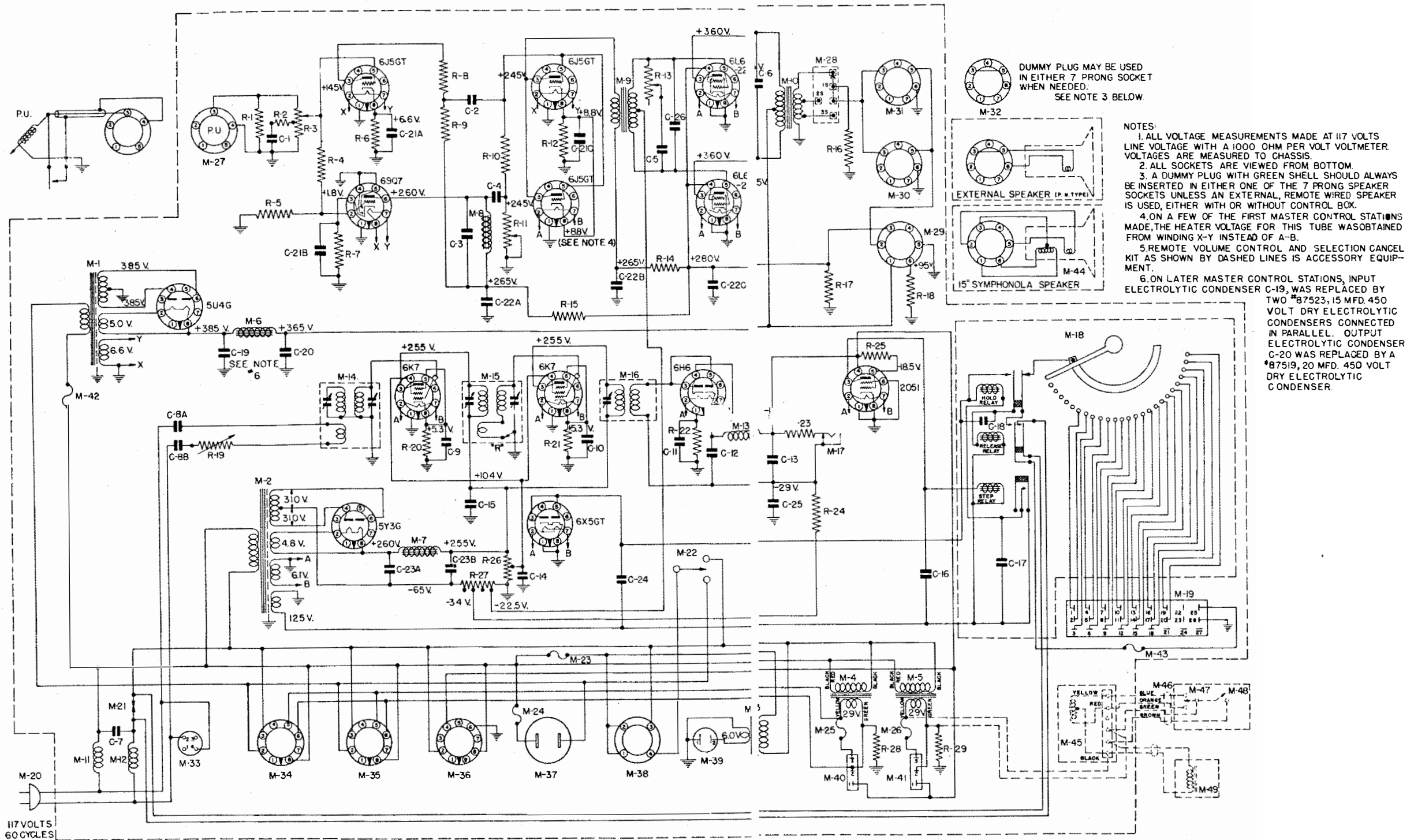


FIG. 5 - SCHEMATIC DIAGRAM OF TYPE MCS25-1 MASTER CONTROL STATION

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

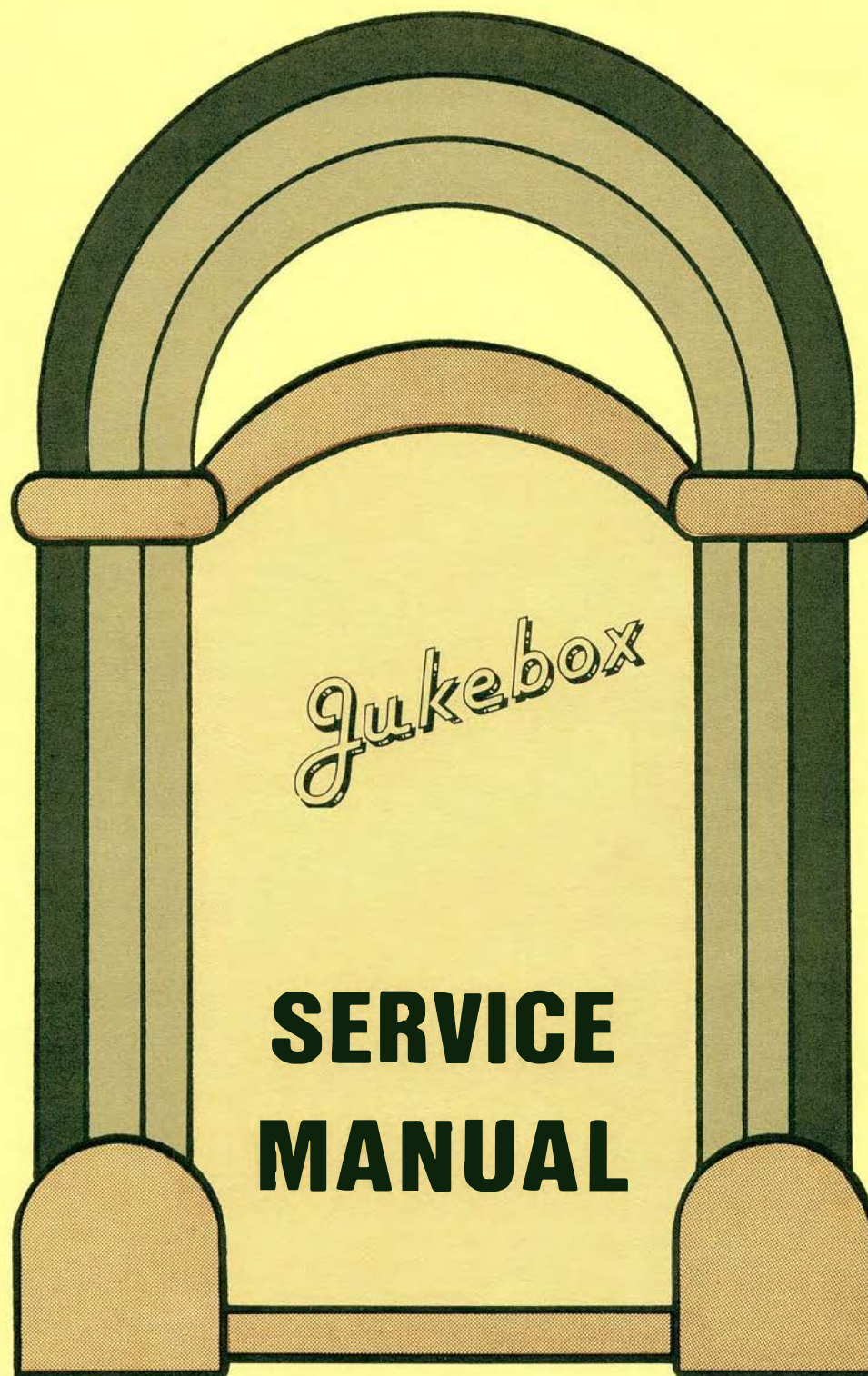
ITEM	PART NO.	DESCRIPTION	PRICE
C23A } C23B } C24 C25	87517 87523 87521	{ - 20 Mfd. 450 Volts Dry. } { - 20 Mfd. 450 Volts Dry. } - 15 Mfd. 450 Volts Dry. - 10 Mfd. 50 Volts Dry	\$.65 .45 .25
MICA CONDENSERS			
C26 C27	85016 85022	- .002 Mfd. 2000 Mmf. 10%. - .0025 Mfd. 2500 Mmf. 10% . . . . .	.20 .20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



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).

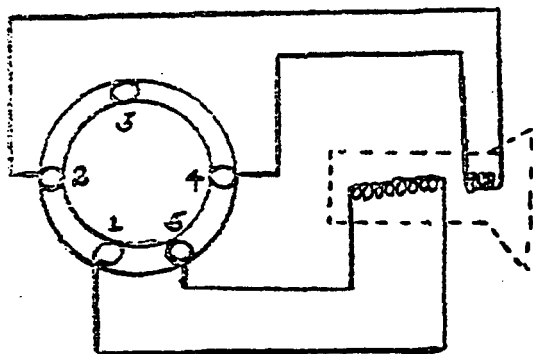
SPEAKERS

Geoburg Number	Mfg's. Number	Mfg'd. By	Size	Instrument (note 1)	Amplifier	Diagram	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	"	5	Model D	SB-8	E	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-710	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			

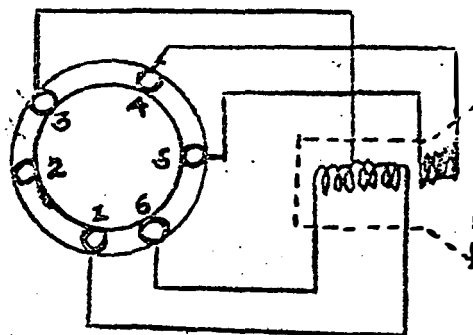
SPEAKERS

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	Clawzio	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-18	9SFS-10	A	11 to 5 - 1600	8	160146 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.
23090	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

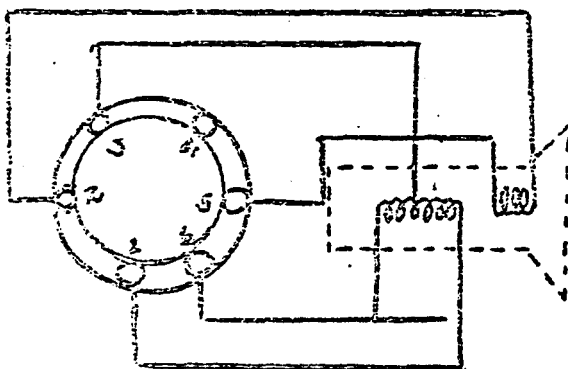
SPEAKERS CONNECTIONS



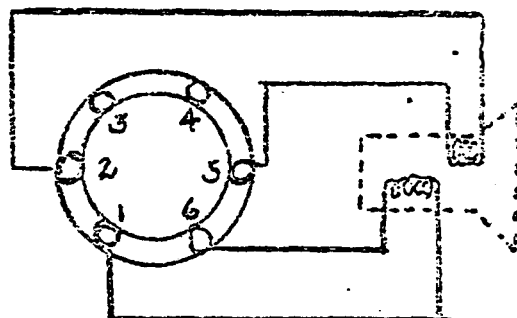
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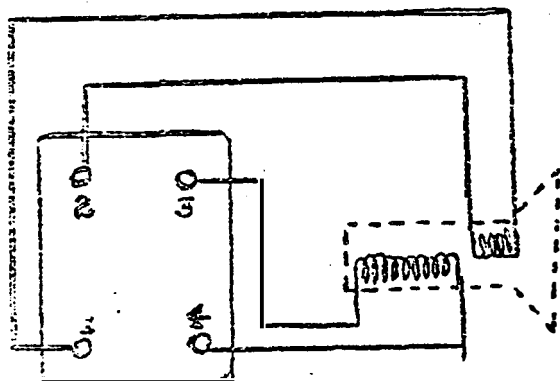
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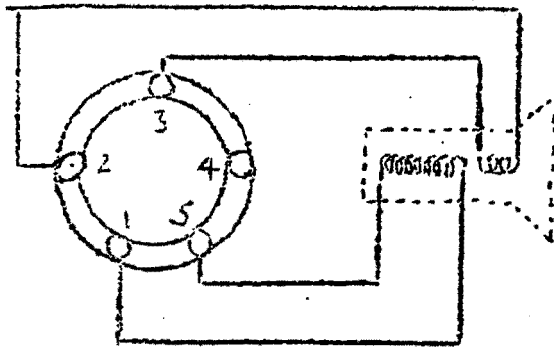


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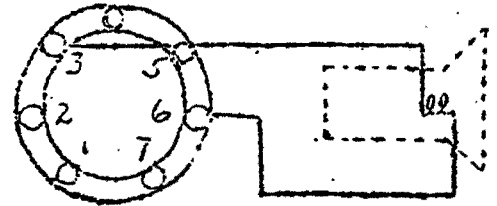


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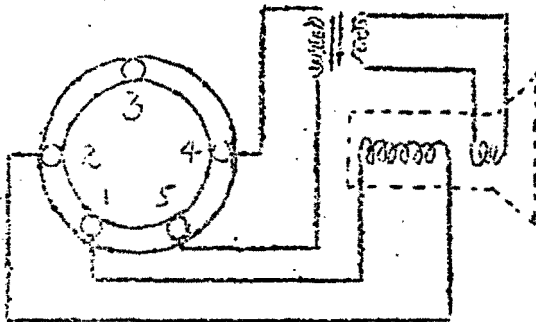
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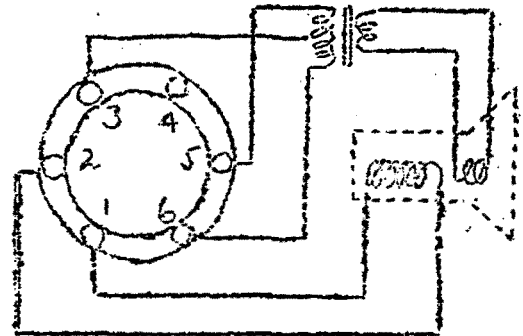
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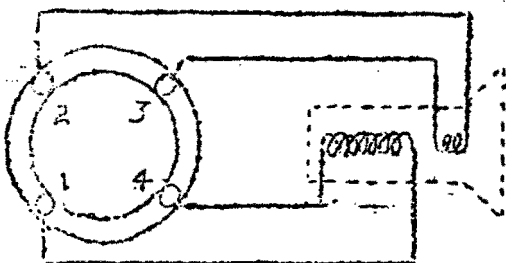
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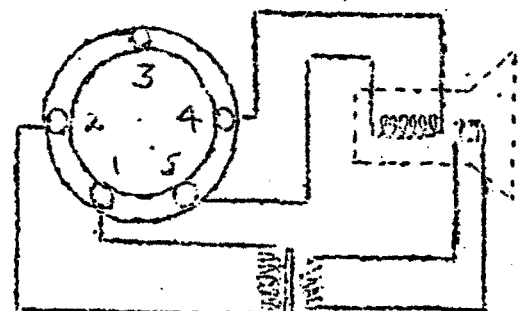
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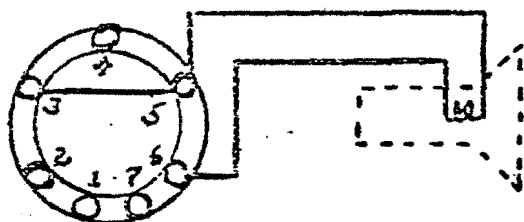


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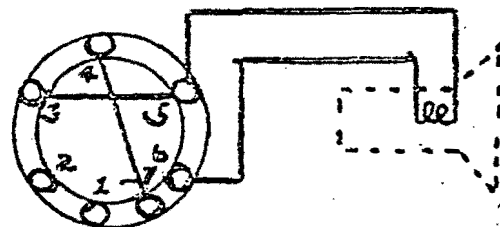


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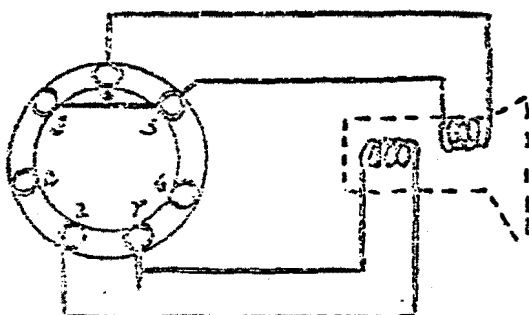
EXTRA SPEAKER PLUG WIRING



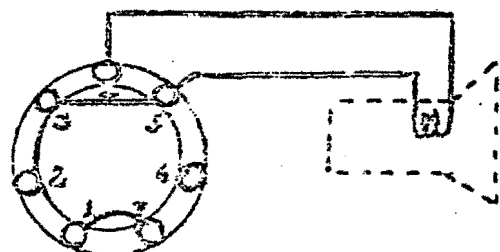
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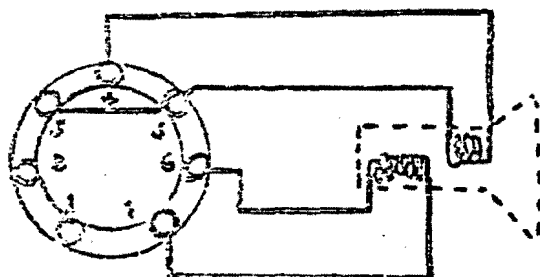
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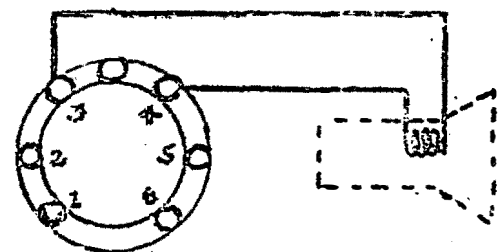
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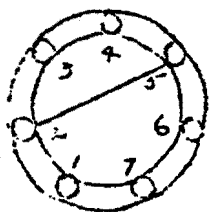


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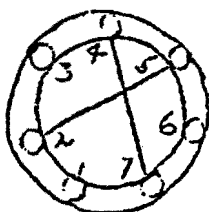


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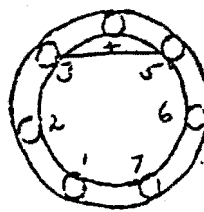
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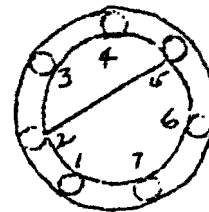
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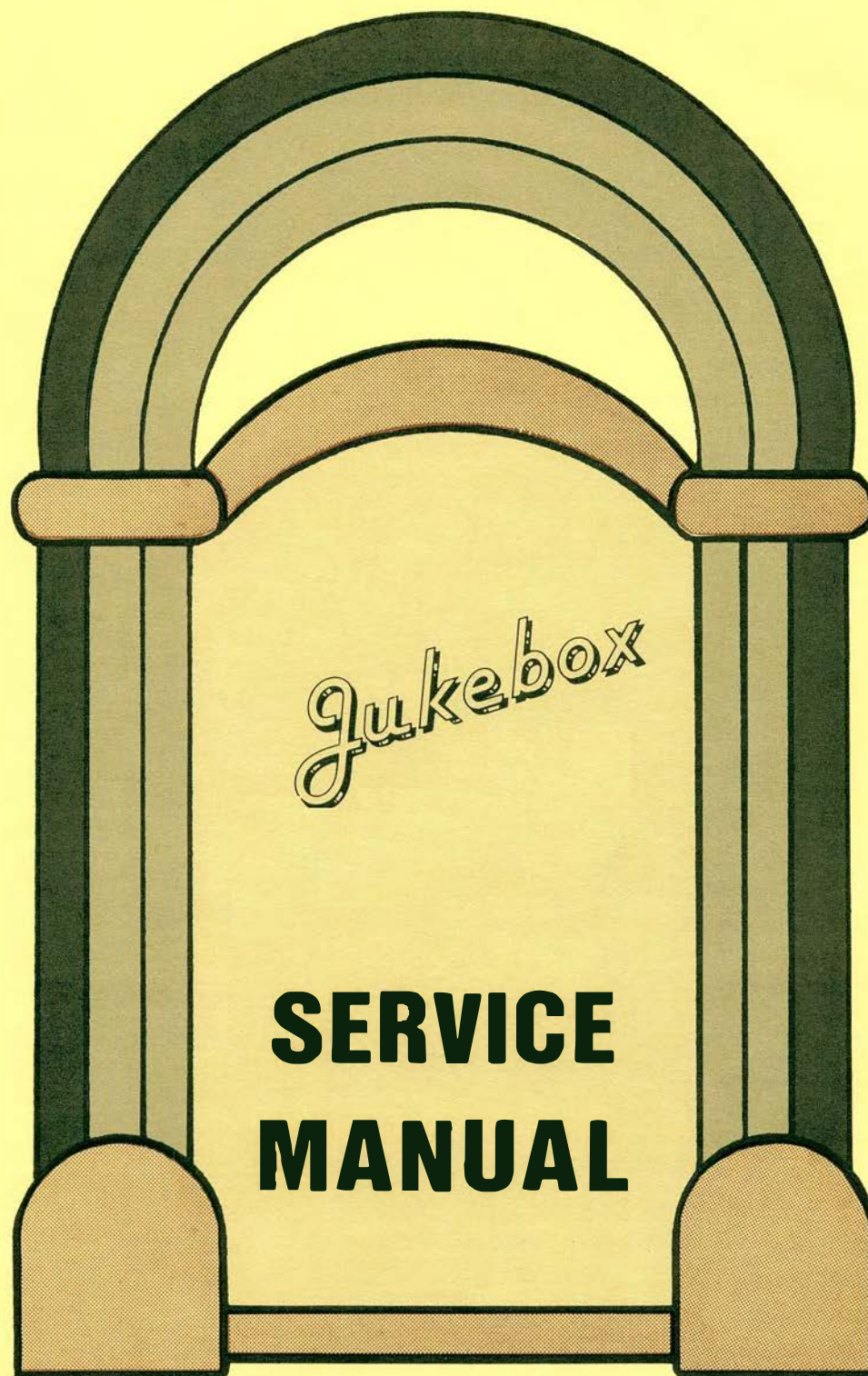
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3



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

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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	MC825-5	- Master Control Station (for Model 8800 only)	1	76.50
3	MC825-1	- 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-9827	- 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

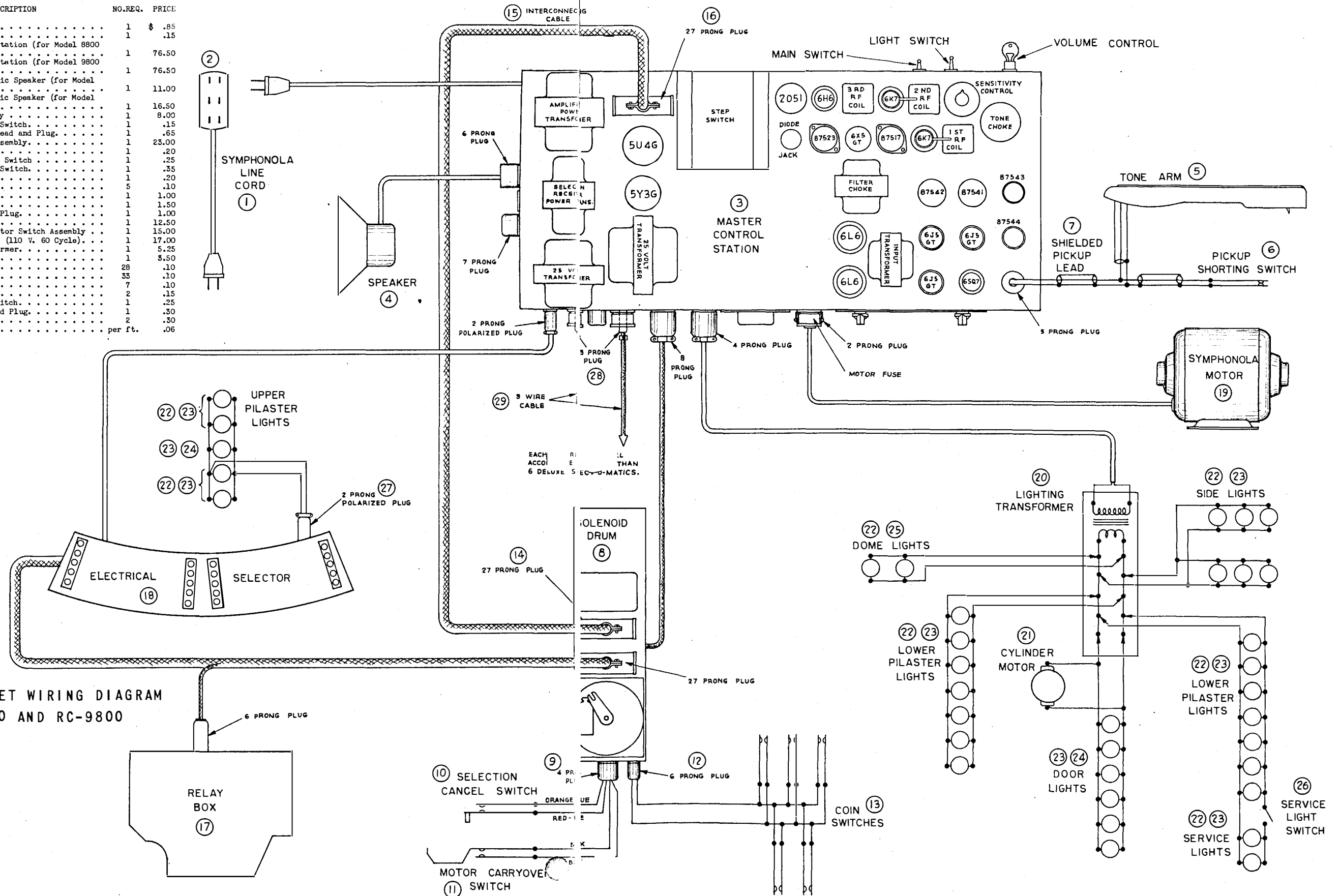


FIG. 2 - CABINET WIRING DIAGRAM FOR RC-7850

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

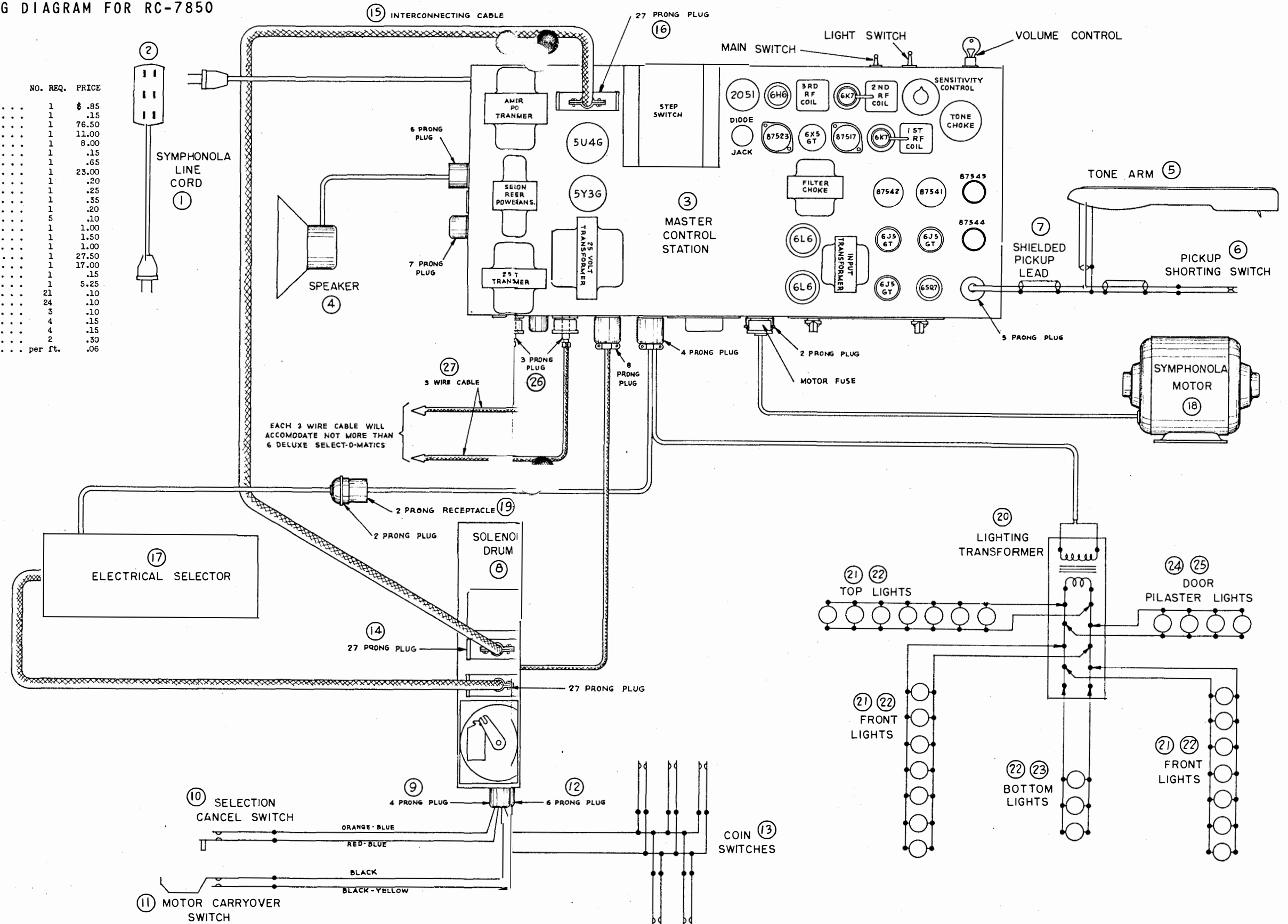
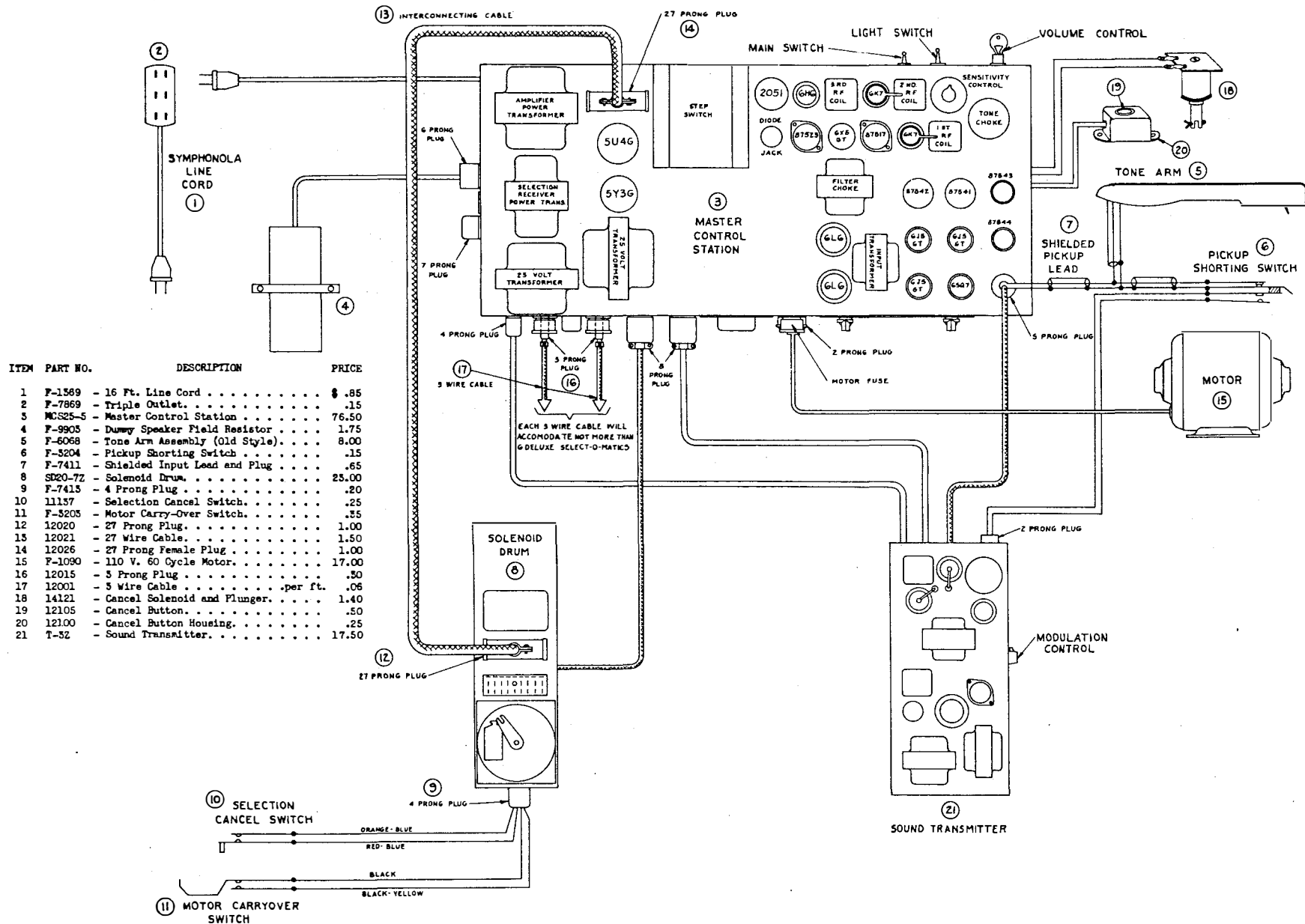


FIG. 3 - CABINET WIRING DIAGRAM FOR TRC-1 SPECIAL



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-7413	- 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	- 3 Prong Plug . . . . .	.50
17	12001	- 3 Wire Cable . . . . .	.06
18	14121	- Cancel Solenoid and Plunger	1.40
19	12105	- Cancel Button . . . . .	.50
20	12100	- Cancel Button Housing . . . . .	.25
21	T-52	- Sound Transmitter	17.50

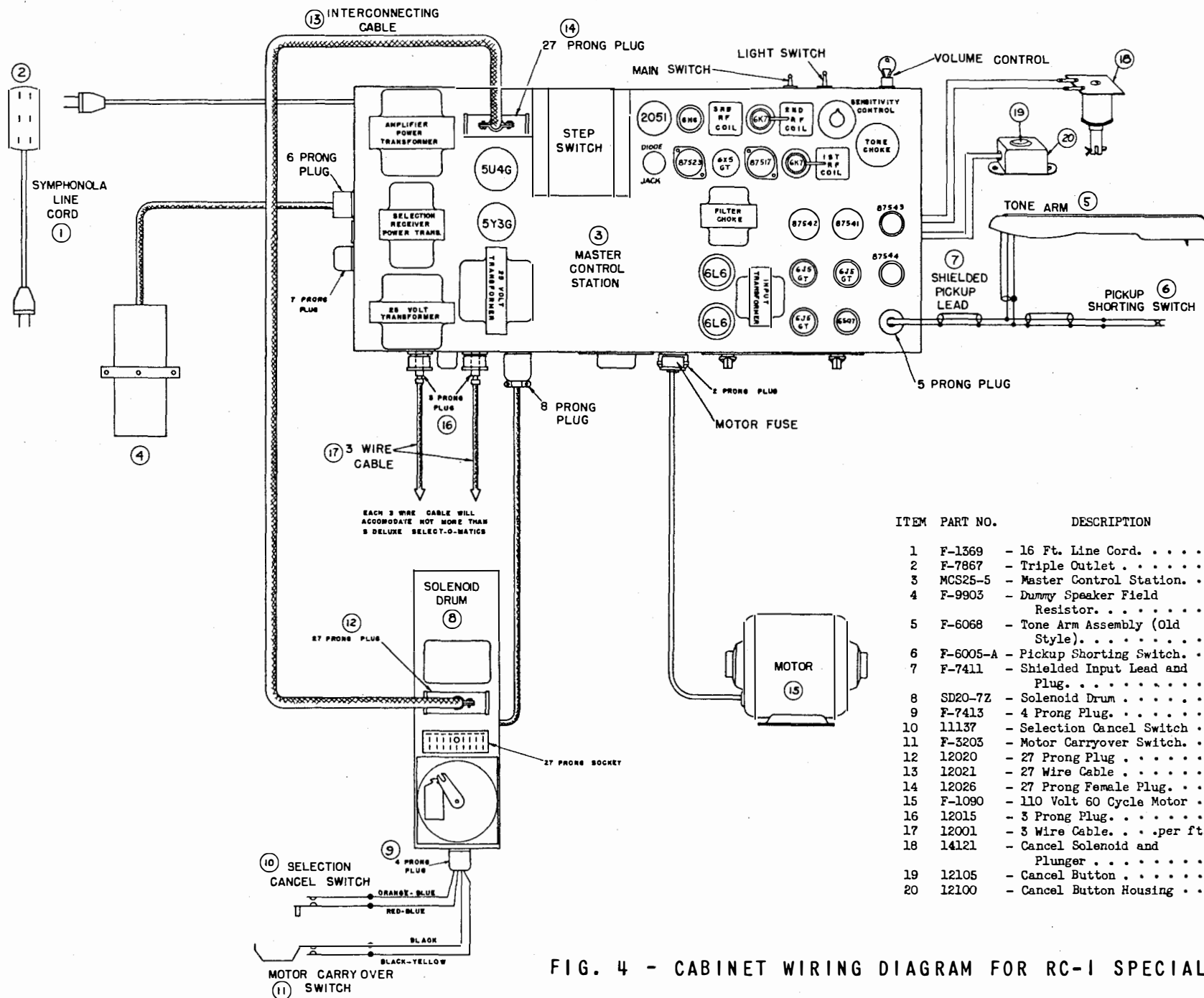
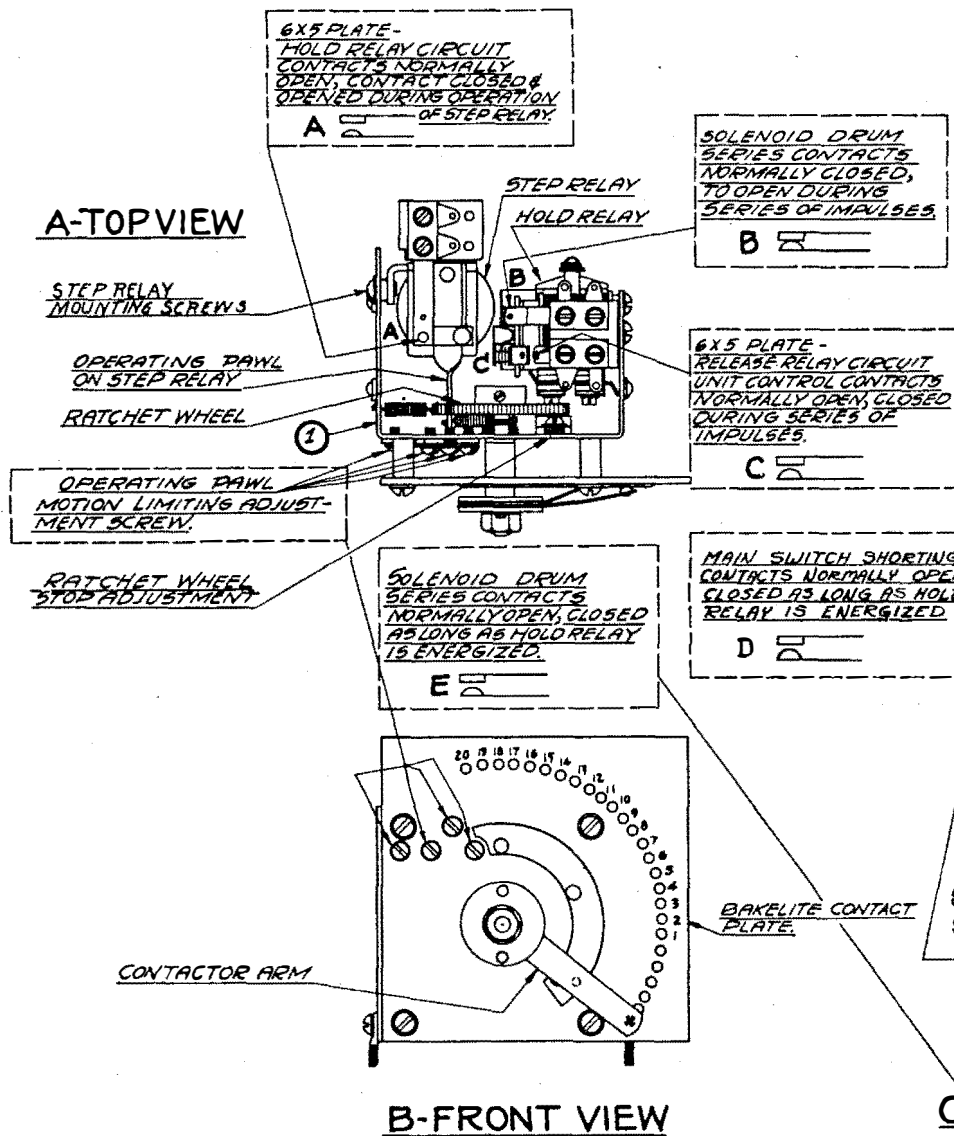


FIG. 4 - CABINET WIRING DIAGRAM FOR RC-1 SPECIAL

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. -

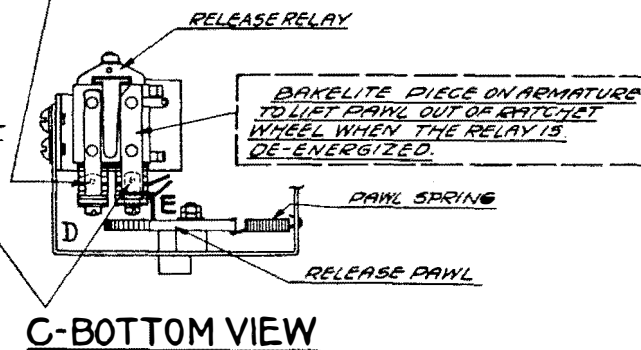
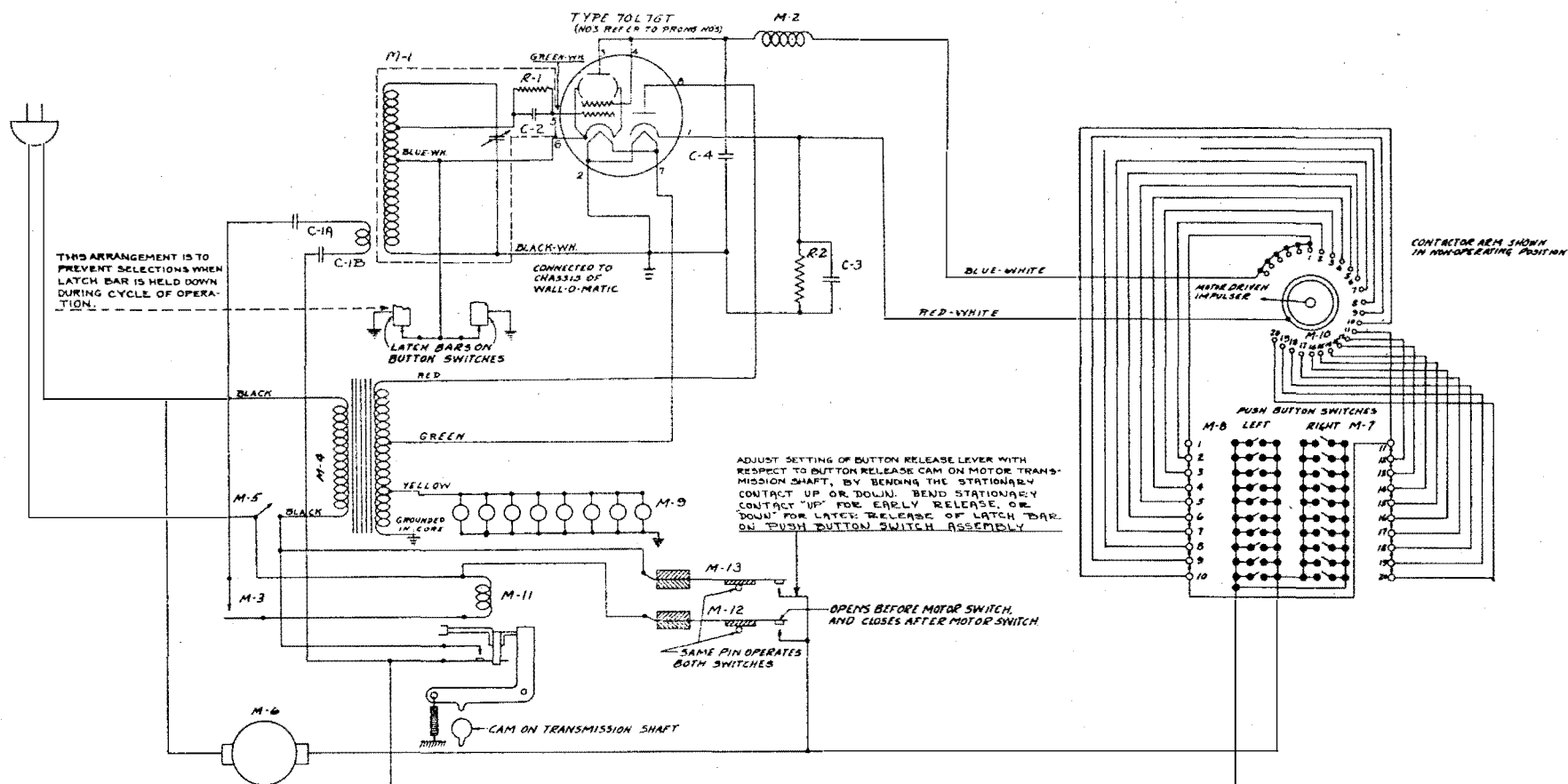
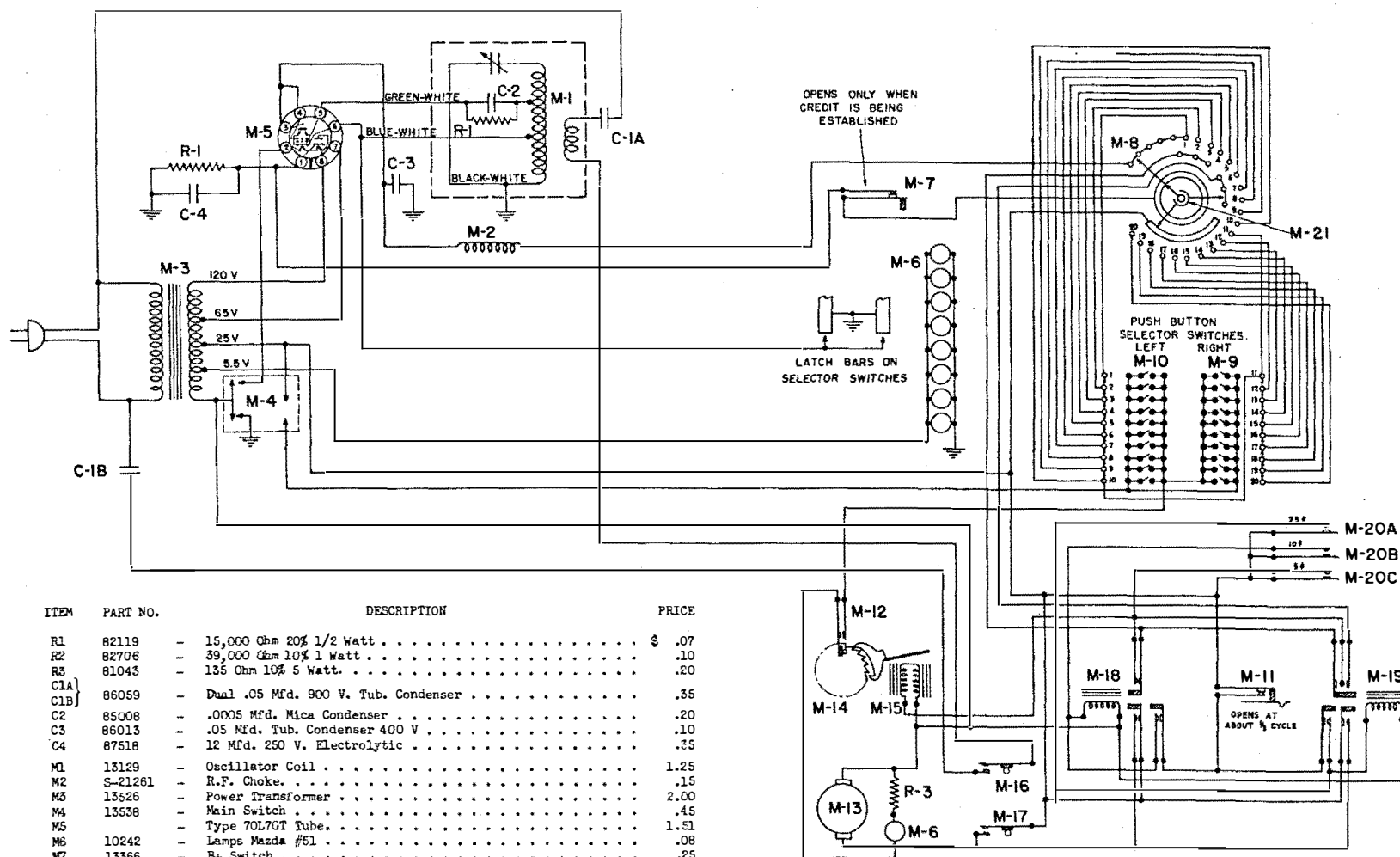


FIG. 8 - SCHEMATIC DIAGRAM OF TYPE WS-2Z WALL-O-MATIC (5¢)



ITEM	PART NO.	DESCRIPTION	PRICE	ITEM	PART NO.	DESCRIPTION	PRICE	ITEM	PART NO.	DESCRIPTION	PRICE
RESISTORS											
R1	82438	- 15,000 Ohms 1/2 Watt 10%	\$.07	C2	85003	- .0005 Mfd. Mica Condenser. . . .	.20	M5	10961	- Main Switch. . . .	.35
R2	82706	- 39,000 Ohms 1 Watt 10% . . . . .	.10	C3	87518	- 12 Mfd. 250 V. Lytic. . . . .	.35	M6	13043	- Motor Assembly . .	5.00
				C4	86013	- .05 Mfd. 400 V. Tub: Condenser .	.10	M7	13089	- Selector Switch Right.	2.25
CONDENSERS											
CLA	86059	- .05 Mfd. 900 V. Tubular Con-	.35	MISCELLANEOUS							
CLB		- .05 Mfd. 900 V. Tubular Con-		M1	13129	- Oscillator Coil. .	1.25	M8	13090	- Selector Switch Left.	2.25
				M2	S21261	- R.F. Choke . . . .	.15	M9	10242	- Lamps - Mazda #51.	.08
				M3	14087	- Coin Switch. . . .	.45	M10	13005	- Selector Plate Assembly . . . .	.75
				M4	13056	- Transformer. . . .	1.35	M11	13141	- Coin Relay Assembly	1.40
								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			
C2	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. . . . .	.80
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	13524	- Coin Switch Assembly.	1.25
M20B			
M20C			
M21	13347	- Contact Arm Assembly. . . . .	.75

FIG. 1

FIG. 2

BOTH OPEN AT END OF ONE REVOLUTION OF ROTARY SHAFT

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	- C.E. Lamps #51. . . . .	.08
M4	13384	- 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-5851	- 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¢)

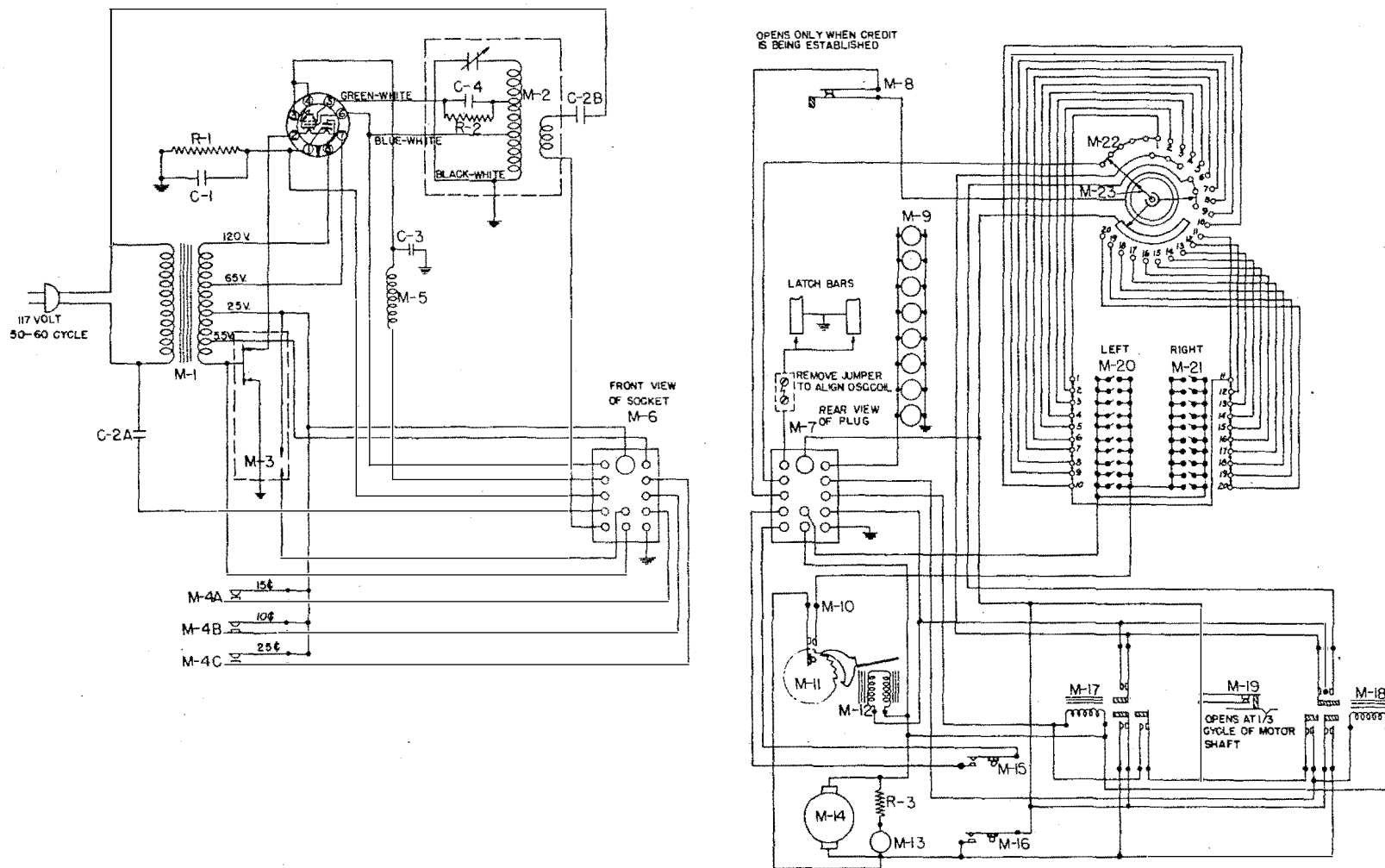
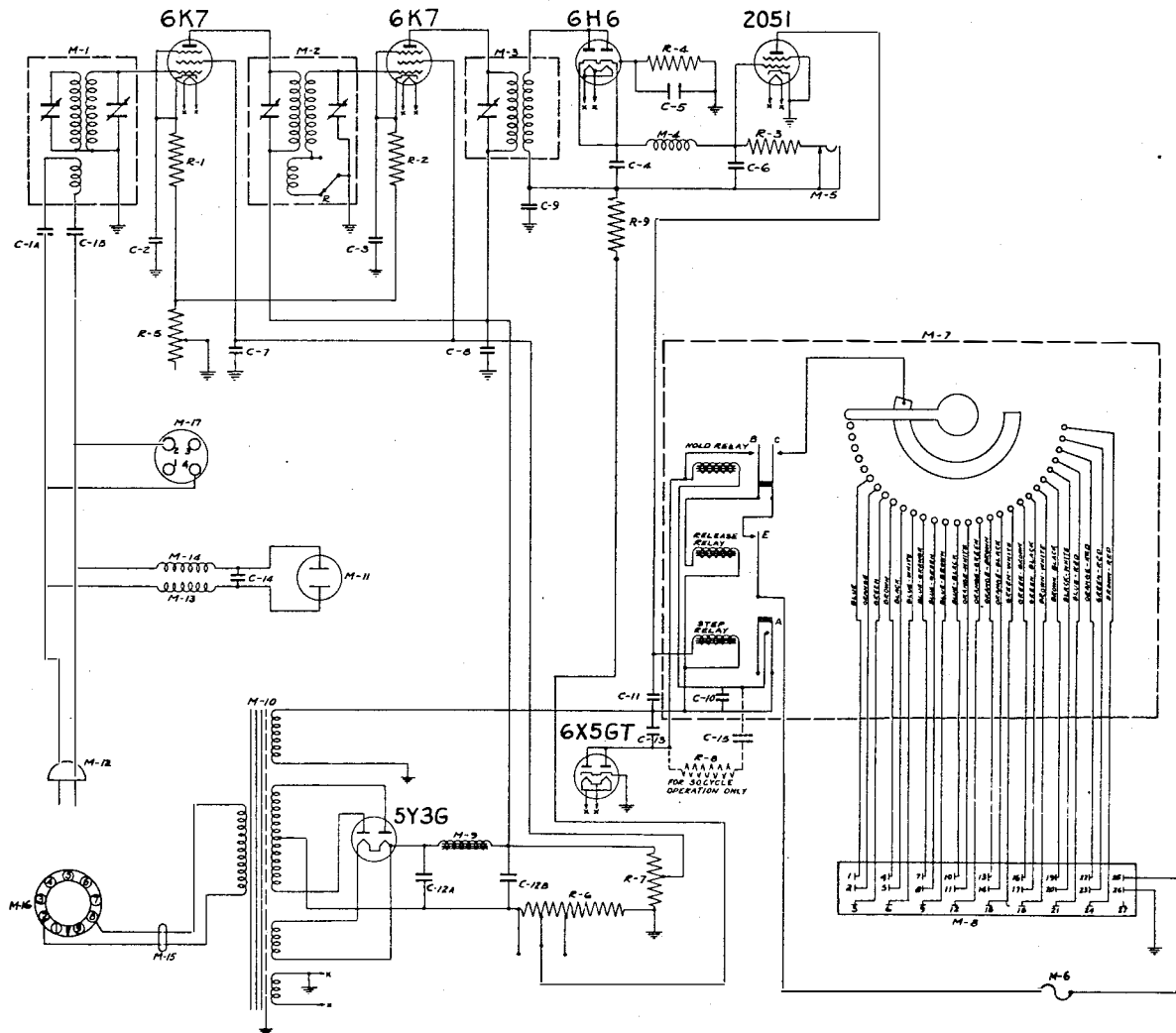


FIG. 11 - SCHEMATIC DIAGRAM OF TYPE WB-1Z BAR-O-MATIC (5¢-10¢-25¢)

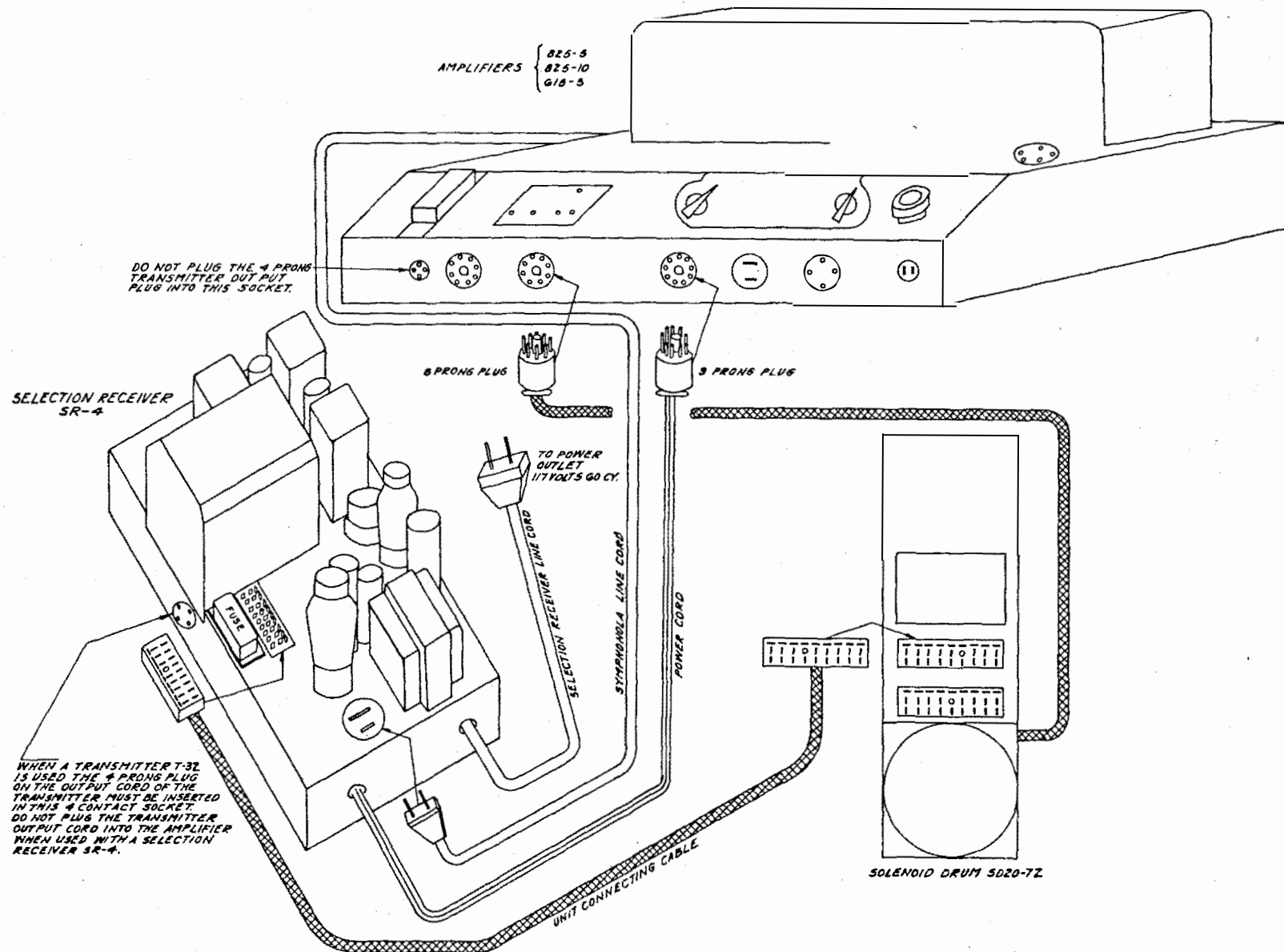
ITEM	PART NO.		DESCRIPTION	PRICE
M1	13294	-	Power Transformer	\$ 2.00
M2	13295	-	Oscillator Coil Assembly	1.25
M3	13538	-	Switch . . . . .	.45
M4A } M4B } M4C }	13298	-	Coin Switch Assembly	1.25
M5	13296	-	R.F. Choke . . . . .	.25
M6	13297	-	Socket (13 Contact) . . . . .	.20
M7	13384	-	Plug (13 Contact) . . . . .	.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	10835	- 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 Cord15
M16	12004	- 9 Prong Plug25
M17	12032	- Small 4 Contact Socket15



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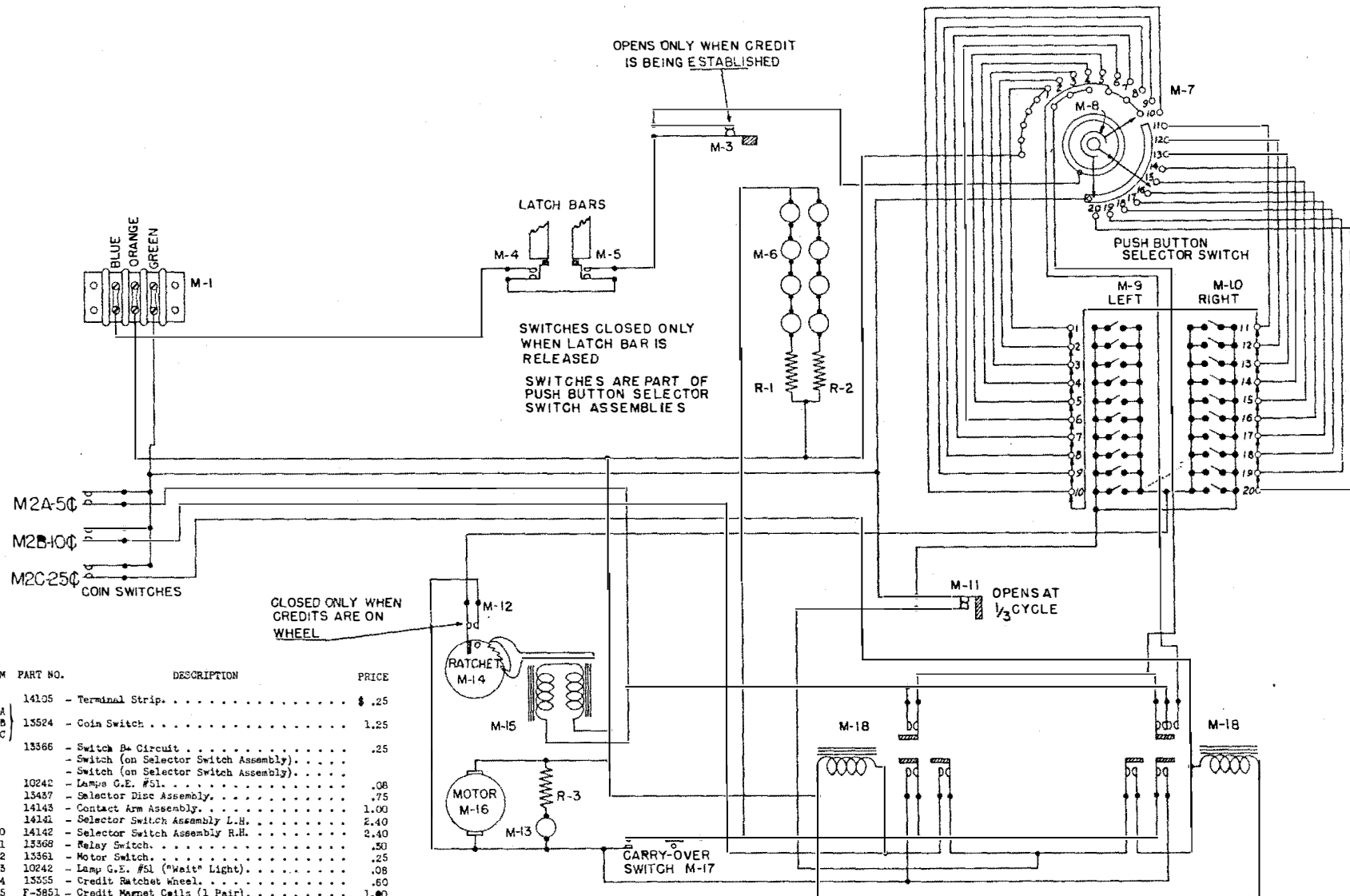


DELUXE SELECT-O-MATIC (5¢)



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 A 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 Cells (1 Pair)	1.00
M16	13358	- 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 Watt07
R2	82718	- Resistor 22 Ohm 1 Watt07
R3	81045	- Resistor 135 Ohm Wire Wound20

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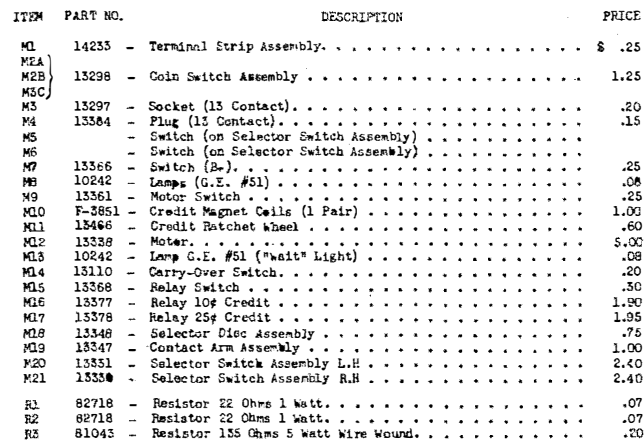
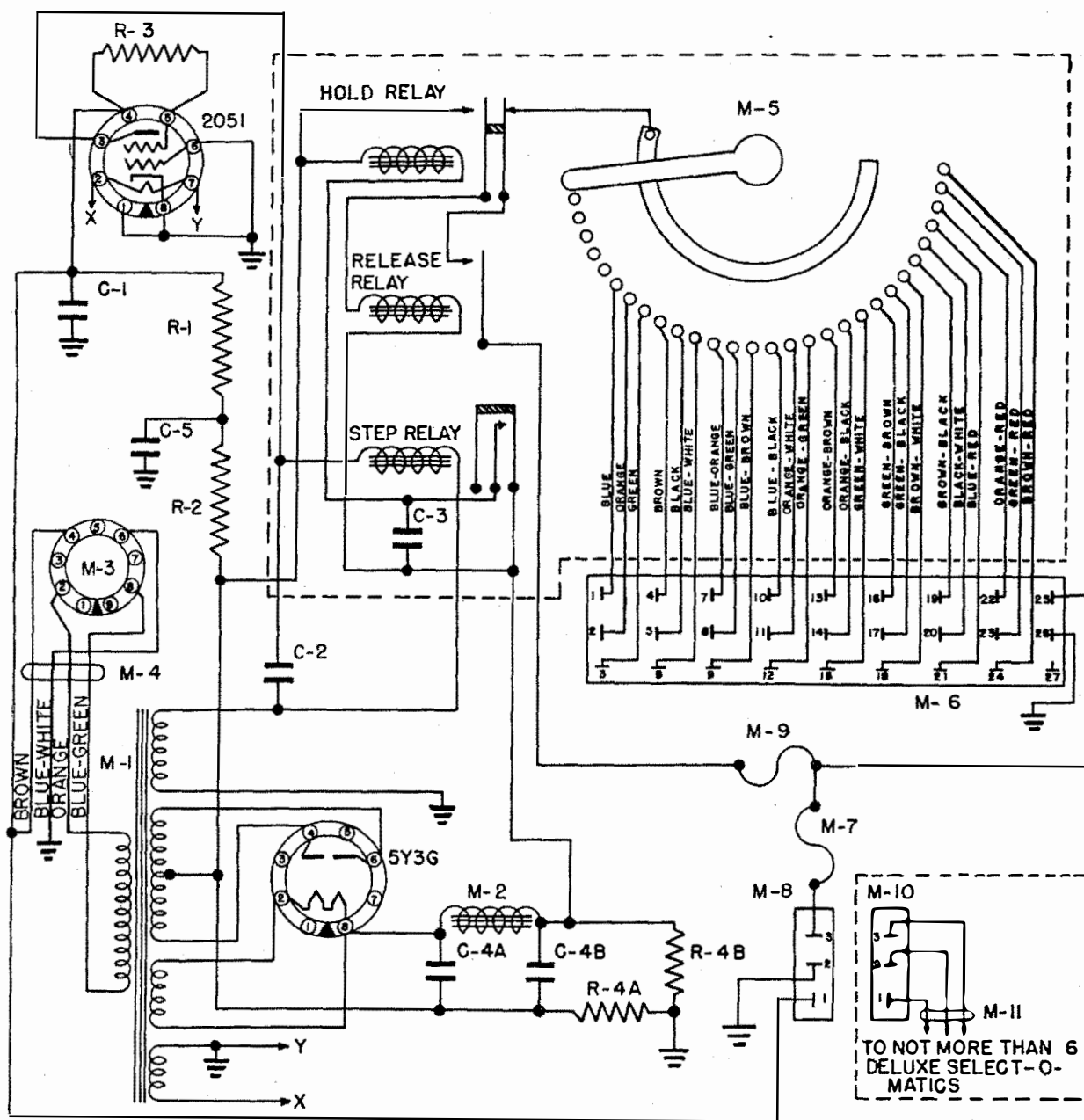
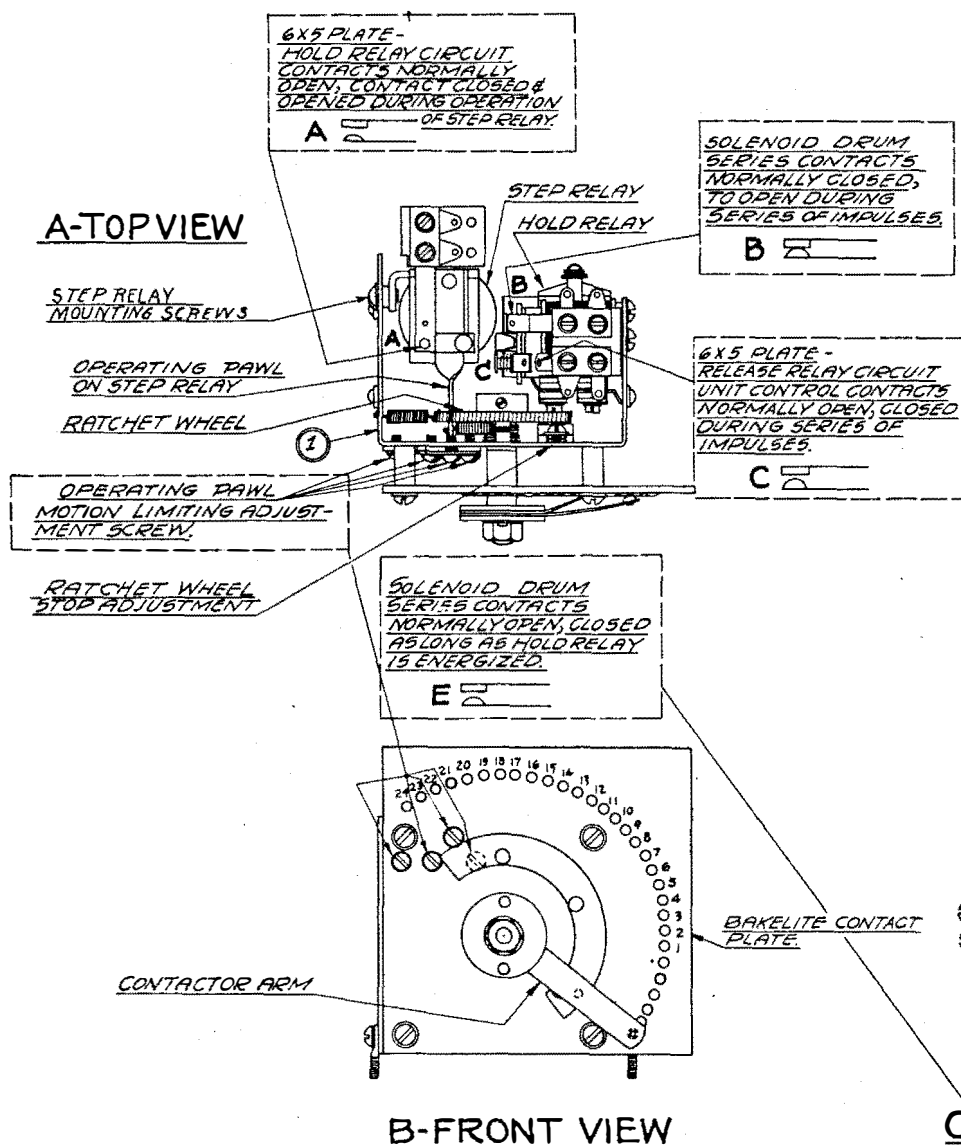


FIG. 17 - SCHEMATIC DIAGRAM OF TYPE SS20-1 STEP SELECTOR



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 }	4750 Ohms Wire Wound 10%	
C3 86015	- .01 Mfd. 600 Volts . . . . .	.10	MISCELLANEOUS		
ELECTROLYTIC CONDENSERS					
G4A } 87517 {	- 20 Mfd. 450 Volts Dry . . . . .	.65	M1 12002	- Power Transformer	2.25
G4B }	- 20 Mfd. 450 Volts Dry		M2 10840	- Filter Choke . . . . .	.60
C5 87521	- 10 Mfd. 50 Volts Dry . . . . .	.25	M3 12004	- 9 Prong Plug . . . . .	.25
RESISTORS			M4 12003	- Power Cable . . . . .	.35
R1 82442	- 33,000 Ohms 1/2 Watt 10% . . . . .	.07	M5 50142	- Step Switch Assembly	10.50
R2 82442	- 33,000 Ohms 1/2 Watt 10% . . . . .	.07	M6 12022	- 27 Prong Male Socket	1.00
R3 82454	- 330,000 Ohms 1/2 Watt 10% . . . . .	.07	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 . . . . .	.30
			M11 12001	- 3 Wire Cable . . . . .	.06 per ft.

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



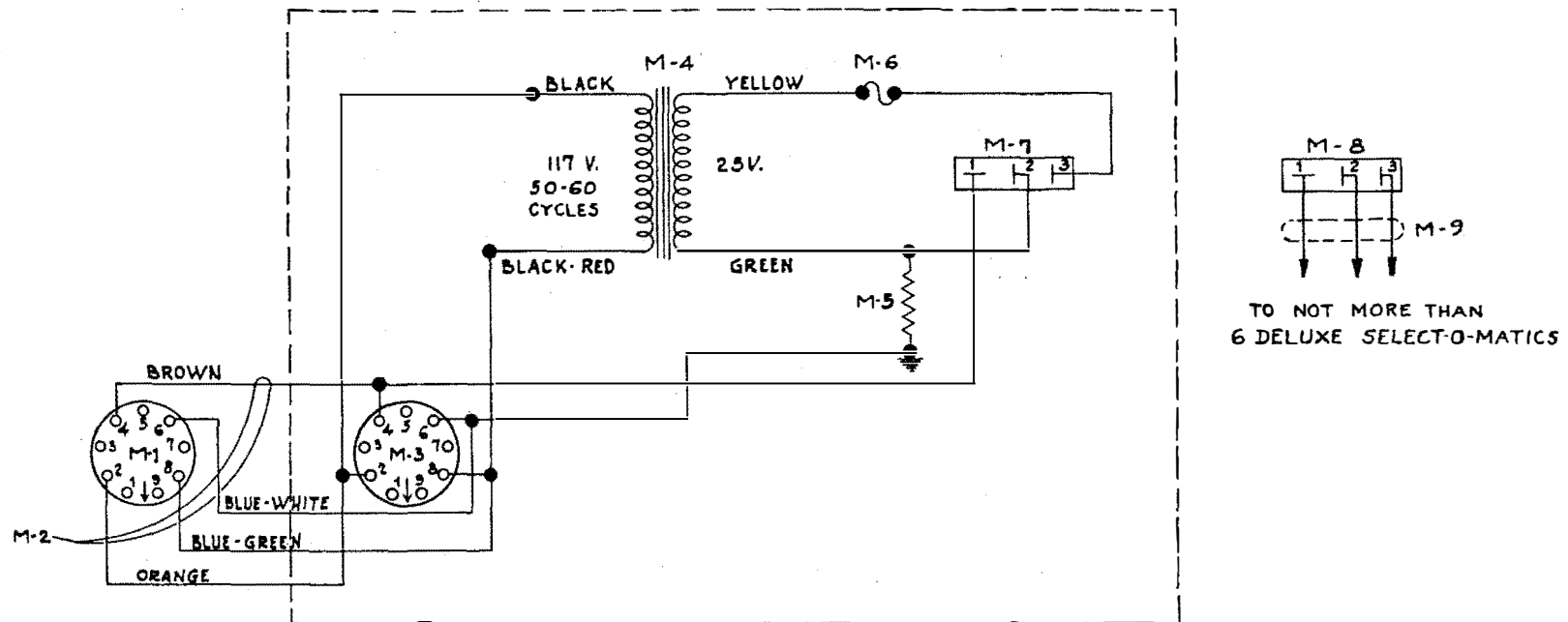
ITEM PART NO. DESCRIPTION NO. REQ. PRICE

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

FIG. 19 - SCHEMATIC DIAGRAM OF TYPE PS6-1Z POWER SUPPLY



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

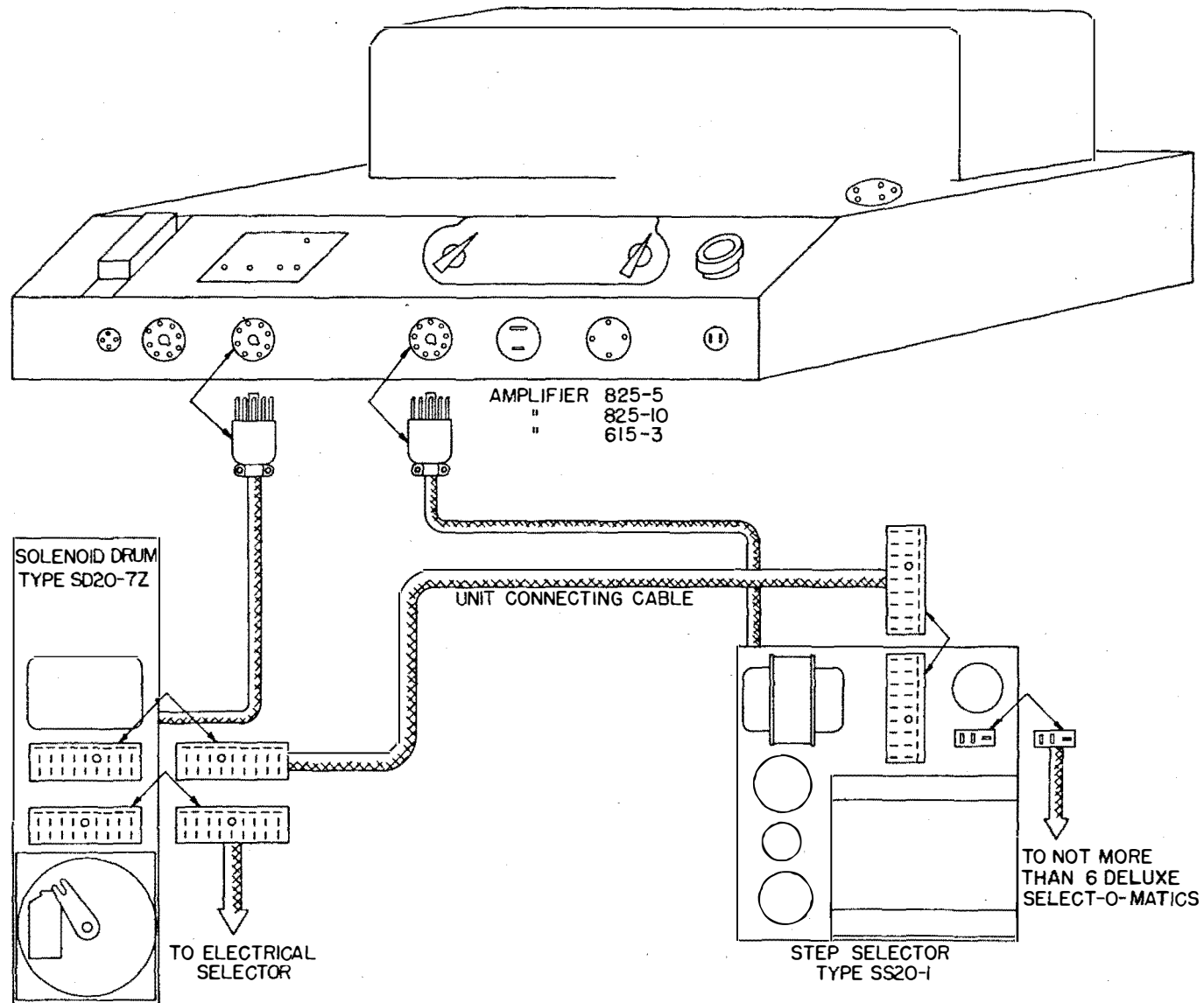
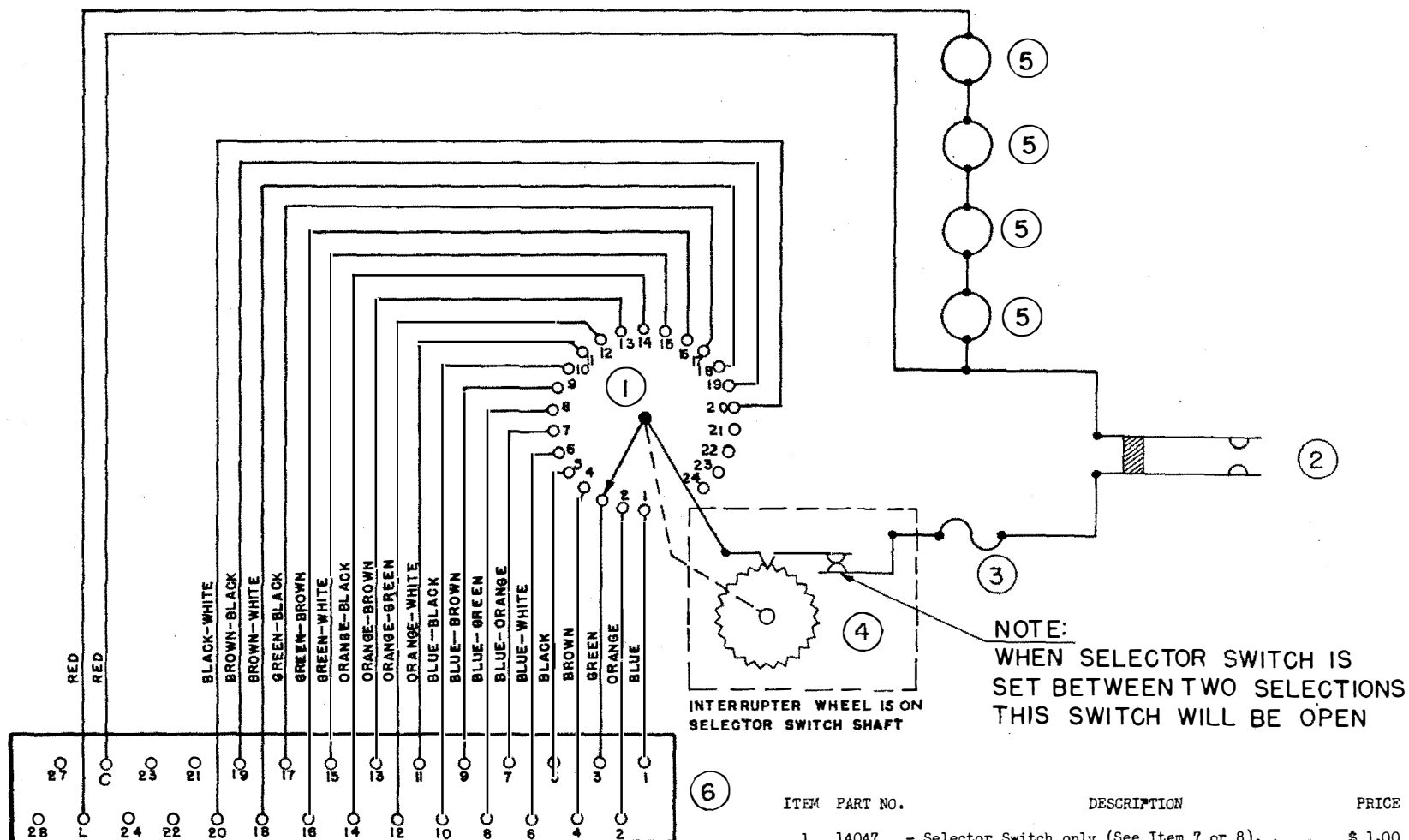
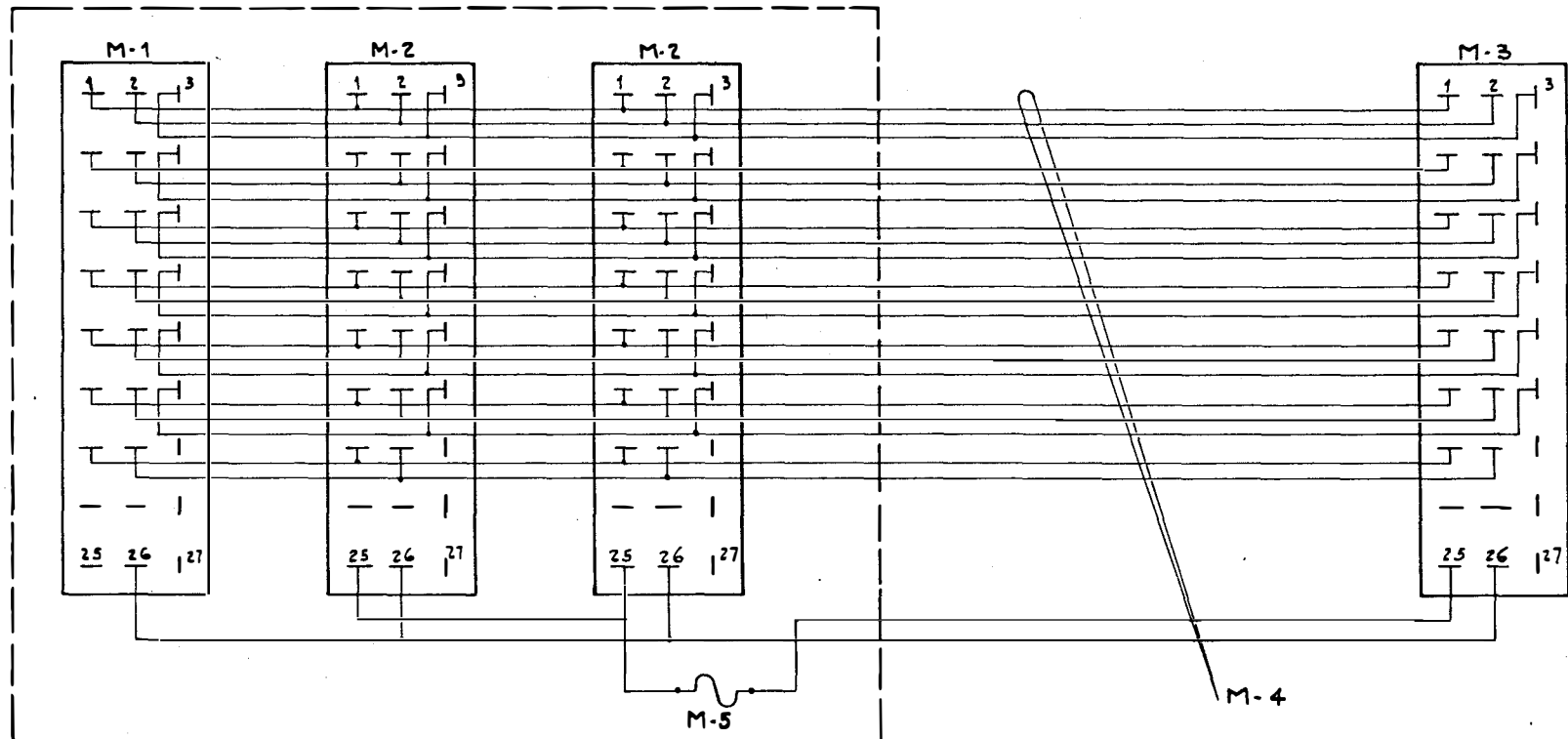


FIG. 21 - SCHEMATIC DIAGRAM OF TYPE S20-1Z SELECT-O-MATIC.



ITEM	PART NO.	DESCRIPTION	PRICE
1	14047	- Selector Switch only (See Item 7 or 8).	\$ 1.00
2	14087	- Coin Switch	.50
3	12224	- 1/2 Amp. Solenoid Fuse.	.15
4	14086	- Interrupter Switch Assembly only (See Item 7 or 8)	.75
5	10242	- #51 Mazda Lamp.	.08
6	14072-A	- Terminal Strip Assembly	.40
7	14145-A	- Selector Switch Assembly complete with Interrupter Switch.	1.75
8	14146-A	- Selector and Interrupter Switch complete wired to Terminal Strip	2.50

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

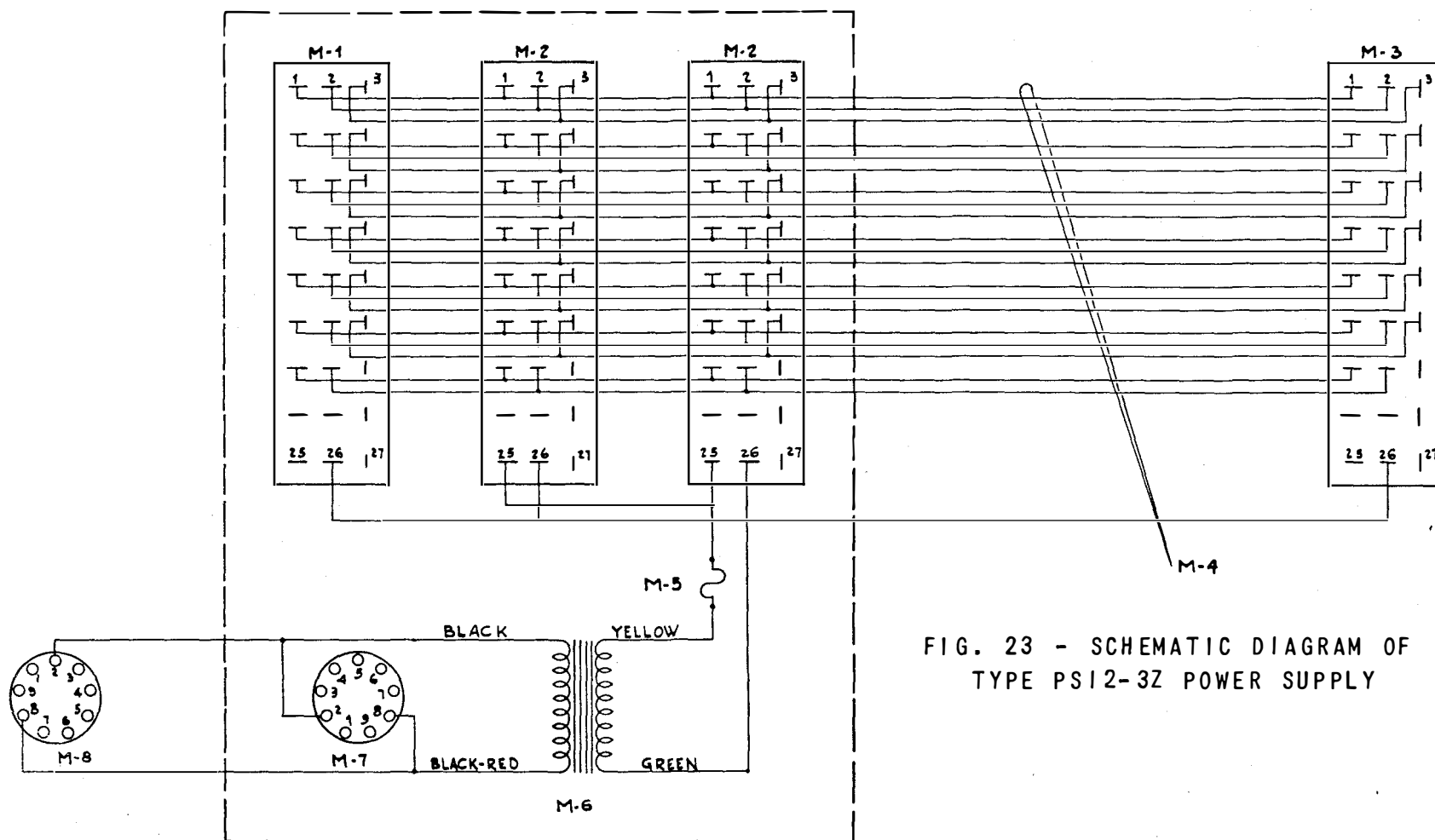


FIG. 23 - SCHEMATIC DIAGRAM OF
TYPE PS12-3Z POWER SUPPLY

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

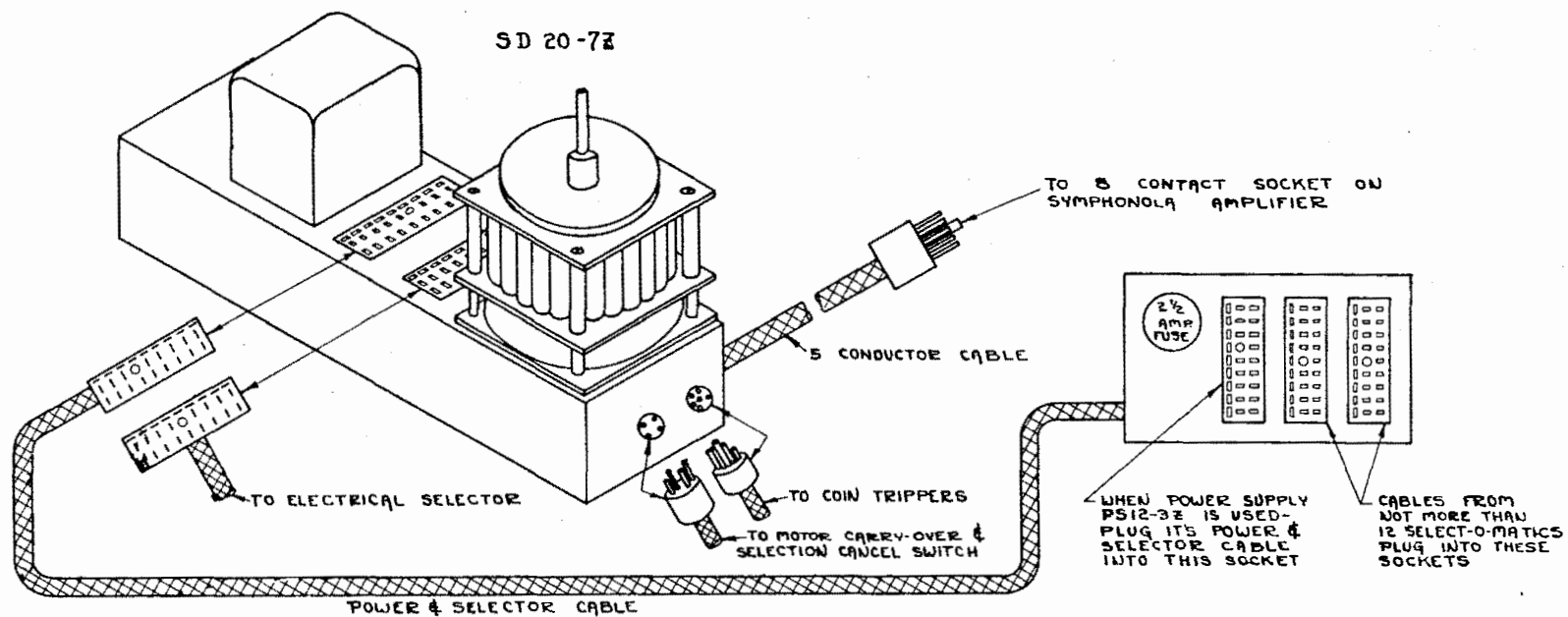
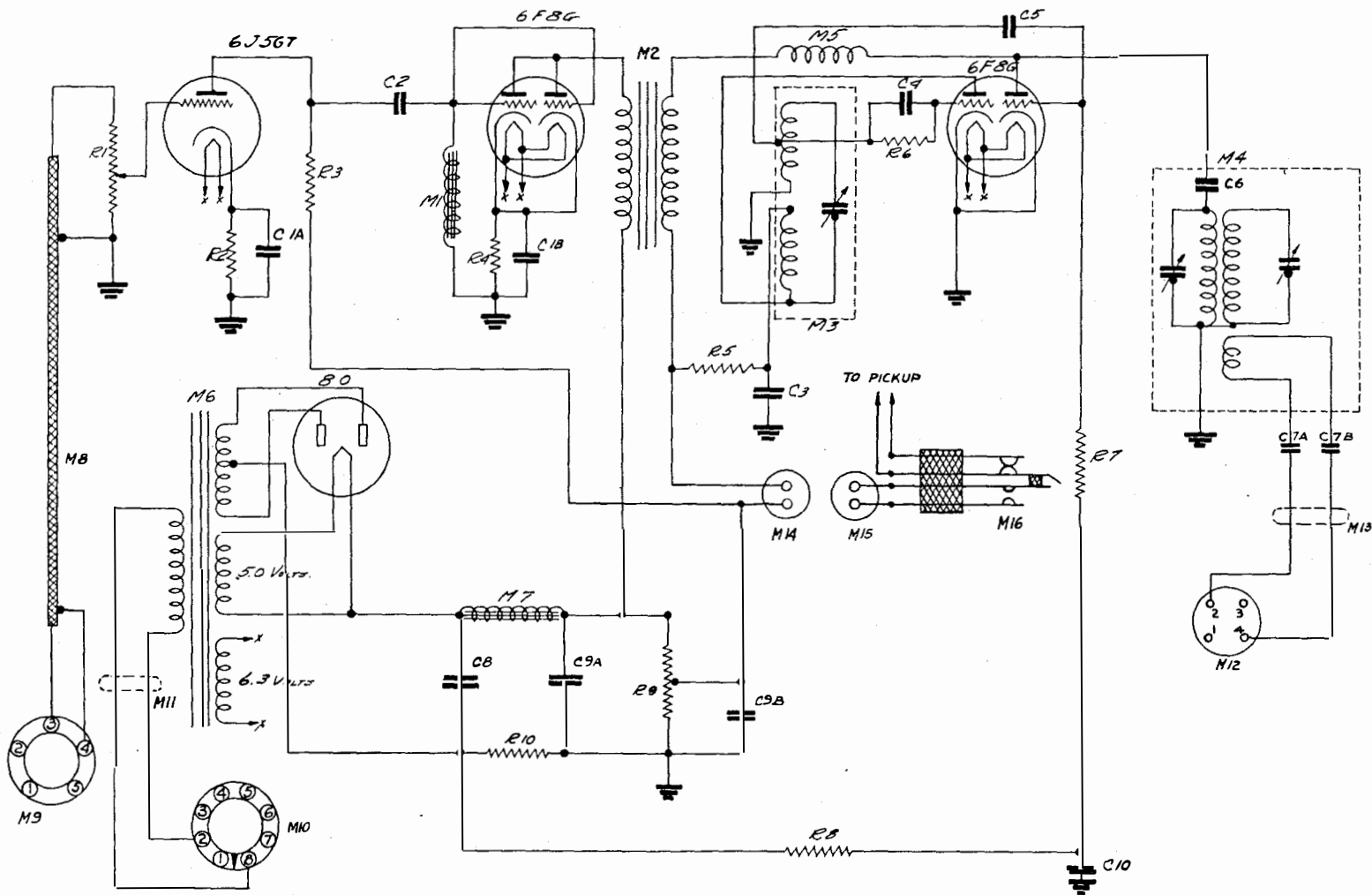


FIG. 25 - SCHEMATIC DIAGRAM OF TYPE T-3Z TRANSMITTER



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	86026	- .015 Mfd. 400 V. Tubular	\$.10	M3	30148	- Oscillator Coil Assembly	\$.75
R2	82427	- 1800 Ohm 1/2 Watt ± 10% . . . . .	.07	C3	86013	- .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 Mmfr.) Mica . . . . .	.20	M5	11012	- R-F. Choke . . . . .	.35
R4	82421	- 560 Ohm 1/2 Watt ± 10% . . . . .	.07			10% . . . . .	.20	M6	11022	- Power Transformer	2.25
R5	82441	- 27,000 Ohm 1/2 Watt ± 10% . . . . .	.07	C7B	86060	- .20 Mfd. 600 V. Tubular . . . . .	.40	M7	11007	- Filter Choke	1.25
R6	82444	- 47,000 Ohm 1/2 Watt ± 10% . . . . .	.07	C8	87519	- 20 Mfd. 450 V. Lytic . . . . .	.60	M8	11469	- Input Lead . . . . .	.30
R7	82444	- 47,000 Ohm 1/2 Watt ± 10% . . . . .	.07	C9	87520	- 10 Mfd. 300 V. Lytic	1.00	M9	12023	- Input Adapter Plug and Socket Assembly . . . . .	.50
R8	82426	- 10,000 Ohm 1/2 Watt ± 10% . . . . .	.07	C9B	87520	- 50 Mfd. 300 V. Lytic	1.00			8 Prong Plug . . . . .	.25
R9	11008	- Candohm 1900-8333 Ohms . . . . .	.50	C10	87521	- 10 Mfd. 50 V. Lytic . . . . .	.25	M1	12126	- Power Cord . . . . .	.20
R10	11009	- Candohm 700 Ohms . . . . .	.20			50 Mfd. 300 V. Lytic	1.00	M2	12126	- 4 Prong Plug . . . . .	.25
CONDENSERS											
MI SCCELLANEOUS											
C1A	87512	- 20 Mfd. 25 V. Lytic . . . . .	.75	M1	11072	- Bass Choke Assembly	1.25	M3	F-3205	- 2 Prong Plug . . . . .	.10
C1B	87512	- 20 Mfd. 25 V. Lytic75	M2	11006	- Modulation Transformer	1.50	M6	F-3024	- Pickup Shorting Switch25

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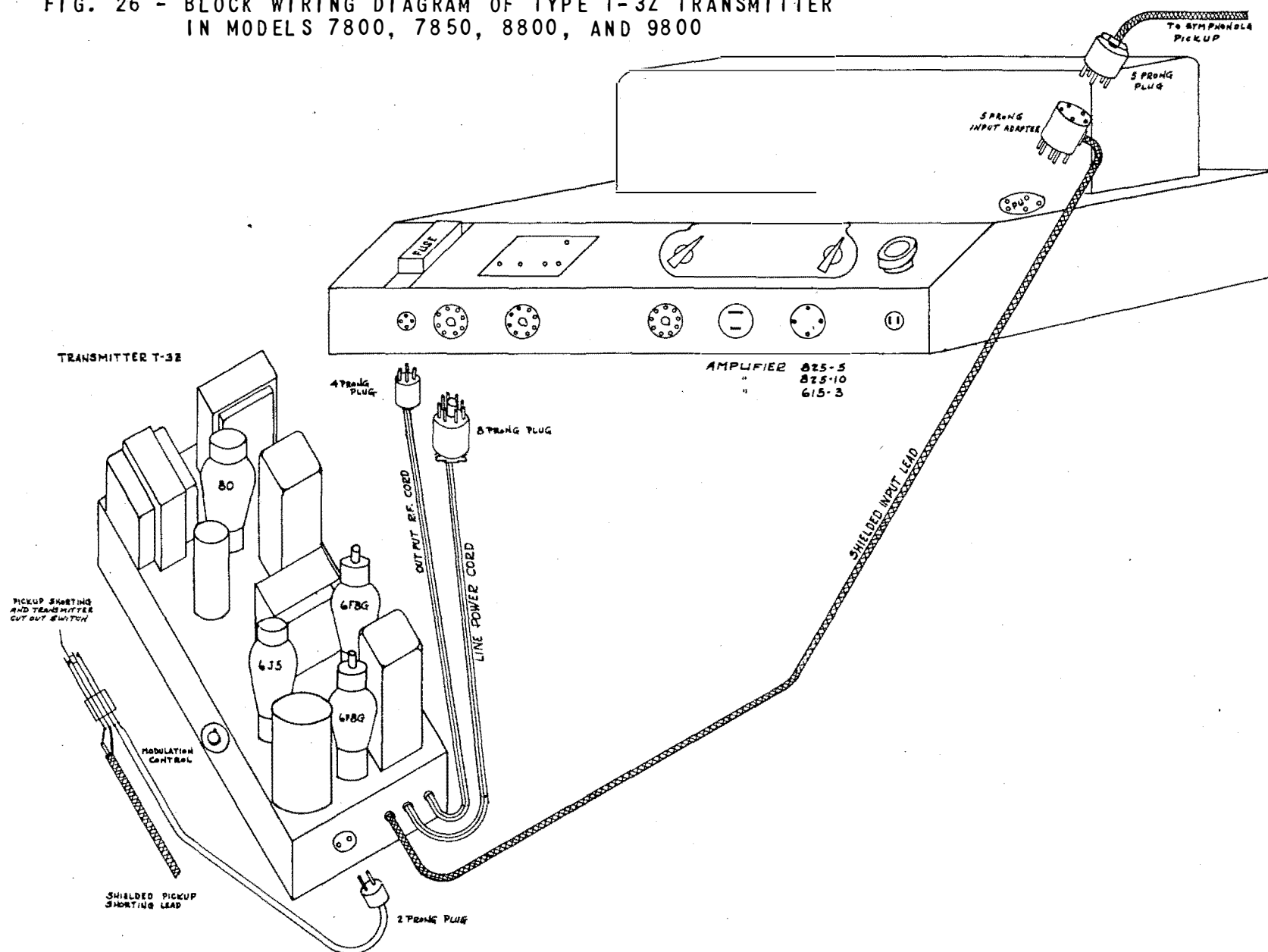
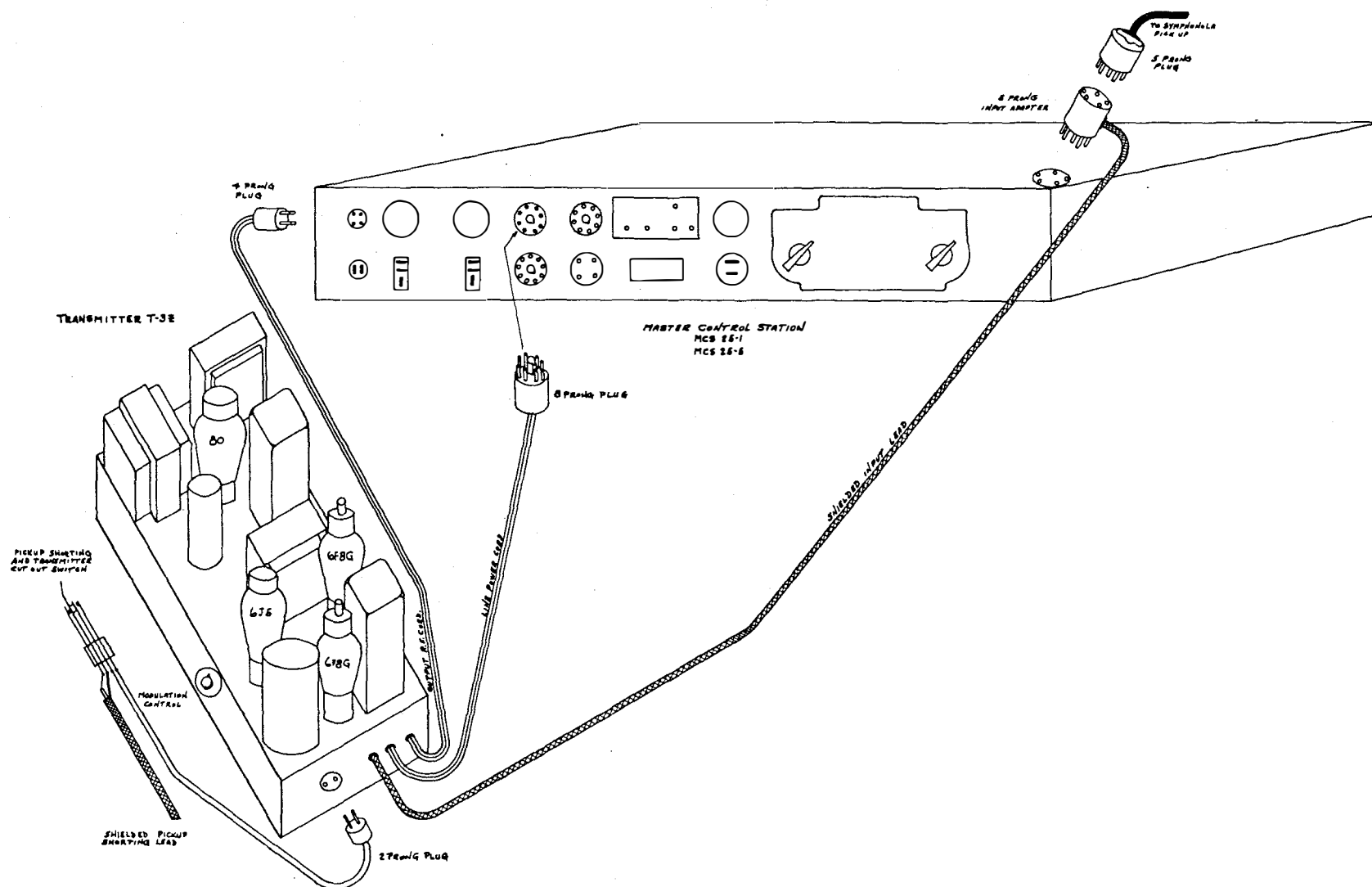


FIG. 27 - BLOCK WIRING DIAGRAM OF TYPE T-3Z TRANSMITTER
IN MODELS RC-7850, RC-8800, AND RC-9800



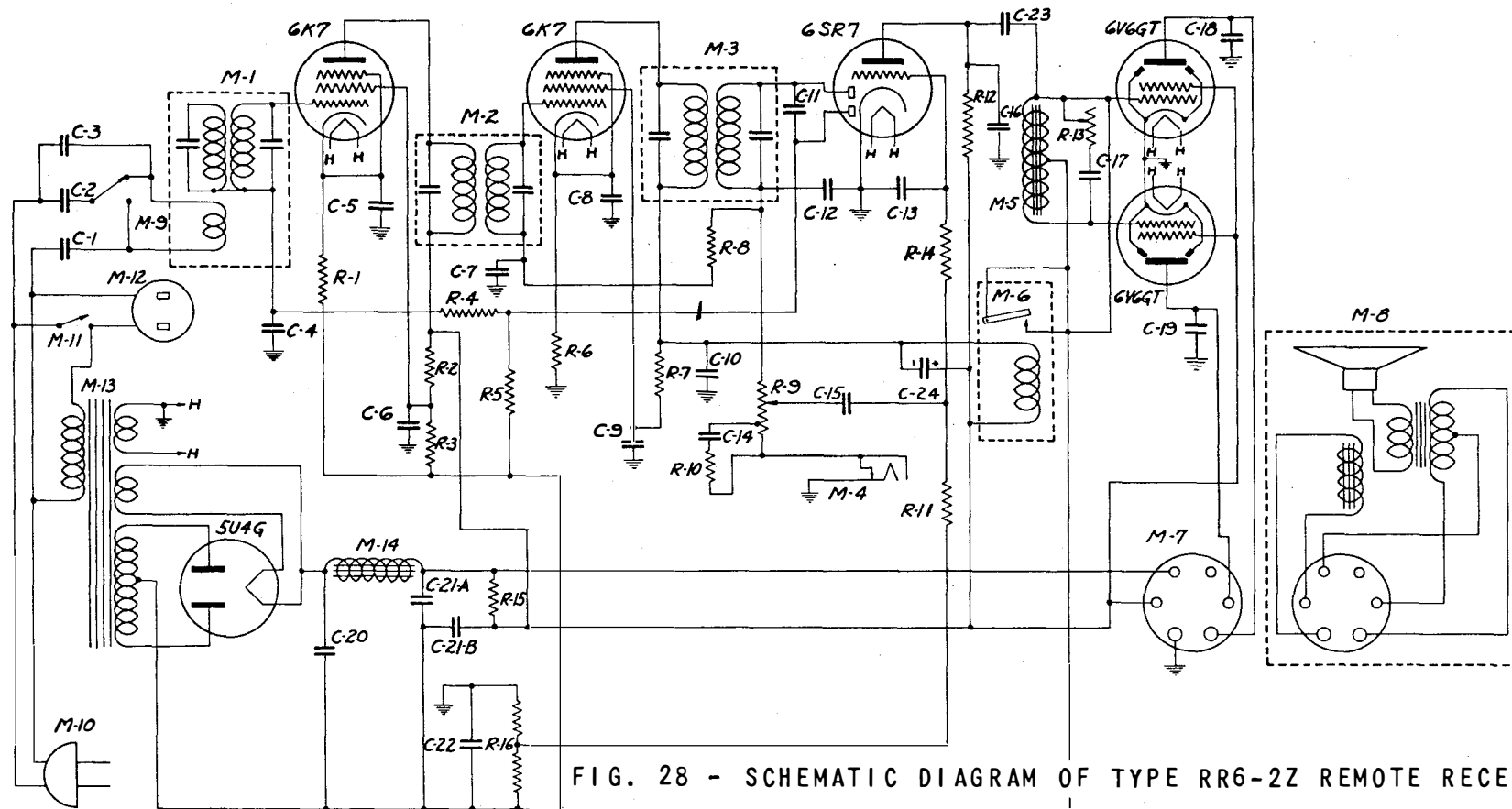
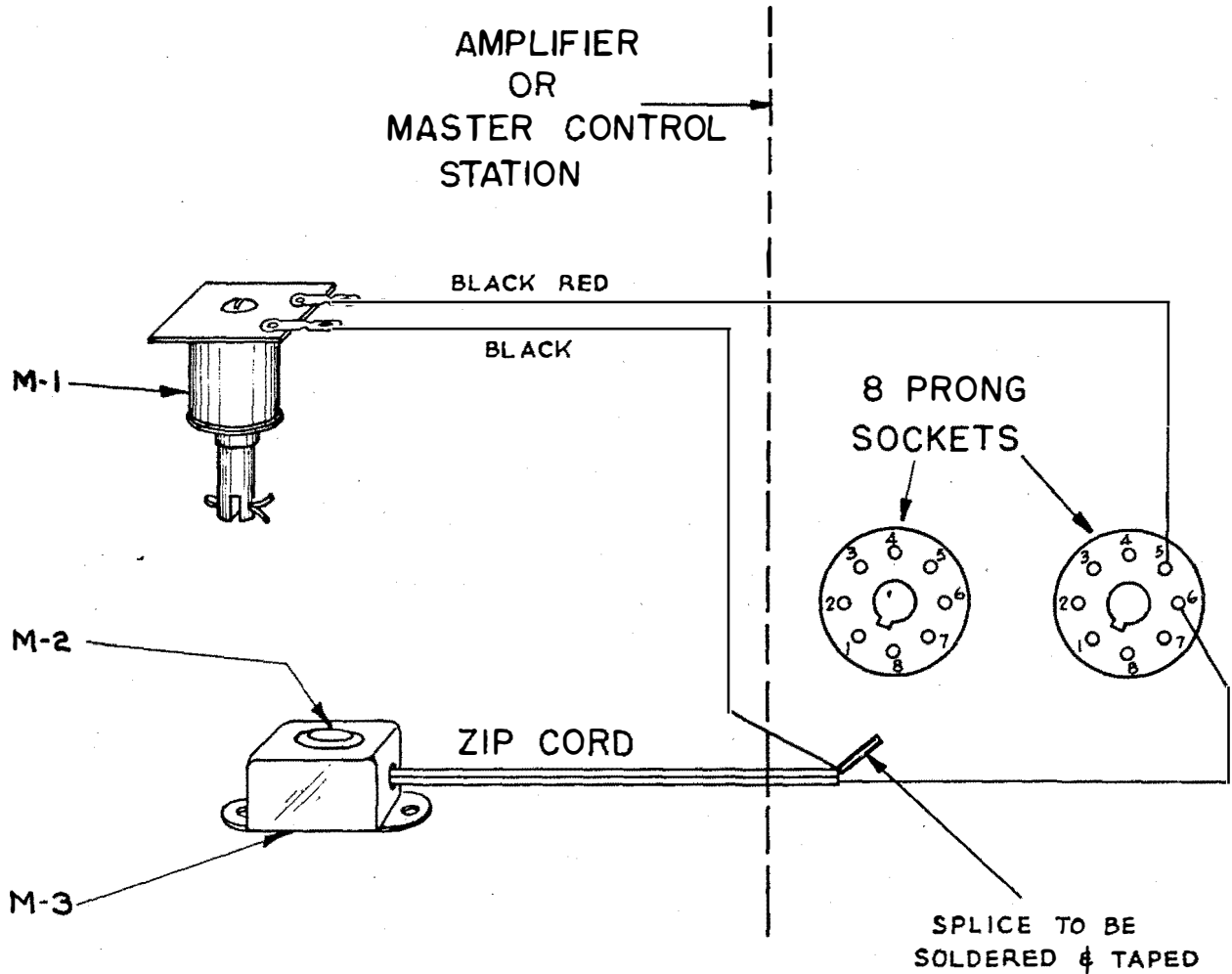


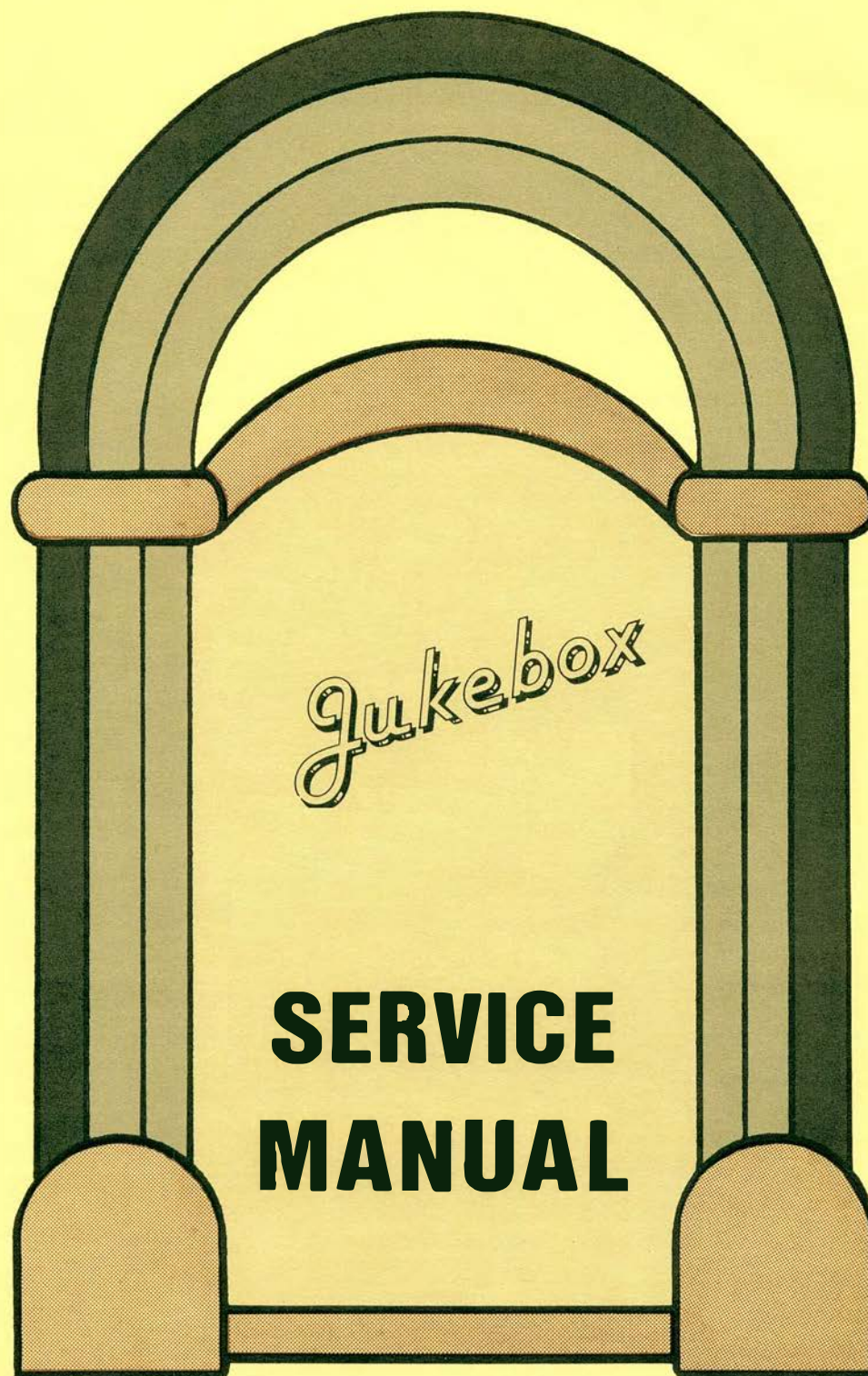
FIG. 28 - SCHEMATIC DIAGRAM OF TYPE RR6-2Z REMOTE RECEIVER

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 Electrolytic	.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	30183	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	.55
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 Electrolytic	.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				

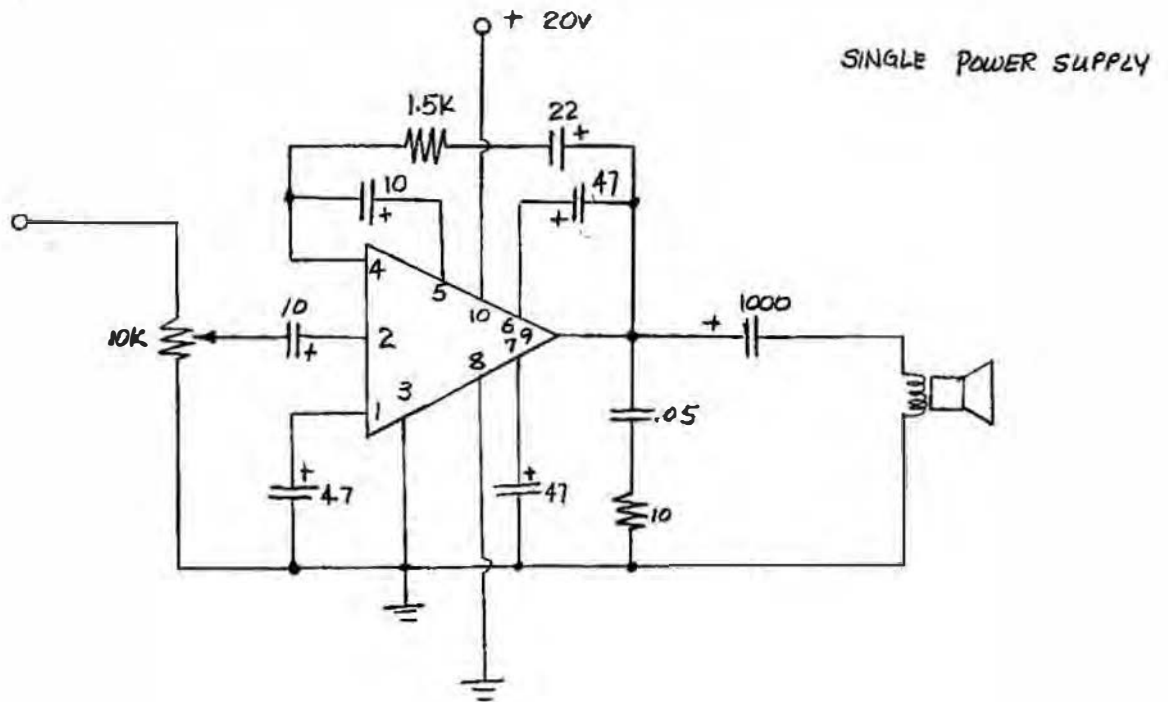
FIG. 29 - BLOCK WIRING DIAGRAM OF TYPE C-5Z REMOTE
SELECTION CANCEL KIT IN 1941 SYMPHONOLAS



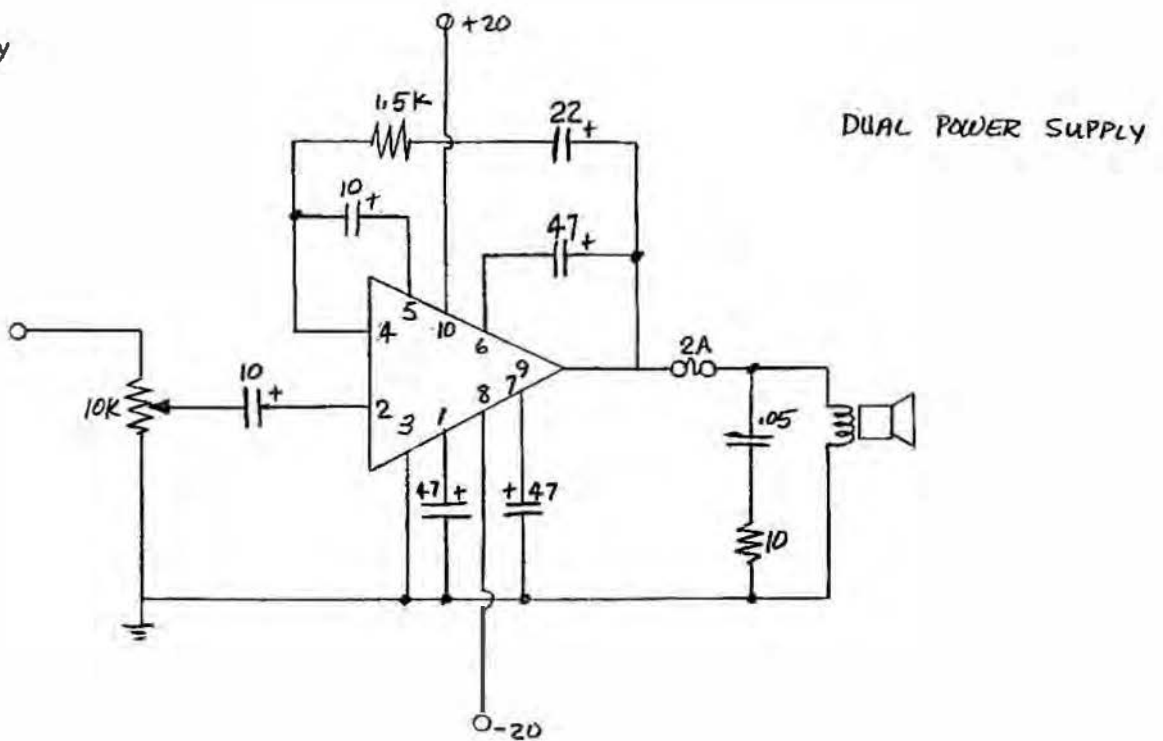
ITEM	PART NO.	DESCRIPTION	PRICE
M1	14121 -	Cancel Solenoid and Plunger	\$ 1.40
M2	12105 -	Cancel Button . . . . .	.50
M3	12100 -	Cancel Button Housing . . . . .	.25



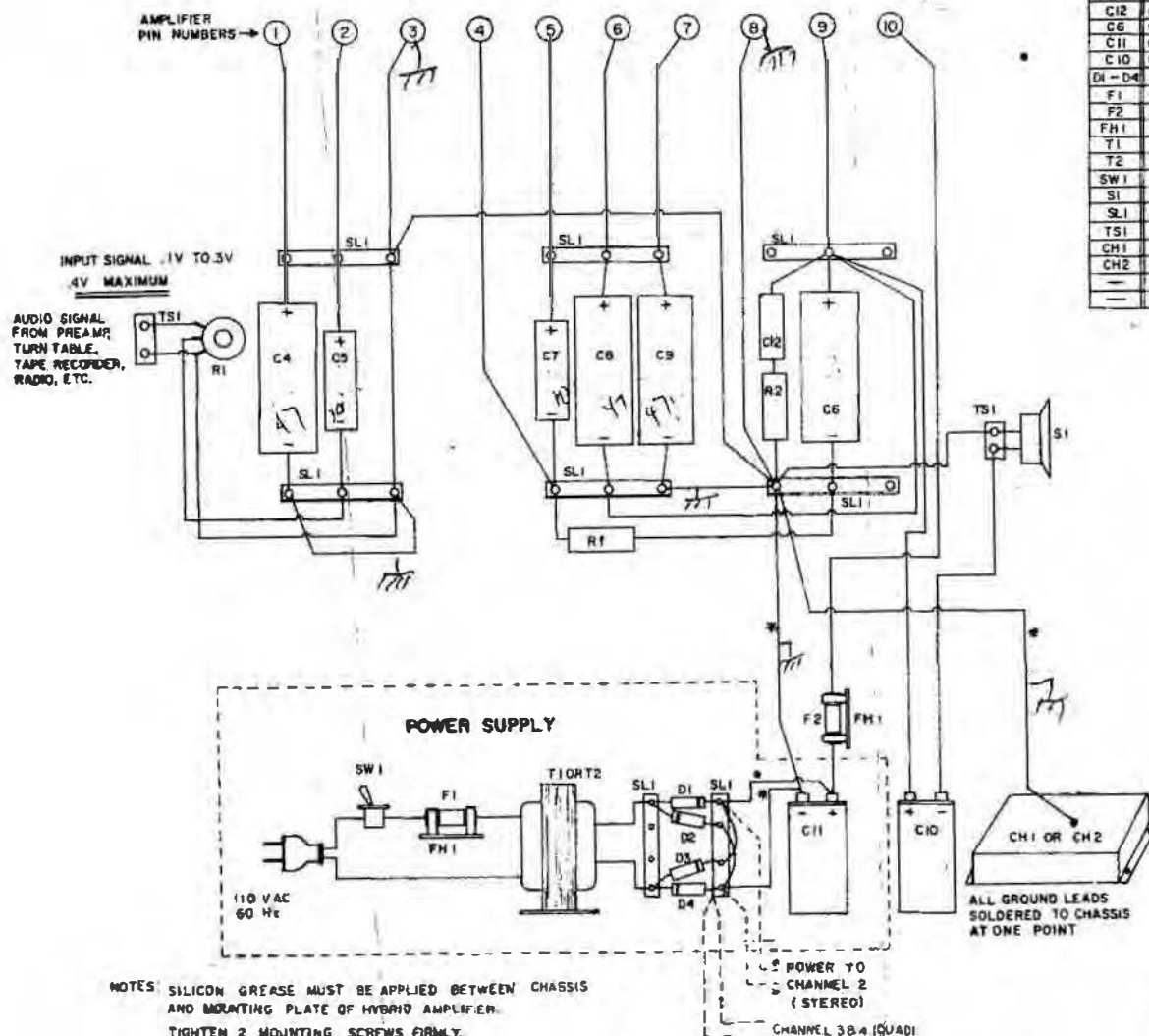
SI-1010Y



SI-1010Y

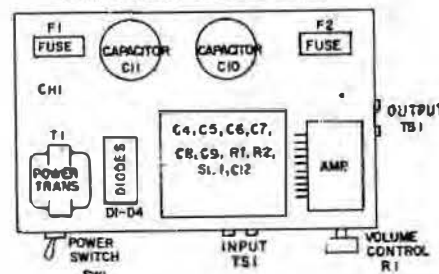


INSTRUCTIONS FOR ASSEMBLING A BASIC 10 WATT (RMS) SINGLE CHANNEL OR STEREO SOUND SYSTEM

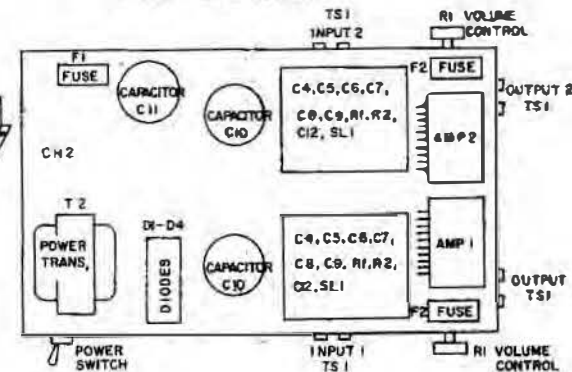


CODE	PARTS LIST	QTY SINGLE	QTY STEREO	QTY QUAD
AMP	SANKEN HYBRID POWER IC # SI-100-Y	1	2	4
R1	VOLUME CONTROL 10K OHMS 2 WATT	1	2	4
R2	RESISTOR 100 OHMS 1/2 WATT	1	2	4
R2	RESISTOR 10 OHMS 1/4 WATT	1	2	4
C4	CAPACITOR ELECTROLYTIC 47MFD 50VDC	1	2	4
C5	CAPACITOR ELECTROLYTIC 10MFD 16VDC	1	2	4
C7	CAPACITOR 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
D1-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" X 6" X 12"	1	—	A.R.
CH2	CHASSIS 18 GA. ALUM. 2" X 6" X 14"	—	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)

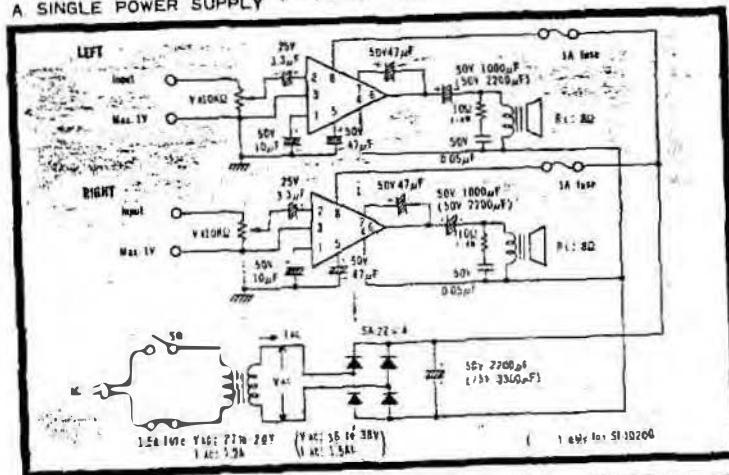


NOTES: SILICON GREASE MUST BE APPLIED BETWEEN CHASSIS AND MOUNTING PLATE OF HYBRID AMPLIFIER.
TIGHTEN 2 MOUNTING SCREWS FIRMLY.
KEEP ALL WIRING AS SHORT AS POSSIBLE
CHECK ALL WIRING CAREFULLY BEFORE TURNING POWER ON

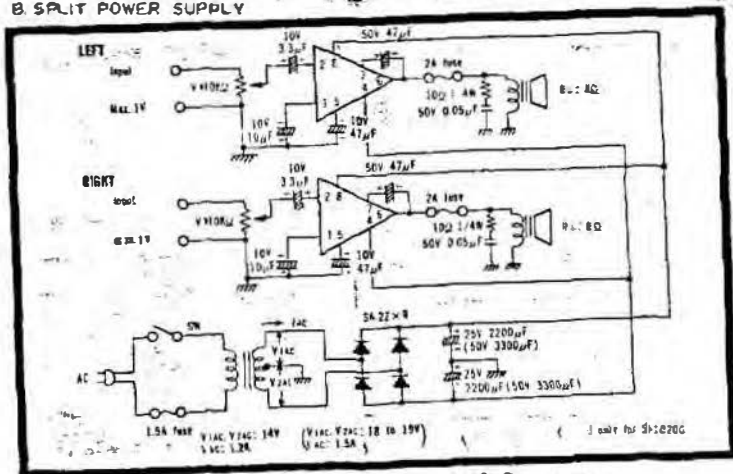
FOR STEREO AND QUAD USE SAME POWER SUPPLY WITH TRANSFORMER AS INDICATED AND DUPLICATE REMAINING CIRCUIT AS REQUIRED FROM PARTS LIST

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

A SINGLE POWER SUPPLY



B. SPLIT POWER SUPPLY



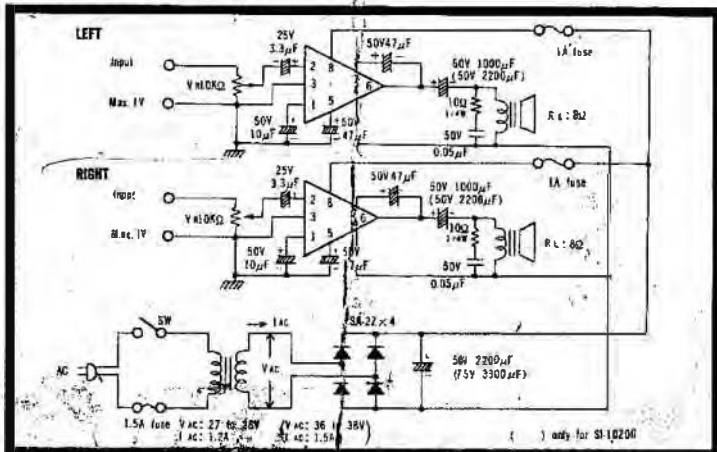
ELECTRICAL CHARACTERISTICS

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 ±11V	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 (ave.)	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.	0.48V typ.	0.52V typ.	0.70V typ.
Maximum Input Voltage (>0)	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)	0.83A typ.	1.30A typ.	2.00A typ.	2.50A typ.
Load Current (opp)	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 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 +60°C	-30°C to +50°C
Storage Temperature	-25°C to +85°C	-30°C to +100°C	-30°C to +100°C	-30°C to +100°C
Build-in Protection			current limiting	current limiting

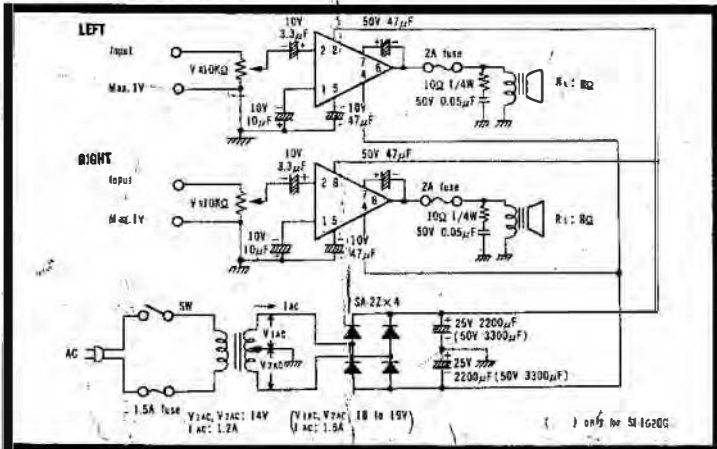
At 25°C ambient, 1kHz, R_L=8 ohms

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	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.	0.52V typ.	0.70V typ.
Maximum Input Voltage (c-a)	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)	0.83A 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°C to +70°C	-20°C to +80°C	-20°C to +80°C	-20°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				

SCHEMATIC DIAGRAM TRM-40B

