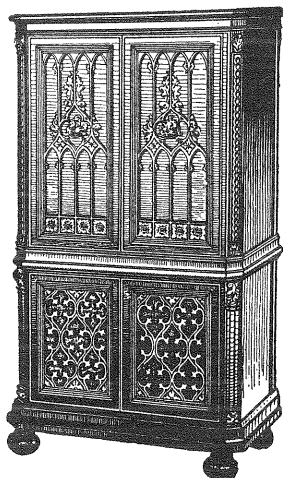


RCA Victor

Radiola Automatic Electrola RAE-79

SERVICE NOTES



RCA Victor RAE-79

[First Edition—5M
Copyright, December, 1931]

SERVICE DIVISION

RCA Victor Company, Inc.
Camden, N.J.

A RADIO CORPORATION OF AMERICA SUBSIDIARY

REPRESENTATIVES IN PRINCIPAL CITIES

CONTENTS

PART I—REMOTE CONTROL UNIT

	Page
Electrical Description	3
Increasing Length of Cable	5
Increasing Number of Boxes	5
Motor Contactor Adjustment Chart	6
Adjustment of Motor Contactors	7
Replacing or Adjusting Contactors	8
Making Replacements	8

PART II—SELECTOR SWITCH AND MISCELLANEOUS INFORMATION

Bendix Loudspeaker Switch	8
Radio Recordings	9
Microphone	9

PART III—WIRING DIAGRAMS

RAE-79 Wiring Diagrams	10
------------------------------	----

PART IV—REPLACEMENT PARTS

RAE-79 Replacement Parts	15
--------------------------------	----

ILLUSTRATIONS

	Page		Page
Remote Control Motor Views	4	Friction Adjustment	8
Schematic Diagram of Motor Circuits	5	Details of Microphone Adjustment	9
End View of Drum and Contactor	5	Schematic Diagram	10
Method of Adding Additional Cable	7	Assembly Wiring	11
Connections for Adding Additional Boxes	7	Receiver Wiring	12
Details of Tools	8	S. P. U. No. 1 Wiring	13
		S. P. U. No. 2 Wiring	14

SERVICE NOTES

for

RCA Victor Radiola Automatic Electrola, RAE-79

The RCA Victor Model RAE-79 is a thirteen tube, super-heterodyne radio receiver incorporated in the same cabinet with the perfected RCA Victor automatic record changing mechanism.

Features of this instrument are:

RCA Victor DeLuxe Radio Chassis incorporating Super Control Radiotrons, automatic volume control giving a new degree of quiet operation, remote control of tuning and volume, double push-pull amplifiers employing Pentode Output Radiotrons, and twin loudspeakers. The automatic record changing mechanism has provision for playing continuously, one side of ten 10-inch records of either the "standard" or Program Transcription variety and either type twelve inch records manually. Home recording on the RAE-79 reaches a new degree of perfection through the use of a studio type two button microphone and Pentode Output Radiotrons. Such records may be made either 78 or 33 $\frac{1}{3}$ R.P.M. thus giving a maximum of eight minutes of home recording on a ten inch record.

SERVICE DATA

A reference to the R-50 and R-55 Service Notes covers the general service data on this type of instrument. The service data on the automatic record changing mechanism is contained in a booklet already issued. The service data on the remote control unit, while similar to that used in the Radiolas 82 and 86, is contained in this booklet, see Part I, page 3. Part II gives miscellaneous information on various parts, Part III shows the diagrams and Part IV is the replacement parts list.

PART I

SERVICE DATA ON REMOTE CONTROL UNIT

The Remote Control Contactors of Model RAE-79 are adjusted at the Factory with a 115 volt A. C. input being applied to the receiver. Due to the extreme selectivity of the receiver used, it may be necessary to readjust the motor contactors when the instrument is used on extremely high or low line voltages. The following test covers these adjustments thoroughly.

This is also true on Models used at frequencies other than that specified. For example, when a 60 cycle model is used on 50 cycles, the phonograph motor must be changed and the remote control contactors completely readjusted.

The remote control feature is unique in that it not only allows control of the receiver from a distant point but also pre-selects the desired station accurately. Manual tuning, other than necessary for the original setting of the selector buttons, is therefore eliminated. Selection of any one of four stations, adjustment of the volume control, turning the receiver "on" or "off" or changing from Radio to Record may be accomplished at one or more remote points from the receiver. Operation of the tone control or home recording must be done at the receiver.

One control box and twenty-five feet of flat cable are supplied. If desired, any number of additional units may be installed or the cable lengthened to seventy-five feet.

Electrical Description of Unit

The remote control feature consists of a standard R-50 chassis with a special gang condenser; a capacitor motor coupled to the gang condenser through a series of gears; a series of drums and contactors by which the motor is started in the right direction for a given station and stopped at the right point; a special volume control geared to the motor; a relay to turn the set "on" or "off" and a remote control box by which these operations are controlled.

The motor is provided with a tapped reactor and condenser for changing the phase angle of the applied current so that operation in either direction may be secured. The motor operates at 23 volts for the station selector and 18 volts for the volume control.

Referring to Figure 1 we see the normal position of the motor armature. It will be noted that a spring holds the armature so that the gear at one end is meshed with the volume control gears. At 18 volts, the voltage used for volume control operation, the gears remain in this position and operation of the volume control is secured. When the speed of the motor is increased by operating it at 23 volts, this voltage being used when the selector buttons are pressed, the end thrust of the armature causes it to move laterally, thereby disengaging the gear at the volume control end and engaging the gear at the station selector end. See Figure 2. The spring at the end of the armature causes it to always return to the volume control position when the current is "off" at the motor. As this action takes place with the motor operating in either direction, controlling the voltage at which the motor is operated determines its function. A sixty ohm resistor is placed in each motor circuit controlling the volume to reduce the voltage from 23 to 18 volts.

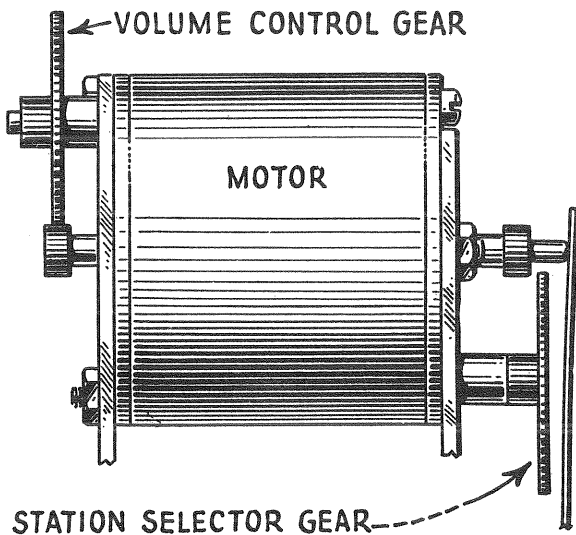


Figure 1—Motor with armature in volume control position

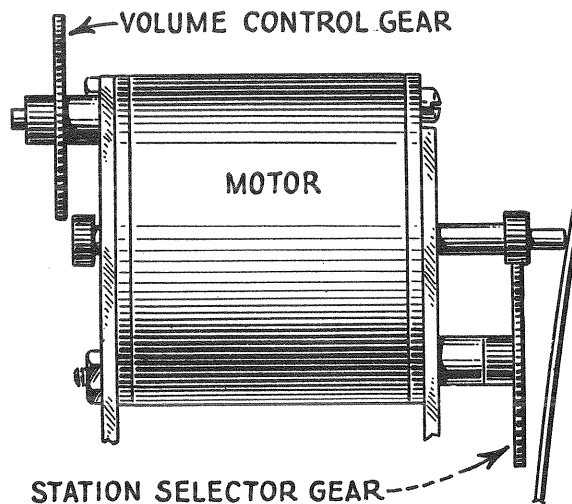


Figure 2—Motor with armature in station selector position

The proper direction of operation and stopping of the motor for selection of a desired station is controlled by a series of drums and contactors. Figure 3 shows a schematic circuit of the motor and its adjacent circuits. The drums hold the contactors in the proper position so that when a particular selector button is depressed, the motor will turn in the right direction. When the contactor is at the point on the drum where it is half way between each contact, the motor stops. This is 180° from the hole that is used to set the drum for a particular station.

The setting of the drums is made by the pins on the front panel. These are known as the "setting buttons." The selector button is pressed and the drum is moved by the motor until the corresponding contactor is midway between the contacts. The pin will now fall in the hole in the drum if pushed in by the finger. See Figure 4. Holding the pin firmly in the hole, the desired station is then accurately tuned in by means of the manual station selector knob. After tuning the pin is then released. As the point on the opposite side of the drum is where the diameter of the drum changes, the contactor is half way between the contacts. Pressing the selector buttons will therefore cause no movement of the motor. If another button is pressed and the drum moved, pressing the original button will always bring the drum back to the position for which it was set.

Referring to Figure 10, the schematic diagram, it will be noted that a common lead is used for the pilot lamp and the selector buttons in the remote control box. By doing this, when a selector button on the box is pressed, the current through the common lead is increased, likewise the voltage drop in the lead is increased. The result is that while the motor is running the pilot lamp becomes very dim. As soon as the motor stops, the lamp flashes bright, thus indicating that the motor has stopped and the station is tuned in. If the station is not then heard, it is necessary to press the + volume control button a little at a time until the desired output level is obtained.

Special Installations

(1) INCREASING LENGTH OF REMOTE CONTROL BOX CABLE

The cable to the remote control box supplied with the remote control models is twenty-five (25) feet in length. This is ample for most rooms as it is very rare that a person wishes to listen to a program at a greater distance from the loudspeaker.

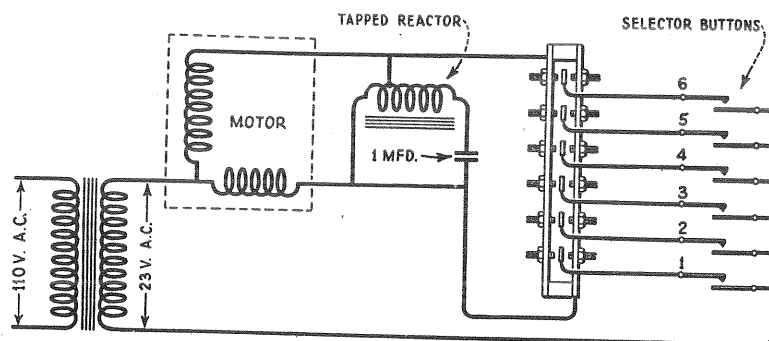


Figure 3—Schematic diagram of motor circuits

If, however, it is desired to place the remote control box at a greater distance from the set, any twelve conductor cable, the wires of which are No. 14 or larger in size, may be used to splice onto the regular cable and increase the total length up to seventy-five (75) feet. Figure 5 shows the method recommended for adding this additional cable.

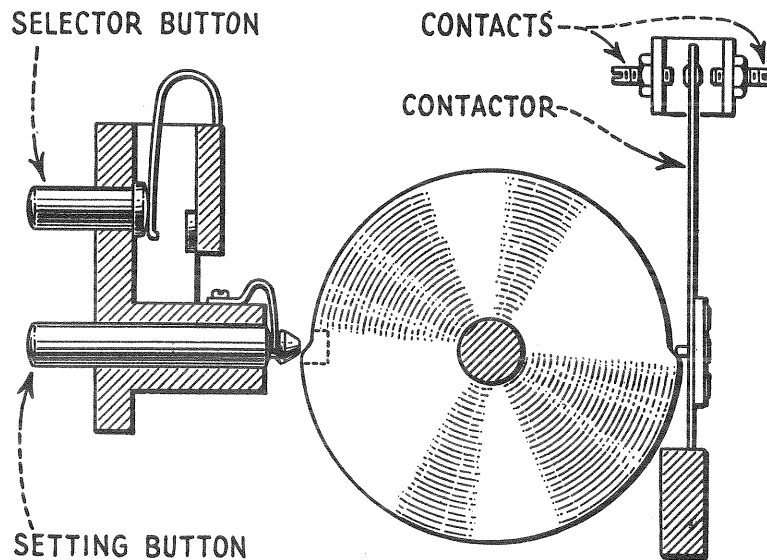


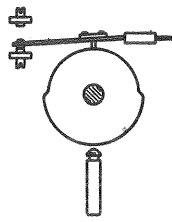
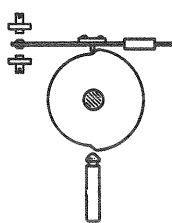
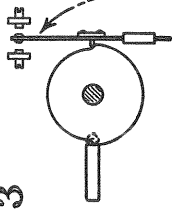
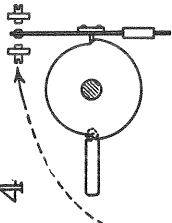
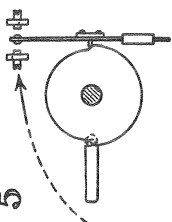
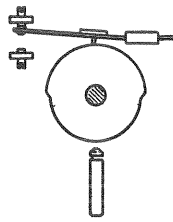
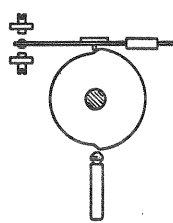
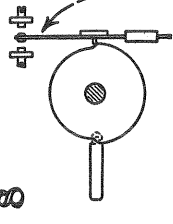
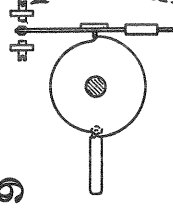
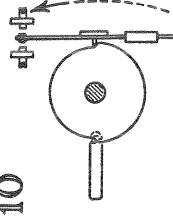
Figure 4—End view of drum and contactor

(2) INCREASING NUMBER OF REMOTE CONTROL BOXES

One remote control box is supplied as standard equipment. Any number of additional boxes may be installed if desired although only one box can be used at a time for controlling the receiver. The boxes should be connected in parallel at the terminal strip on the rear of the Radiola. Figure 11 shows such a connection.

MOTOR CONTACTOR ADJUSTMENT CHART

Repeat Entire Procedure on Station Selector Contactors

<p>TURN STATION SELECTOR KNOB UNTIL CONTACTOR IS TO ONE SIDE</p>  <p style="text-align: right;">1</p>	<p>PUSH SELECTOR BUTTON ON PANEL UNTIL THE MOTOR STOPS AND CONTACTOR IS CENTERED</p>  <p style="text-align: right;">2</p>	<p>THEN PUSH SETTING BUTTON. IF CONTACTOR DOES NOT MOVE, ADJUSTMENT IS O.K.</p>  <p style="text-align: right;">3</p> <p style="text-align: center;">DOES NOT MOVE WHEN SETTING BUTTON IS PRESSED</p>	<p>IF CONTACTOR MOVES IN THIS DIRECTION WHEN SETTING BUTTON IS PRESSED, ADJUST AS INDICATED.</p>  <p style="text-align: right;">4</p> <p style="text-align: center;">TURN THIS SCREW CLOCKWISE A LITTLE AT A TIME UNTIL CONTACTOR DOES NOT MOVE WHEN SETTING BUTTON IS PRESSED. (TURN SELECTOR KNOB AND RETUNE WITH SELECTOR BUTTON AFTER EACH TRIAL ADJUSTMENT)</p>	<p>IF CONTACTOR MOVES IN OTHER DIRECTION, ADJUST AS INDICATED.</p>  <p style="text-align: right;">5</p> <p style="text-align: center;">TURN THIS SCREW COUNTER CLOCKWISE A LITTLE AT A TIME UNTIL CONTACTOR DOES NOT MOVE WHEN SETTING BUTTON IS PRESSED. (TURN SELECTOR KNOB AND RETUNE WITH SELECTOR BUTTON AFTER EACH TRIAL ADJUSTMENT)</p>
<p>AFTER MAKING PRECEDING ADJUSTMENTS TURN STATION SELECTOR KNOB UNTIL CONTACTOR IS TO THIS SIDE</p>  <p style="text-align: right;">6</p>	<p>PUSH SELECTOR BUTTON ON PANEL UNTIL THE MOTOR STOPS AND CONTACTOR IS CENTERED</p>  <p style="text-align: right;">7</p>	<p>THEN PUSH SETTING BUTTON. IF CONTACTOR DOES NOT MOVE, ADJUSTMENT IS O.K.</p>  <p style="text-align: right;">8</p> <p style="text-align: center;">DOES NOT MOVE WHEN SETTING BUTTON IS PRESSED.</p>	<p>IF CONTACTOR MOVES IN THIS DIRECTION WHEN SETTING BUTTON IS PRESSED, ADJUST AS INDICATED.</p>  <p style="text-align: right;">9</p> <p style="text-align: center;">TURN THIS SCREW COUNTER CLOCKWISE A LITTLE AT A TIME UNTIL CONTACTOR DOES NOT MOVE WHEN SETTING BUTTON IS PRESSED. (TURN SELECTOR KNOB AND RETUNE WITH SELECTOR BUTTON AFTER EACH TRIAL ADJUSTMENT)</p>	<p>IF CONTACTOR MOVES IN OTHER DIRECTION, ADJUST AS INDICATED.</p>  <p style="text-align: right;">10</p> <p style="text-align: center;">TURN THIS SCREW CLOCKWISE A LITTLE AT A TIME UNTIL CONTACTOR DOES NOT MOVE WHEN SETTING BUTTON IS PRESSED. (TURN SELECTOR KNOB AND RETUNE WITH SELECTOR BUTTON AFTER EACH TRIAL ADJUSTMENT)</p>

Adjustments

(1) ADJUSTMENT OF MOTOR CONTACTORS

The four station selector motor contactors located at the rear of the motor may require adjustment due to changes in the amount of friction in the entire drive assembly. Need for adjustment is evidenced by the motor failing to stop at the exact point for a particular station.

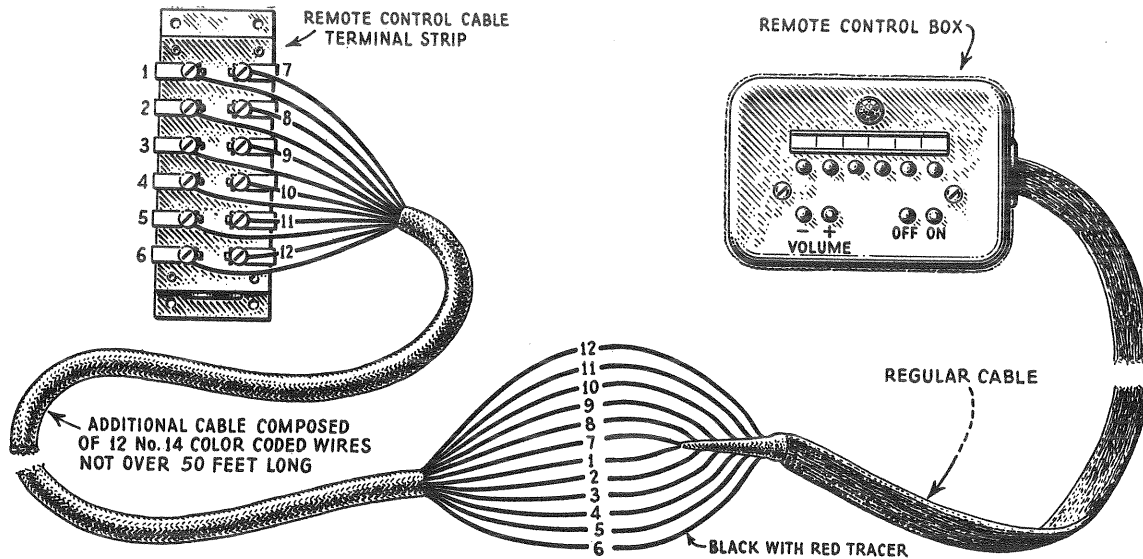


Figure 5—Wiring diagram of method for connecting additional cable

In order to make these adjustments two tools are necessary. They may be constructed, see Figure 7, or obtained as a spare part, the replacement parts section listing them. The chart on page 6 gives the procedure to be followed for making adjustments. This procedure must be repeated on each contactor that is out of adjustment.

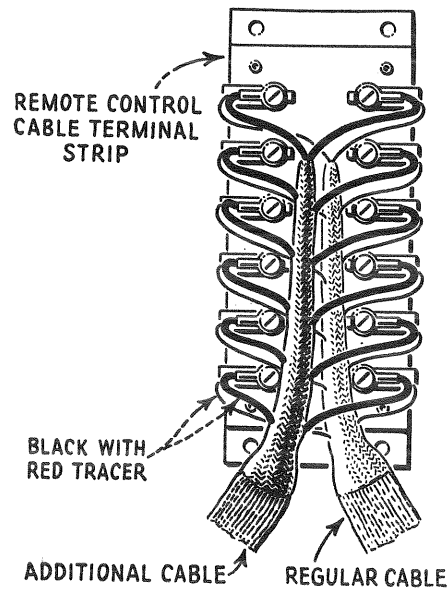


Figure 6—Connections for adding additional boxes

If all contactors are out of adjustment in a similar manner, then the friction screw, see Figure 8, requires adjustment. This should be either tightened or loosened, the exact adjustment to be determined by trial. The adjustment that is correct for one contactor will be correct for all, assuming the friction screw to be at fault.

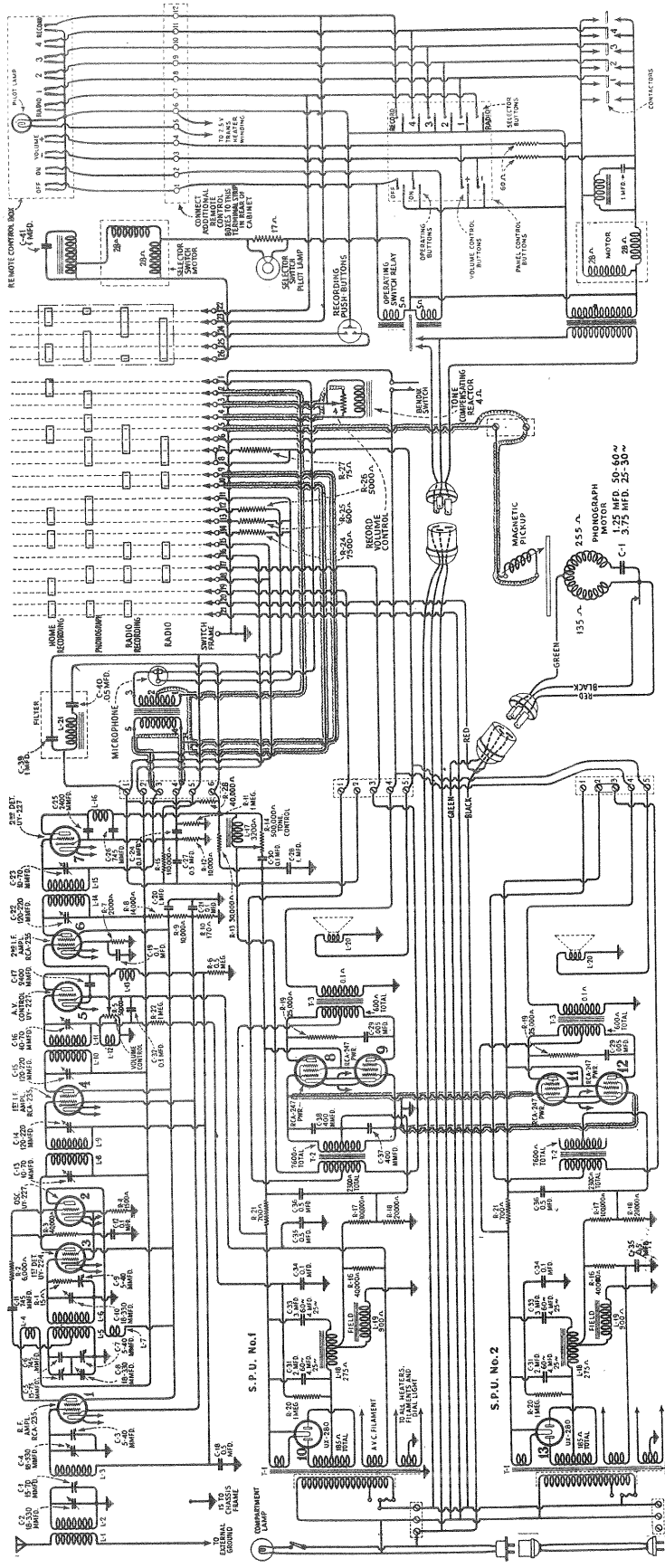


Figure 10—Schematic diagram of Model RAE-79

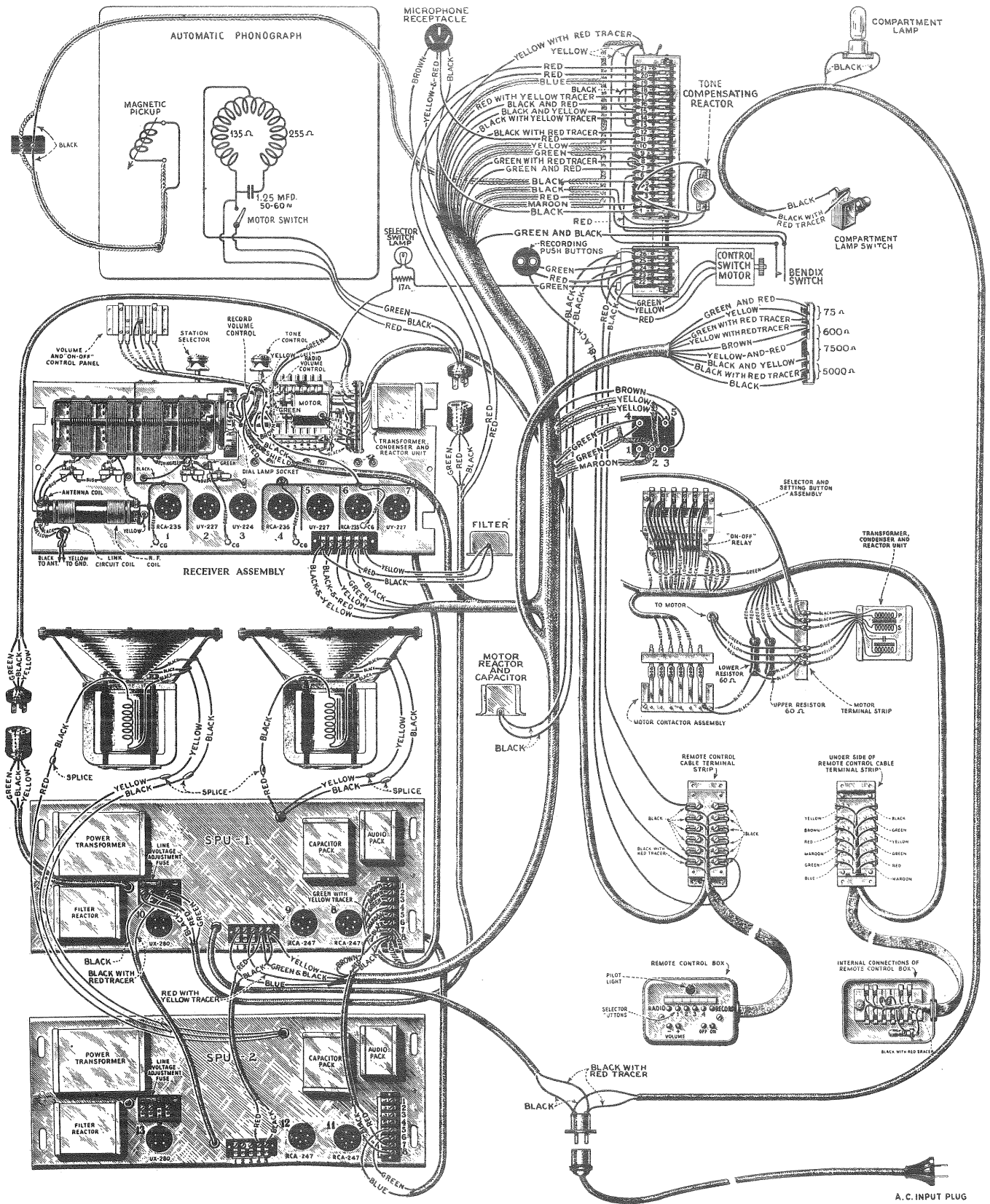


Figure 11—Assembly Wiring diagram

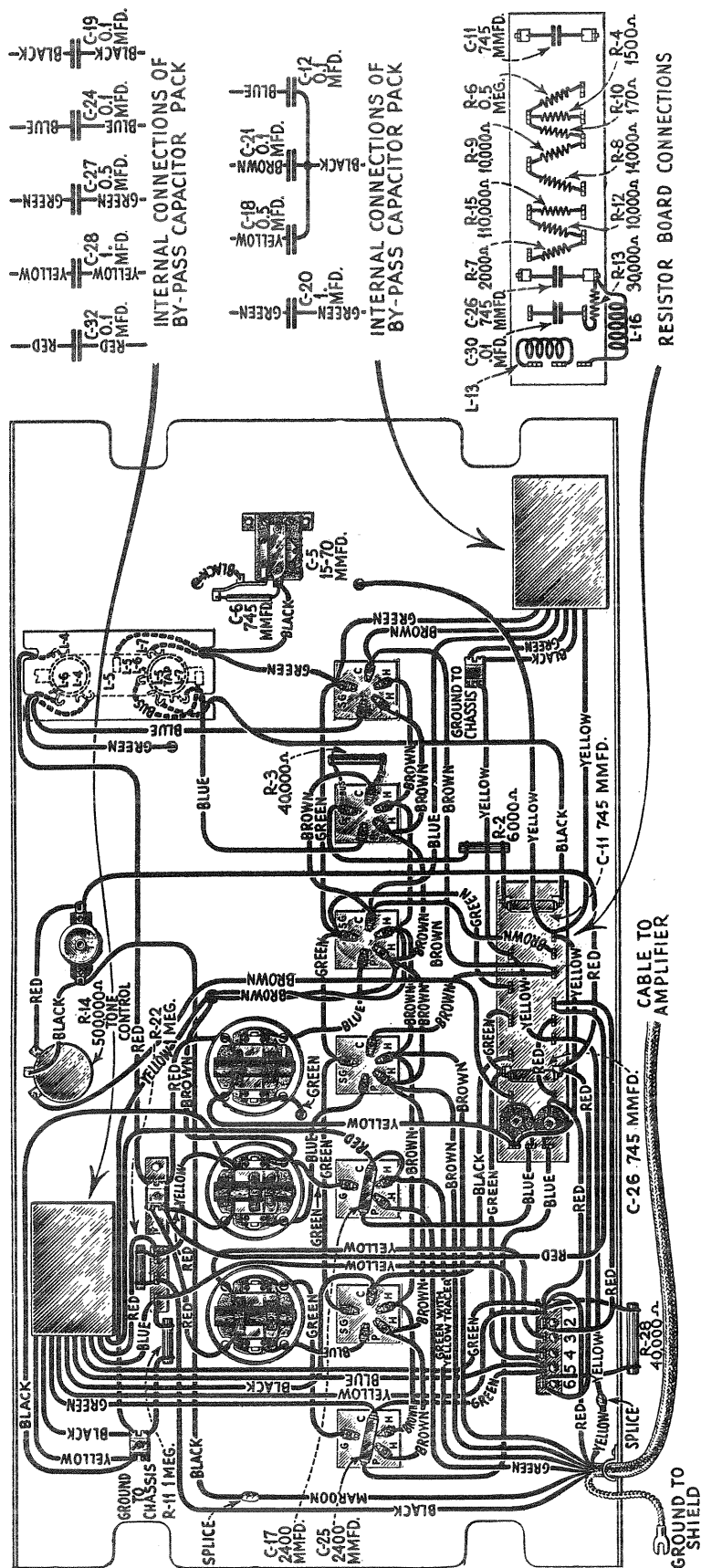


Figure 12—Receiver Assembly Wiring

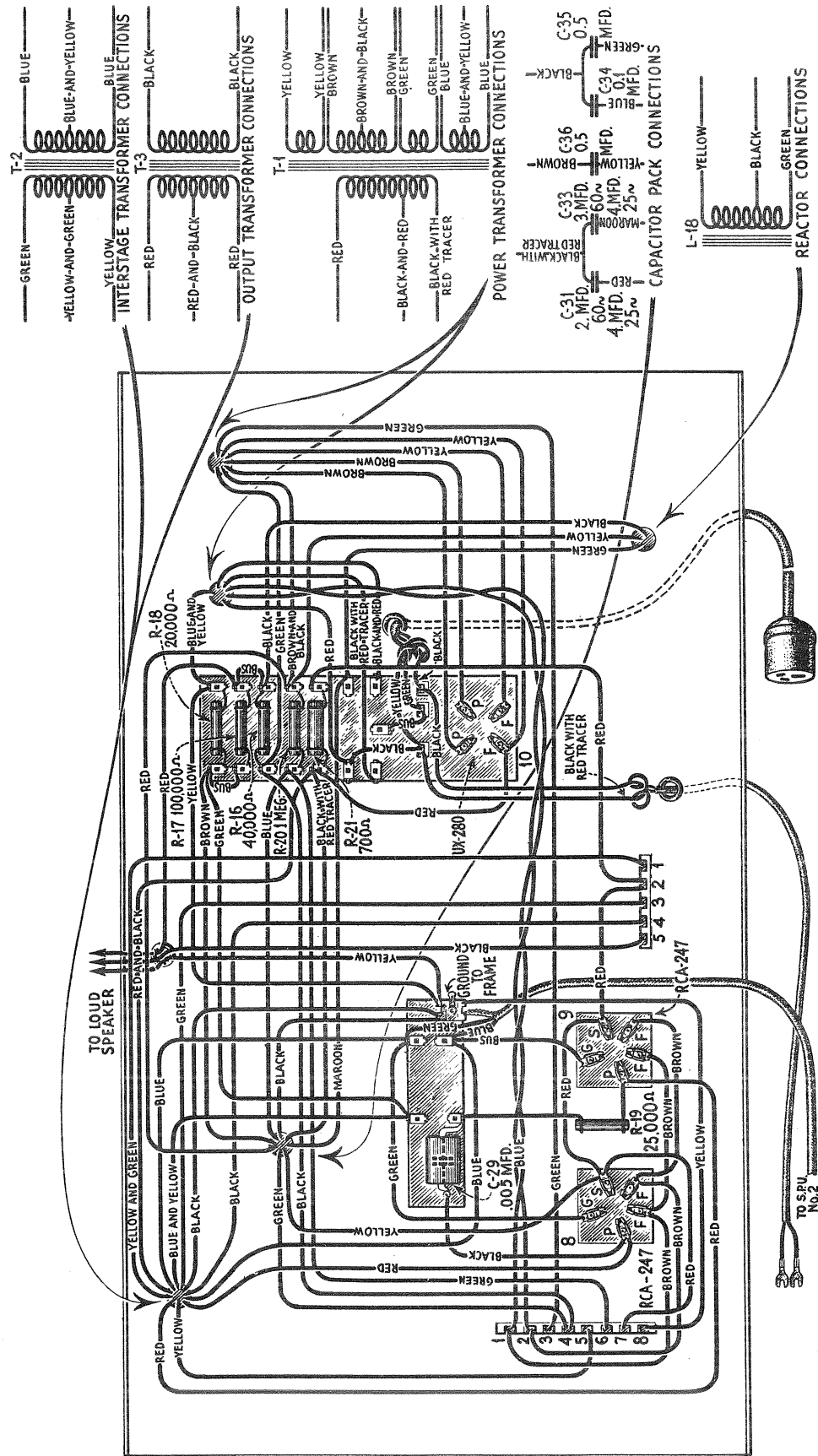


Figure 13—S. P. U. No. 1 wiring

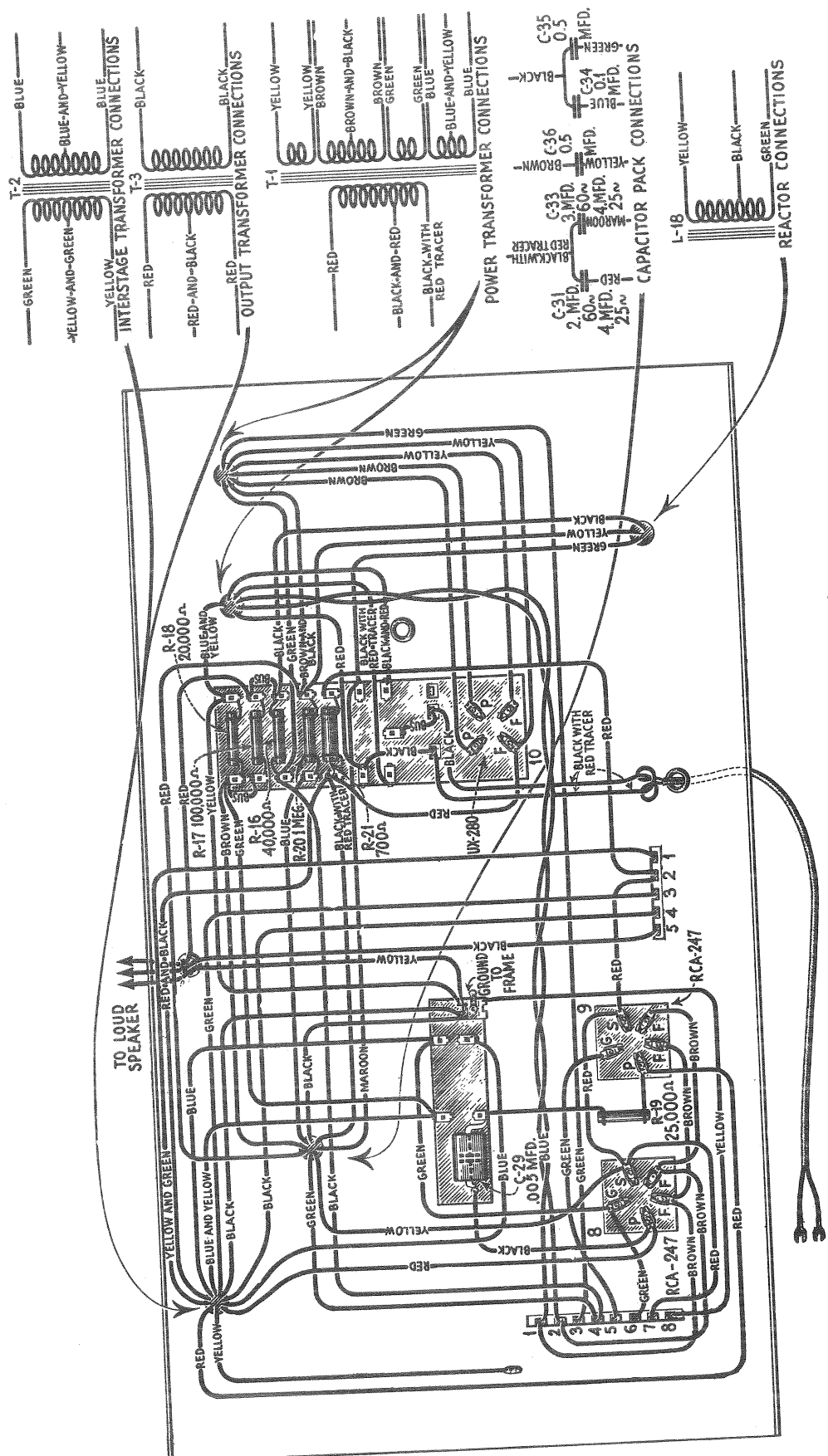


Figure 14—S. P. U. No. 2 wiring

PART IV—REPLACEMENT PARTS

Stock No.	DESCRIPTION	List Price	Stock No.	DESCRIPTION	List Price
RECEIVER ASSEMBLY					
2563	Resistor—6,000 ohms—Carbon type— Package of 5.....	\$3.00	7282	Transformer—2nd Intermediate trans- former—25-40 cycles.....	\$3.50
2726	Socket—UY Radiotron socket with socket cover—7 used.....	.70	7283	Transformer—3rd Intermediate trans- former.....	3.25
2731	Resistor—10,000 ohms—Carbon type —Package of 5.....	2.00	7284	Board—Resistor board complete less resistors, capacitors and coils.....	2.70
2732	Resistor—110,000 ohms—Carbon type —Package of 5.....	2.00	7285	Capacitor—Comprising one 1.0 mfd., one 0.5 mfd. and two 0.1 mfd. capaci- tors in metal container—6 leads.....	3.50
2736	Resistor—170 ohms—Carbon type— Package of 5.....	2.00	7286	Capacitor—Comprising one 1.0 mfd., one 0.5 mfd. and three 0.1 mfd. capacitors in metal container—10 leads	4.50
2740	Cord—Condenser drive cord—Package of 5.....	1.00	7287	Bracket — Dial lamp bracket and indicator.....	.50
2741	Idler—Package of 5.....	.80	7288	Scale—Tuning dial scale—Package of 5.....	2.50
2746	Socket—Tuning dial lamp socket.....	.50	7297	Coil—R.F. choke coil.....	.75
2747	Caps—Grid Contactor caps — Pack- age of 5.....	.50	7298	Capacitor—0.01 mfd.....	.80
2749	Capacitor—2400 mmfd.....	1.50	7299	Capacitor—745 mmfd.....	.70
2970	Resistor—500,000 ohms—Carbon type —Package of 5.....	2.50	7331	Cable—Receiver chassis shielded wir- ing cable—from receiver to S.P.U.	2.30
3031	Board—Terminal board with insulator —3 Terminals.....	.50	7365	Transformer—2nd Intermediate trans- former.....	3.55
3033	Resistor—1 megohm— $\frac{1}{4}$ watt—Car- bon type—Package of 5.....	2.00	7366	Drum—Dial drum with star gear.....	1.65
3045	Resistor—40,000 ohms—1 watt—Car- bon type—Package of 5.....	2.50	7367	Drum—Dial drum—25-30 cycle.....	1.10
3050	Resistor—14,000 ohms—Carbon type	.60	7368	Drive Shaft Assembly—Comprising drive shaft, idler shaft, cord drive pins, washer and bracket.....	.90
3137	Knob—Station selector, volume con- trol and control-switch knob— Package of 5.....	3.25	8708	Capacitor — Tuning Capacitor As- sembly—Comprising four adjustable capacitors, drive shaft, dial drum drive cord and spring—Assembled— 25-30 cycle.....	12.25
3138	Board—Terminal board with one double soldering terminal bracket and insulator.....	.50	8779	Capacitor — Tuning Capacitor As- sembly—Comprising four adjustable capacitors, drive shaft, dial drum drive cord, spring and star gear— Assembled.....	12.25
3139	Coil—1st Detector and oscillator coil and shield.....	3.95	8790	Shield—Complete receiver shield.....	7.25
3142	Volume control—Radio volume control	1.65	8791	Cover—Removable shield cover.....	1.50
3143	Tone Control—Complete with mount- ing nut.....	1.50	8794	Shield—Complete receiver shield— 25-30 cycle.....	7.25
3144	Inductor—Tone control inductor.....	1.65	10867	Spring—Drive cord tension spring— Package of 5.....	.50
3152	Resistor—30,000 ohms—Carbon type —Package of 5.....	2.75	AMPLIFIER No. 1		
3153	Resistor—1,500 ohms—Carbon type— Package of 5.....	2.75	2546	Resistor—1 megohm—Carbon type— Package of 5.....	3.00
3154	Resistor—2,000 ohms—Carbon type— Package of 5.....	2.75	3045	Resistor—40,000 ohms—1 watt—Car- bon type—Package of 5.....	2.50
3220	Resistor—15 ohms—Flexible wire type —Package of 5.....	2.75	3058	Resistor—100,000 ohms—Carbon type —Package of 5.....	2.50
3240	Nut—Shield cover mounting nut— Package of 13.....	.50	3085	Capacitor—400 mmfd.....	.60
3263	Screw—Special 4-40 machine screw for rotor plate—adjustment—Package of 10.....	.50	3099	Capacitor—0.005 mfd.....	.75
6034	Cushions — Sponge rubber chassis cushions—Package of 4.....	1.20	3145	Resistor—700 ohms—Carbon type.....	.85
7062	Capacitor—Adjustable capacitor—15- 70 mmfd.—2 used.....	1.00	3146	Board—Capacitor terminal board com- plete with terminal less capacitor.....	1.25
7063	Capacitor—Adjustable capacitor—5— 40 mmfd.—3 used.....	1.00	3149	Switch—Toggle type power switch.....	1.25
7278	Coil—R.F. and link circuit Coil.....	2.50	3264	Resistor—25,000 ohms— $\frac{1}{2}$ watt— Carbon type—Package of 5.....	2.00
7280	Board — Terminal board with six terminals.....	.90	6114	Resistor—20,000 ohms—Carbon type —Package of 5.....	2.00
7281	Transformer—1st Intermediate trans- former.....	3.25	7290	Reactor—Filter reactor.....	4.75

Order By Stock Number Only

REPLACEMENT PARTS—Continued

Stock No.	DESCRIPTION	List Price	Stock No.	DESCRIPTION	List Price
7291	Board—Terminal board and UX Radiotron socket complete with terminals and fuse clips.....	\$0.50	2896	Spring—Cable lever spring—Package of 10.....	\$0.50
7293	Board—Terminal board complete with 8 terminals and screws.....	1.15	2897	Screw and nut—Pickup arm cable adjusting screw and nut—Package of 5.....	.50
7294	Cover—Cover with insulation for No. 7293.....	.60	2898	Screw and nut—Adjusting screw and lock nut for elevator shaft—Package of 10.....	.50
7295	Board—Terminal board complete with 5 terminals, screws and link.....	.85	2902	Screw and nut—Motor turntable spindle screw and nut—Package of 10.....	.50
7369	Socket—UY Radiotron socket with insulation strip—2 used.....	.70	2903	Screw—Motor mounting screw—Package of 10.....	.50
7370	Cover—Cover with insulation for No. 7295.....	.55	2904	Lever—Front elevator actuating lever..	.50
7371	Cover—Fuse cover with insulator.....	.50	2905	Screw—Gear and bracket mounting screw—Package of 10.....	.50
7372	Cable—26" Black and black with red tracer cable—From resistor board of SPU No. 1 to terminal board of SPU No. 2.....	.55	2906	Spring—Check lever spring—Package of 10.....	.50
8711	Transformer—Audio transformer.....	6.60	2907	Screw—Clutch set screw—Package of 10.....	.50
8749	Transformer—Power transformer 105-125 volts, 25-60 cycles.....	20.50	2908	Spring—Clutch pawl spring—Package of 10.....	.50
8751	Capacitor Pack—Comprising two 4.0 mfd., one 0.1 mfd. and two 0.5 mfd. capacitors in metal container.....	9.50	2909	Spring—Four finger spring— $1\frac{3}{16}$ " long—Package of 10.....	.60
8780	Cable—Power cable with 3 way female polarity plug—From S.P.U. to control switch and record changer—25-30 cycle.....	1.75	2910	Spring—Four finger spring— $1\frac{7}{16}$ " long—Package of 10.....	.60
8781	Cable—26" Blue and green shielded cable—From capacitor board of SPU No. 2 to terminal board of SPU No. 1	.80	2911	Screw—Slide bracket screw—Package of 10.....	.50
10907	Fuse—3 amperes—Package of 5.....	.50	2912	Roller—Slide roller complete with screw stud—Package of 5.....	1.50
	AMPLIFIER No. 2		2913	Spring—Cable lever spring—Package of 10.....	.60
	NOTE: Same as Amplifier No. 1 omitting stock No. 3085		2914	Spring—Flat spring with screws—Package of 10.....	.50
	REPRODUCER ASSEMBLIES		2915	Spring—Locating lever spring—Package of 10.....	.50
7373	Reproducer mounting bolt assembly—Comprising 2 bolts, 4 washers and 2 nuts—Package of 1 set.....	.50	2916	Plate—Latch plate with mounting screws—Package of 5.....	.50
8558	Reproducer paper cone.....	4.00	2917	Washer—Spring washer—Package of 10.....	.50
8559	Cone retaining ring.....	.80	2918	Spring—Index lever spring—Package of 10.....	.50
8713	Coil—Reproducer field coil.....	5.00	2919	Screw and Nut—Stop screw and nut—Package of 10.....	.50
	MOTOR BOARD AND AUTOMATIC RECORD CHANGER ASSEMBLY		2920	Washer—Friction washer—Package of 10.....	.50
2614	Switch—Motor Switch.....	1.40	2929	Lever—Rear elevator actuating lever—Package of 2.....	.50
2620	Cushions—Pickup rubber cushions—Comprising two pivots and one damper cushion—Package of 5 sets...	1.25	3052	Screw Assembly—Pickup pole shoe mounting screw, nut and washer—Package of 10 sets.....	.50
2767	Spring—Pickup magnet spring—Package of 10.....	.50	3159	Friction brake—Gear reducing friction brake spring and pad with mounting rivets—Package of 4.....	2.00
2768	Armature—Pickup armature.....	.50	3161	Spring—Shift lever spring—Package of 5.....	1.20
2769	Coil—Pickup coil.....	.50	3167	Magnet—Pickup magnet.....	2.60
2770	Plate—Pickup damper plate—Package of 5.....	.50	3169	Pole shoe—Pickup pole shoe—R.H.....	1.45
2771	Screw—Pickup damper plate mounting screw—Package of 10.....	.50	3170	Pole shoe—Pickup pole shoe—L.H.....	1.45
2779	Pointer—Recording control switch metal pointer—Package of 10.....	.50	3173	Plug—Three prong female connector plug and microphone socket.....	1.30
2857	Plug—Three way male connector plug..	.70	3175	Receptacle—Needle receptacle for Tungstone boxes.....	.75
2893	Spring—Trip lever spring—Package of 10.....	.60	3184	Board—Pickup terminal board.....	.50

Order By Stock Number Only

REPLACEMENT PARTS—Continued

Stock No.	DESCRIPTION	List Price	Stock No.	DESCRIPTION	List Price
3186	Control—Volume control and operating switch complete with mounting washer and nut—25-30 cycles.....	\$2.20	7188	Bracket—Slide bracket with roller.....	\$0.75
3187	Weight—Recording weight.....	1.40	7189	Lever—Front and rear elevator cam lever—Package of 5.....	2.20
3189	Box—Needle box with lid—Package of 2.....	.70	7190	Lever—Locating lever.....	.85
3192	Post—Roller post assembly for supporting record magazine.....	.75	7191	Lever—Cable lever.....	.60
3193	Screw—Magazine bearing mounting screw and nut—Package of 10.....	.50	7192	Cam—Cam gear and cam.....	1.50
3194	Screw—Pickup arm base mounting screw and nut—Package of 10.....	.50	7194	Rotor and Shaft—60 cycles.....	8.00
3195	Lever—Record transfer lever with screw and nut.....	1.65	7204	Rotor and shaft—50 cycles.....	8.00
3196	Screw—Record transfer lever mounting screw and nut—Package of 10.....	.50	7305	Gear reducing unit complete.....	4.50
3197	Escutcheon—Turntable speed escutcheon plate with mounting rivets—Package of 2.....	.70	7311	Resistor—20,675 ohms tapped porcelain resistor—25-30 cycles.....	2.00
3198	Bushing—Insulator rubber bushing—Package of 10.....	.50	7313	Switch—Selector switch with mounting nut and escutcheon.....	6.40
3199	Screw—Bottom plate mounting screw—Package of 10.....	.50	7315	Spindle and gear—Turntable spindle with gear—25 cycles.....	6.00
3200	Shaft—Front or rear elevator shaft.....	.80	7316	Spindle and gear—Turntable spindle with gear—30 cycles.....	6.00
3201	Rear elevator pad—Package of 5.....	2.75	7317	Spindle and gear—Turntable spindle with gear—50 cycles.....	5.00
3202	Front elevator pad—Package of 5.....	3.00	7318	Spindle and gear—Turntable spindle with gear—60 cycles.....	5.00
3203	Screw—Elevator pad mounting screw—Package of 10.....	.50	7319	Rotor and shaft—25 cycles.....	10.00
3204	Cable—Pickup arm cable—Package of 5.....	1.50	7320	Rotor and shaft—30 cycles.....	10.00
3205	Screw—Pickup needle holder screw—Package of 10.....	.80	7321	Lever—Cable guide lever with pulley.....	.90
3206	Cover—Pickup cover.....	.75	7322	Lever—Manual index lever.....	.60
3207	Screw—Pickup cover mounting screw—Package of 10.....	.50	7323	Magazine bearing—Located on motor board.....	1.35
3208	Screw Assembly—Pickup mounting screw, nut and washer—Package of 10.....	.60	7324	Pickup arm base bearing—Located on motor board.....	.85
3209	Lever—Trip lever.....	1.10	7325	Pickup—Pickup unit complete.....	12.50
3210	Lever—Magazine lever.....	.65	7330	Capacitor—Motor capacitor 3.75 mfd. for 25 or 30 cycles.....	4.00
3211	Washer—Turntable spindle leather washer—Package of 10.....	.50	7363	Pad—Rubber pad for front elevator—Package of 10.....	.50
3212	Spring—Turntable spindle plunger spring—Package of 10.....	.50	7364	Lever—Speed reducing shift lever.....	.50
3213	Bolt—Motor board mounting bolt—Package of 8.....	.90	7374	Cover—Turntable covering.....	.50
3214	Pulley—Cable pulley with mounting stud—Package of 5.....	.50	7375	Resistor—13,175 ohms—Tapped porcelain resistor.....	2.10
3217	Lever—Check lever.....	.50	8644	Capacitor—Motor capacitor—1.25 mfd. for 50 or 60 cycles.....	1.40
3261	Cap—Rubber cap for turntable spindle—Package of 5.....	.50	8646	Slide—Main slide.....	2.20
3262	Screw and Nut—Record transfer lever adjusting screw and nut—Package of 10.....	.60	8647	Lever—Four finger lever.....	1.20
3280	Washer—Metal washer located under gear reducing unit—Package of 20.....	.50	8752	Motor—Motor complete—25 cycles.....	41.00
3282	Cup—Needle cup.....	.50	8753	Motor—Motor complete—30 cycles.....	41.00
6115	Pawl—Clutch pawl.....	1.25	8754	Motor—Motor complete—50 cycles.....	41.00
6116	Ratchet—Gear and ratchet complete with set screw.....	.90	8755	Motor—Motor complete—60 cycles.....	33.50
6117	Screw and nut—Pickup arm height adjusting screw and lock nut—Package of 10.....	.50	8757	Arm—Pickup arm complete with weight—less pickup unit.....	6.00
7151	Back—Pickup back housing.....	.50	8758	Magazine—Record magazine.....	4.00
7186	Gear—Gear and bracket.....	1.40	8782	Board—Motor board assembled with speed reducing lever, lever spring, elevator bushings and speed escutcheon plate.....	6.10
			8783	Turntable—Turntable with cover.....	7.00
				MISCELLANEOUS	
			2837	Button—Bronze button for Home-Radio recording double push button assembly—Package of 2.....	.50
			3265	Switch—Compartment lamp switch with mounting nut and escutcheon.....	1.40
			3266	Bracket—Compartment lamp socket bracket—Package of 5.....	.50

Order By Stock Number Only

REPLACEMENT PARTS—Continued

Stock No.	DESCRIPTION	List Price	Stock No.	DESCRIPTION	List Price
3267	Bushing—Bakelite screw bushing for lamp socket—Package of 10.....	\$0.50	8784	Cable—Compartment lamp cable.....	\$0.75
3268	Gear—48 tooth micarta intermediate gear for control switch.....	1.25	8785	Cable—Main cable—From S.P.U. to input transformer, control switch, tapped resistor and receiver.....	3.40
3269	Gear—73 tooth micarta drive gear for control switch.....	1.25	8786	Switch—Control switch complete—Comprising switch, Intermediate gear and drive motor—For remote control only.....	49.55
3270	Cap—Friction cap for end of drive shaft on drive motor—Package of 10.....	.60	8787	Motor—Drive motor complete with drive shaft—For control switch.....	16.00
3271	Ring — Retaining ring for control switch motor—2 used—Package of 8.....	.50	8788	Reactor and capacitor pack—One assembly in metal container.....	4.10
3272	Screw Assembly—Comprising screw nut and spacer—For Home-Radio recording double push button assembly—Package of 10.....	.65	8789	Filter unit in metal container.....	4.30
3273	Bracket—Lamp socket and bracket—For Home-Radio signal ruby crystal.....	.55	8792	Microphone.....	75.00
3274	Crystal—Ruby crystal and mounting —For Home-Radio recording signal —Package of 5.....	2.50	8793	Cable—Main cable—From S.P.U. to input transformer, control switch, tapped resistor and receiver—25-30 cycles.....	2.75
3275	Resistor—17 ohms—Wire wound resistor—Package of 5.....	3.75	10270	Cord—Outside power cord with male and female connector plugs.....	2.00
3276	Receptacle—Male input power supply receptacle.....	1.10	10371	Socket—Compartment lamp socket....	1.40
3277	Microphone unit suspension spring—Package of 10.....	1.50	DRIVING UNIT ASSEMBLIES		
7197	Shade—Compartment lamp shade—Package of 5.....	1.75	2837	Button—Bronze colored push button —Package of 2.....	.50
7312	Transformer—Input transformer.....	6.55	2844	Terminal strip—Complete with 6 terminals, mounting screws, spacers and nuts.....	1.20
7376	Home-Radio recording double push button assembly—Complete.....	1.50	2845	Blade—Spring blade—Restores motor to normal position when power is off —Complete with micarta mounting blocks, washers and mounting screws.....	.50
7377	Body—Home-Radio recording double push button body—Package of 5.....	.50	2846	Gear—Micarta bendix gear, pinion and taper pin.....	1.00
7378	Contact base—Home-Radio recording double push button base.....	.85	2847	Relay Assembly — Complete with mounting screws.....	5.00
7379	Cable—Red and Black 16" Cable—From terminal strip to terminal strip on S.P.U.....	.65	2848	Blade—Switch blade complete with clamping plate and mounting screws.....	.60
7380	Cable—6" red shielded cable—From control switch to record volume control—Package of 5.....	1.90	2850	Plunger — Oxidized finish — Brass plunger—Package of 2.....	.50
7381	Cable—6" black shielded cable—From control switch to record volume control—Package of 5.....	1.90	2851	Gear—Micarta bendix gear, pinion and taper pin—Volume control drive gear.....	1.00
7382	Cable — 46" black shielded cable — From pickup terminal board to control switch—25-30 cycles.....	.55	2852	Gear — Micarta intermediate drive gear, pinion and taper pin—For volume control.....	1.00
7383	Cover Assembly—Microphone front cover assembly.....	8.45	2853	Gear — Star gear and taper pin — Located on end of condenser shaft and fits into ring.....	1.00
7384	Frame—Microphone frame less cover assemblies.....	19.25	2854	Contact—Contact screw and lock nut —Located on contact plate No. 7158 —Package of 5.....	.50
7385	Mechanism—Microphone mechanism unit.....	60.00	2855	Switch Assembly—Plunger switch—Comprising micarta strip with 6 contact blades and 2 mounting screws.....	1.20
7386	Cord—Microphone cord.....	3.60	2856	Spring—Tension spring assembly for plunger—Complete with mounting screws—Package of 5.....	.50
7387	Tone compensating reactor with bracket.....	.85	2857	Plug—Male section of 3 prong polarity plug.....	.70
7396	Cover—Control switch cover.....	1.00	3008	Contacts — Remote relay contact spring blades—Package of 4 sets.....	.50
7397	Cable—56" black shielded cable—From pickup terminal board to control switch.....	.55	7157	Gear—Ring gear with taper pin— Located on end of cam shaft.....	2.00
7399	Cable—Power cable with 3 way polarity plug—From record changer to control switch and S.P.U.....	2.00			
7411	Cover Assembly — Microphone back cover assembly.....	7.25			

Order By Stock Number Only

REPLACEMENT PARTS—Continued

Stock No.	DESCRIPTION	List Price	Stock No.	DESCRIPTION	List Price
7158	Plate—Contact plate complete with 6 contacts, lock washers and mounting screws.....	\$1.50	2843	Base Assembly—Control box base—Comprising base, felt and clamping plate.....	\$1.40
7159	Cable—Braided cable—From driving unit to terminal board located in cabinet.....	2.00	3283	Log strip assembly—Comprising 3 paper log strips and one metal holder.....	.50
7160	Cable—Braided cable and male section of polarity plug—From driving unit to power supply.....	2.00	7154	Cable—Flat type—25 foot long—Complete with terminals.....	10.00
7162	Switch—Auxiliary switch assembly—Comprising micarta strip with four contacts and one common plate—Located on control panel.....	1.50	7161	Terminal board—Comprising micarta strip with 12 terminals, 12 screws, 1 rubber grommet and mounting bracket.....	2.00
7163	Escutcheon — Auxiliary switch escutcheon—Complete with mounting screws, nuts and spacers.....	2.00	7254	Cable—Flat type—50 foot long—Complete with terminals.....	20.00
7398	Rheostat—Volume control rheostat with bracket and gear—Assembled...	3.00	8798	Control box—Complete less cable.....	12.00
8616	Motor—Drive motor complete with two pinion gears.....	16.00	8799	Control box—Complete with 25 foot cable.....	22.00
8617	Capacitor Pack—In metal container...	11.00	CABINET ASSEMBLY		
8797	Mechanism—Driving mechanism complete.....	80.00	X-1	Control panel.....	15.00
CONTROL BOX ASSEMBLIES			X-2	Control Panel—25-30 cycles.....	7.50
2833	Button—Red colored push button—Package of 2.....	.50	X-3	Foot.....	10.50
2834	Button—Red colored push button with white insert—Package of 2.....	.50	X-4	Escutcheon—Tuning dial escutcheon...	2.90
2835	Button—Black colored push button—Package of 2.....	.50	X-5	Doors—Top compartment doors—R.H. and L.H. less hinges—1 pair ...	124.75
2836	Button—Black colored push button with white insert—Package of 2.....	.50	X-6	Doors—Bottom grille doors—R.H. and L.H. less hinges—1 pair.....	72.35
2837	Button—Bronze colored push button—Package of 2.....	.50	X-7	Carving—Top front post top carving...	4.15
2838	Bullseye — Pilot lamp indicator — Package of 2.....	1.30	X-8	Carving — Top front post bottom carving.....	3.10
2839	Switch Assembly—Dilecto strip with 10 contacts—Inside of control box—Package of 5.....	9.20	X-9	Carving — Bottom front post top carving.....	7.55
2840	Socket—Miniature base pilot lamp socket with mounting bracket, mounting screws, washers and nuts...	.50	X-10	Carving — Bottom front post bottom carving.....	6.10
2842	Cover—Control box metal cover with mounting screws, rubber bushings, button guide plate and stud.....	5.00	X-11	Carving—Inside arch rail carving.....	4.45
			3136	Screen—Tuning dial screen—Package of 2.....	.50
			3156	Label—Metal trade mark label—Package of 5.....	2.50
			7279	Support—Dial screen support.....	.50
			9395	Cabinet — Cabinet complete less equipment.....	580.00
			9396	Cabinet — Cabinet complete less equipment—25 cycles.....	580.00
			10254	Hinge—Cabinet door hinge with mounting screws—Package of 4.....	1.70

Order By Stock Number Only

