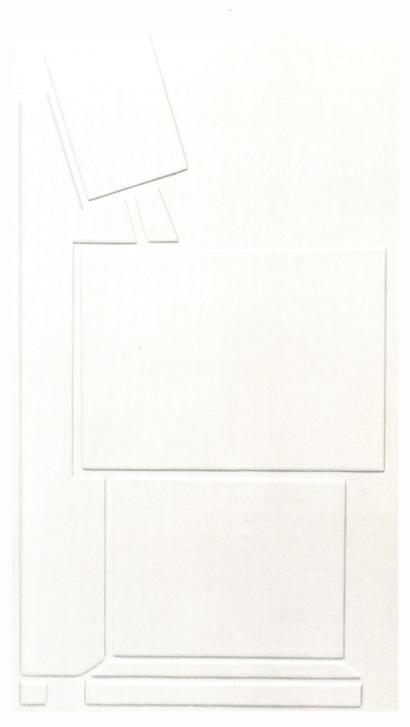
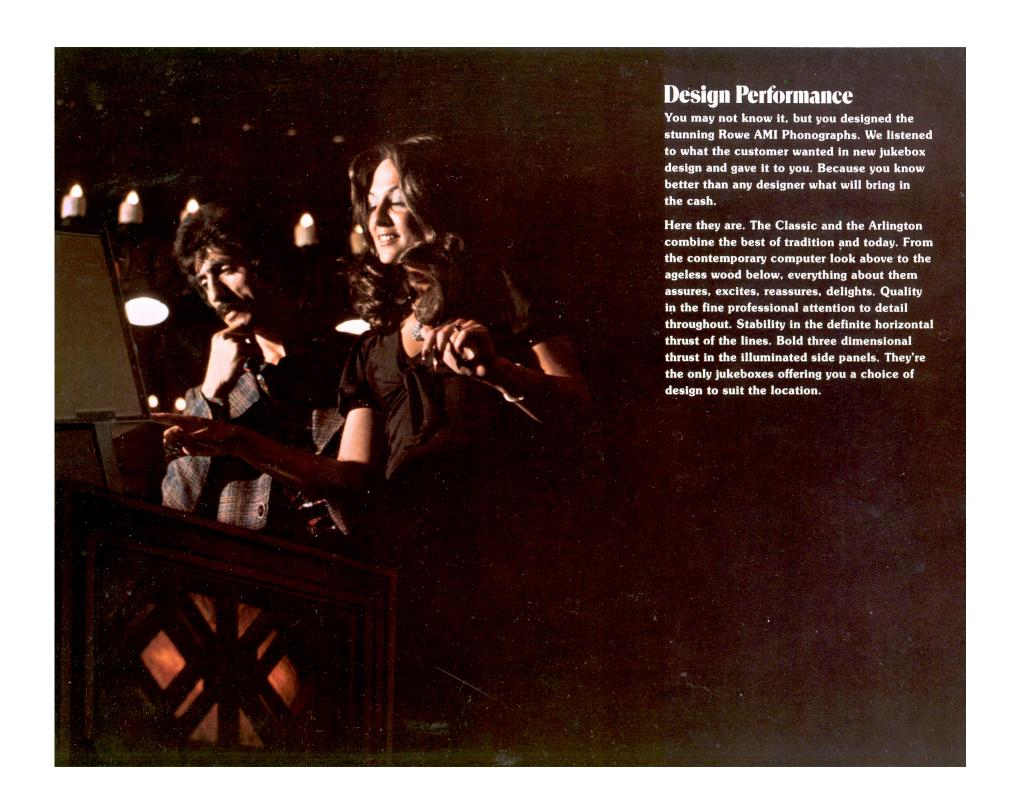


The New Phonographs by Rowe AMI





# **Sound Performance**

What sound. Vibrant, alive, because the full amplifier wattage is delivered to the speakers. The Classic and the Arlington literally surround you with Rowe "Stereo Round". Superior stereo from any listening position. And, there's a choice of amplifiers to get the most out of any location.

# **Unique Performance**

These are the only 200 selection jukeboxes on the market. They have a solid state credit unit that permits almost infinite price and bonus capability (fully compatible with our dollar bill acceptor). They're the only ones with a 45/33 RPM AUTOMIX\*\* mechanism as standard equipment. Optional burglar alarm and insurance program are available.

# Durability and Reliability Peformance

Rowe's incomparable durability and reliability is backed by the only no-nonsense, no-doubletalk full five-year warranty in the business. Frankly, we can afford it. Our machines are built to give more trouble free performance, are easier to service and last longer than anything on the market. Seven ply glued and screwed construction. Enclosed plug-in relays, sintered gold contacts, tough Teflon and Emralon dry lubricant, silicon transistors and glass fibre reinforced plastics prevent problems from ever happening. Mechanisms are easily accessible . . . easy to work on.

No wonder we call them





For the traditional interior. Sophisticated warm woods. Soft spoken quality. Timeless elegance that enhances the most tasteful atmosphere.

# Features:

• Warm, attention-getting appearance from back-illuminated orange-gold, krinkle glass set in woodgrain front and side frames. Silver embossed top grilles. Highly readable vertical pattern selector buttons set off in black and chrome. Contrasting color price card and instruction areas. Tempered clear title rack glass tilted slightly to eliminate glare. Traditional Rowe AMI outstanding quality and workmanship maintains "like new" appearance in any environment. Exclusive 5-Year Warranty on all moving parts.

• Rowe AMI patented STEREO ROUND® sound, with 6 speakers (two 10" bass speakers in duct-tuned bass reflex sound chamber, two 6" mid-range and two tweeters). True

stereo from any angle, in any location.

• NEW Solid State Credit Computer with unlimited pricing (single and bonus plays) accepts any combination of coins (and optional bill acceptor credit). Self-contained price programming switches allow price and bonus changes in the field without jumpers or separate programming boards.

• NEW Universal Price Card with self-adhesive numbers. Allows rapid field changing of standard and bonus price

levels.

• Fast, easy location servicing. Mechanism easily slides straight out, or can be worked on inside cabinet. Side panel lighting for shadow-free accessibility. No lubrication required for FIVE YEARS.

• Full line of options, including new Solid State Print-Out Money Meter and Bill Acceptor with bill stacker feature.

(see back cover for equipment and options)

# **Specifications:**

- Frequency response 20 20,000 Hz. at—3 db.
- Choice of 64 watt RMS or 120 watt RMS solid state stereo amplifier.

• High Compliance diamond stylus cartridge.

• Height 50-11/16" (129 cm), Width 41-7/8" (106 cm), Depth 27-1/2" (70 cm).

• Weight 360 lbs. (163 kg).

• Electrical 120 VAC, 60 Hz. 490 Watts. Circuit breaker protection and 3-wire grounded electrical system for U.L. type listing world-wide.



# Arlington

For the swinging location.

A gentle balance of textures and moods.

Fresh. Bright. Pleasing. A promise of good fun.

# **Features:**

• Vibrant blue back-illuminated front and side panels complimented by woodgrain framing for a touch of elegance. Highly visible top panel with vertical pattern selector buttons, contrasting color instruction area, and silver embossed speaker grilles. Tempered clear title rack glass tilted slightly to eliminate glare. "Human-engineered" design and quality construction materials maintain its fresh, new appearance in any environment. Exclusive 5-Year Warranty on all moving parts.

• Rowe AMI patented STEREO ROUND®sound, with 6 speakers (two 10" bass speakers in duct-tuned bass reflex sound chamber, two 6" mid-range and two tweeters). True

stereo from any angle, in any location.

• NEW Solid State Credit Computer with unlimited pricing (single and bonus plays) accepts any combination of coins (and optional bill acceptor credit). Self-contained price programming switches allow price and bonus changes in the field without jumpers or separate programming boards.

• NEW Universal Price Card with self-adhesive numbers. Allows rapid field changing of standard and bonus price

levels.

• Fast, easy location servicing. Mechanism easily slides straight out, or can be worked on inside cabinet. Side panel lighting for shadow-free accessibility. No lubrication required for FIVE YEARS.

• Full line of options, including new Solid State Print-Out Money Meter and Bill Acceptor with bill stacker feature. (see back cover for equipment and options)

# **Specifications:**

- Frequency response 20 20,000 Hz. at—3 db.
- Choice of 64 watt RMS or 120 watt RMS solid state stereo amplifier.

• High Compliance diamond stylus cartridge.

• Height 50-11/16" (129 cm), Width 41-7/8" (106 cm), Depth 27-½" (70 cm).

Weight 360 lbs. (163 kg).

• Electrical 120 VAC, 60 Hz. 490 Watts. Circuit breaker protection and 3-wire grounded electrical system for U.L. type listing world-wide.



Erestwood

A quiet, unobtrusive console that blends into and subtly enriches the elegant atmosphere. Low profile, rich woods. An exquisite furniture piece.

# **Features:**

• Indirectly lit bronze finished front grille accents rich woodgrain trim and sides. Simulated slate top opens to reveal warm seaport scene framed in bronze. Tempered glass protects front-lit title rack. White pushbutton selector assembly and die cast, chrome plated coin and bill acceptor area. Illuminated customer instruction area. Exclusive 5-Year Warranty on all moving parts.

• Full Range Stereo Sound with 5 speakers (one 10" bass speaker in a duct-tuned bass reflex sound chamber, two

6" mid-range and two tweeters).

- NEW Solid State Credit Computer with unlimited pricing (single and bonus plays) accepts any combination of coins (and optional bill acceptor credit). Self-contained price programming switches allow price and bonus changes in the field without jumpers or separate programming boards.
- Fast, easy location servicing. No lubrication required for 5 Years.
- Full line of options, including new Solid State Print-Out Money Meter and Bill Acceptor with bill stacker feature. (see back cover for equipment and options)

# **Specifications:**

- Frequency response 20— 20,000 Hz at—3 db.
- Choice of 64 watt RMS or 120 watt RMS solid state stereo amplifier.
- Height 32-13/16" (83.6 cm), Width 52-3/4" (134 cm),
   Depth 24" (61 cm)
- Weight 345 lbs. net (156.5 kg).
- Electrical 120 VAC, 60 Hz. 415 Watts. Circuit breaker protection and 3-wire grounded electrical system. Export electrical configurations available. U. I., Listed.

NEW Solid State Credit Computer with unlimited pricing and bonus capability. Programmed by rocker switches.

Total Front Door Accessibility to all components. Mechanism easily serviced in place.

Top Door spring balanced, cannot fall on operator.

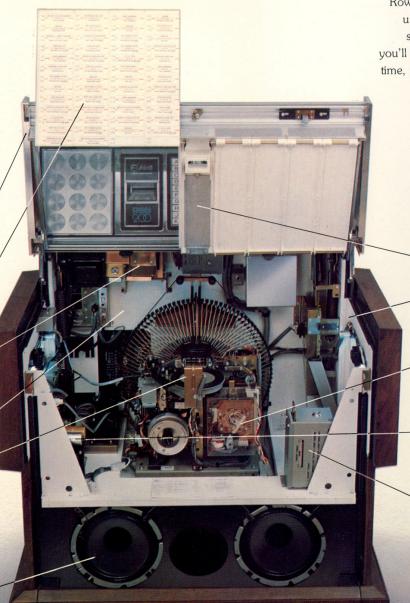
Title Racks flip up at eye level for easy title-strip label changes.

Three-wire grounded electrical system with circuit breakers.

Separate locked Bill Stacker on bill acceptor stacks and faces bills for fast removal and counting.

200 selection 33—45 RPM AUTOMIX mechanism for "Popular" and "Little LP" selections.

Six speaker STEREO ROUND® sound with two 10" bass speakers in duct tuned bass reflex sound chamber, two 6" heavy duty midrange speakers, and two high frequency tweeters.



Rowe AMI's beauty is not skin deep. Take a peek underneath at the most engineered and reliable system on the market. These features are what you'll live with in the way of bigger take, less service time, fewer calls and years of uncomplaining service.

5-Year Warranty on all moving parts. No lubrication required for Five Years.

Identification area for operator license and card.

Side Panel lighting also provides shadow-free work light inside cabinet for serviceman.

Gold Plated circuit board in Search Unit for absolute reliability.

Choice of 64 watt RMS or 120 watt RMS solid state stereo amplifier

New Solid State Print-Out Money Meter records and totals all coins and bills from phonograph and wall boxes.

High impact kick rail and reinforced speaker grille. Heavy duty high quality construction materials used throughout.

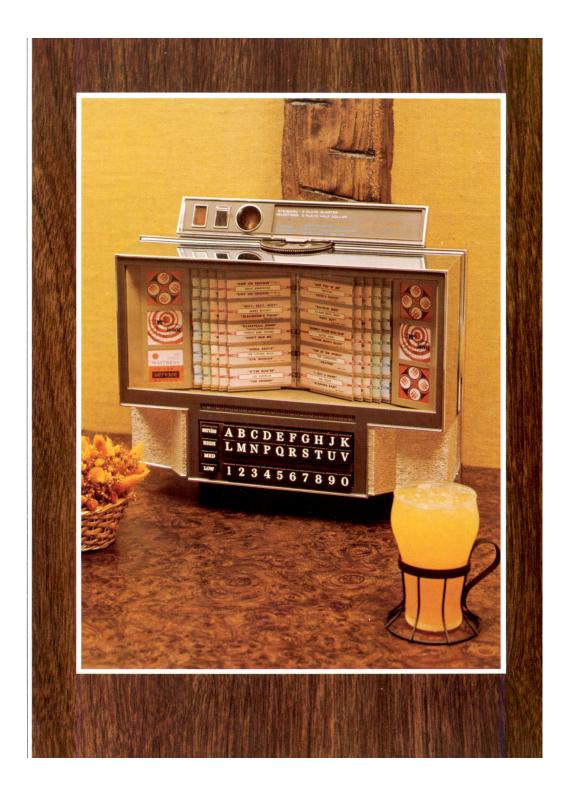
# Rowe AMI Wall-Ette

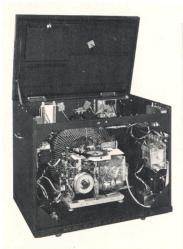
Compact, attractive wallbox puts the jukebox within arm's reach for extra impulse sales. Bright graphics and two-ear, you-are-there stereo invites more play. Full 200-selection capability and choice of either 5¢ to 25¢ or 10¢ to 50¢ selection models. Twelve display panels within box for miniature album covers or local advertising. Winking waitress call light actuated by customer adds a touch of convenience for the location.

Designed from the inside out for fast, efficient servicing. Flip out title page unit facilitates label changes. Swing-out, lift-off door opened by single key provides complete access to internal components. Unitized selector and speaker assembly easily removed with two screws and two plug connections in 60 seconds, should repairs ever be necessary.

# **Specifications:**

- Model WRA 5¢, 10¢, 25¢ pricing.
- Model WRC 5¢, 10¢, 25¢, 50¢ pricing.
- Height 13-3/8" (34 cm), Width 16-1/2" (42 cm),
- Depth 6-1/4" (15.9 cm)
- Weight 50 lbs. net (22.7 kg).





#### Hideaway.

Model HLJ. Up to six power supplies can be installed inside cabinet. Additional power supplies can be handled outside. Each power supply handles 6 wall boxes. 120 watt (R.M.S.) solid state amplifier standard. 200 selections.



#### EX-401 Extension Speaker.

Oil finished walnut cabinet and twoway speaker system with cross-over network give this system the sound and appearance to go with any location. A 10" low frequency driver and a high frequency horn speaker matched in a duct-loaded enclosure result in a frequency response of 55 to 15K Hz.,  $\pm 4$ db. Level and mounting adjustments for maximum high frequency sound dispersal. 25 Watts program material from 8 ohm input, or 70 Volt line transformer tapped for 0.5, 1, 2, 4, 8, 12, 15, or 25 watts. Dimensions 24" ×  $19^{3}/8'' \times 9''$  deep. Designed for wall or ceiling mounting.



#### Paging System.

Permits paging over the phonograph speaker system. This is a plug-in unit for MM-2 through latest model phonographs.

#### Monitor Burglar Alarm.

Freon gas operated horn makes an exceptionally loud noise if attempts are made to open or smash the cash box door.

15 oz. freon can allows hundreds of test blasts before a replacement is needed. Install with 3 screws through cash box door.

Operates even if power is off. Automatically disarms with key.



#### Insurance Plan available covering loss of machine and contents from fire, theft, and vandalism.



## nowe international, inc.

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#### EX-301

Attractive, durable walnut vinyl exterior surrounds this two-way, high efficiency music system with 10" low frequency and 31/2" high frequency speakers. Duct-loaded enclosure results in frequency response of 60 to 12K Hz., ±5 db. 24 Watts program material from 8 ohm input to 70 Volt line transformer tapped for 0.5, 2, 4, 8, 12, or 24 watts. Dimensions  $25'' \times 14^3/4'' \times 9^1/s''$  deep. Designed for wall or ceiling mounting.



#### Solid State **Print Out** Money Meter.

Records and totals all coins and bills from phonograph and wall boxes. Print out feature is mechanical.



### 120 Watt [R.M.S.] Solid State Amplifier.

Ideal for locations that need high sound levels from extension speakers. This unit is also recommended for installations with large numbers of wall boxes.



#### EX-201

Quality and sound appearance in a small package. Walnut vinyl exterior conceals one 8" wide-range speaker capable of 12 watts program material Frequency response of 75 to 10K Hz., ±5 db. Dual input impedance: 8 ohms or 70 Volt line transformer tapped for 0.5, 2.4, 4, 8, or 12 watts. Dimensions  $23^{3/4}$ "  $\times$  11"  $\times$  9" deep. Designed for wall or ceiling mounting.



#### Bill Acceptor.

Allows use of dollar bill in phonograph. Comes with \$400 capacity bill stacker with a separate lock for security. Plugs into phonograph. (no added power required.)

Excellent discrimination against bogus bills. Automatic feed. Credit storage.



#### Stepper.

CGA model for use in installations with AMI wall boxes, CGC (160 and 200 selection wall boxes other than AMI).



#### EX-700

Compact walnut vinyl finish wall mount speaker with natural cane grille. Contains one 8" speaker with frequency response of 120 to 10K Hz., ±5 db. 70 Volt line transformer tapped for 0.3, 0.6, 1.25, 2.5, and 5 watts maximum. Dimensions  $11^{3/4}$ " ×  $10^{1/8}$ " ×  $6^{1/2}$ " deep.



#### Remote Volume Control.

Single element control usable with all MM through latest model phonographs. It is a 2-wire system for volume control, and 3-wire for volume and cancel controls.



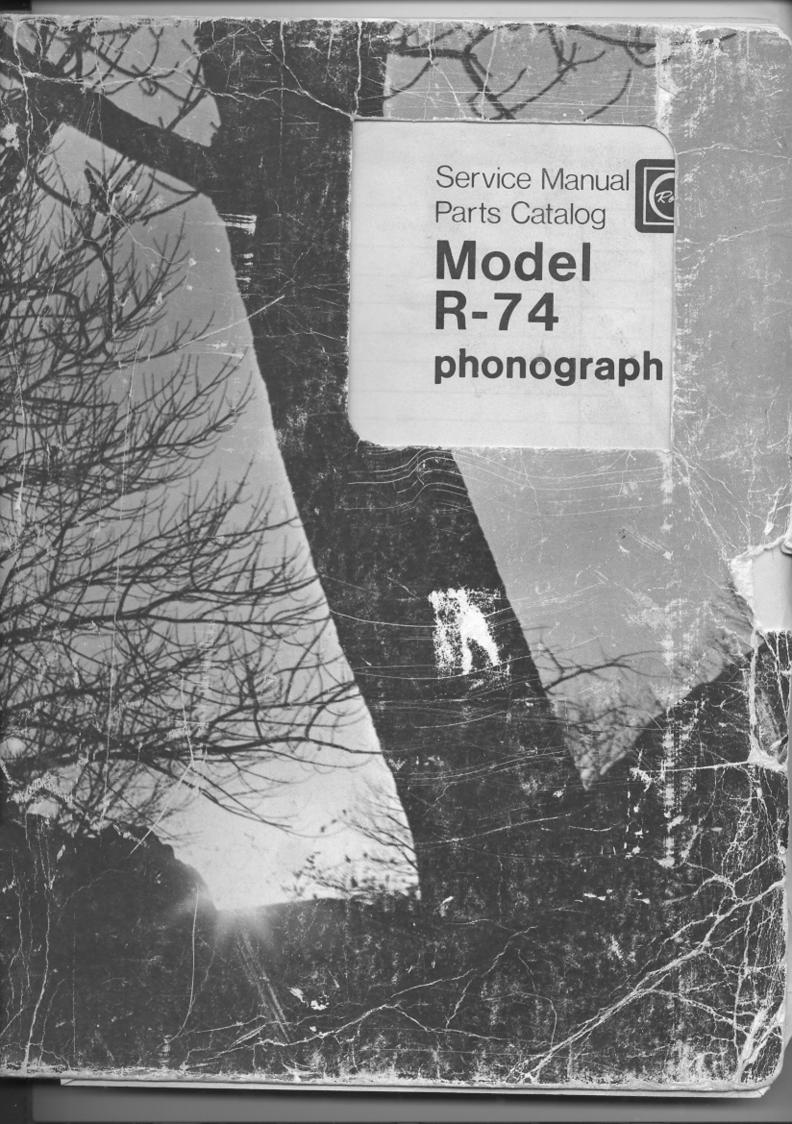
#### Power Supply.

For Stepper at left. 401-5627 - Plug-in

power supply. 401-5678 – Power supply in addition to above when more than 6 wall boxes are installed in a location.

Printed in U.S.A.

900-85201 Specifications subject to change without notice



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## **SPECIFICATIONS**

#### GENERAL

 DEPTH
 27-1/2 in. (70cm)

 WIDTH
 41-7/8 in. (106 cm)

 HEIGHT
 50-11/16 in (129 cm)

 SHIPPING WEIGHT (DOMESTIC)
 400 lbs.

 SHIPPING WEIGHT (EXPORT)
 415 lbs.

 NET WEIGHT
 360 lbs. (163 kg)

 POWER REQUIREMENTS
 120 vac, 50/60 Hz, 490 watts, 4.9 amps

#### RECORD CHANGER MECHANISM

 CAPACITY
 100 records

 RECORD SIZE
 7 inches

 SPEED
 33 and 45 rpm

#### CREDIT AND PRICING SYSTEM

#### SOUND SYSTEM

CARTRIDGE
T YPE Shure Dynetic variable reluctance
FREQUENCY RESPONSE 20 to 20,000 Hz
CHANNEL SEPARATION 25 db @ 1,000 Hz

CHANNEL SEPARATION 25 db @ 1,000 Hz NOMINAL COMPLIANCE 7.5 x 10<sup>-6</sup> cm/dyne

TRACKING FORCE 4 grams
OUTPUT 7 mv.

STYLUS 0.7 mil, diamond

POWER AMPLIFIER

POWER OUTPUT PER CHANNEL, 64 WATT AMPLIFIER 32 watts rms (70-volt output)

POWER OUTPUT PER CHANNEL,

120 WATT AMPLIFIER ..... 60 watts rms (70-volt output)

PREAMPLIFIER

AVC CONTROL RANGE. 40 db
TREBLE CONTROL 12 db/octave
10,000 Hz full

6,000 Hz moderate 3,000 Hz low

BASS CONTROL Compensates for abss loss at low volume levels

12 db per octave

# R-74





CLASSIC MODEL

SELI	ECT	ION	SYST	EM

ARLINGTON MODEL

# TRANSFORMER PACKAGE

CAPACITY. . . . .

POWER LEVELS FOR PHONOGRAPH SPEAKERS . . . . . . . 1, 4, 16, 28 64 watts. PROVIDES 70-VOLT LINE FOR EXTENSION SPEAKERS . . . . 28 watts in dual channel position

SPEAKER SYSTEM	SPEAK	ER S	YSTEM
----------------	-------	------	-------

#### LOW FREOUENCY

. . . . . . . . . . . . . . . . . . 200 selections

#### MID FREOUENCY

HIGH FREQUENCY

SPEAKER DIAMETER. . . . . . . . . . . . . . . . 10 inches

6 inches

3 inches

CROSSOVER ..... 350 Hz

SYSTEM FREQUENCY RESPONSE . . . . . . . . . . . . 50 to 17,000 Hz

5,000 Hz

..... 5, Amp, Type MTH-5, Fuse, 710-00720 (4)

#### LIGHTING

SELECTOR AND TITLE RACK . . . . . . . . . . . . . . . Fluorescent, 25 watts, 33 inches, 706-00601 FRONT DOOR . . . . . . . . . . . . . . . . . Fluorescent, 25 watts, 33 inches, 706-00601 CREDIT WINDOW 

#### FUSES AND CIRCUIT BREAKERS

DC CIRCUIT

#### JUNCTION BOX

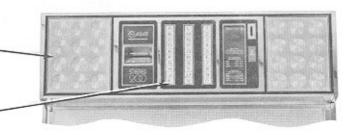
120 VAC CIRCUIT(TRANSFORMER PRIMARY ONLY). . 2 Amp Circuit Breaker, 715-00733 30 VDC CIRCUIT .... 3 Amp Circuit Breaker, 717-00733

#### AMPLIFIER

Stereo 64 W 120 VAC CIRCUIT . . . . . . . . . . . . . . . . . 1-1/2 Amp Circuit Breaker, 713-00733 DC CIRCUIT . . . . . . . . . . . . . . . . . . 2 Amp Fuse, 701-00720 (4) Stereo 120 W 120 VAC CIRCUIT . . . . . . . . . . . . . . . . . 3 Amp, Circuit Breaker, 717-00733

SPEAKER SYSTEM consists of two 10-inch low frequency speakers, two 6-inch speakers for mid-frequencies, and two high frequency tweeters. Crossover networks are also provided. (Bass speakers mounted in cabinet below).

SELECTOR ASSEMBLY consists of 3 pushbutton switch banks, a latch coil, a select pulse and latch relay, and a start relay. Each pushbutton completes a circuit to a corresponding search unit commutator segment. Premium pricing switches and a test switch are included on selector.



CREDIT COMPUTER registers credit for record play when coins operate the coin switches. Credit is removed when a selection is made. Also contains price programming switches.

JUNCTION BOX distributes 120-volt power to phonograph components and provides 30volt AC and 30-volt DC power for the sellection system, incandescent lamps, relays, and solenoids.

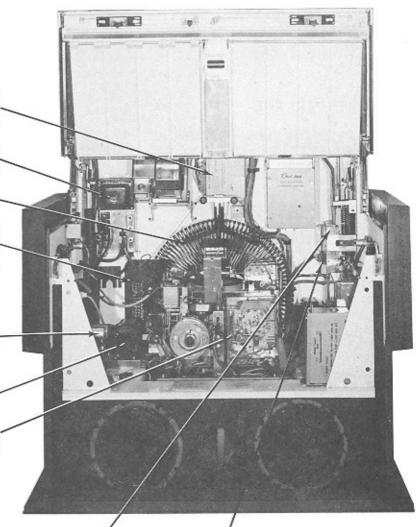
RECORD CHANGER MECHANISM holds-100 records and plays 200 selections.

REAR ACCESS DOOR contains an amplifier volume control, a cancel pushbutton, a manual on-off toggle switch, and terminal strips for wallbox, remote volume control, external speaker connections.

PREAMPLIFIER AND AMPLIFIER amplifies phonograph cartridge output and drives the speaker system.

OUTPUT TRANSFORMER PACKAGE matches amplifier output to speaker system impedance.

SEARCH UNIT AND PINWHEEL ASSEMBLY is a component of selection system. Pushes out pins on a mechanical pinwheel memory that correspond to record selection.



SLUG REJECTOR accepts good coins and rejects slugs and bad coins. Tests coins for size, thickness, weight, metal content, and shape.

COIN SWITCHES establish credit in the credit computer. Operated by coins as they fall from slug rejector into cash bag.

## **SECTION 1 - DESCRIPTION**

#### GENERAL

The R-74 represents the continuing improvement in styling and sound reproduction expected of Rowe/AMI's forward looking, pace-setting phonographs. A 200 selection, high fidelity stereo phonograph, the R-74 features solid-state credit and pricing, 64 watts of honest speaker-driving power, greater sound coverage, and ease and safety in servicing.

Circuit breaker protection of electrical systems, and a fault ground system are features retained in the R-74. The time-tested record changer mechanism requires lubrication only once every five years and the entire phonograph is covered by the most liberal

warranty in the music industry.

The phonograph contains a stereo sound system which starts with a 0.7 mil diamond stylus tracking at four grams pressure and ends with the biggest sound available. The 64-watt full-range, solid-state amplifier incorporates automatic volume control, automatic record quality control and automatic loudness contour. Location of middle and high frequency speakers gives the R-74 greater sound coverage. Bass power has been increased and the duct-tuned bass enclosure is larger than ever. The resulting increase in bass levels is immediately noticeable.

Each of the choices in styling offer brushed, epoxy-coated aluminum grilles, vinyl-clad steel lower sides, high-impact polystyrene and stainless steel trim, plus chrome plating over dual nickel for beauty and durability. All models provide subtly-lighted

side panels, and door and side panel glass is tempered safety glass.

Included in an array of optional accessory equipment is a 120 watt solid state amplifier for those locations with heavy extension speaker requirements. This proven amplifier delivers an honest 120 watts of power (rms) to the speaker system.

#### ACCESSORY EQUIPMENT

Phonograph accessory equipment is listed in the following table. All accessory equipment and kits include mounting parts and installation instructions. These accessories are available from your Rowe/AMI Distributor. New accessories will be announced as they become available in service bulletins issued by Rowe International, Inc. These service bulletins are mailed to all Rowe Distributors. Blank space has been left on page 1-3 for writing in new accessories.

TABLE 1-1. ACCESSORY EQUIPMENT

PART NO.	DESCRIPTION	FUNCTION
601-07406	Optional 120-Watt (RMS) Stereo Amplifier and Output Transformer Package.	Used in locations with heavy extension speaker requirements. Plugs into phono harness. Delivers 120W (RMS) power. Includes matching output transformer package.
214-14375	Dollar Bill Acceptor	Accepts valid one dollar bills in U.S. currency and estab- lishes one dollar's worth of credit in the phonograph credit computer.
201-66819	Digital Print Out Money Meter	Solid state device records total receipts on ticket inserted at each service call. The surest security device available. Plug in installation.
206-13723	Monitor Alarm Kit	Makes an incredibly loud noise if an attempt is made to pry open or smash in cash box door. Consists of a horn operated by a replaceable Freon acrosol can. Because the alarm is not electrically operated and is not accessible without a key, it cannot be disarmed.

PART NO.	DESCRIPTION	FUNCTION
201-66447	Phono Paging Kit	All plug-in unit, complete with microphone, preamplifier, and 50 foot microphone cable to allow use of phonograph sound system as paging system.
603-03400	WRC Wallette Wallbox	Remote control unit for phonograph. Has self-contained credit and pricing and selection system. Takes nickels, dimes quarters, half-dollars.
601-03400	WRA Wallette Wallbox	Same as WRC except that it takes nickels, dimes, and quarters only.
601-03380	CGA Stepper	Permits phonograph operation with Wallette wallboxes, Other models available for competitor wallboxes.
401-05627	Auxiliary Power Supply	Powers up to six Rowe/AMI Wallette wallboxes. Low- voltage supply separate from that required for the phonograph.
401-05678	Secondary Power Supply	Powers each additional six or more Rowe/AMI Wallette wallboxes.
		Other power supplies available for competitive equipment.
SPEC 5054	12-Conductor Cable	For connecting Wallette to Phonograph.
601-02187	Extension Speaker (Model EX-201)	12-watt, compact "bookshelf" speaker system contains one 8-inch full range speaker.
601-02188	Extension Speaker (Model EX-301)	25-watt, two channel system includes 3-1/2 inch tweeter and 10-inch bass speaker.
601-02105	Extension Speaker (Model EX-401)	25-watt, high efficiency, two-channel system includes horn and cone-type speaker.
402-02190	Decorator Extension Speaker (Model EX-700)	Wall-type speaker with walnut cabinet. 70.7 volts, 5 watts. Available with volume control.
301-03382	Monaural, 70 volt Line Level, Multiple Speaker Remote Volume Control (Model RC-800)	Multiple speaker control for use where it is desirable to control the volume of several speakers from a single point. Transformer-type control for use with 70. 7-volt, constant-voltage lines only. Rated at 15 watts maximum. Stainless steel mounting plate fits standard deep electrical outlet box.
301-03396	Stereo, 70-volt Line Level, Multi- ple Speaker Remote Volume Control (Model RC-800)	Stereo speaker line control. Similar to 301-03382 control but controls two speaker lines simultaneously. Requires double electrical switch box for mounting.

PART NO.	DESCRIPTION	FUNCTION
306-03333	Monaural Individual Speaker Remote Volume Control (Model RC-600)	Individual speaker volume control for controlling a single speaker. Contains a heavy-duty L pad control rated at 15 watts of audio power. An on-off switch allows speaker to be turned completely off.
301-03387	Monaural Individual Speaker Remote Volume Control (Model RC-700)	Individual speaker volume control for controlling a single speaker. Similar to Model RC-600 except that the L pad and switch are mounted on a stainless steel plate which fits a standard deep electrical outlet box.
301-03399	Stereo Individual Speaker Remote Volume Control (Model RC-700)	Dual speaker volume control for controlling one set of stereo speakers. Contains two ganged heavy-duty L pads rated at 15 watts of audio power each. On-off switch control both speakers. Mounted on a stainless steel plate that fits a standard deep electrical outlet box.
301-06322	Remote Volume and Cancel Control	Remote stereo volume control and cancel button.
SPEC 5064	Remote Volume and Cancel Control Cable	For connecting remote volume and cancel control to Phonograph.
302-06322	Remote Volume and Cancel Control with Cable	Remote stereo volume and cancel control with 50 feet of cable.

#### COMPATIBILITY CHART

The table on the following page shows the compatibility of various component systems and accessories with various model phonographs. Use this table as an aid in determining interchangeability of accessories, for field exchange and ordering purposes.

			THE REAL PROPERTY AND PERSONS ASSESSED.					
PRODUCT	T TI-2 STD	TI-2 Solid State Credit Com.	R-74	RI-1	RI-1G	CT1-1	ЦАН	ГЛН
64 Watt Amplifier 601-02179	79 OK	STD	STD	OK NO	OK	OK	OK	OK
* 64 W Output Transformer,5 Pos.SW 401-06322	22 OK	STD	1&3	OK	OK	OK	OK	OK
* 64 W Output Transformer, 6 Pos.SW 403-06322	22 2	2	STD	2	2	2	OK&3	OK&3
50 W Hybrid Amplifier W/Pre-Amp	601-04358 STD	OK	1&3	602-04572 STD	602-04572 STD	601-04358 STD		
100W Amp. with 100W Output Trans. 602-04195	95 OK	ОК	1&3			OK	STD	STD
120W Amp. with 120W Output Trans. 601-07406	16 2	2	OK			2	OK&3	OK&3
Credit Computer No. 1 601-06666	36	STD	ОК	,				
Credit Computer No. 2 601-07593	23	OK	STD					
MAF Money Meter 610-03301	)1 STD					STD	STD	5
MBA Digital Print-Out Money Meter 200-66699	99 OK	STD	4			OK OK		STD
MBB Digital Print-Out Money Meter 201-66819	9		STD					4
WRA, WRC Wallbox 604-03400; 605-03400	OTS D	STD	STD	STD	STD	STD	STD	STD
BA-2 Bill Acceptor W/Chopper	207-14375 STD	6	7			212-14375 STD		
BA-2 Bill Acceptor W/O Chopper		210-14375 STD	216-14375 STD					
Bill Stacker 601-07660	86		STD	- 7				
Bill Box	STD	STD				STD		

<sup>\*</sup> Dual channel possible. (Requires switch on T.A. cable for stereo records).

1. Will be mono. limited to 24W. in jukebox speakers.

2. Bass only

3. Need adaptor harness (Mate-N-Lok to Universal) if extension speakers used.

Need adaptor harness (Mate-N-Lok to Univ. Amp.)
 Need adaptor harness (12 way to 15 way) (Mate-N-Lok)
 Replace chopper with S.S. credit pulse board ass'y.
 Note 6 plus Adaptor Kit (Stacker).

#### BILL ACCEPTOR INTERCHANGEABILITY

The bill acceptor used in the R-74 can be adapted for use with MM-6, TI-1, and TI-2 models. In addition bill acceptors used in MM-6, TI-1, and TI-2 models are adaptable to the R-74. Specific information for each conversion is listed in the following chart:

TABLE 1-3. BILL ACCEPTOR INTERCHANGEABILITY CHART

ADAPTA	ATION	BILL ACCEPTOR	
FROM	то	CONTROL CENTER PART NO.	ADAPTATION INSTRUCTIONS
R-74 CREDIT COMPUTER	TI-2 CREDIT COMPUTER	607-03769	SUBSTITUTE 401-06521 CREDIT PULSE BOARD ASSEMBLY FOR 402-06521 OR CUT THE RUNNER AT PIN 5. SOME EARLY 401-06521 CIRCUIT BOARDS WERE CONVERTED TO 402-06521 BY SOLDERING A JUMPER WIRE TO PIN 5. IF YOU HAVE ONE OF THESE BOARDS, SIMPLY REMOVE THIS JUMPER
	TI-2 ELECTRO- MECHANICAL CREDIT UNIT	607-03769	SUBSTITUTE 401-05730 PULSE CHOPPER FOR 402-06521 PULSE BOARD ASSEMBLY.
R-74 CREDIT COMPUTER	TI-1 OR MM-6 ELECTRO- MECHANICAL CREDIT UNIT	607-03769	SUBSTITUTE 401-05730 PULSE CHOPPER FOR 402-06521 PULSE BOARD ASSEMBLY. REMOVE AND TAPE WHITE/SLATE WIRE FROM CENTER PIN AT 7-PIN COMBO PLUG.
	R-74 CREDIT COMPUTER	606-03769	* SUBSTITUTE 402-06521 CREDIT PULSE BOARD FOR 401-06521 OR ADD A JUMPER WIRE BETWEEN PINS 5 AND 12.
TI-2, TI-1 OR MM-6 ELECTRO- MECHAN- ICAL CREDIT COMPUTER	R-74 CREDIT COMPUTER	604-03769	* SUBSTITUTE 402-06521 CREDIT PULSE BOARD FOR 401-05730 PULSE CHOPPER

<sup>\*</sup> WHEN CONTROL CENTERS 604-03769 OR 606-03769 ARE USED, THE BILL ACCEPTOR WILL NOT BE LOCKED OUT DURING THE STACK CYCLE. TO ADD THIS FEATURE, REMOVE AND TAPE THE YELLOW/GREEN WIRE FROM THE CENTER POSITION OF THE 7-PIN COMBO PLUG. CONNECT A WHITE/SLATE WIRE TO THE CENTER POSITION, RUN THROUGH THE HARNESS TO THE CONTROL CENTER AND CONNECT TO THE EXISTING WHITE/SLATE WIRE ON PIN 12 OF THE LOGIC BOARD EDGE CONNECTOR.

## **SECTION 2 - INSTALLATION**

#### GENERAL

This section contains instructions for unpacking the phonograph and installing it on location. The phonograph is shipped with all major components in place. Installation is quickly and easily accomplished. Save all tie-down hardware should it be necessary to move the phonograph to another location.

#### ACCESSORIES BAG ASSEMBLY

Included is a plastic bag containing slip-on terminals connecting accessories, a quality control card, an assortment of spare fuses and spare contacts for MATE-N-LOK connectors. It is recommended that you leave this Service Manual and the accessory bag assembly in the phonograph cabinet in case they are needed.

#### WARRANTY REGISTRATION CARD

A postage-paid warranty registration card is included with the phonograph. Use this card to register the phonograph for in-warranty repairs.

#### UNPACKING INSTRUCTIONS

The phonograph is shipped in one carton, ready for installation. The shipping carton should be opened carefully to prevent the phonograph from being damaged or scratched. Inspect the exterior and interior of the cabinet for evidence of damage.

In case of damage, please notify the delivering carrier at once to call and examine the phonograph regardless of the external condition of the boxes. Under U.S. regulations, damage claims must be collected by the consignee. Do not return shipping-damaged merchandise until after your claim has been established. Once your claim is established, damaged merchandise may be returned to the Rowe/AMI distributor for repair. The invoice for repair charges may then be collected from the carrier. Do not destroy packing material or boxes until the carrier's agent has examined them. Unpack the phonograph as follows.

#### REMOVE PACKING CASE AND SHIPPING CARTON

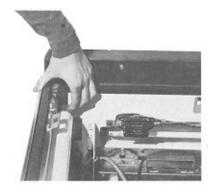
- Carefully open packing case. Do not use shipping hooks or other sharp instruments.
- 2. Remove plastic bag from phonograph cabinet.

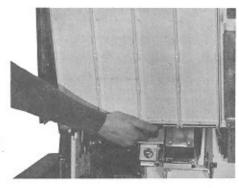
#### OPEN PHONOGRAPH CABINET

- 1. Locate red key bag and open top door.
- 2. Release latches and open front door.
- Release title panel by pressing down on spring catch as shown in fig. 2-1. Swing panel up as shown. Remove tape from title panel.

#### REMOVE RECORD CHANGER MECHANISM TIE-DOWN BOLTS

- Remove shipping bolt from rear of cabinet as shown in fig. 2-2.
- Rotate record changer tie-down brackets away from mechanism support frame as shown. Lift up and remove.
- Remove rubber bands and shipping block from tone arm and toggle shifter plunger.
- 4. Remove turntable hold-down clip. Replace screw.
- Remove turntable by pulling turntable straight up. Remove rubber band and shipping block from idler wheel.





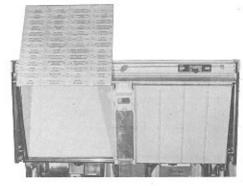
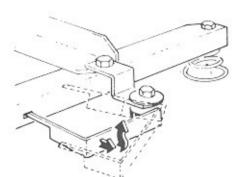


FIGURE 2-1. OPENING PHONOGRAPH CABINET

- Replace turntable, making sure that idler wheel rides on inside of turntable rim. This is accomplished by manually rotating turntable clockwise.
- 7. Remove stylus cover from cartridge and stylus.

- 8. Save shipping hardware for future use.
- Remove adhesive tape from search unit and other parts.
- Check that all plugs are firmly seated in their respective receptacles





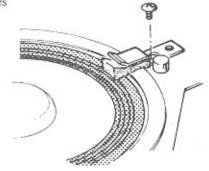


FIGURE 2-2. REMOVING MECHANISM TIE-DOWN BOLTS

#### **INSTALL LICENSE CARD**

For locations where a license must be displayed, a license card area has been provided on the top door between the title racks. To install license card, follow this procedure:

- 1. Looses two screws holding bottom retainer as shown in figure 2-3.
- Loosen screw holding top retainer and turn retainer to free license card backing.
- 3. Remove license card backing and blank license card.
- 4. Insert license card, replace backing and tighten screws in place.

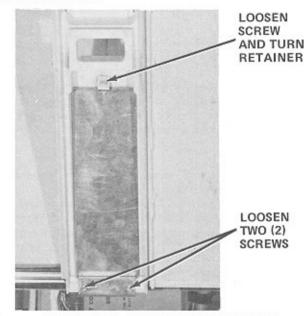


FIGURE 2-3. INSTALLATION LICENCE CARD

TABLE 2-1. USE OF AMPLIFIER CONTROLS FOR ACOUSTICAL COMPENSATION

			ROOM ACO	USTICS		
SOUND LEVEL	DEAD OR SO HIGHLY ABSO			MODERATELY ORBENT	LIVE OR HA NON-ABSOR	100 (100 (100 (100 (100 (100 (100 (100
IN ROOM	SET BASS BOOST CONTROL	SET TREBLE RANGE CONTROL	SET BASS BOOST CONTROL	SET TREBLE RANGE CONTROL	SET BASS BOOST CONTROL	SET TREBLE RANGE CONTROL
LOUD	LOW	MOD/MAX	LOW	MOD/MAX	MOD	LIM
MODERATE	LOW	MAX	MOD	MOD/MAX	MAX	LIM
SOFT	MOD	MAX	MAX	MAX	MAX	MOD

#### AMPLIFIER SET-UP

#### ACOUSTICAL COMPENSATION (BASS AND TREBLE CONTROLS)

The pre-amplifier contains treble range and bass boost controls to compensate for room acoustics in various locations. These controls are on the amplifier chassis. The sound level at which the phonograph will be operated and the room furnishings determine the settings of these controls. A room with carpeting and drapery is a soft or highly-absorbent location. A crowded room is also highly-absorbent. These locations require higher sound levels. A room with paneled walls and a bare or tiled floor is a hard non-absorbent location. Bass boost and treble range control settings are listed in table on page 2-2. Note that more bass boost is required at low volume, levels. The amplifier incorporates circuitry that provides extra bass compensation at low volume levels.

#### STEREO BALANCE

The stereo balance control is provided to equalize left and right channel amplifier output. This control affects only the side speakers; the low-frequency speakers are not affected. This control is factory-adjusted for best performance. If adjustment is required, play a monaural selection and adjust the control for equal sound from each side speaker. When balanced, the sound will seem to come from the center of the phonograph.

#### AMPLIFIER OPERATION WITH HIGH LINE VOLTAGE

In locations where input line voltage to the phonograph exceeds 125 volts, use the black/red primary lead of the amplifier power transformer instead of the black/yellow lead. This results in a 10% reduction in secondary voltage.

# 70-VOLT CONSTANT VOLTAGE EXTENSION SPEAKER OPERATION

Where sound coverage is required in rooms or areas not covered by the phonograph, extension speakers are required. Rowe recommends using the amplifier 70-volt output with 70-volt extension speakers to provide trouble-free operation. Each Rowe/AMI 70-volt speaker has a matching transformer. The matching transformer has power taps so that power consumed by each speaker in the system can be adjusted. To obtain the total power required for the entire system, simply add the wattage settings of each extension speaker to the wattage setting of the phonograph speaker system. The total wattage must not exceed the rated wattage of the amplifier; otherwise the amplifier will be overloaded. Overloading the amplifier will result in distorted sound and reduced loudness. However, it is always advantageous to approximately match the total speaker power to the power rating of the amplifier because in low volume installations, the amplifier can be operated with a reduced volume control setting. This results in greater bass boost and a more pleasing tonal balance.



PHONE JACKS, ADJACENT TO VOLUME CONTROL PLUG, ARE FOR BENCH TEST PURPOSES ONLY.

#### NON-70-VOLT EXTENSION SPEAKER OPERATION

Though less desirable than 70-volt operation, speakers may be connected to impedance taps on the output transformer package. Speaker power ratings and impedance must be considered so that each speaker will get the proper proportion of power. Three requirements must be met:

- The speakers must be wired so that the power consumed by the phonograph and extension speakers does not exceed the amplifier power rating.
- Each speaker must get the right amount of audio power to have equal loudness to the other speakers in the system or have higher or lower loudness as required.
- All speakers must be connected with the proper polarity.

#### REMOTE VOLUME AND CANCEL CONTROL

Connect the 301-06322 remote volume and cancel control to the Phonograph as shown below.

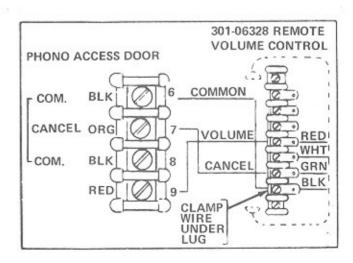


FIGURE 2-4. REMOTE VOLUME AND CANCEL CONTROL CONNECTIONS

#### FULL COVERAGE SOUND SYSTEM CONNECTION CHART

See figure 2-5 on next page for Stereo Sound system connection chart. Observe the following notes when making connections:

- Connections shown for 70-volt extension speakers are for Models EX-201, EX-301, and EX-401.
- Connections shown for 8-ohm extension speakers are for 8-watt level. See the table below for information on other power levels and for use of speakers having other impedances.
- Polarity of connections between amplifier, wallbox speakers, and extension speakers must be observed for correct phasing of extension speakers, wallbox speakers, and Phonograph speakers.
- Amplifier watts per channel for speakers connected across both channels (for monaural extension of sound) is one half watts per speaker power.
- Allow 1.4 watt per channel for each Wallette wallbox connected (normal connection).
- Connect remote volume control to carrier strip on rear access door.

#### **CHART NO.1** CHART NO. 2 SPEAKERS CONNECTED TO EITHER LEFT SPEAKERS CONNECTED ACROSS BOTH CHANNEL OR RIGHT CHANNEL - USED IN **CHANNELS · FOR MONAURAL EXTENSION** PAIRS FOR STEREO EXTENSION OF SOUND OF SOUND **TERMINALS** WATTS PER SPEAKER TERMINALS WATTS PER SPEAKER E1 - E2 E2 - E2 2 0.5 MHO 8 E1 - E3 E3 - E3 8 2 SPEAKERS E2 - E4 E4 - E4 32 8 OHM 4.5 **SPEAKERS** E1 - E4 8 E2 - E2 1 E1 - E5 14 16 OHM E3 - E3 4 E2 - E6 24 E4 - E4 **SPEAKERS** 16 E5 - E5 28 E1 - E3 1 E2 - E4 2.25 CONSTANT A1 - A2 DETERMINED BY **16 OHM** E1 - E4 4 VOLTAGE OR POWER SETTING AT **SPEAKERS** E1 - E5 7 **SPEAKERS** A2 - A1 EXTENSION SPEAKER E2 - E6 12 E1 - E6 16 AMPLIFIER FULL POWER OUTPUT VOLTAGES (PER CHANNEL) **45 OHM** E1 - E3 0.35 YEL WALL BOX E1 - E4 1.4 (NORMAL) 0 SPEAKERS E1 - E5 BRN 5.3V OE6 CONSTANT DETERMINED BY GRN 5.3V VOLTAGE A1 - A2 POWER SETTING AT OE5 SPEAKERS EXTENSION SPEAKER BRN/WHT 2.65V OE4 NOTE: WATTS PER CHANNEL FOR SPEAKERS 4V GRN/WHT OE3 CONNECTED ACROSS BOTH CHANNELS (FOR 2V MONAURAL EXTENSION OF SOUND) IS ONE HALF BLU/WHT OE2 OF "WATTS PER SPEAKER" INDICATED IN CHART 2. 2V BLK OE1 SLT -O A1 35.35V 70.7V BLK/WHT 35.35V -O A2

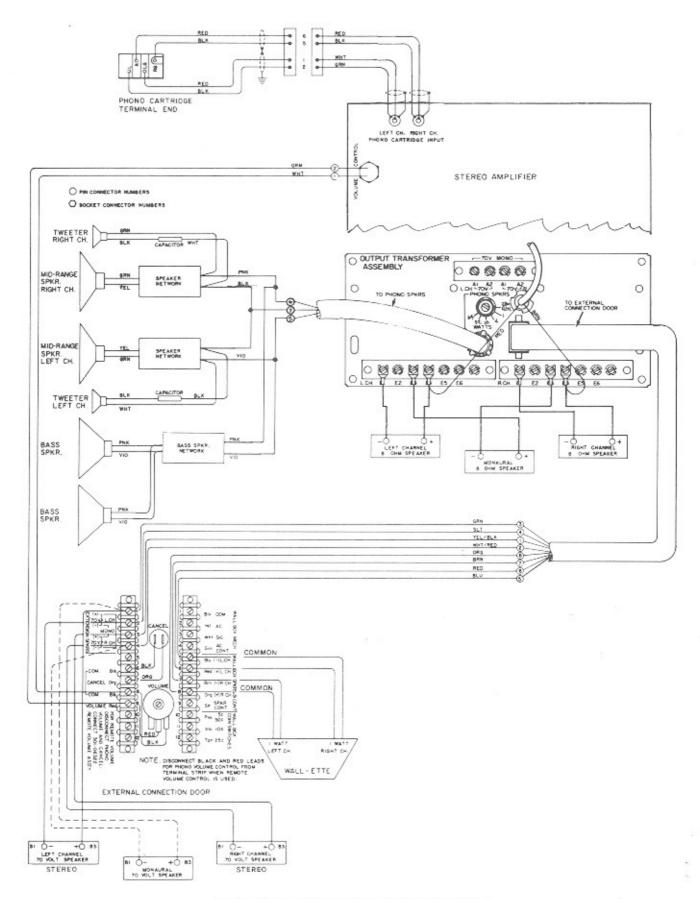
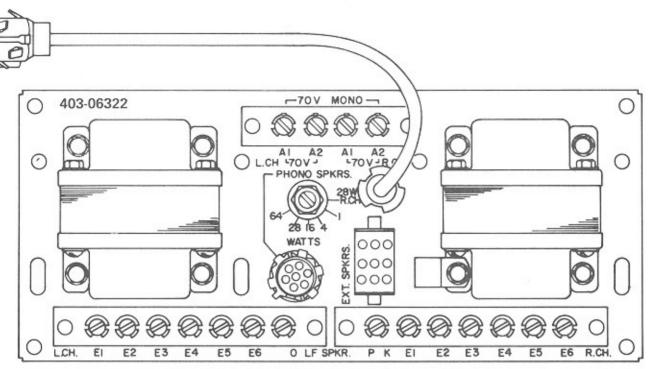


FIGURE 2-5. STEREO SOUND SYSTEM CHART For Stereo Phonograph, Extension Speakers & Wall-Ette Speakers



PHONO SPEAKER POWER SWITCH		ER CHANNEL SPEAKERS
	64 Watt Amplifier	120 Watt Amplifier
64	0	28
28	18	46
16	24	52
4	30	58
1	32	60

CAUTION: Total power rating of load must not exceed 32 watts per channel for the 64 watt amplifier and 60 watts per channel for the 120 watt amplifier.

FIGURE 2-6. POWER LEVEL SETTINGS

#### POWER LEVEL SETTINGS

A power level setting switch is provided on the output transformer package to adjust output power delivered to phonograph and external extension speakers. See figure 2-6 for switch settings and associated power levels.

# SPECIAL CONSIDERATIONS FOR WALLETTE INSTALLATIONS

The phonograph bass speaker can be disconnected from the power level switch and given a selected bass level regardless of switch position. This feature is especially valuable when the phonograph speakers are operated at low level to operate Wallette speakers. However, increased bass from the phonograph is desirable to balance the total sound output of the Wallettes.

To perform this change, disconnect the red and brown wires from the output terminal strips on the output transformer assembly. Reconnect these wires according to table 2-3 below to give a bass speaker wattage approximately equal to the total one-channel wattage of the Wallette speakers.

TABLE 2-3. ALTERNATE POWER LEVELS FOR WALLETTE SPEAKERS

Connections of Red Brown Leads at Terminal Strip	Watts Per Speaker
Terminal E3 Terminal E4(normal)	0.35 1.4
Terminal E5	5

#### LEVEL PHONOGRAPH

Level the phonograph cabinet left-to-right and front-to-back to ensure proper slug rejector operation. This is done by placing spacers under the caster wheels or installing washers on the mounting screws between the casters and the cabinet bottom.

#### PRICING

The credit and pricing system of the phonograph can be adapted to an almost unlimited variety of pricing combinations. Pricing for each phonograph as set at the factory is indicated by the price card installed in the price window. The following information is provided to facilitate price setting.

#### SETTING PRICES

Setting prices is accomplished by simply setting 2 banks of 9 switches each in either "ON" or "OFF" positions. A bonus relay is not required for any pricing. Although not compatible with the Model MAF Money Meter, the Credit Computer can be used with Models MBA & MBB Digital Print-Out Money Meters.

The Credit Computer will register nickels and dimes. The nickel diverter in the coin mechanism should be in blocked position as shown.

#### NICKEL DIVERTER POSITION

#### COIN ACCEPTORS

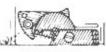




FREE



BLOCKED



FREE

BLOCKED

Using the following charts for reference, set prices in the following manner:

- Select desired pricing program from chart. (If desired pricing is not shown, refer to "Making Your Own Price Combinations" on page 2-11.
- Remove cover plate assembly from front of credit computer by turning winged fastener as shown.
- Set switches S1 and S2 as shown under desired program
- 4. Replace cover plate assembly.
- Install correct price card in phonograph. (See pricing chart for correct part number.)
- Insert coins and make selections to check proper operation.

#### TABLE 2-4. PRICE OF PLAY PROGRAMMING

STANDARD SELECTIONS
10¢1 PLAY 25¢3 PLAYS 50¢7 PLAYS 75¢11 PLAYS \$1.0015 PLAYS
ALBUM SELECTIONS
25¢
RICE CARD PART NUMBER *301-07528
3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

STANDARD SELECTIONS
10é
25¢
PRICE CARD PART NUMBER 201-66773
sı [

	STANDARD SELECTIONS
	10é
	ALBUM SELECTIONS
	25∉ .1 PLAY 50€ .2 PLAYS 75∉ .3 PLAYS \$1.00 .4 PLAYS PLUS! STANDARD PLAY
	PRICE CARD PART NUMBER 201-66774
SI OF	

<sup>\*</sup> NOTE: USE UNIVERSAL PLACE CARD KIT, PART NO. 301-07528

#### STANDARD SELECTIONS

10€								1	P	L	A	Y
										A		
50¢							6	P	L	.A	Y	S
75€												
\$1.00					-	1	4	P	L	Α.	Y	S

#### ALBUM SELECTIONS

25∉													1	P	L	A	Y
50€												2	P	L	Α	Y	S
75¢												3	P	L	A	Y	S
PLUS	;	1	S	1	1	4	N	C	)/	4	R	D	)	P	L	A'	Υ
\$1.00	)											4	P	L	A	Y	S
PLUS	:	2	S	T	A	\I	V	D	£	(I	R	D	P	L	A	Y	S

PRICE CARD PART NUMBER 201-66775



#### STANDARD SELECTIONS

										AΥ
25€					,		.2	PI	LA	YS
50¢							.5	PI	LA	YS
75∉		+	+			+	.8	PI	LA	YS
\$1.00							13	PI	LΑ	YS

#### ALBUM SELECTIONS

25¢1 PLAY
50¢2 PLAYS
PLUS 1 STANDARD PLAY
75¢4 PLAYS
\$1.006 PLAYS
PLUS 1 STANDARD PLAY

PRICE CARD PART NUMBER \*301-07528



#### STANDARD SELECTIONS

15£							1 PLAY
25€						. 2	PLAYS
50¢						. 5	PLAYS
75∉						. 8	PLAYS
\$1.00						14	PLAYS

#### ALBUM SELECTIONS

25€				1	PLAY
50¢				. 2 P	LAYS
PLUS 1	ST	TAN	NDA	RD	PLAY
75€				.4 P	LAYS
\$1.00				.7 P	LAYS

PRICE CARD PART NUMBER \*301-07528



#### STANDARD SELECTIONS

10∉								1	PLAY	,
25¢							3	F	LAYS	;
									LAYS	
75¢						1	1	F	LAYS	ò
\$1.00						1	5	F	LAYS	

PRICE CARD PART NUMBER \*301-07528



#### STANDARD SELECTIONS

15é		٠			٠	٠		1	P	L	A	Y
										A		
50¢												
75€							8	F	L	A	Y	S
\$1.00						1	2	P	L	A	Y	S
				_								

# ALBUM

25€ .						.1 PLAY
50¢ .			,			2 PLAYS
75¢ .						4 PLAYS
\$1.00.						6 PLAYS

PRICE CARD PART NUMBER \*301-07528



#### STANDARD SELECTIONS

15∉							1 PLAY
25¢						. 2	PLAYS
50∉						. 5	PLAYS
							PLAYS
\$1.00						15	PLAYS

#### ALBUM SELECTIONS

25£
50¢2 PLAYS
PLUS 1 STANDARD PLAY
75¢4 PLAYS
PLUS 1 STANDARD PLAY
\$1.007 PLAYS
PLUS 1 STANDARD PLAY

PRICE CARD PART NUMBER 201-66777



#### STANDARD SELECTIONS

15∉												1 PLAY	
25€											.2	PLAYS	
												PLAYS	
75∉											. 9	PLAYS	
\$1.0	0										14	PLAYS	
ALBUM													
						_	_	_		_			

# SELECTIONS

25¢		.1 PLAY
50€		2 PLAYS
	STANDAR	D PLAY
75€		4 PLAYS
PLUS 1	STANDAR	

PRICE CARD PART NUMBER \*301-07528



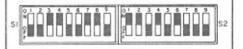
#### STANDARD SELECTIONS

15¢						1 PLAY
25€						.2 PLAYS
						. 6 PLAYS
						10 PLAYS
\$1.00						15 PLAYS

#### ALBUM SELECTIONS

25€		٠										. 1	P	L	AY	,
50∉												3	PL	.A	YS	ì
75€												5	PL	.Α	YS	ò
\$1.00																
PILIS	:	1	S	:1	Γ,	Δ	N	Г	М	Δ	R	D	P	1	ΔΥ	7

PRICE CARD PART NUMBER 201-66776



#### STANDARD SELECTIONS

15∉								1	P	L	A	Y
25∉							2	P	L	A	Y	S
50¢							4	P	L	Α	Y	S
75∉							7	P	L	A	Υ.	S
\$1.00						1	1	P	L	A	Y	S

#### ALBUM SELECTIONS

25€													1	P	L	A١	Υ
50∉												2	P	L	A	Y	S
75∉																	
PLUS	5	1	S	1	1	۹,	N	D	)/	4	R	D		P	L	A١	Υ
\$1.00																	
PLUS	3	1	S	1	П	Δ.	N	Е	)/	4	R	D	)	P	L	A١	Υ

PRICE CARD PART NUMBER 201-66778



#### STANDARD SELECTIONS

15¢							1	P	L	A	Y
25€						. 2	? F	L	A.	Y	S
50¢						. 4	F	L	A.	Y	S
75¢						. 7	F	L	A	Y	S
\$1.00				,		12	? F	L	A	Y	S

#### ALBUM SELECTIONS

25€						1 P	LAY
50¢						2 PL	.AYS
75¢						3 PL	.AYS
\$1.00						6 PL	AYS

#### PRICE CARD PART NUMBER \*301-07528



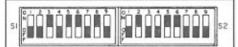
#### STANDARD SELECTIONS

20¢							.1 PLAY
50¢							3 PLAYS
75¢							5 PLAYS
\$1.00				+			9 PLAYS

#### ALBUM SELECTIONS

50∉1 PLAY
PLUS 1 STANDARD PLAY
75∉2 PLAYS
PLUS 1 STANDARD PLAY
\$1.004 PLAYS
PLUS 1 STANDARD PLAY

#### PRICE CARD PART NUMBER \*301-07528



#### STANDARD SELECTIONS

25£						.1 PLAY
50∉						3 PLAYS
75¢						4 PLAYS
\$1.00						7 PLAYS

#### ALBUM SELECTIONS

50€	1 PLAY
PLUS 1	STANDARD PLAY
75€	2 PLAYS
\$1.00	3 PLAYS
PLUS 1	STANDARD PLAY

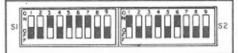
#### PRICE CARD PART NUMBER \*301-07528



#### STANDARD SELECTIONS

15¢							1 PLAY
25∉						.2	PLAYS
50€						.5	PLAYS
							PLAYS
\$1.00			·			12	PLAYS

#### PRICE CARD PART NUMBER \*301-07528



#### STANDARD SELECTIONS

20∉						1 PLAY
50∉						.3 PLAYS
						. 6 PLAYS
\$1.00						10 PLAYS

#### ALBUM SELECTIONS

50∉				1	PLAY
PLUS 1	ST	MA	IDA	RD	PLAY
75€				. 3 F	LAYS
\$1.00				. 5 F	LAYS

#### PRICE CARD PART NUMBER \*301-07528



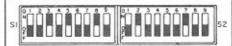
#### STANDARD SELECTIONS

25€								1 PLAY
50€							. 3	BPLAYS
75€							. 5	PLAYS
\$1.00	٥.				+	+	.8	PLAYS

#### ALBUM SELECTIONS

50€		1	PLAY
PLUS 1	STANDA	ARD	PLAY
75€		2 F	LAYS
PLUS 1	STANDA	ARD	PLAY
\$1.00		4 F	LAYS

#### PRICE CARD PART NUMBER 201-66779



#### STANDARD SELECTIONS

20€								1	PLAY
50¢							3	F	LAYS
75¢							5	F	LAYS
\$1.00	).						8	F	LAYS

#### ALBUM SELECTIONS

50∉	1	PLAY
PLUS 1	STANDARD	PLAY
75€	2 P	LAYS
PLUS 1	STANDARD	PLAY
\$1.00	4 P	LAYS

#### PRICE CARD PART NUMBER \*301-07528



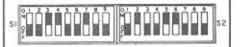
#### STANDARD SELECTIONS

20¢								1 PLAY
50¢								.3 PLAYS
75¢	+	+			+	+		. 6 PLAYS
\$1.00				٠		٠		11 PLAYS

## ALBUM

02220110110
50€1 PLAY
PLUS 1 STANDARD PLAY
75∉3 PLAYS
\$1.005 PLAYS
PLUS 1 STANDARD PLAY

#### PRICE CARD PART NUMBER \*301-07528



#### STANDARD SELECTIONS

25∉			+					1	P	L	4	Υ
50¢							3	P	L	A	Υ	S
75∉				+			6	F	L	A	Y	S
\$1.00						1	n	P	1	Δ	٧	S

#### ALBUM SELECTIONS

50¢ .							1	DΙ	Δ	v
PLUS										
75¢ .										
\$1.00.					-	5	P	LA	٩Y	'S

#### PRICE CARD PART NUMBER 201-66780



#### STANDARD SELECTIONS

25€							2	PLAYS
50¢							5	<b>PLAYS</b>
75€							8	PLAYS
\$1.00				,		1	2	PLAYS

#### ALBUM SELECTIONS

254													1	P	L	A'	Υ
50¢												2	P	L	Α	Y	S
<b>PLUS</b>		1	S	1	1	٩	N	E	)/	4	R	D		P	L.	A'	Y
75€	4											4	P	L	A	Y	S
\$1.00					,							6	P	L	A	Y	S

#### PRICE CARD PART NUMBER 201-17536



#### STANDARD SELECTIONS

25¢								2	<b>PLAYS</b>
50¢					+			5	PLAYS
75¢		,						9	PLAYS
\$1.00							1	4	PLAYS

#### ALBUM SELECTIONS

25€	1 PLAY
50¢	2 PLAYS
PLUS 1	STANDARD PLAY
75€	4 PLAYS
PLUS 1	STANDARD PLAY
\$1.00	7 PLAYS

#### PRICE CARD PART NUMBER \*301-07528



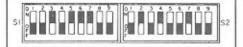
#### STANDARD SELECTIONS

25€							2	PLAYS
								PLAYS
								PLAYS
\$1.00						1	1	<b>PLAYS</b>

#### ALBUM SELECTIONS

25€													1	P	L	A	Y
50¢												2	P	L	A	Y	'S
75¢												3	P	L	Α	Y	'S
PLU																	
\$1.0																	
PLU	S.	1	S	П	7/	ΔI	N	D	) /	Δ	R	П	)	P	1	Δ	٧

#### PRICE CARD PART NUMBER \*301-07528



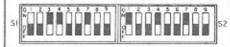
#### STANDARD SELECTIONS

25€						.2	PLAYS
50¢						.5	PLAYS
75∉						.8	PLAYS
\$1.00						13	PLAYS

#### ALBUM SELECTIONS

25€													1	P	L	A	γ
50¢												2	P	L	A	Y	5
PLUS	;	1	S	Т	1	4	N	D	1	٩	R	D		P	L	A	١
75¢																-	
\$1.00																	
PLUS	;	1	S	Т	1	4	N	D	1	٨	R	D		P	L	A	Υ

#### PRICE CARD PART NUMBER 201-66781



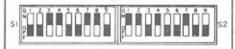
#### STANDARD SELECTIONS

25€						.2	PLAYS
							PLAYS
75∉						10	PLAYS
\$1.00						15	PLAYS

#### ALBUM SELECTIONS

25€										,	1	P	L	41	ľ
										3	P	L	Α	Y:	S
75∉													A		
\$1.0															
PLU:	5	Ð	1	٩	IV	L	"	٩	п	L	,	r	L	4	r

#### PRICE CARD PART NUMBER 201-66782



#### STANDARD SELECTIONS

25¢ .						2	PLAYS
50€ .						4	PLAYS
75¢ .						7	PLAYS
\$1.00,					1	2	PLAYS

# ALBUM

25€													1	P	L	A	Y
50¢.												2	F	L	A	Y	S
75€												3	F	L	Α	Y	S
PLUS	;	1	S	1	1	٩	N	C	)/	٩	R	D	)	P	L	A'	Υ
\$1.00	).	्						ŀ				6	F	L	A	Y	S

#### PRICE CARD PART NUMBER 201-66783



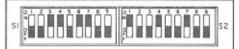
#### STANDARD SELECTIONS

25¢				,			.2	PLAYS
50¢							.5	PLAYS
75¢	,						.8	PLAYS
								PLAYS

#### ALBUM SELECTIONS

25∉ .												1	P	1	Δ١	V
50€	٠	*		•	-			+	٠	•	ò	p	i	Δ	v	ċ
PLUS 1	i	ċ	÷	ij	ů	ù	'n	.,	Ċ	ò	'n		Ď	C	۸,	Š
75¢ .			٠						٠	-	4	r	Ŀ	Ą	Υ.	Š
\$1.00.											/	۲	L	А	Y	S

#### PRICE CARD PART NUMBER \*301-07528



#### STANDARD SELECTIONS

25¢						.2	PLAYS
							PLAYS
75¢						. 9	PLAYS
\$1.00	0.					15	PLAYS

#### ALBUM SELECTIONS

25€		1 PLAY
50¢		2 PLAYS
PLUS 1	STANDA	RD PLAY
75€		4 PLAYS
PLUS 1	STANDA	RD PLAY
\$1.00.		7 PLAYS
PLUS 1	STANDA	ARD PLAY

#### PRICE CARD PART NUMBER \*301-07528



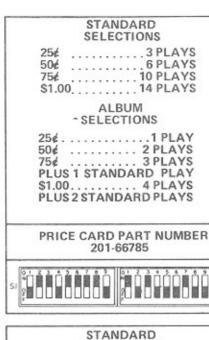
#### STANDARD SELECTIONS

25€							2	PLAYS
50¢							5	<b>PLAYS</b>
75¢	,		¥				8	PLAYS
\$1.00						1	2	PLAYS

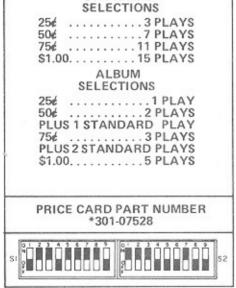
PRICE CARD PART NUMBER \*301-07528

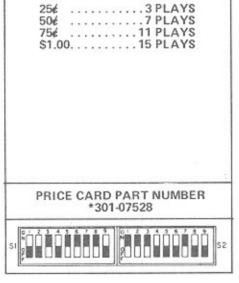


# 









SELECTIONS



#### MAKING YOUR OWN PRICE COMBINATIONS

Pricing combinations other than those shown on the pricing charts are possible with the built-in flexibility of the Rowe Credit Computer. By determining five basic factors, price setting becomes a simple, logical procedure. The five factors are:

- 1. Minimum price of standard play desired.
- 2. Level at which first bonus is to be added.
- 3. Number of plays to be added at each bonus level.
- Price of premium play (albums) in terms of multiples of standard play prices.
- 5. Ratio of acceptable coin values.

Figure 2-7 shows identification by function of each switch, along with proper settings for desired pricing conditions.

Using figure 2-7, set pricing switches as follows:

- Set switches S2-5, S2-6 and S2-7 to desired price of standard play.
- It is only necessary to set the level of the first bonus level. The second, third and fourth bonus levels are equal to two, three and four times the first bonus level, respectively. Set switches S2-8 and S2-9 to desired first bonus level.

#### NOTE

WHENEVER COINS AND BILLS ARE IN AMERICAN RATIO (SEE STEP 5), THE FIRST BONUS LEVEL WILL BE AT 25¢.

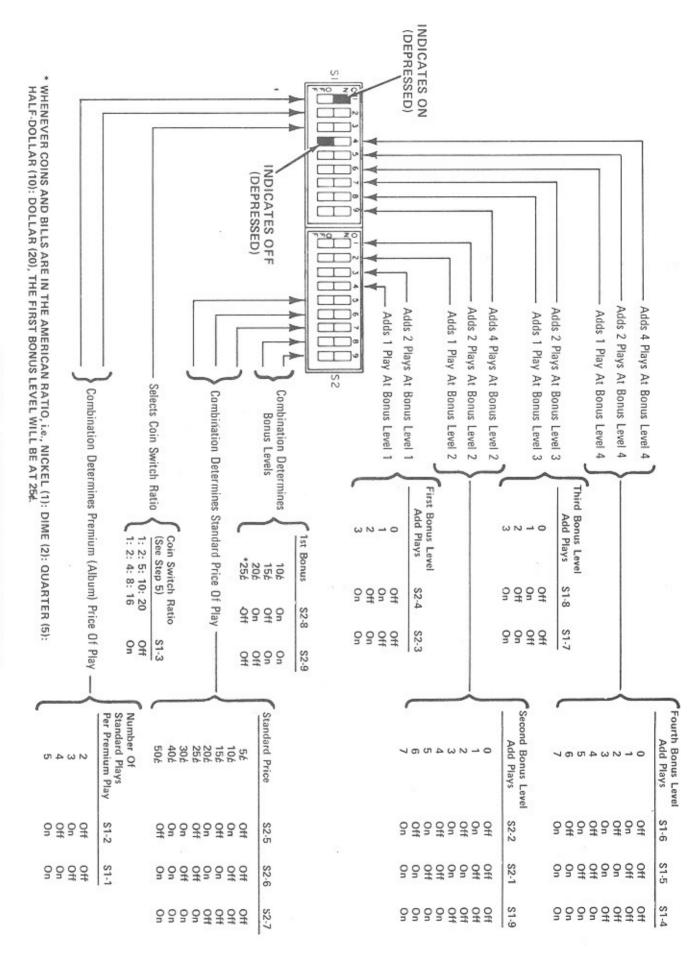


FIGURE 2-7. CREDIT COMPUTER PRICING SWITCHES

- Set switches S1-4 to S2-4 for the number of plays to be added at each bonus level.
- Set switches S1-1 and S1-2 to desired price of premium play. This is set as a multiple of standard play price.
- American currency and most foreign currency occurs in the ratio 1:2:5:10:20 (i.e., nickel, dime, quarter, half-dollar, dollar). When the currency used occurs in this ratio, switch S1-3 should be set to ON position. Often foreign currency occurs in the ratio 1:2:4:8:16. When currency occurs in this ratio, set switch S1-3 to OFF position.

For additional information, see Principles of Operation in Section 4.

### PREMIUM PRICING

To set any group for premium (album) price, open the top access door to gain access to the premium pricing slide switches. Each switch represents one number selection group. Set switches for premium or regular price as desired.

#### INSTALLING RECORDS AND TITLE STRIPS

The phonograph will play both 45 rpm and 33 rpm (Little LP) records. If only 45 rpm records will be played, order and install hub spacer, part no. 725-01214. This spacer is used only when the hub shift switch is bypassed, only 45 rpm records will be used.

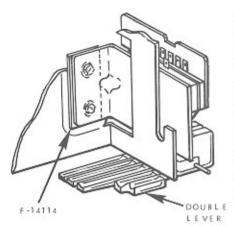
Load records and install title strips as directed in Section 3 -Routine Service.

#### A FINAL CHECK

To see that the installation has been properly performed, deposit coins and make selections. Check that the record changer cycles smoothly and that sound is not distorted.

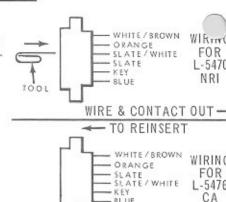
### SUPPLEMENT TO:

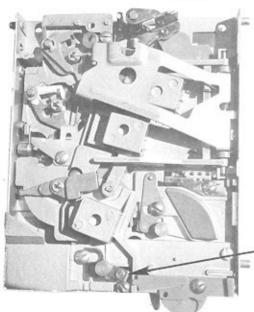
### PRICE OF PLAY PROGRAMMING PROCEDURE



CA SLUG REJECTOR CAN BE INTERCHANGED WITH NRI SLUG REJECTOR WHEN COIN SWITCH HAS DOUBLE WIDTH NICKEL LEVER. F-14114 SPACER MUST BE ADDED FOR ALIGNMENT.

NOTE: COIN SWITCH WIRING IN EDGE CONNECTOR MUST BE CHANGED IF REJECTORS ARE CHANGED. TO INTERCHANGE SLATE & SLATE/WHITE WIRES, USE TIP OF PAPER CLIP AS TOOL. INSERT TOOL ALONG SIDE OF CONTACT TO RELEASE HOLDING TAB. WIRE & CONTACT CAN BE PULLED OUT. TAB MAY NEED REFORMING BEFORE REINSERTION INTO EDGE CONNECTOR.

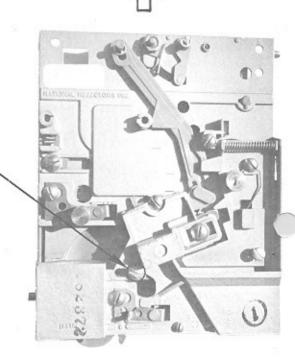




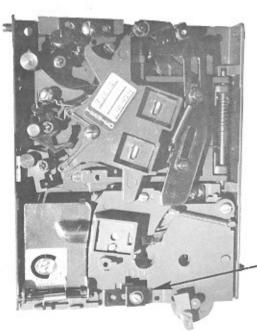
### NATIONAL

Move this screw to right to reject dimes (or just far enough to left to accept dimes).

Move this bracket to right to reject nickels (or just far enough to left to accept nickels).



FRONT VIEW

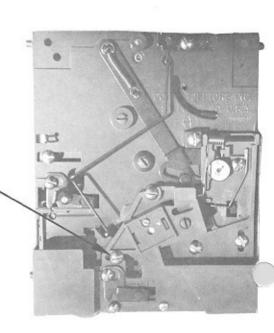


# COIN

### **ACCEPTORS**

Move this screw to right to reject dimes (or just far enough to left to accept dimes).

Move this bracket to right to reject nickels (or just far enough to left to accept nickels).



### **SECTION 5 - MAINTENANCE**

### GENERAL

This section contains cleaning, lubrication, adjustment, and repair and replacement procedures for the phonograph, Cleaning and lubrication procedures should be performed at regular intervals. Adjustment and repair and replacement procedures should be performed only when necessary.

#### PREVENTIVE MAINTENANCE

#### CLEANING

In addition to cleaning the cabinet exterior each time the location is visited, clean the cabinet interior every three to six months, as required. Keeping the cabinet interior clean reduces dust, resulting in increased record and component life. Always clean the phonograph cabinet prior to lubrication.

 Use a vacuum cleaner, if available to remove heavy dust deposits.

WARNING

USE SOLVENTS IN A WELL-VENTILATED AREA ONLY; DO NOT USE SOLVENTS OF ANY TYPE ON PLASTIC PARTS.

Use a clean, lint-free cloth saturated in denatured alcohol to clean mechanical parts.

- Clean electrical parts using a clean, dry cloth or camel's hair brush.
- Clean the slug rejector as specified in the applicable slug rejector manual.
- Clean the search unit commutator board with alcohol. Remove caked-on dirt using a pencil eraser or light abrasive cleaner.

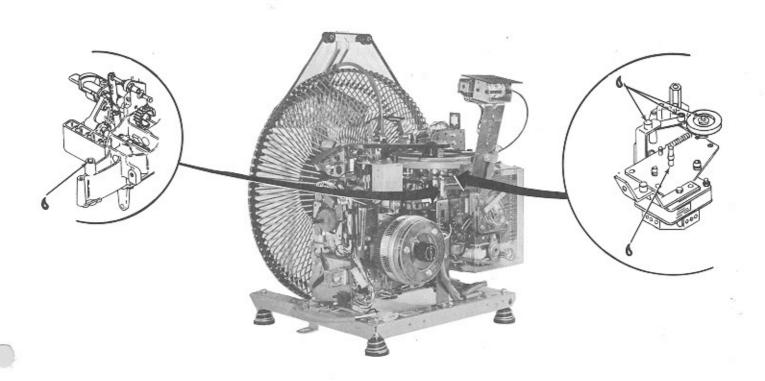
#### FIVE-YEAR LUBRICATION

Your phonograph requires lubrication only after five years. To maintain smooth, trouble-free operation, lubricate the record changer mechanism as shown:

6 One Drop F-1379 Light Machine Oil

Do Not Over - Lubricate

Do Not Use Oil or Grease on Solenoid Plungers.



### **ADJUSTMENTS**

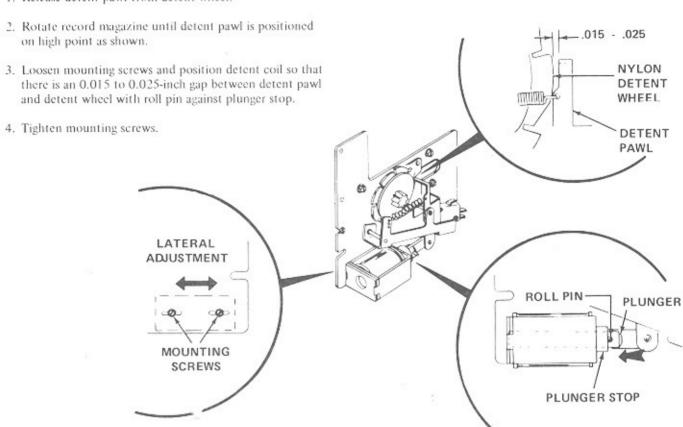
Phonograph adjustments are listed in Table 5-1. Amplifier adjustments are contained in Section 2. Perform adjustments when indicated by troubleshooting procedure, Section 4.

### TABLE 5-1. PHONOGRAPH ADJUSTMENTS

ADJUSTMENT	PAGE
RECORD CHANGER MECHANISM	
Magazine Motor and Detent Assembly	5-3
Cam Switch	5-4
Stop Switch	5-5
Sector Gear	5-8
Tone Arm Cam	5-9
Cam and Trunnion Drive Gear	5-10
Toggle Shifter Link	5-10
Record Magazine Transfer Arm Support	5-11
Magazine Belt	5-12
Aligning Magazine Stopping Position with Transfer Arm	5-13
Popularity Meter Alignment	5-14
Scan Control	5-15
Tone Arm	5-16
Automix	5-19
SEARCH UNIT	
Search Unit Gear	5-20
Sprag Relay	5-22
Search Wiper	5-25
Select Coil	5-27
CREDIT AND PRICING SYSTEM	
Coin Switch	5-28

## MAGAZINE MOTOR AND DETENT ASSEMBLY ADJUSTMENTS Obtain 0.015 To 0.025 — Inch Gap Between Detent Pawl And High Point Of Detent Wheel.

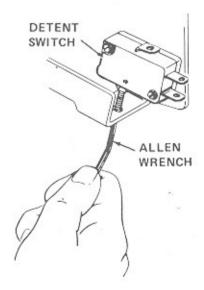
1. Release detent pawl from detent wheel.



### Adjust Magazine Detent Switch.

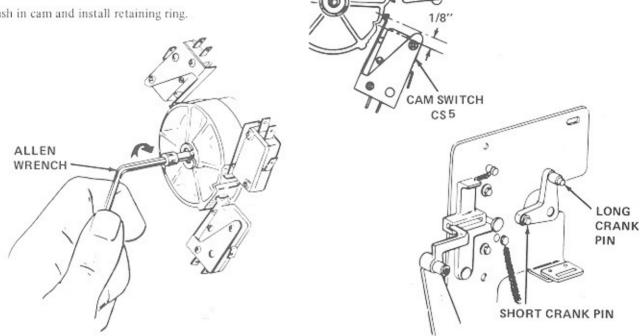
- 1. Rotate detent wheel until pawl is seated in notch, locking wheel in place -
- 2. Turn detent switch actuating screw in until switch just clicks, then turn screw in 1/2 turn more for stable adjustment.





### CAM SWITCH ADJUSTMENTS Locate Cam In Proper Position

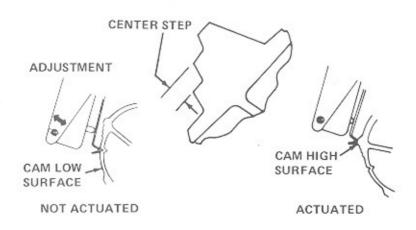
- 1. Using a 5/32" allen wrench, turn transfer motor clockwise until long pin arm on crank is in vertical
- 2. Remove retaining ring from cam shaft and pull cam forward.
- 3. Locate cam so that actuator for cam switch CS5 is 1/8-inch above cam notch as shown.
- 4. Push in cam and install retaining ring.



RETAINING RING

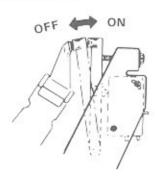
### Check And Adjust Cam Switch Operation

- 1. Check that each cam switch operates (on and off) within each cam step.
- 2. To adjust a switch, loosen mounting screw closest to actuator end and move switch housing accordingly.
- 3. Tighten mounting screw and recheck operation.

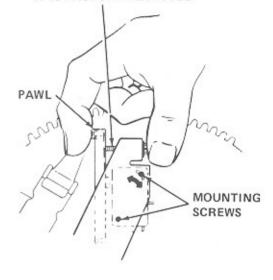


### STOP SWITCH ASSEMBLY ADJUSTMENTS Adjust Left Side Switch

- 1. Hold pawl against stop screw using thumb and forefinger
- Loosen mounting screw nearest stop screw and move switch against pawl as far as it will go.
- 3. Tighten mounting screw.
- 4. Release pawl and stop screw, check that switch releases.
- If switch does not release, loosen mounting screw and adjust switch position so that it actuates and releases as pawl is moved back and forth.

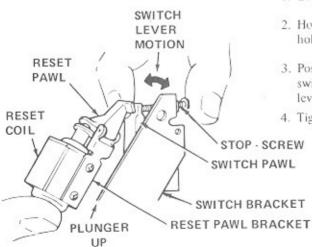


### NOTE: DO NOT TRY TO ADJUST STOP-SCREW IT IS FACTORY ADJUSTED

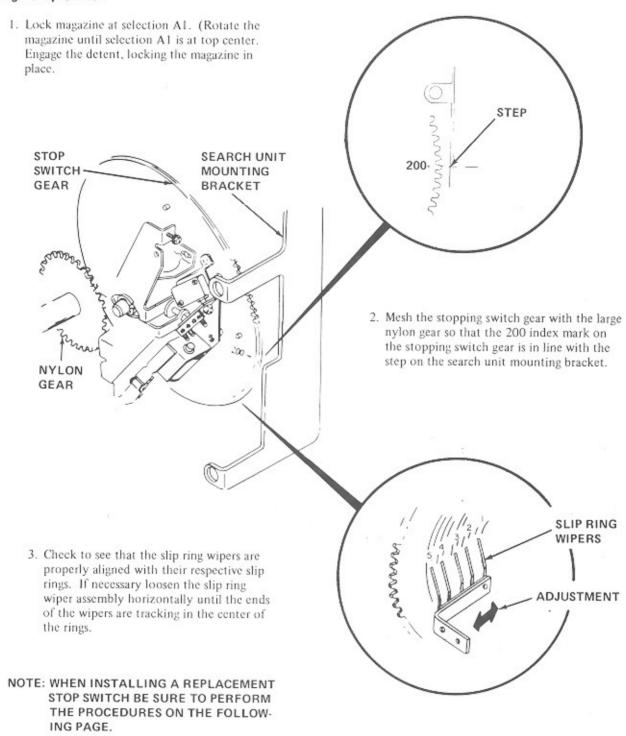


### Adjust Reset Coil.

- 1. Loosen screws holding reset pawl bracket.
- Hold reset coil plunger flush with bottom of coil, and hold left side switch pawl against stop screw.
- Position reset pawl bracket so tips of reset pawl and switch pawl will just miss each other as stopping switch lever is pivoted through its entire range of motion.
- 4. Tighten screws and recheck switch operation.



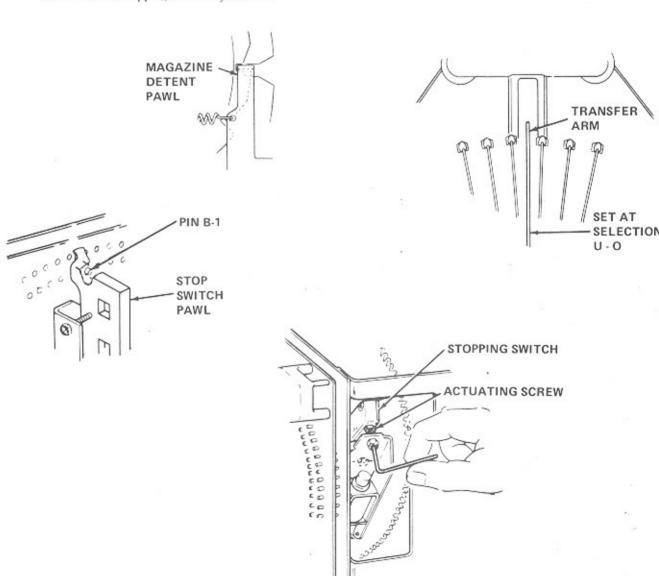
### S TOP SWITCH ASSEMBLY ADJUSTMENTS (CONTINUED) Align Stop Switch



### STOP SWITCH ASSEMBLY ADJUSTMENTS (CONTINUED) Adjust Stop Switch Actuating Screw

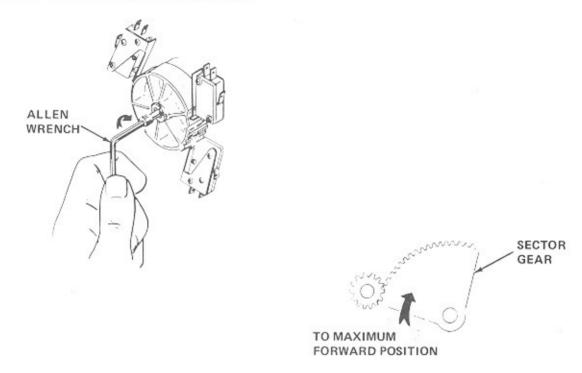
### NOTE: THIS ADJUSTMENT REQUIRES THAT THE SEARCH UNIT IS PROPERLY ADJUSTED

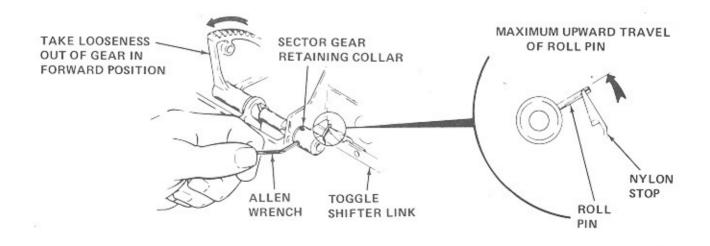
- 1. Manually rotate record magazine and lock in position at selection U-O.
- 2. Manually set search unit at pin B1.
- 3. Locate stop switch pawl on pin B1 as shown.
- Back stopping switch actuating screw out past the point where switch clicks (releases).
- Turn stopping switch actuating screw in until switch just clicks (actuates); then turn screw in 1-2/3 turn further.
- Turn on mechanism service switch and cycle record changer at least twice to check stopping switch adjustment.



### SECTOR GEAR ADJUSTMENTS Adjust The Sector Gear Retaining Collar

- Using a 5/32-inch allen wrench, turn transfer motor shaft clockwise until sector gear is in maximum up, or forward position.
- Set retaining collar so that roll pin is flush with top surface of toggle shifter link nylon stop. Take all looseness out of sector gear in forward direction.
- 3. Check that there is no end play in sector gear shaft.

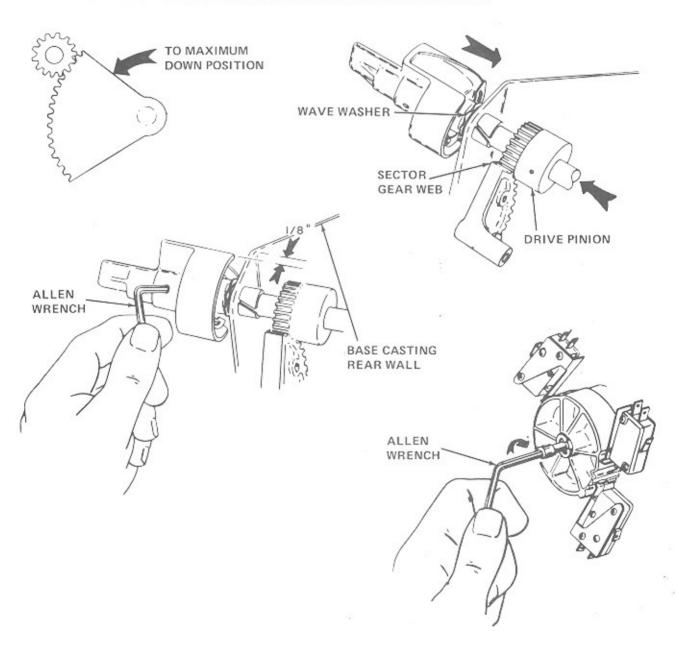




### TONE ARM CAM ADJUSTMENTS Adjust Tone Arm Cam

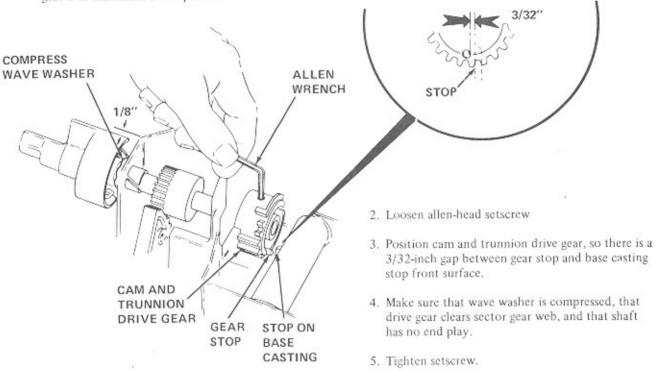
- 1. Using a 5/32-inch allen wrench, turn transfer motor shaft clockwise
- Loosen allen screws and position tone arm cam so straight cutout in cam surface is 1/8-inch from base casting rear wall front surface plane. Use a 1/8-inch allen wrench to gauge this distance.
- 3. Remove end play from shaft and tighten allen screws.

NOTE: PINION GEAR TEETH MUST NOT RIDE ON SECTOR GEAR WEB.



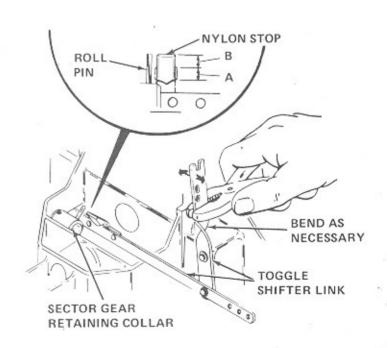
### CAM AND TRUNNION DRIVE GEAR ADJUSTMENT Adjust Cam And Trunnion Drive Gear

 Using a 5/32-inch allen wrench, turn transfer motor shaft clockwise until sector gear is in maximum down position.



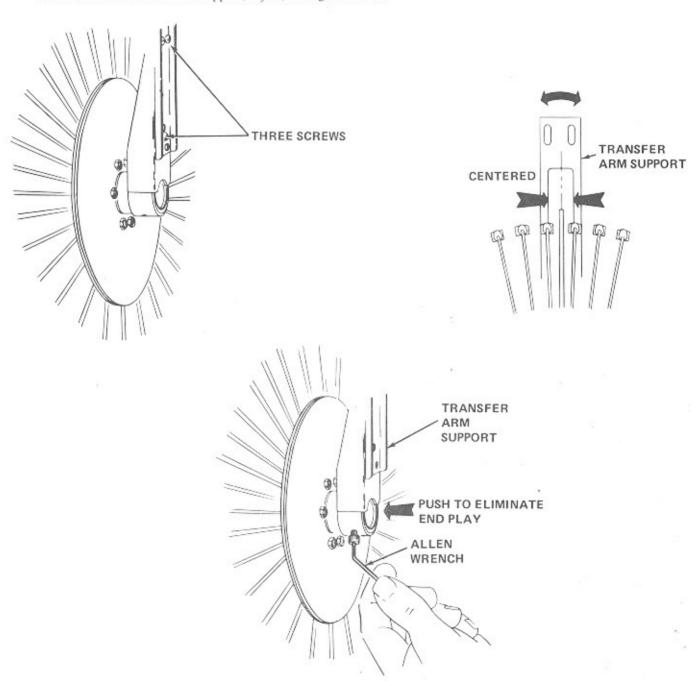
### TOGGLE SHIFTER LINK ADJUSTMENT Adjust Toggle Shifter Link

- Bend toggle shifter link vertical member so sector gear retaining collar roll pin will contact nylon stop in area "A", but not area "B" as transfer motor cycles.
- Check adjustment with toggle shifter pins in both positions.



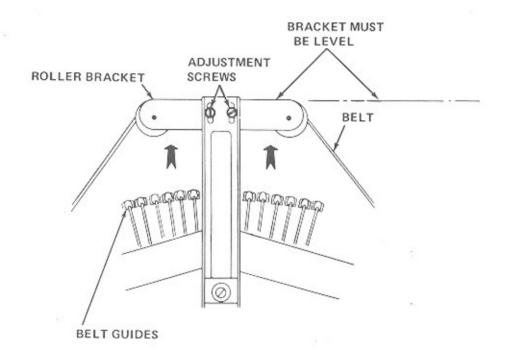
## RECORD MAGAZINE TRANSFER ARM SUPPORT ADJUSTMENT Eliminate Magazine End Play And Center Transfer Arm Support

- 1. Loosen setscrews in transfer arm support.
- Push transfer arm support onto magazine shaft to eliminate end play and adjust it so transfer arm will not rub on either side of opening.
- 3. Tighten screws.
- If slight adjustment is necessary after setscrews are seated, loosen three screws on rear of transfer arm support, adjust, and tighten screws.



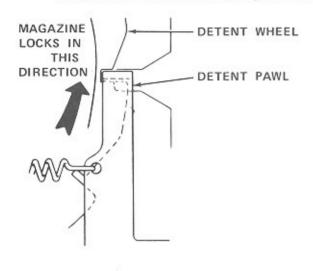
### MAGAZINE BELT ADJUSTMENT Tighten Magazine Belt

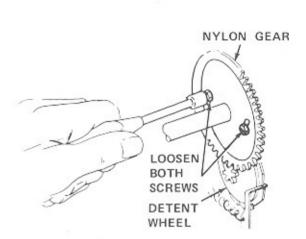
- 1. Loosen two adjustment screws shown.
- 2. Raise bracket to tighten belt around magazine.
- Check that belt rides evenly in center of belt guides, all the way around the magazine.

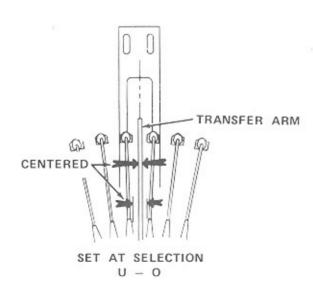


## ALIGNING MAGAZINE STOPPING POSITION WITH TRANSFER ARM Align Stopping Position Of Magazine With Transfer Arm

- Rotate magazine until selection is at top center. Allow magazine detent to engage and lock magazine in place.
- 2. Loosen two screws in large nylon gear.
- With detent wheel locked, move magazine until transfer arm is centered in record slot.
- 4. Tighten two screws in large nylon gear securely.

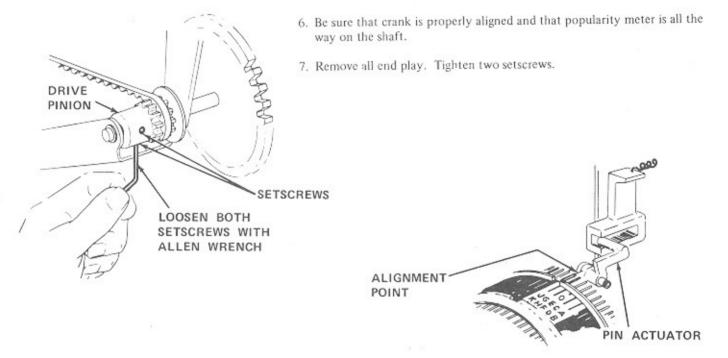


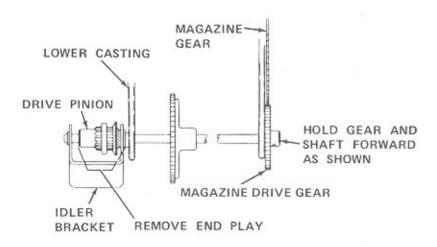




### POPULARITY METER ALIGNMENT Align Popularity Meter

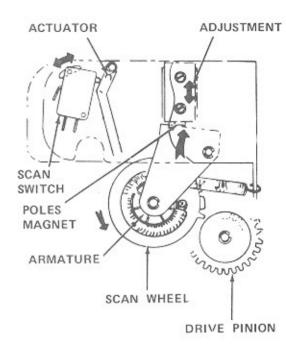
- 1. Remove popularity meter.
- 2. Loosen setscrews in popularity meter drive pinion.
- Release magazine detent. Rotate magazine until selection U-O is at top center.
- 4. Allow detent to engage, locking magazine in place.
- Install popularity meter and rotate until pin marked U-O is centered over pin actuator.





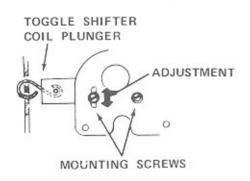
### SCAN CONTROL ADJUSTMENTS Adjust Scan Control

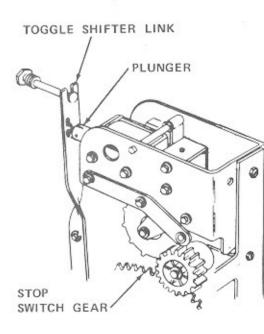
- Rotate magazine until scan wheel is in maximum counterclockwise position as shown.
- 2. Loosen scan switch top mounting screw.
- Move switch against actuator until switch has operated, and switch button is almost bottomed.
- 4. Tighten top mounting screw.
- With armature held against magnet pole pieces, scan wheel should barely clear drive pinion. Rotate scan wheel one full turn to check this adjustment.



### Adjust Toggle Shifter Coil

- 1. Loosen two mounting screws for toggle shifter coil.
- Adjust coil until it is level and plunger mover freely in and out.
- Make sure that drive pinion is meshed properly with stop switch gear.
- 4. Tighten two screws.





### TONE ARM ADJUSTMENTS Adjust Vertical Pivot

1. Adjust tone arm pivot screw so that tone arm pivot is loose enough to move free vertically for a distance of two inches above turntable.

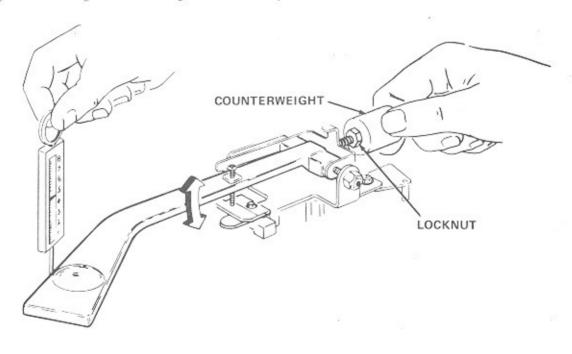
2. Check that tone arm moves less than 1/32 inch from side to side.

FREE UP AND DOWN MOTION

LESS THAN 1/32" MOVEMENT

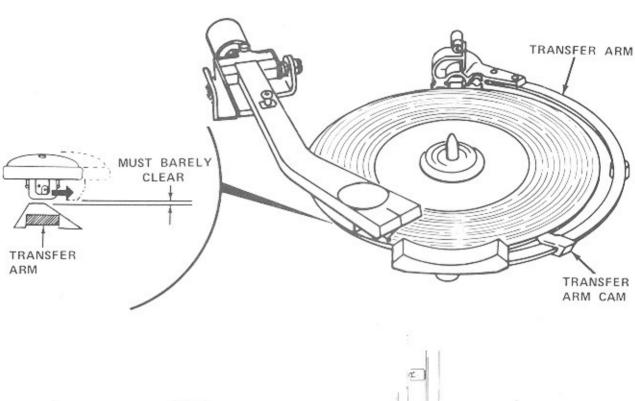
### Set Stylus Force

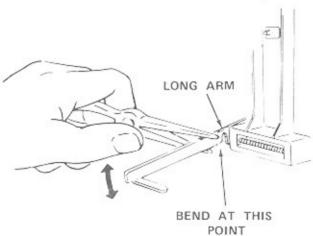
- 1. Loosen lock nut.
- Attach a suitable gram gauge to tone arm as shown. Adjust counterweight for 4 to 5 grams pressure.
- 3. Tighten lock nut against counterweight and recheck adjustment.



### TONE ARM ADJUSTMENTS (CONTINUED) Set Stylus Clearance

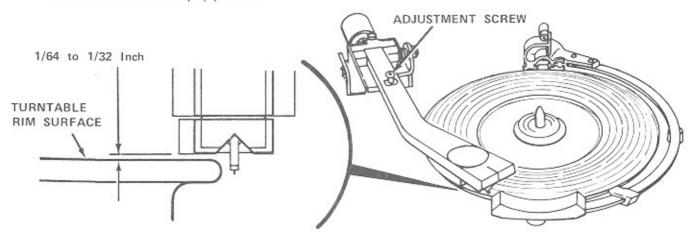
- 1. Operate transfer assembly to place transfer arm next to tone arm.
- Stylus must barely clear transfer arm as tone arm swings over it. Adjust clearance by bending long arm of tone arm rest, as necessary, at point shown.





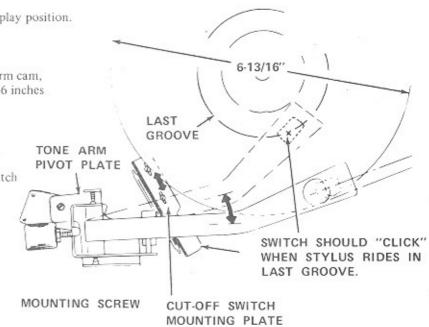
### TONE ARM ADJUSTMENTS (CONTINUED) Set Stylus Height

- Operate transfer assembly to position tone arm over turntable rim.
- Turn adjustment screw until stylus tip is 1/32 inch below rim surface with tone arm in play position.



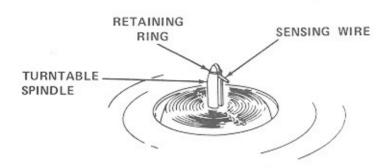
### Set Stylus Setdown Position And Tone Arm Cutoff Switch

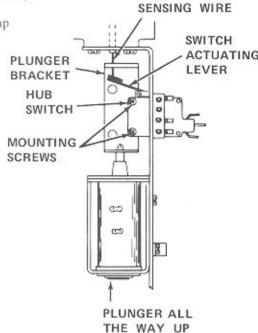
- 1. Place undersize (6-13/16-inch diameter) record on turntable.
- 2. Operate transfer assembly to bring tone arm to play position.
- 3. Loosen mounting screw.
- While holding cam follower plate against tone arm cam, move tone arm, as required, until stylus is 2-9/16 inches from the turntable hub.
- 5. Tighten mounting screw and check adjustment.
- 6. Locate tone arm stylus in record cutout groove.
- Loosen two mounting screws on cutoff reed switch mounting plate.
- Position mounting plate, as necessary until reed switch is closed. The magnet on the under side of the tone arm operates before stylus enter "closed" record groove.



### AUTOMIX ADJUSTMENTS Obtain 1/32-inch Gap Between Sensing Wire And Turntable Spindle Retaining Ring

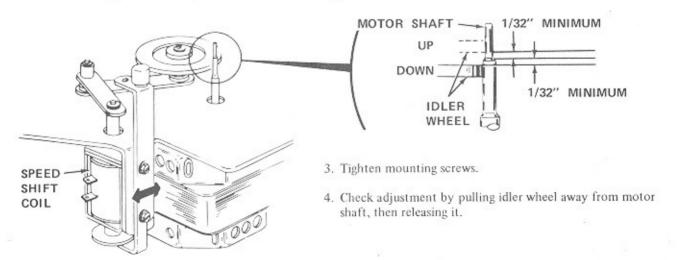
- 1. Loosen mounting screws and move hub switch down as far as slotted mounting.
- While holding plunger all the way up, raise hub switch until a 1/32-inch gap exists between sensing wire and turntable spindle retaining ring.
- 3. Tighten switch mounting screws.





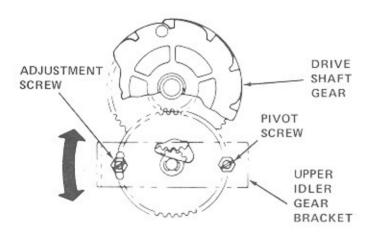
### Adjust Speed Shift Coil So That Idler Wheel Rim Clears Motor Shaft Step By At Least 1/32 Inch

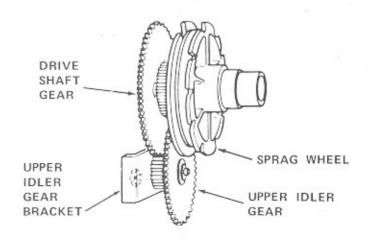
- 1. Loosen speed shift coil mounting screws.
- Adjust speed shift coil so that idler wheel ring clears motor shaft step by at least 1/32 inch in both full up and full down coil plunger position. The coil frame will pivot slightly about the top mounting screw hole, just enough to allow up and down adjustment of the idler linkage.



### SEARCH UNIT GEAR ADJUSTMENT Mesh Drive Shaft Gear, Upper Idler Gear, And Sprag Wheel Pinion

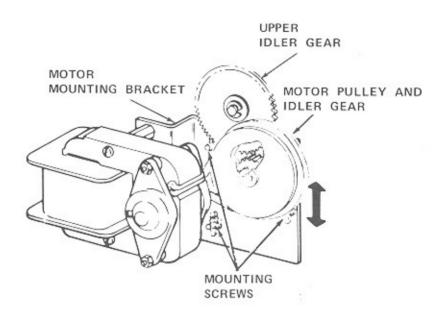
- 1. Loosen upper idler gear bracket pivot screw and adjustment screw.
- 2. Pivot bracket, as shown, until all gears move freely with a minimum of backlash.
- 3. Tighten screws and recheck adjustment.





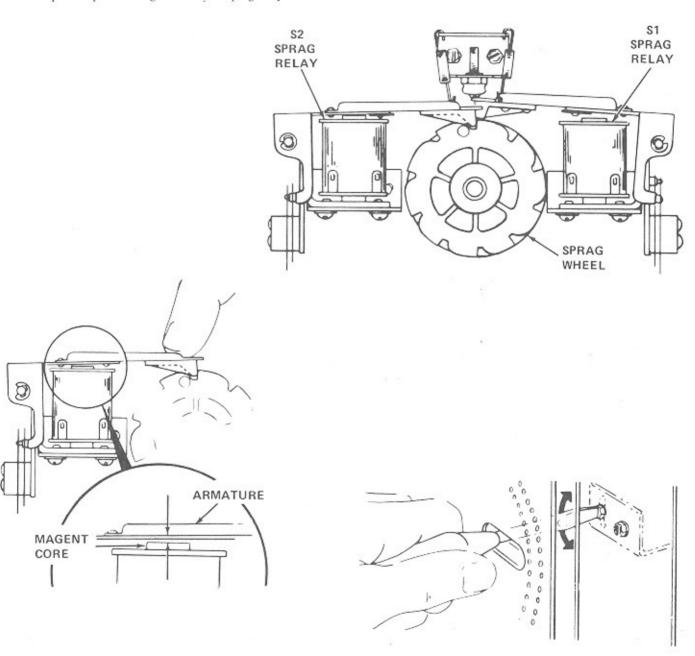
## SEARCH UNIT GEAR ADJUSTMENTS (CONTINUED) Align Motor Idler Gear To Upper Idler Gear

- 1. Loosen three motor mounting screws in motor mounting bracket.
- Move motor assembly as shown until motor meshes with upper idler gear without binding and with minimum backlash.
- 3. Tighten screws and recheck adjustment.



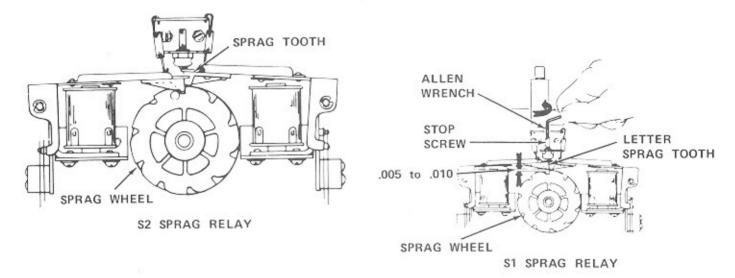
### SPRAG RELAY ADJUSTMENT Adjust Sprag Relay Core Gap

- 1. Bottom sprag relay S2 tooth in any one sprag wheel notch.
- While holding tooth in notch, check clearance between sprag relay armature and magnet core. A piece of ordinary bond paper should just pass through this gap.
- To adjust clearance, loosen sprag relay mounting and pivot screws and move relay as required.
- 4. Tighten screws and recheck adjustment.
- 5. Repeat steps a through d to adjust sprag relay \$1.



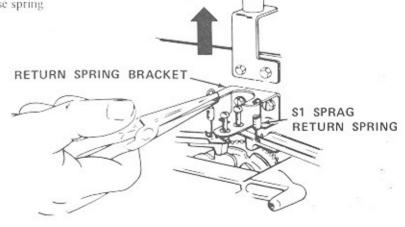
## SPRAG RELAY ADJUSTMENTS (CONTINUED) Adjust Sprag Tooth-To-Wheel Clearance

- 1. Align sprag relay S2 tooth with high point on sprag wheel.
- Turn in stop screw until sprag relay tooth binds against sprag wheel. Do not force sprag wheel around when checking binding.
- 3. Back stop screw off 1/4-turn for 0.005- to 0.010- inch clearance as shown.
- Repeat steps a through c to adjust sprag relay D1 for 0.018- to 0.030-inch clearance.



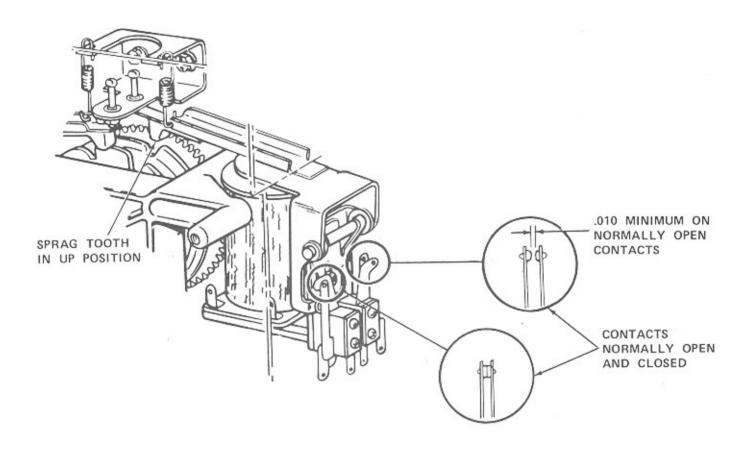
### Adjust Return Spring Force

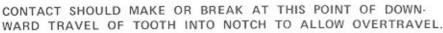
- Check that return springs have enough tension to return sprag relay armatures to rest position when relay magnets are deenergized.
- Bend return spring bracket, as shown, to increase spring tension. Do not ben S1 arm more than 1/16 inch; do not bend S2 arm more than 1/64 inch.
- If proper tension cannot be obtained, replace return spring.

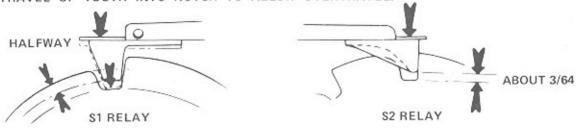


## SPRAG RELAY ADJUSTMENTS (CONTINUED) Adjust Relay Contact Make and Break Position

- Slowly bottom sprag relay S1 tooth in a sprag wheel detent while observing relay contacts.
- Check that contacts make before break halfway down into detent. Bend contact arms as required.
- Repeat steps a and b for sprag relay S2. The contacts should make and break about 3/64 inch from detent bottom.

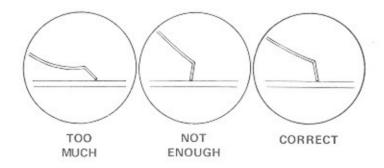






### SEARCH WIPER ADJUSTMENTS Adjust Wiper Blade Contact Force

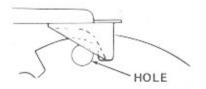
- Loosen wiper arm hub setscrew and back wiper arm assembly away from commutator board.
- Move wiper arm assembly toward board until blades just touch segments, then move wiper arm assembly toward circuit board 1/16- to 1/32-inch. The blades should be formed as shown.
- 3. Check wiper position on segments, then tighten hub setscrew.

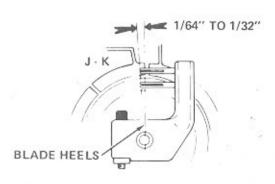


### Position Inside (Letter) Wiper On Commutator Board

- Bottom sprag relay S2 tooth in sprag wheel notch closest to sprag wheel hole.
- Check that outer wiper on inside circuit board is positioned on segment J-K. Segment J-K is located o the left of the board top center (facing the circuit board back side).
- If wiper arm and wipers of inside circuit board are not properly aligned as shown, loosen hub setscrew, and while holding sprag relay S2 tooth in position as in step a, rotate wiper arm assembly to align wipers.
- 4. Tighten setscrew.

NOTE: WHEN CHANGING POSITION OF WIPER ARM ASSEMBLY BE SURE TO MAINTAIN PROPER CONTACT PRESSURE

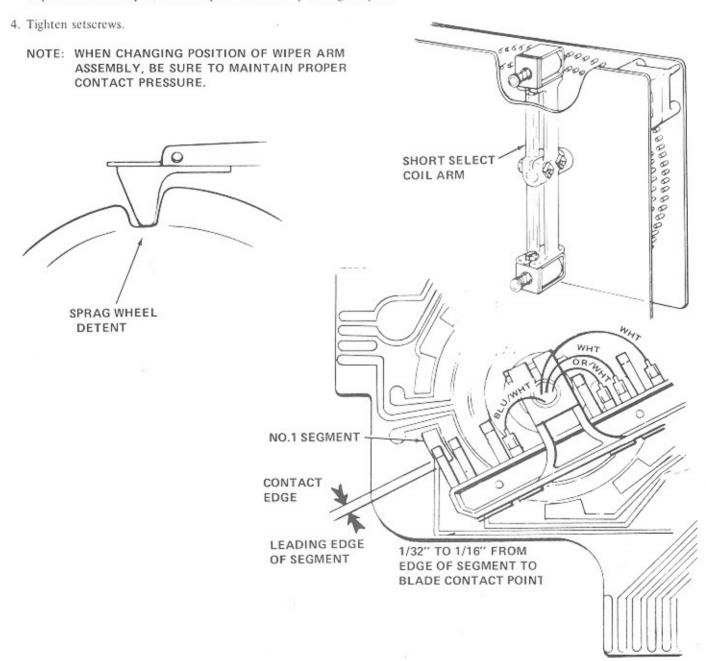




### SEARCH WIPER ADJUSTMENTS (CONTINUED)

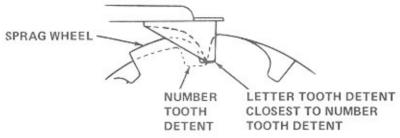
### Position Outside (Number) On Commutator Board.

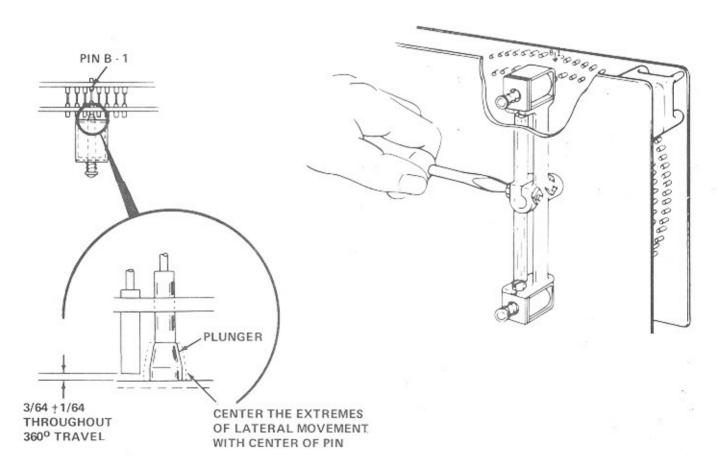
- 1. Bottom sprag relay S1 tooth in sprag wheel notch. Check that short select coil arm is up.
- 2. Check that wiper arm side with three blades on it is positioned on segment 1, as shown.
- 3. If adjustment is necessary, loosen the hub setscrew and, while holding sprag relay S1 tooth in position as in step 1, rotate wiper arm assembly to align wipers.



### SELECT COIL ADJUSTMENTS Plunger-To-Pin Alignment

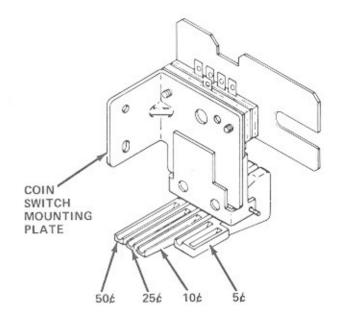
- 1. Bottom sprag relay S1 (numbers) tooth in any number detent.
- Bottom sprag relay S2 (letters) tooth in sprag wheel detent closest to the chosen number detent.
- 3. Push out the pins above B-1 to facilitate viewing.
- Check that select coil plunger on short select coil arm is aligned with pin B-1 on pinwheel assembly.
- If adjustment is required, loosen select coil arm assembly mounting screws just enough to center plunger over pin B-1 without moving forward or back along drive shaft.
- Check for a clearance of 3/64 ± 1/64 inch between the coil frames and pins for 360-degree select coil arm travel.





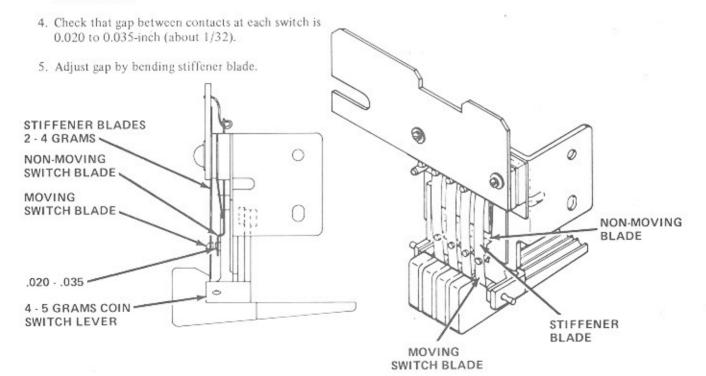
### COIN SWITCH ADJUSTMENTS Operational Check

- Hold plastic coin switch lever in normal position and drop a coin through slug rejector.
- When the coin comes to rest on the lever, release the lever slowly.
- Check that the weight of the coin operates the lever enough to close the coin switch and allow the coin to fall free.
- 4. Repeat steps a, b, and c for other three levers.



### Contact Pressure And Gap

- Check that each moving switch blade pushes against its lever with 4- to 5-grams force to hold lever against cushion.
- Check that each non-moving blade pushes against its stiffener blade with 2- to 4-grams force.
- Adjust contact pressure by bending contact blade near fibre insulator.



### REPAIR AND REPLACEMENT

Most of the repair and replacement procedures for the phonograph are of an obvious nature and may be performed without the use of special tools and techniques. Before attempting to perform any repair or replacement of parts, check for obvious faults as described on page 4-1.

When replacing a part, use only the correct ROWE part. Refer to the Parts Catalog section manual for correct ROWE part number and description. Order all parts from your authorized ROWE Distributor.

#### **TESTING TRANSISTORS**

Test transistors using a volt-ohm-milliameter as follows:

- Set the meter function switch to OHMS and the range switch to a medium scale (such as X10 on Simpson 260).
- Connect ohmmeter to transistor leads to check NPN silicon transistors as follows:

#### NOTE

SOME METERS USE THE BLACK OR NEGATIVE LEAD AS THE POSITIVE LEAD FOR OHMS SCALE, TRIPLET BEING ONE OF THESE.

- + to emitter
- to collector

- no reading

- + to collector
- to emitter
- no reading
- + to base
- to collector

- low reading (about 500 ohms)

- + to collector
- to base

- no reading

- + to emitter
- to base

- no reading

- + to base
- to emitter

- low reading (about 500 ohms)







TO5 DRIVER TRANSISTOR

TRANSISTOR LEAD LOCATION

- With positive meter lead on collector and negative lead on emitter, touch base to collector. Check that the meter shows a low reading to indicate that the transistor is conducting.
- All previous tests indicate a good transistor. Any deviation from these conditions indicates a defective transistor.
- For PNP transistors, reverse the polarities and proceed as in the previous steps.

#### TESTING DARLINGTON POWER TRANSISTORS

Test Darlington transistors using a volt-ohm-milliameter as follows:

- Set the meter function switch to ohms, and the range switch to X1 (on Simpson 260) for scale.
- Connect ohmmeter to transistor leads to check NPN silicon Darlington power transistors as follows:

#### NOTE

SOME METERS USE THE BLACK OR NEGATIVE LEAD AS THE POSITIVE LEAD FOR OHMS SCALE, TRIPLET BEING ONE OF THESE.

+ to emitter

+ to base
- to emitter

<ul> <li>to collector</li> </ul>	- Low reading
	20
+ to collector	
<ul> <li>to emitter</li> </ul>	<ul> <li>No reading</li> </ul>
+ to base	
- to collector	- Low reading
	-
+ to collector	
- to base	<ul> <li>No reading</li> </ul>
+ to emitter	
- to base	- No reading
10 0436	

 With positive meter lead on the collector and negative lead on emitter, touch the base to the collector. Check that the meter shows a low reading to indicate that the transistor is conducting.

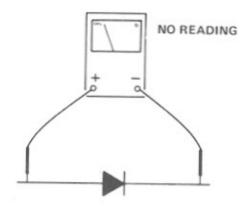
Low reading

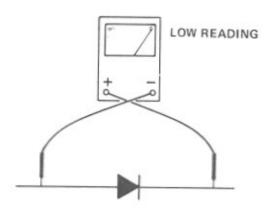
 For PNP transistors, reverse the polarities and proceed as in the previous steps. Test silicon diodes as follows:

- Set the meter function switch to OHMS and the range switch to a medium scale.
- Connect the diode as shown.

#### NOTE

CONNECTIONS MAY VARY WITH VARIOUS TYPES OF METERS. THE IMPORTANT THING TO REMEMBER IS THAT THE DIODE SHOULD INDICATE NO READING WITH THE LEADS CONNECTED ONE WAY AND A LOW READING WHEN CONNECTED IN THE OPPOSITE POLARITY.





DIODE TEST HOOKUP

#### REPLACING DARLINGTON POWER TRANSISTORS

Fuses mounted on driver boards on underside of amplifier serve a diagnostic function; an open fuse indicates a foiled darlington power transistor, Q1 or Q2. Replace only the transistor adjacent to the open fuse. Using the following procedure:

### 64 Watt Amplifier

- 1. Remove open fuse.
- Remove phillips head screw and nut holding transistor to heat sink.
- Pull transistor from socket, being sure to retain mica insulator under transistor.
- Apply Thermal Joint Compound (Rowe Spec 53) to BOTH sides of mica insulator and place insulator against heat sink.
- Plug new transistor into socket and replace screw and nut. Do not overtighten.



DIRECT CONTACT BETWEEN OUTPUT TRANSISTOR AND HEAT SINK WILL DESTROY TRANSISTOR. INSULATE AS DIRECTED.

6. Install new 2 amp fuse.

### 120 Watt Amplifier

- 1. Remove open fuse.
- Locate correct transistor to be replaced. This will be transistor on top of heat sink assembly directly above the open fuse.
- Remove two phillips head screws holding transistor. Be sure to retain mica insulator under transistor.
- Apply Thermal Joint Compound to BOTH sides of mica insulator and place insulator in position on heat sink.
- Install new transistor with 2 screws. Tighten firmly but do not overtighten. Note Caution above.
- 6. Install new 5 amp fuse.

### **SECTION 3 - ROUTINE SERVICE**

### **GENERAL**

This section contains instructions to enable to route man to perform routine service tasks such as changing records, making collections, and cabinet cleaning.

### CHANGING RECORDS

The phonograph will play both 45 rpm and 33 rpm (Little LP) records. If only 45 rpm records will be played, order and install hub spacer, part no. 725-01214. Load records as follows:

- 1. Unlock and open top door.
- Use scan switch to position magazine slot to the left or right of the transfer arm.
- 3. Install record in magazine as shown.

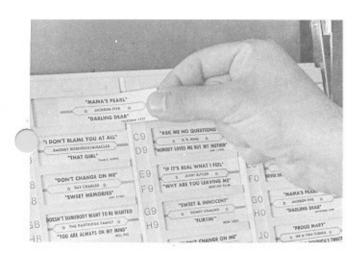


FIGURE 3-2 CHANGING TITLE STRIPS

### REMOVING CASH BAG

Remove the cash bag from the bottom right hand side of the cabinet in the following manner:

- Unlock cash bag door and pull door away from cabinet.
- 2. Slide cash bag straight out on its runners.

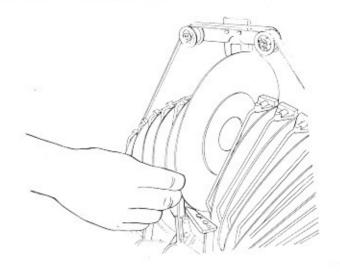


FIGURE 3-1 CHANGING RECORDS

### CHANGING TITLE STRIPS

Each time new records are installed, corresponding title strips must also be installed. Install the title strips as follows:

- Open top door and swing up title panel as shown on page 2-1, figure 2-1.
- Install new title strips by sliding the strips into the open right ends of the racks as shown.
- Check to make sure that each title strip corresponds to the correct record.

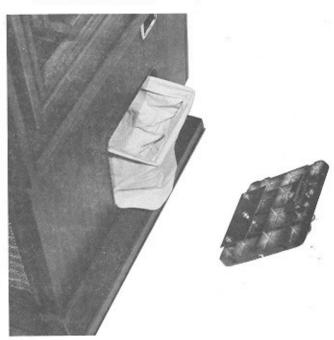


FIGURE 3-3 REMOVING CASH BAG

## READING AND RESETTING POPULARITY METER

The popularity meter keeps a tally on the number of times each record is played. Reading the popularity meter is the best way to tell which records are played most often or which records should be changed.

Read and reset the popularity meter as follows:

- Determine which records have been played most by observing the popularity meter pins. The pins nearest the reset plate have been played most often. Each pin registers a maximum of thirty plays. Each play moves the pin 1/32-inch toward the reset plate.
- Reset the popularity meter by pushing the reset plate against the play meter.

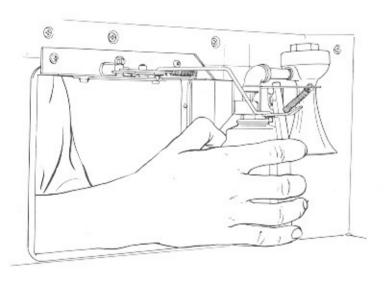


FIGURE 3-5 INSTALLING NEW FREON CAN

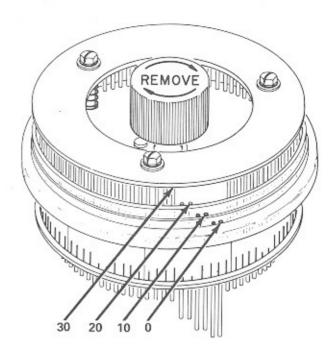


FIGURE 3-4 READING POPULARITY METER

### REARMING BURGLAR ALARM

- 1. Open cash box door and remove cash bag.
- Unscrew used Freon can. Avoid Freon contact with skin and eyes.

WARNING

### KEEP CAN POINTED AWAY FROM YOU DO NOT SHAKE FROZEN CANS

- Reset valve lever down until it clicks into place as shown.
- 4. Install new Freon can and screw firmly into place.

#### REPLACING LAMPS

Replacing cabinet lamps immediately if they burn out helps to maintain the attractive appearance of the phonograph. Fluorescent tubes, starters and incandescent lamps are all easily accessible within the cabinet, with two 25 watt fluorescent tubes on the front door, two 8 watt fluorescents tubes, one on each side of the cabinet, and the incandescent lamps inside the top access door.

Remove fluorescent lamps as follows:

- 1. Press tab on one lamp socket.
- 2. Push lamp against opposite socket and swing lamp out.

LAMP SOCKETS ARE QUICK RELEASE TYPE - DO NOT ROTATE LAMP IN SOCKET.

To gain access to credit lamps (incandescents), open top access door. (This lock uses same key as top door lock so only one key is required.) Credit lamps are located immediately behind the credit window.

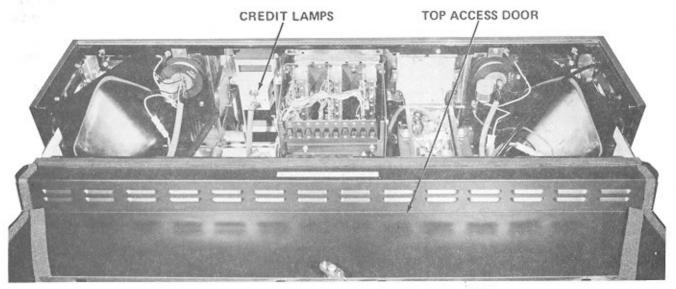


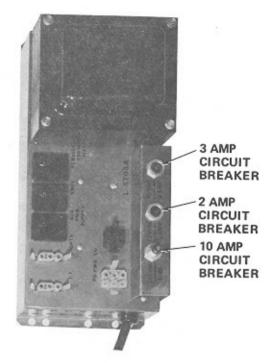
FIGURE 3-6 LOCATION OF CREDIT LAMPS

### CABINET CLEANING

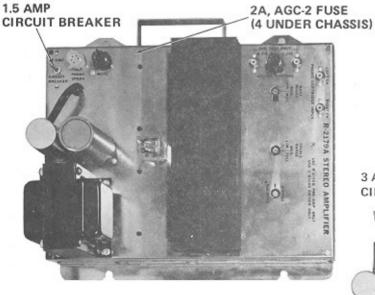
ACTION REQUIRED	PROCEDURE
1. Clean Glass	Clean all glass with a paper towel and a glass cleaner such as Windex.
	b. Dry with a clean, lint-free cloth.
Clean painted wood and metal surfaces	a. Clean all painted wood and metal surfaces with mild soap and water.  DO NOT USE SOLVENTS.
	b. Apply a good quality auto or furniture wax to protect the finish.
3. Clean chrome trim	3. a. Use a damp or dry cloth to remove any dust or dirt.
	<ul> <li>Use mild soap and water to remove stubborn deposits. Do not use strong detergents or abrasives of any kind.</li> </ul>
4. Clean plastic trim	a. Wipe all plastic surfaces with a damp or dry cloth only. DO NOT USE SOLVENTS.
Clean electrical components	Clean all electrical components with a clean, dry, lint-free cloth or a soft bristled brush only.



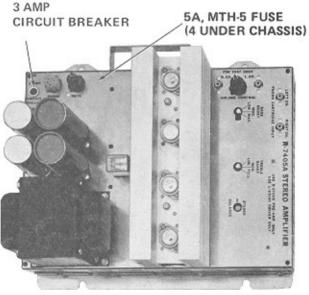
CREDIT COMPUTER



JUNCTION BOX



64 WATT AMPLIFIER



120 WATT AMPLIFIER

# FOR THIS SECTION, SELECT VIEW(TOP TOOL BAR), THEN CLICK ON PAGE LAYOUT, THEN FACING

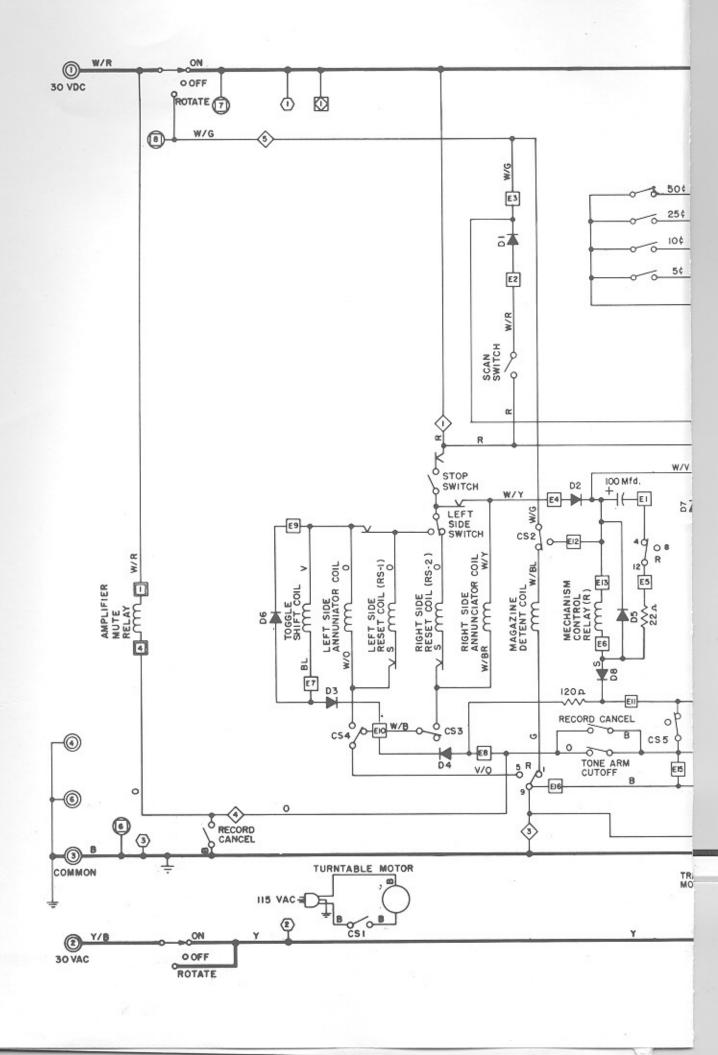
# SECTION 6-SCHEMATIC & WIRING DIAGRAMS

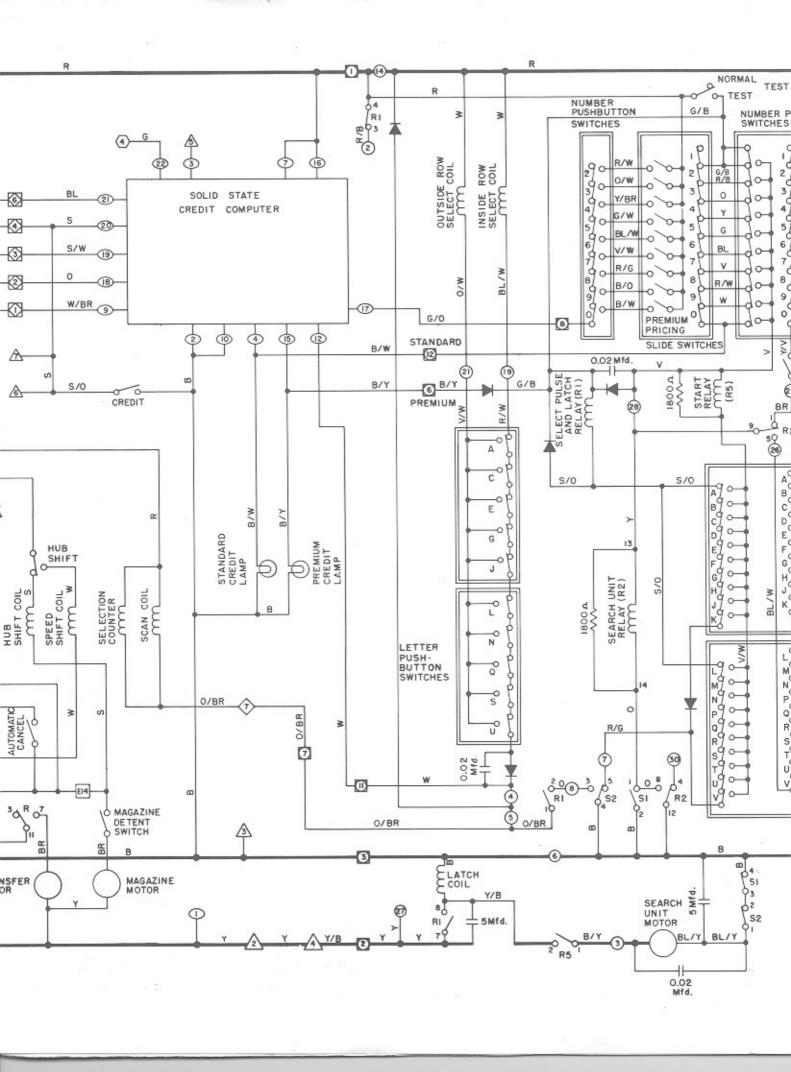
## GENERAL

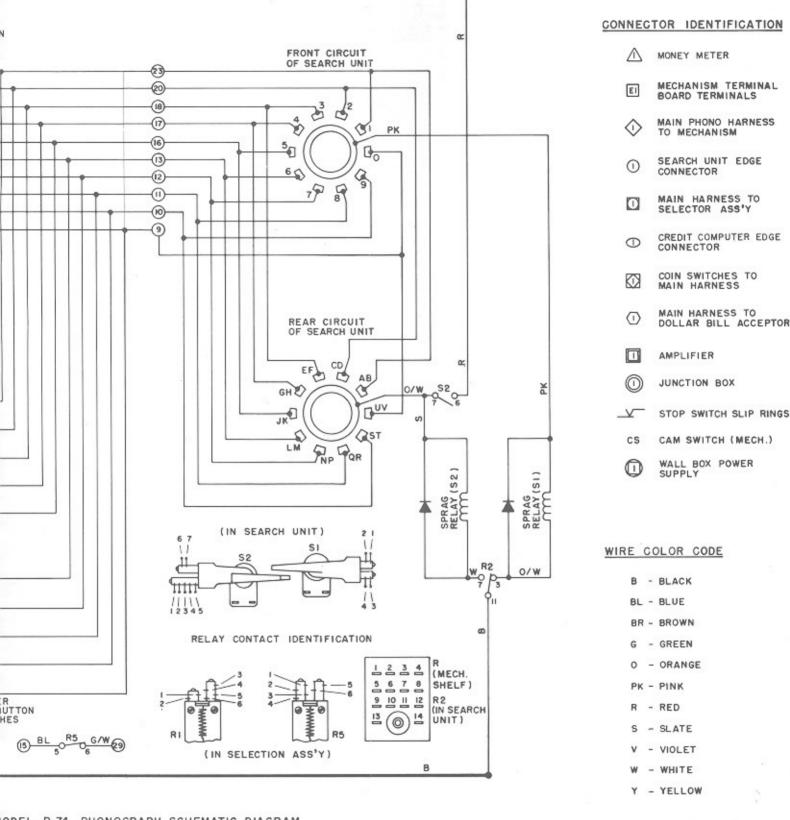
This section contains complete schematic and wiring diagrams for the phonograph and its major components and systems. Use this section in conjunction with Section 4 - Troubleshooting to isolate and correct phonograph malfunctions.

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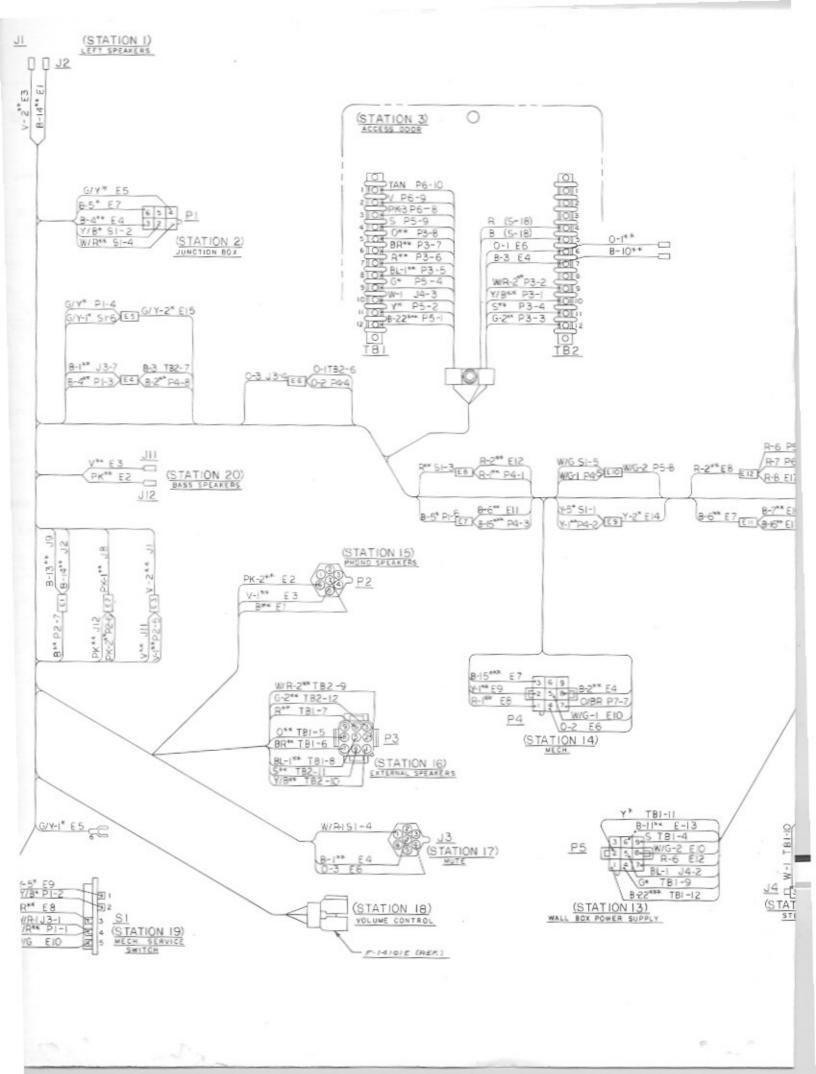


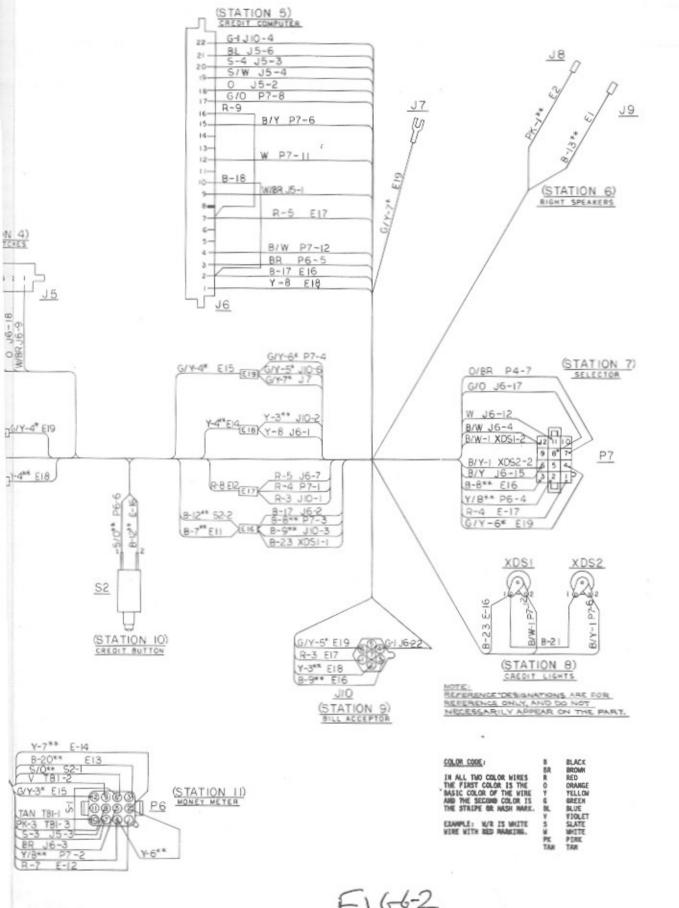


R

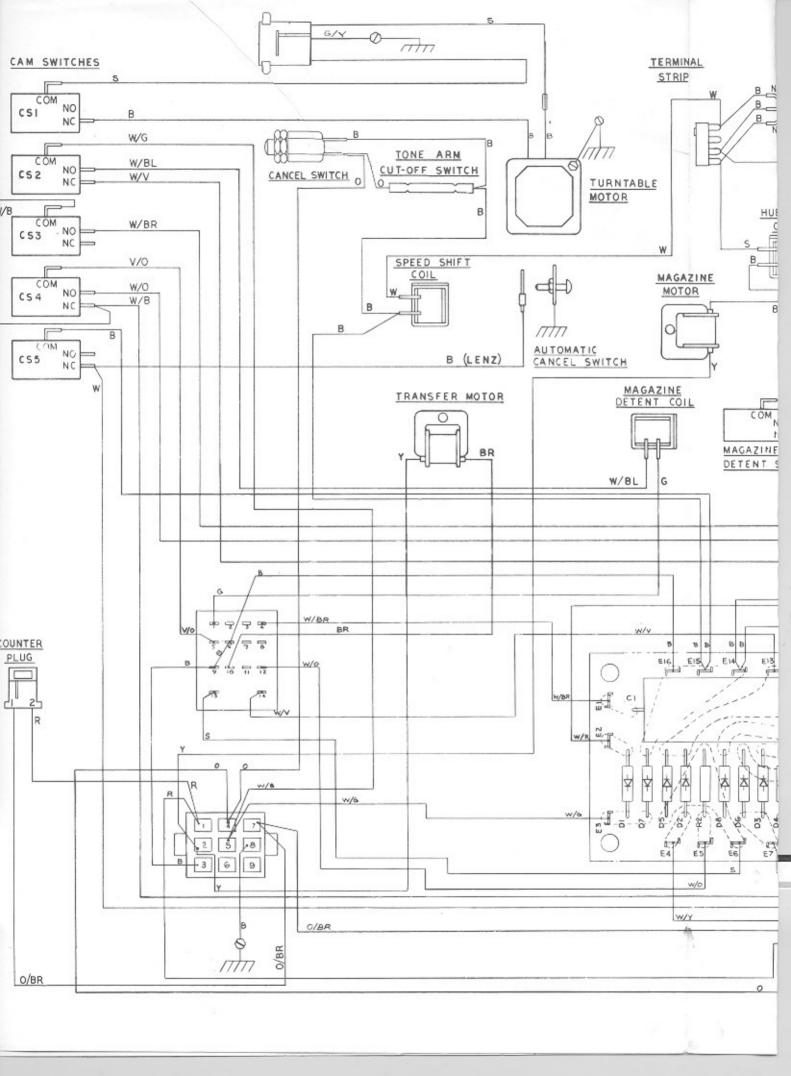
ODEL R-74 PHONOGRAPH SCHEMATIC DIAGRAM

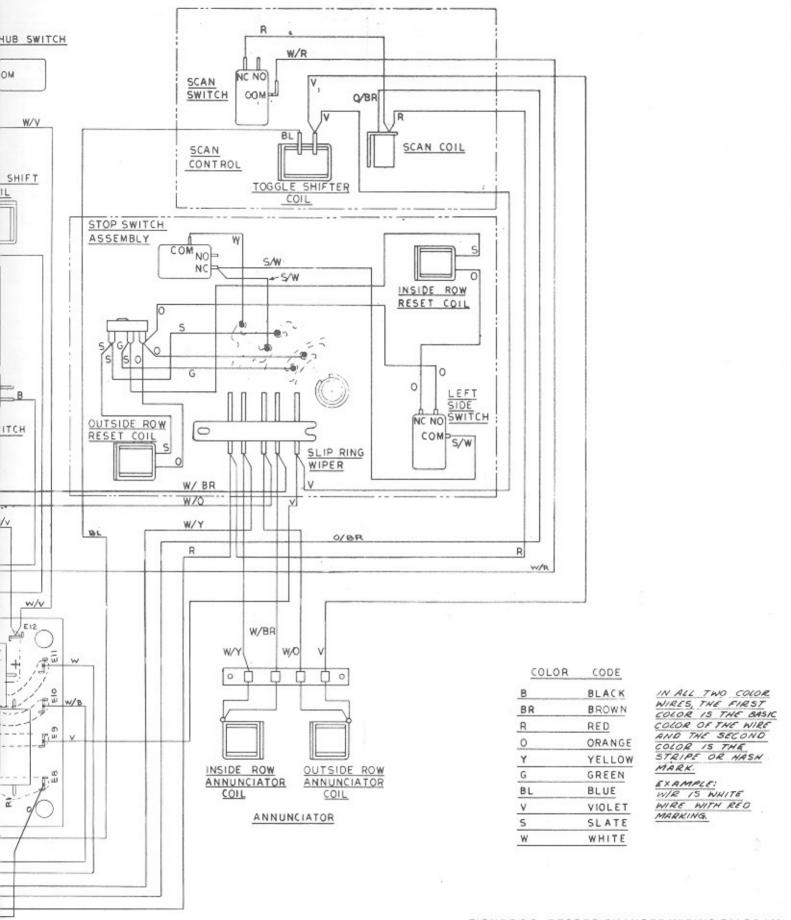
FIGURE 6-1. PHONOGRAPH SCHEMATIC DIAGRAM, MODEL R-74

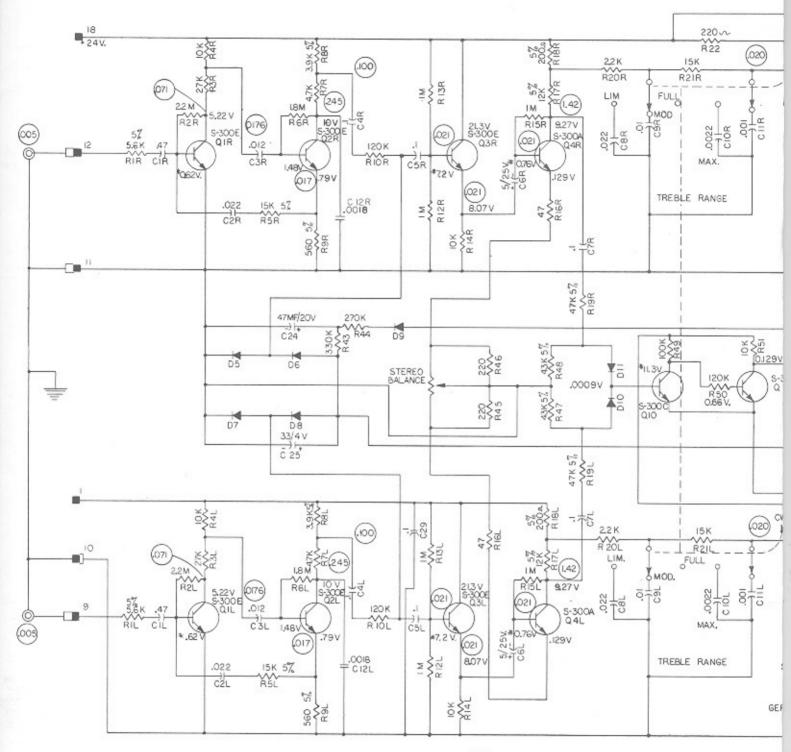




FIGG-2 PHUND HARNESS DIAGRAM

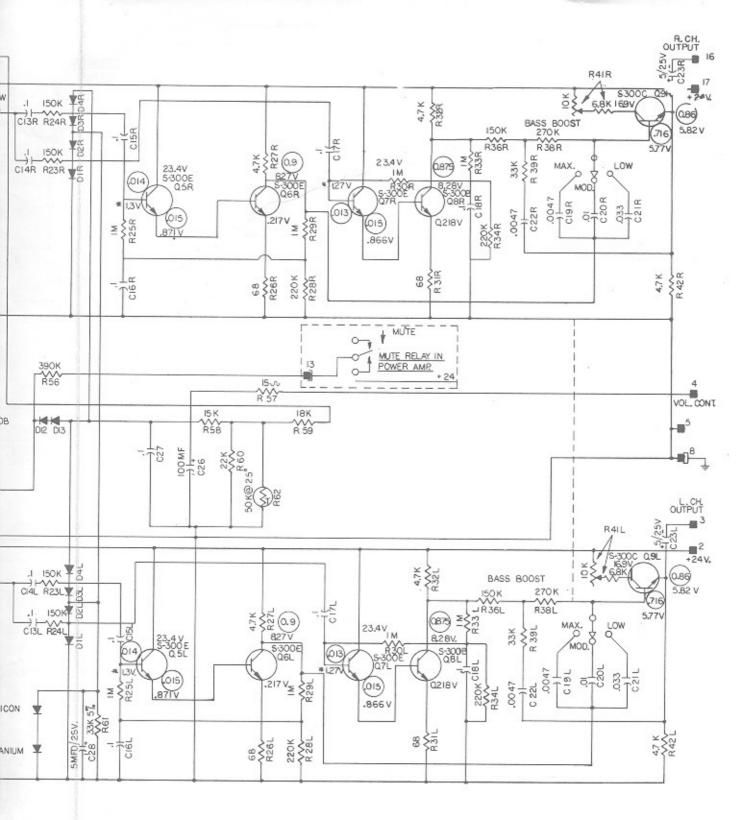


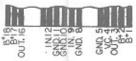




### HOTE:

CAPACITOR RATINGS AND 100 V. MIR. UNLESS OTHERWISE SPECIFIED.
CAPACITOR VALUES AND 11 MFG. UNLESS OTHERWISE SPECIFIED.
A.C. SIGMAL VOLTAGE READINGS AND ENCIRCLED 6 MEASURED TO
CHASIS WITH AN AC. VITW.
THE SIGMAL PREGNEROY IE 1 MC. VOLUME CONTROL AT MAX.
TYRING RANGE CONTROL AT PULL 6 BASE SOOST AT MOD.
ALL RESISTENCE AND 1/2 MATT 6 10% TOL. UNLESS STHERMOREE
SPECIFIES.
B.C. WOLTAGES AND AS INDICATED BY A 11 MEG OND VITWA 5 ARE
APPRIXINATE POR A 20,000 BORNE PER VOLT METER.
B INDICATES VOLTAGE SEVERELY AFFECTED BY LOADING OF
20,000 OND FER VOLT METER.
FOR ASS'Y, SEE DUG. R-3758 B





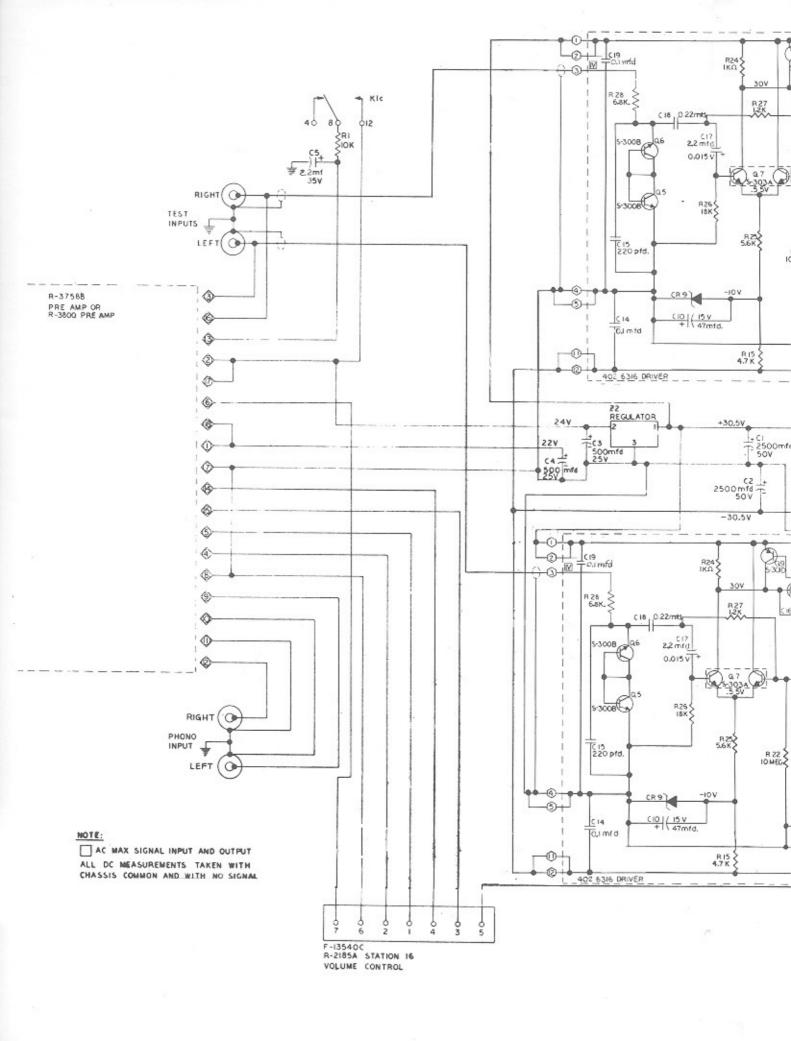
TERMINAL BOARD

er Andre					
ONENT RE GNATION	F DESC	RIPTION			ROWE PART NO.
	FIER A\$\$EMBLY (2 WIRE VOLUME CO	ONTROL)	602-03758		
EL C1L  R. C2L  R. C3L  R. C4L  R. C4L  R. C5L  R. C6L  R. C9L  R. C11L  R. C12L  R. C15L  R. C15L	Capacitor, Mylar, 0.47 MFD, 100V Capacitor, Mylar, 0.022 MFD, 100V Capacitor, Mylar, 0.012 MFD, 100V Capacitor, Mylar, 0.1 MFD, 100V Capacitor, Mylar, 0.1 MFD, 100V Capacitor, Electrolytic, 5MFD, 25V Capacitor, Electrolytic, 5MFD, 25V Capacitor, Mylar, 0.1 MFD, 100V Capacitor, Mylar, 0.01 MFD, 100V Capacitor, Mylar, 0.01 MFD, 100V Capacitor, Ceramic Disc, 0.001 MFD, 100V Capacitor, Ceramic Disc, 0.001 MFD, 100V Capacitor, Ceramic Disc, 0.0018 MFD, 100V Capacitor, Ceramic Disc, 0.0018 MFD, 100V Capacitor, Mylar, 0.1 MFD, 100V Capacitor, Mylar, 0.01 MFD, 100V Capacitor, Mylar, 0.01 MFD, 100V Capacitor, Mylar, 0.033 MFD, 100V Capacitor, Mylar, 0.033 MFD, 100V Capacitor, Electrolytic, 5 MFD, 25V Capacitor, Tantalum, 33 MFD, 4V Capacitor, Electrolytic, 100 MFD, 25V Capacitor, Electrolytic, 100 MFD, 25V Capacitor, Electrolytic, 5 MFD, 25V			Alternate Alternate	701-00240 702-00241 703-00241 702-00240 702-00240 702-00240 702-00240 704-00240 703-00224 702-00224 712-00224 702-00240 702-00240 702-00240 702-00240 702-00240 702-00240 701-00240 716-00240 716-00240 716-00240 716-00240 716-00240 716-00240 716-00250 706-00233 702-00251 701-00250 706-00233 702-00233 702-00233 702-00240 702-00233
9 R, D1L R, D2L R, D3L R, D4L 0 1 2 2 3 4	Capacitor, Mylar, 6.1 MFD, 100V  Diode, Silicon, (G.E. & ITT No. CD-8502) Diode, Germanium, (1N191, ITT, Sylvania, Gen	'l Instr.)		* 4	702-00240 707-00350
2R, R12L	Resistor, Carbon, 5.6K ±5%, 1/2 W Resistor, Carbon, 2.2 Meg, 1/2 W Resistor, Carbon, 27 K, 1/2 W Resistor, Carbon, 10 K, 1/2 W Resistor, Carbon, 15 K ±5%, 1/2 W Resistor, Carbon, 1.8 Meg, 1/2 W Resistor, Carbon, 4.7K, 1/2 W Resistor, Carbon, 3.9K ±5%, 1/2 W Resistor, Carbon, 560 Ohm ±5%, 1/2 W Resistor, Carbon, 120 K, 1/2 W Resistor, Carbon, 1 Meg, 1/2 W Resistor, Carbon, 1 Meg, 1/2 W Resistor, Carbon, 1 Meg, 1/2 W	8			718-00106 704-00102 724-00104 713-00102 716-00106 708-00121 708-00104 725-00104 703-00104 703-00106 706-00102 706-00102

OMPONENT RE DESIGNATION	F DESCRIPTION	ROWE PART NO.
R15R, R15L R16R, R16L R17R, R17L R18R, R18L R19R, R19L R20R, R20L R21R, R21L R22 R23R, R23L R24R, R24L R25R, R25L R26R, R26L R27R, R27L R28R, R28L R29R, R29L R30R, R30L R31R, R31L R32R, R32L R33R, R33L R34R, R34L R34R, R34L R36R, R36L R38R, R38L R39R, R39L	Resistor, Carbon, 10 K, 1/2 W Resistor, Carbon, 1 Meg, 1/2 W Resistor, Carbon, 7 Ohm, 1/2 W Resistor, Carbon, 70 Ohm, 1/2 W Resistor, Carbon, 12 K 5%, 1/2 W Resistor, Carbon, 74 K + 5%, 1/2 W Resistor, Carbon, 200 Ohm ± 5%, 1/2 W Resistor, Carbon, 2.2 K, 1/2 W Resistor, Carbon, 15 K, 1/2 W Resistor, Carbon, 150 K, 1/2 W Resistor, Carbon, 150 K, 1/2 W Resistor, Carbon, 150 K, 1/2 W Resistor, Carbon, 1 Meg, 1/2 W Resistor, Carbon, 1 Meg, 1/2 W Resistor, Carbon, 4.7 K 1/2 W Resistor, Carbon, 1 Meg, 1/2 W Resistor, Carbon, 220 K, 1/2 W Resistor, Carbon, 150K, 1/2 W Resistor, Carbon, 33 K, 1/2 W Resistor, Carbon, 33 K, 1/2 W Resistor, Carbon, 37 K, 1/2 W Resistor, Carbon, 37 K, 1/2 W Resistor, Carbon, 4.7 K, 1/2 W Resistor, Carbon, 4.7 K, 1/2 W Resistor, Carbon, 30 K, 1/2 W Resistor, Carbon, 30 K, 1/2 W Resistor, Carbon, 4.7 K, 1/2 W Resistor, Carbon, 20 Ohm, 1/2 W Resistor, Carbon, 10 K, 1/2 W Resistor, Carbon, 15 K, 1/2 W Resistor, Carbon, 17 S Ohm, 1/2 W Resistor, Carbon, 18 K, 1/2 W Resistor, Carbon, 18 K, 1/2 W Resistor, Carbon, 18 K, 1/2 W Resistor, Carbon, 17 S Ohm, 1/2 W Resistor, Carbon, 18 K, 1/2 W Resistor, Carbon, 19 K, 1/2 W Resistor, Carbon, 19 C, 1/2 W	713-00102 706-00102 708-00120 714-00107 701-00102 710-00102 708-00106 711-00102 702-00102 706-00102 708-00104 707-00102 706-00102 706-00102 706-00102 706-00102 706-00102 706-00102 707-00102 708-00104 706-00102 707-00102 708-00104 706-00102 707-00106 705-00400 718-00104 711-00106 722-00120 718-00102 704-00107 711-00106 722-00120 718-00102 703-00106 713-00102 703-00106 713-00102 708-00106 708-00102 708-00106 708-00102 711-00104
R61 R62 Q1R, Q1L Q2R, Q2L Q3R, Q3L Q4R, Q4L Q5R, Q5L Q6R, Q6L Q7R, Q7L Q8R, Q8L Q9R, Q9L Q10 Q11	Resistor, Carbon, 33 K ±5%, 1/2 W Thermistor, 51 K @ 25°C (Keystone Carbon Co. No.RL2006-26900-150-S2)  Transistor, Silicon, NPN(Sprague Elec. TZ-1205; Motorola SPS 1481; G.E. X32B4683) Transistor, Silicon, NPN(Sprague Elec. TZ-1205; Motorola SPS 1481; G.E. X32B4683) Transistor, Silicon, NPN(Sprague Elec. TZ-1205; Motorola SPS 1481; G.E. X32B4683) Transistor, Silicon, NPN (G.E. X32B4680; Motorola SPS6978) Transistor, Silicon, NPN (G.E. X32B4680; Motorola SPS6978) Transistor, Silicon, NPN (See Q1R) Transistor, Silicon, NPN (G.E. X32B4682; Motorola SPS6979) Transistor, Silicon, NPN (G.E. X32B4686; Motorola SPS6980) Transistor, Silicon, NPN (G.E. X32B4686; Motorola SPS6980) Transistor, Silicon, NPN (G.E. X32B4686; Motorola SPS6980) Transistor, Silicon, NPN (See Q8R)	714-00106 701-00370 705-00300 705-00300 705-00300 705-00300 705-00300 705-00300 702-00300 703-00300 703-00300 702-00300
	MISCELLANEOUS PARTS Switch, Rotary, 4 Pole, 3 Position, Non-Shorting(Treble Range Control) Switch, Rotary, 2 Pole, 3 Position, Non-Shorting, (Stereo Balance) Circuit Board, Pre-Amplifier	200-13024 200-13025 602-03788

MPONENT RE		ROWE PART NO.
64W POWE	R AMPLIFIER 601-02193	
C1, C2 C3, C4 C5 C6	Capacitor, Electrolytic, 2500 MFD, 50V Capacitor, Electrolytic, 500 MFD, 25V(Sprague No.43D; Mallory No.TT;G.E. No.76F) Capacitor, Tantalum, 2.2 MFD, 35V(Sprague No.196D, 198D;Mallory No.TDC; Kemet No.T362) Capacitor, Mylar, 0.1 MFD; 400V(Paktron Type MB; Sprague Type 225P, 418P; Electromotive No.P92242-1	201-15181 711-00233 712-00251 ) 701-00213
CB-1	Circuit Breaker, 2 Amp(ETA Products Co. Series 41-06-P30-1125)	715-00733
CR1 to CR4	Diode, Silicon(Motorola No. MR 752)	710-00350
K1 Q1, Q3 Q2, Q4 R1 T1	Relay (Potter and Brumfield No.KH4487-1) Transistor, Darlington Amplifier, Silicon, NPN(Motorola No.MJE6044) Transistor, Darlington Amplifier, Silicon, PNP(Motorola No. MJE6041) Resistor, Carbon, 10K, 1/2W Transformer, Power	200-12751 704-00302 705-00302 713-00102 401-06317
Z2	Integrated Circuit, Linear, Voltage Regulator(Fairchild No.UA7824;Motorola No.MC7824CP)	702-00365
	MISCELLANEOUS PARTS Cord and Plug Assembly Strain Relief Retaining Bracket(Pre-Amp Edge Connector) (2 Req'd) Heat Sink Insulator, Mica (4 Req'd) Washer Torque (4 Req'd) Eyelet (2 Req'd) Washer (2 Req'd) Chassis Assembly with Lettering Circuit Board Support	702-00502 705-02322 200-09295 401-06321 201-15196 201-15197 207-03709 720-01208 601-02192 705-05000
DRIVER BOA	ARD ASSEMBLY 403-06316	
C1, C2 C3 C4, C5 C6 C7 C8 C9 C10 C11 C12 C13 C14	Capacitor, Tantalum, 47 MFD, 15V (Sprague 196D; Mallory TDC; ITT TAG, TAP Capacitor, Mylar, 0.01 MFD, 100V (Sprague 225P. Paktron FM720; Amperex C280) Capacitor, Tantalum, 47 MFD, 15V (See C1) Capacitor, Ceramic Disc, 470 MFD, 100V (Sprague, Centralab, Skottie Elect; Radio Mat'l Corp.) Capacitor, Electrolytic, 100 MFD, 50V (Sprague 43D; Mallory TCW) Capacitor, Electrolytic, 5 MFD, 50V (Sprague 30D; Mallory TT; Collins ASD; G.E. 76F) Capacitor, Ceramic Disc, 220pFD, 100V (Same Type As C6) Capacitor, Tantalum, 47 MFD, 15V (See C1) Capacitor, Mylar, 0.01 MFD, 100V (Same Type As C3) Capacitor, Mylar, 0.1 MFD, 100V (Same Type As C1) Capacitor, Mylar, 0.1 MFD, 100V (Same Type As C3)	702-00251 707-00240 702-00251 701-00224 719-00233 703-00233 706-00224 702-00251 707-00240 705-00251 705-00251
C15 C16	Capacitor, Ceramic Disc, 220 pFD, 100V (Same Type As C6) Capacitor, Ceramic Disc, 56 pFD, 100V (Same Type As C6)	706-00224 720-00224

COMPONENT R DESIGNATION		ROWI PART
C17 C18 C19	Capacitor, Tantalum, 2.2 MFD, 15V (Same Type As C1) Capacitor, Mylar, 0.22 MFD, 100V (Paktron FM1100; Amperex C280) Capacitor, Mylar, 0.1 MFD, 100V (Same Type As C3)	707-002 703-002 702-002
CR1 to CR8 CR9	Diode, Silicon (1N4002, Solitron, Westinghouse, Motorola, Transitron) Diode, Zener (1N961B, Solitron, Motorola, ITT, Transitron)	702-003 714-003
F1, F2	Fuse, Cartridge, 2 Amp (Buss No. AGC-2; Littlefuse No.312002	701-007
Q3 Q4 Q5, Q6 Q7 Q8, Q9	Transistor, Silicon, PNP(Motorola MPS-A56; Fairchild MPS-A56) Transistor, Silicon, NPN(Motorola MPS-A06; Fairchild MPS-A06) Transistor, Silicon, NPN(Motorola SPS6979; Sprague TZ8630; G.E.X32B 4682) Transistor, Silicon, Dual NPN(Motorola MD8002; 2N2919, Fairchild, Texas Instr; Nat'l Semi-Conductor) Transistor, Silicon, PNP (See Q3)	704-003 708-003 702-003 701-003 704-003
R1, R2 R3 R4 R5, R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 R27 R28	Resistor, Wirewound, 0.47 Ohm, 2W (I.R.C. Type BWH) Resistor, Carbon, 180 Ohm, 1/4W Resistor, Carbon, 220 Ohm, 1/4W Resistor, Carbon, 15K, 1/4W Resistor, Carbon, 820 Ohm, 1/4W Resistor, Carbon, 820 Ohm, 1/4W Resistor, Carbon, 2.2K, 1/4W Resistor, Carbon, 180 Ohm, 1/4W Resistor, Carbon, 180 Ohm, 1/4W Resistor, Carbon, 200 Ohm, 1/4W Resistor, Carbon, 2.7K, 1/4W Resistor, Carbon, 2.7K, 1/4W Resistor, Carbon, 2.2K, 1/4W Resistor, Carbon, 2.2K, 1/4W Resistor, Carbon, 2.7K, 1/4W Resistor, Carbon, 4.7K, 1/4W Resistor, Carbon, 4.7K, 1/4W Resistor, Carbon, 470 Ohm, 1/4W Resistor, Carbon, 48 Ohm, 1/4W Resistor, Carbon, 10 MEG, 1/4W Resistor, Carbon, 10 MEG, 1/4W Resistor, Carbon, 17 Ohm, 1/4W Resistor, Carbon, 17 Ohm, 1/4W Resistor, Carbon, 18K, 1/4W Resistor, Carbon, 18K, 1/4W Resistor, Carbon, 18K, 1/4W Resistor, Carbon, 1.2K, 1/4W Resistor, Carbon, 6.8K, 1/4W	714-001 7-9900-
Z1	Diode Assembly, Bias (Made Up of Three 711-00350 Diodes)	301-03€
	MISCELLANEOUS PARTS Transistor Socket (4 Req'd)(Molex No.09-52-3030) Fuse Clip (8 Required) Driver Circuit Board (2 Required)	201-151 200-507 403-063



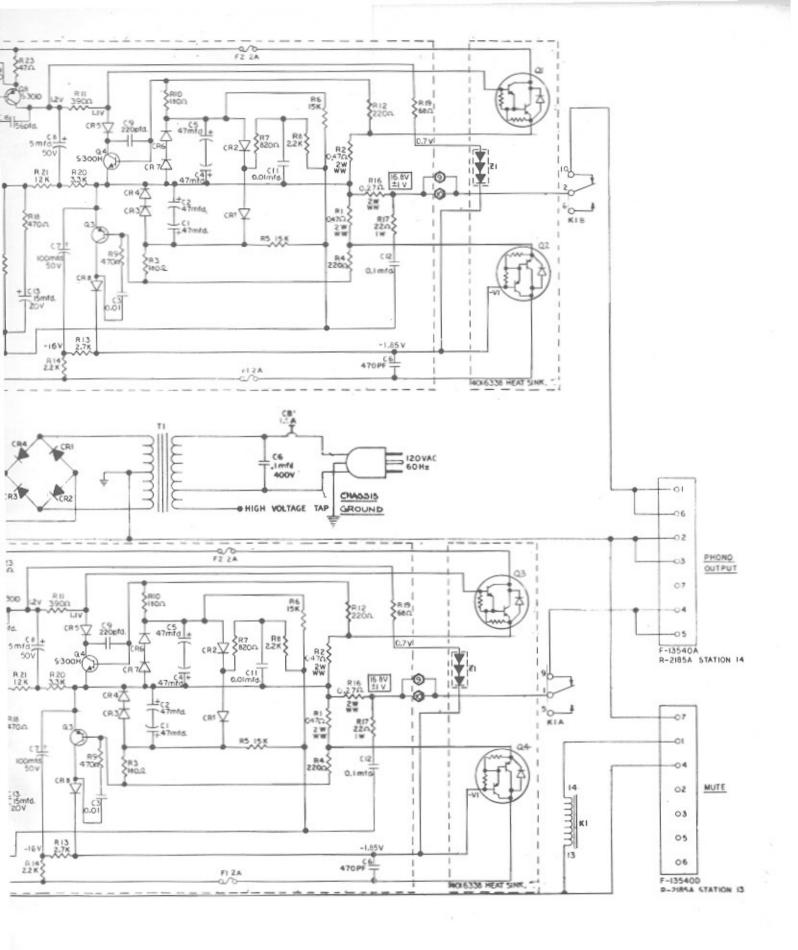
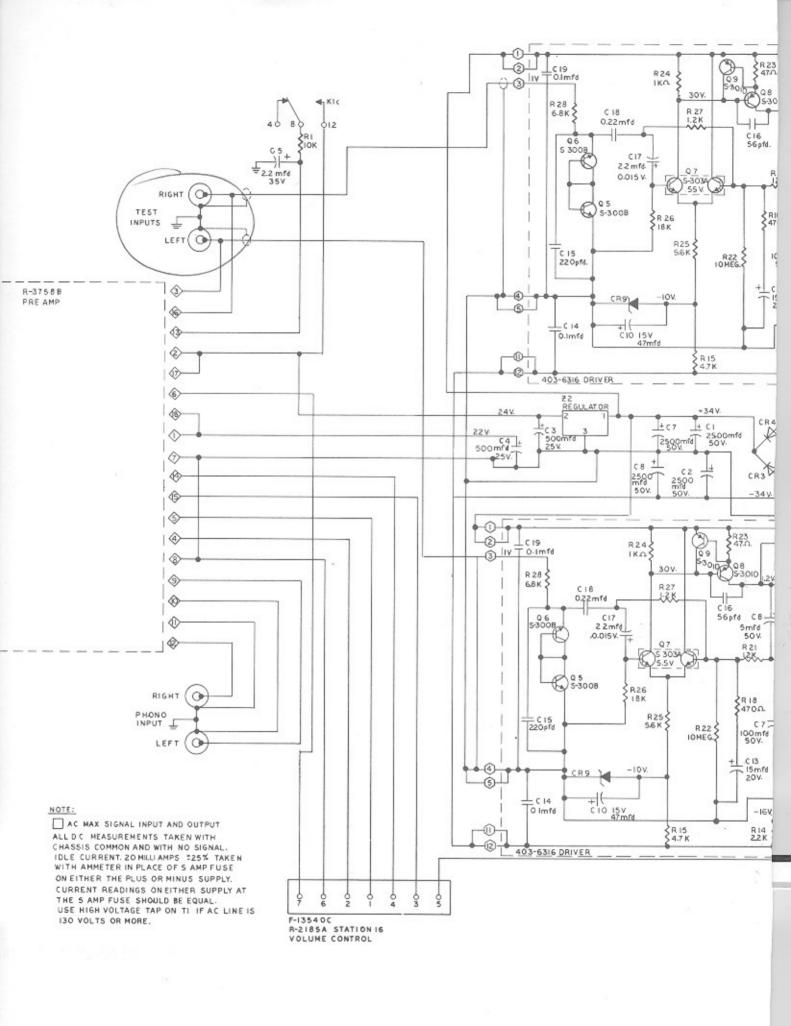
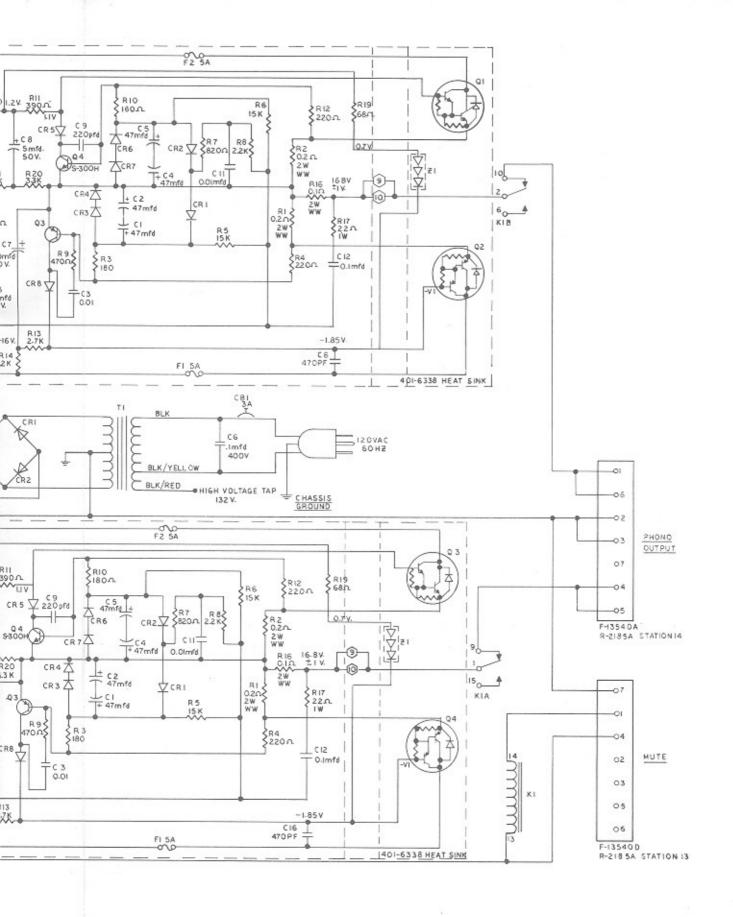


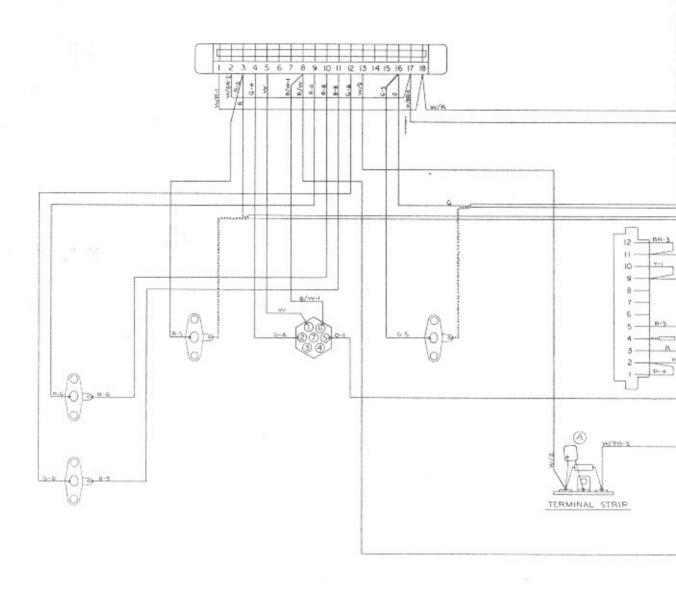
FIGURE 6-5. 64 WATT AMPLIFIER SCHEMATIC DIAGRAM





ONENT REF	DESCRIPTION	ROWE PART NO.
120W POWE	R AMPLIFIER 601-07404	
C1, C2 C3, C4 C5 C6 C7, C8	Capacitor, Electrolytic, 2500 MFD, 50V Capacitor, Electrolytic, 500 MFD, 25V (Sprague No. 43D; Mallory No. TT; G.E. No.76F) Capacitor, Tantalum, 2.2 MFD, 35V (Sprague No.196D, 198D; Mallory No.TDC; Kemet No.T362) Capacitor, Mylar, 0.1 MFD, 400V (Paktron Type MB; Sprague Type 225P, 418P; Electromotive P92242-1) Capacitor, Electrolytic, 2500 MFD, 50V	201-15181 711-00233 712-00251 701-00213 201-15181
CB-1	Circuit Breaker, 3 Amp(E.T.A. Products Co.Series 41-06-P30-1125)	717-00733
CR1 to CR4 K1 R1	Diode, Silicon (Motorola No. MR752) Relay (Potter & Brumfield, No.KH-4487-1) Resistor, Carbon, 10K, 1/2W	710-00350 200-12751 713-00102
Tl	Transformer, Power	401-06337
Z2	Integrated Circuit, Linear, Voltage Regulator(Fairchild No.UA7824;Motorola No.MC7824CP)	702-00365
	MISCELLANEOUS PARTS Cord and Plug Assembly, 3 Conductor Strain Relief Retaining Bracket(Pre-Amplifier Edge Connector)(2 Required) Circuit Board Support (8 Required) Washer Flat (4 Required) Harness Assembly 601-02185 Containing Edge Connector, 12 Circuit (2 Req'd)(Driver Board Connectors) Edge Connector, 18 Circuit (Pre-Amplifier Connector) Socket, Relay Housing Plug, Combo-Line, 7 Circuit (Phono Spkrs.) Housing, Plug, Combo-Line, 7 Circuit, Black (Vol. Control) Housing, Plug, Combo-Line, 7 Circuit, Brown (Mute) Chassis Assembly with Lettering	702-00502 705-02322 200-09295 706-05000 718-01208 204-50572 208-13333 202-13782 201-13540 203-13540 204-13540 601-07403
HEAT SINK		202.00202
Q1, Q1 Q2, Q2	Transistor, Darlington Amplifier, Silicon, NPN, (Motorola No. MJ4031) Transistor, Darlington Amplifier, Silicon, NPN, (Motorola No. MJ4034)	707-00302 706-00302
Z1, Z1	Diode Assembly, Bias (Made up of three 711-00350 Diodes)	301-03693
	MISCELLANEOUS PARTS Eyelet Washer, Flat (2 Req'd) Insulator (4 Req'd) Connector and Cable Assembly Heat Sink	206-03709 720-01207 200-13189 301-04219 401-05472
DRIVER BOA	ARD ASSEMBLY 402-06316	
C1, C2 C3 C4, C5 C6 C7 C8	Capacitor, Tantalum, 47 MFD, 15V (Sprague 196D; Mallory TDC; ITT TAG, TAP Capacitor, Mylar, 0.01 MFD, 100V (Sprague 225P. Paktron FM720; Amperex C280) Capacitor, Tantalum, 47 MFD, 15V (See C1) Capacitor, Ceramic Disc, 470 MFD, 100V (Sprague, Centralab, Skottie Elect; Radio Mat'l Corp.) Capacitor, Electrolytic, 100 MFD, 50V (Sprague 43D; Mallory TCW) Capacitor, Electrolytic, 5 MFD, 50V (Sprague 30D; Mallory TT; Collins ASD; G.E. 76F)	702-00251 707-00240 702-00251 701-00224 719-00233 703-00233

COMPONENT REF	DESCRIPTION	ROWE PART NO.
C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19	Capacitor, Ceramic Disc, 220pFD, 100V (Same Type As C6) Capacitor, Tantalum, 47 MFD, 15V (See C1) Capacitor, Mylar, 0.01 MFD, 100V (See C3) Capacitor, Mylar, 0.1 MFD, 100V (Same Type As C3) Capacitor, Tantalum, 15 MFD, 18V (Same Type As C1) Capacitor, Mylar, 0.1 MFD, 100V (Same Type As C3) Capacitor, Mylar, 0.1 MFD, 100V (Same Type As C3) Capacitor, Ceramic Disc, 220 pFD, 100V (Same Type As C6) Capacitor, Ceramic Disc, 56 pFD, 100V (Same Type As C6) Capacitor, Tantalum, 2.2 MFD, 15V (Same Type As C1) Capacitor, Mylar, 0.22 MFD, 100V (Paktron FM1100; Amperex C280) Capacitor, Mylar, 0.1 MFD, 100V (Same Type As C3)	706-00224 702-00251 707-00240 702-00240 705-00251 702-00240 706-00224 720-00224 707-00251 703-00240 702-00240
CR1 to CR8 CR9	Diode, Silicon (1N4002, Solitron, Westinghouse, Motorola, Transitron) Diode, Zener (1N961B, Solitron, Motorola, ITT, Transitron)	702-00350 714-00355
F1, F2	Fuse, Cartridge, 5 Amp (Buss MTH-5)	710-00720
Q3 Q4 Q5, Q6 Q7 Q8, Q9	Transistor, Silicon, PNP(Motorola MPS-A56; Fairchild MPS-A56) Transistor, Silicon, NPN(Motorola MPS-A06; Fairchild MPS-A06) Transistor, Silicon, NPN(Motorola SPS6979; Sprague TZ8630; G.E.X32B 4682) Transistor, Silicon, Dual NPN(Motorola MD8002; 2N2919, Fairchild, Texas Instr; Nat'l Semi-Conductor) Transistor, Silicon, PNP (See Q3)	704-00301 708-00300 702-00300 701-00303 704-00301
R1, R2 R3 R4 R5, R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 R27 R28	Resistor, Wirewound, 0.2 Ohm (IRC Type BWH) Resistor, Carbon, 180 Ohm, 1/4W Resistor, Carbon, 220 Ohm, 1/4W Resistor, Carbon, 15K, 1/4W Resistor, Carbon, 820 Ohm, 1/4W Resistor, Carbon, 2.2K, 1/4W Resistor, Carbon, 2.2K, 1/4W Resistor, Carbon, 180 Ohm, 1/4W Resistor, Carbon, 390 Ohm, 1/4W Resistor, Carbon, 200 Ohm, 1/4W Resistor, Carbon, 2.7K, 1/4W Resistor, Carbon, 2.7K, 1/4W Resistor, Carbon, 2.7K, 1/4W Resistor, Carbon, 4.7K, 1/4W Resistor, Carbon, 3.3K, 1/4W Resistor, Carbon, 68 Ohm, 1/4W Resistor, Carbon, 12K, 1/4W Resistor, Carbon, 17 Ohm, 1/4W Resistor, Carbon, 18K, 1/4W Resistor, Carbon, 1.2K, 1/4W Resistor, Carbon, 6.8K, 1/4W	701-00126 7-9900-181 7-9900-221 7-9900-821 7-9900-222 7-9900-471 7-9900-221 7-9900-221 7-9900-222 7-9900-472 702-00126 716-00108 7-9900-471 7-9900-471 7-9900-680 7-9900-102 7-9900-106 7-9900-102 7-9900-102 7-9900-102 7-9900-183 7-9900-183 7-9900-182 7-9900-682
	MISCELLANEOUS PARTS Polarizing Wafer Assembly (Q1), 3 Circuit (2 Req'd) Polarizing Wafer Assembly (Q2), 4 Circuit (2 Req'd) Clip, Fuse (8 Req'd) Driver Circuit Board (2 Req'd)	703-00750 704-00750 200-50775 403-06315



		WIRE	CHART		
CODE	REQ'D	LENGTH	COLOR	STRIP	SPEC.
10.1	1	2	BLACK	V4 x V4	5010



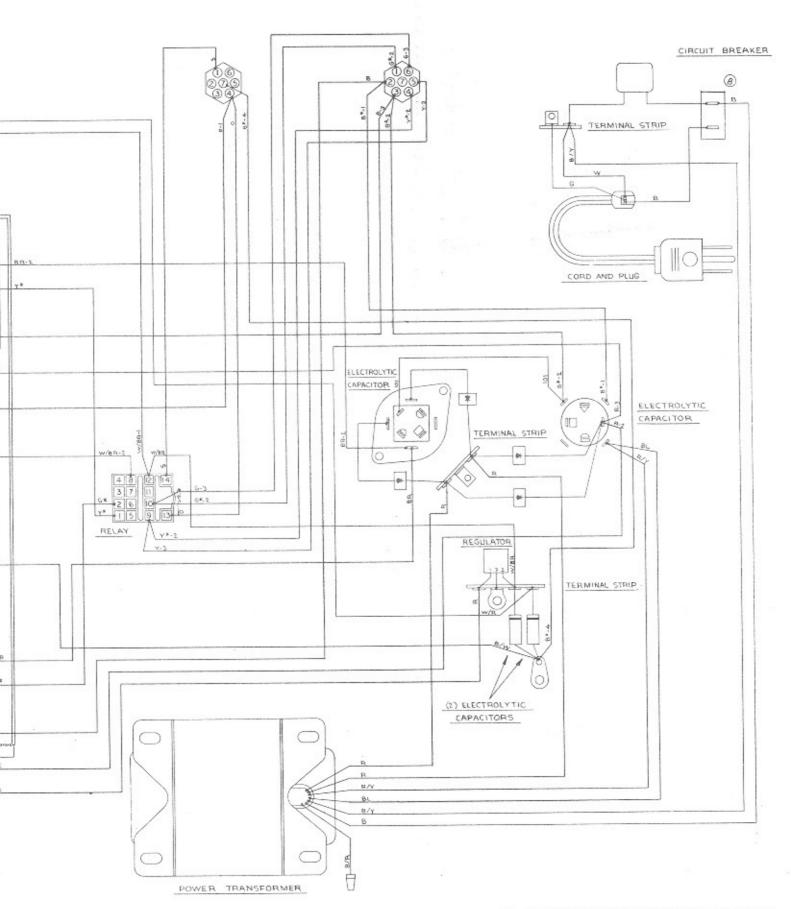
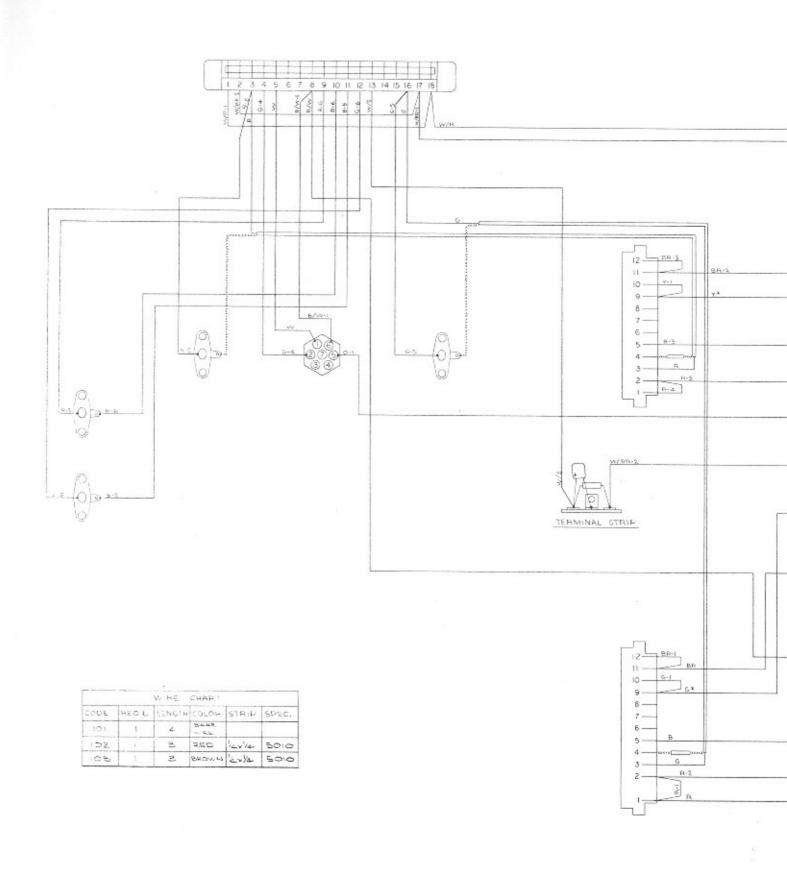


FIGURE 6-7. 64 WATT AMPLIFIER WIRING DIAGRAM



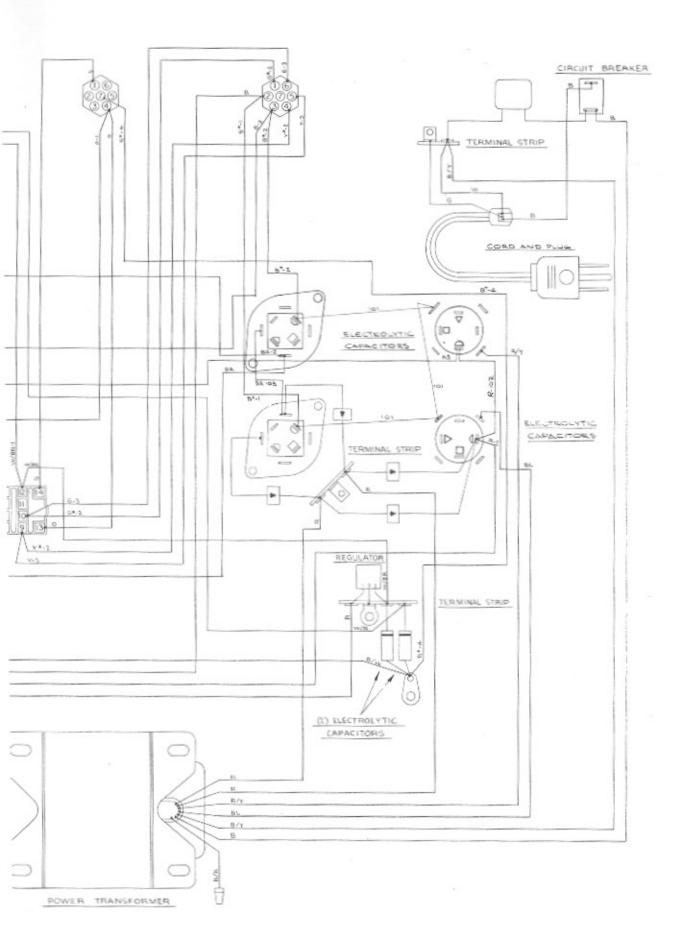
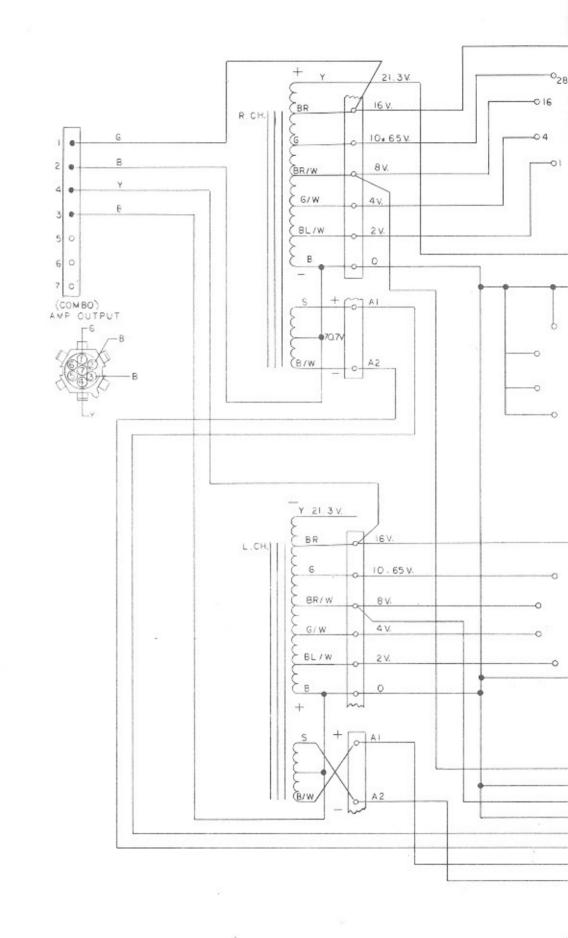
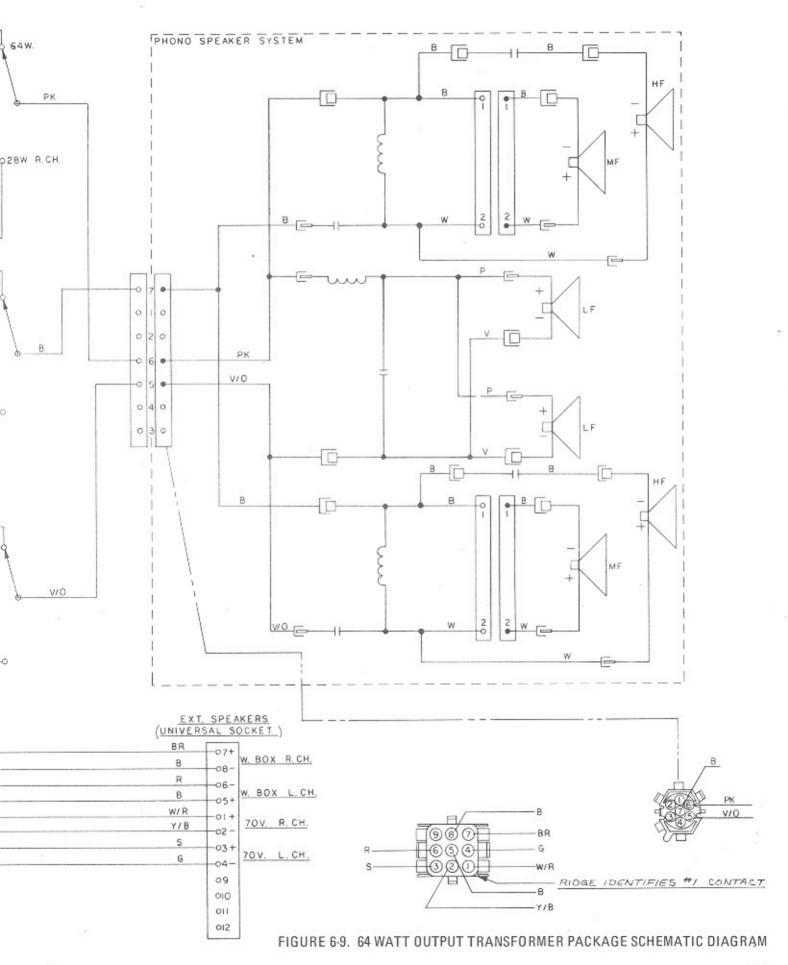
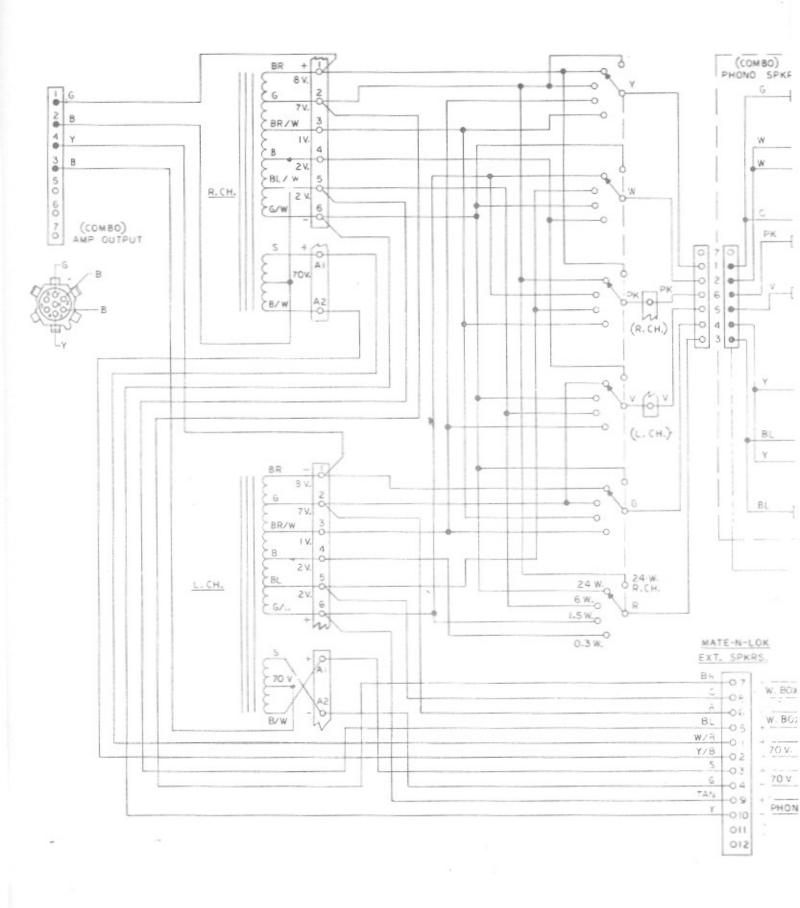


FIGURE 6-8. 120 WATT AMPLIFIER WIRING DIAGRAM 6-10

AM







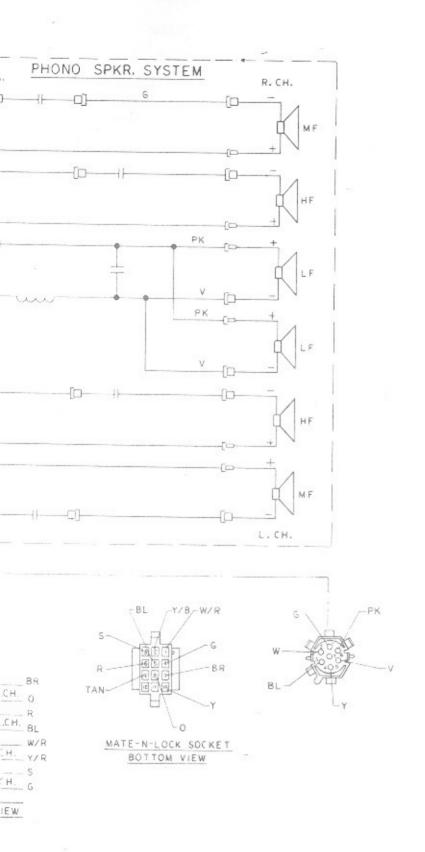
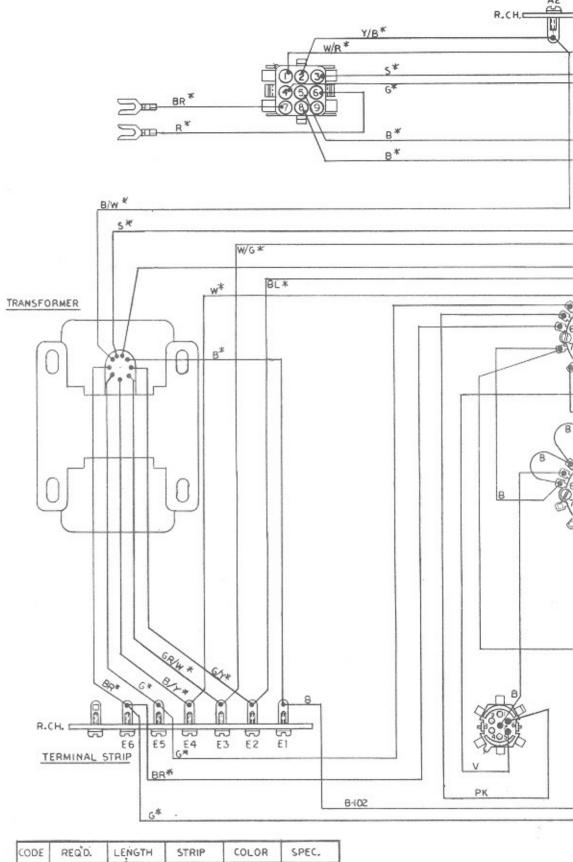


FIGURE 6-10. 120 WATT OUTPUT TRANSFORMER PACKAGE SCHEMATIC DIAGRAM 6-12



CODE	REQ'D.	LENGTH	STRIP	COLOR	SPEC.
101	/	1	7/32 X /	BLACK	5033
102	/	4	7/32 X 7/32	BLACK	5033

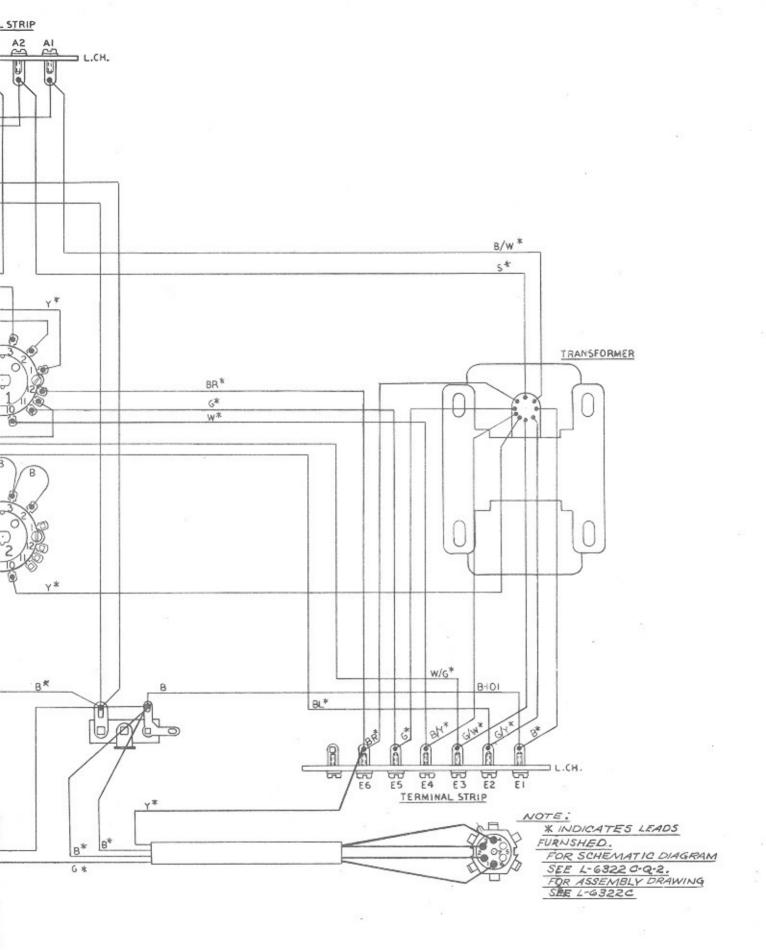
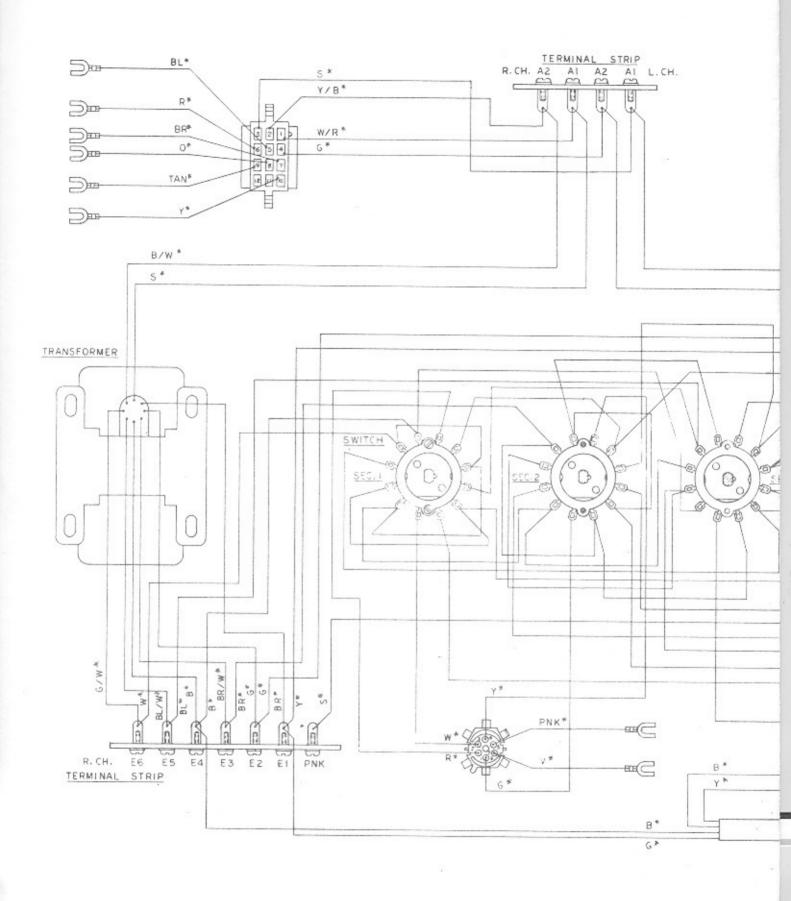


FIGURE 6-11. 64 WATT OUTPUT TRANSFORMER PACKAGE WIRING DIAGRAM



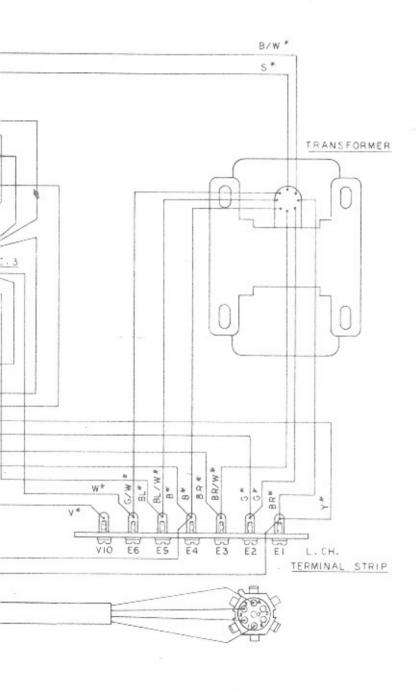


FIGURE 6-12. 120 WATT OUTPUT TRANSFORMER PACKAGE WIRING DIAGRAM

EXAMPLE: W/R IS WHITE WIRE WITH RED MARKING.

COLOR CODE:

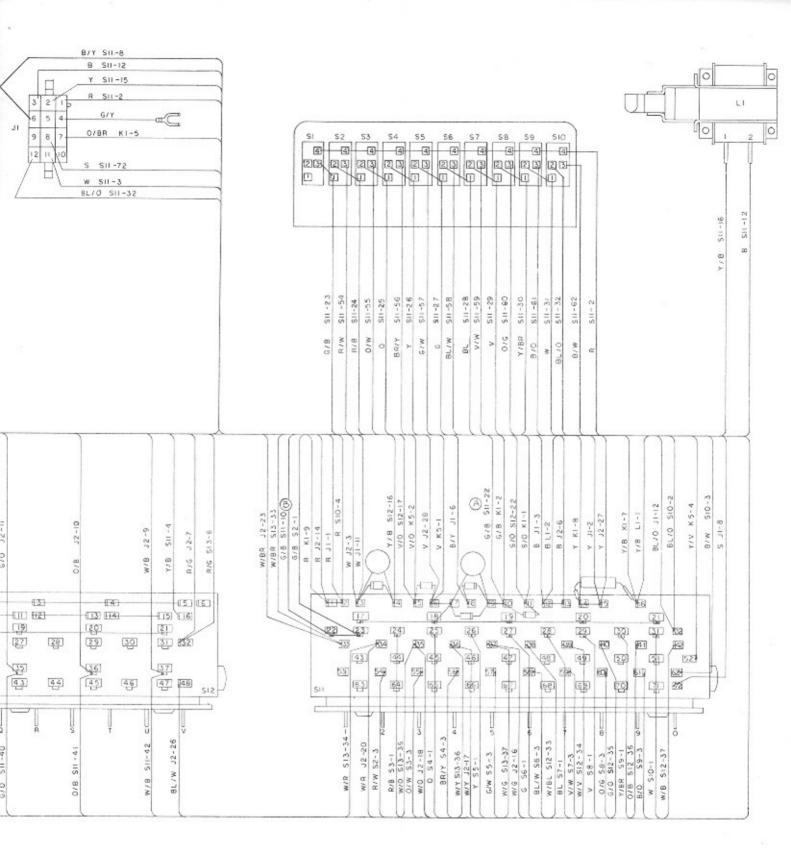
IN ALL TWO COLOR WIRES
THE FIRST COLOR IS THE
BASIC COLOR OF THE MINE
AND THE SECOND COLOR IS
THE STRIPE ON HASH MARK.

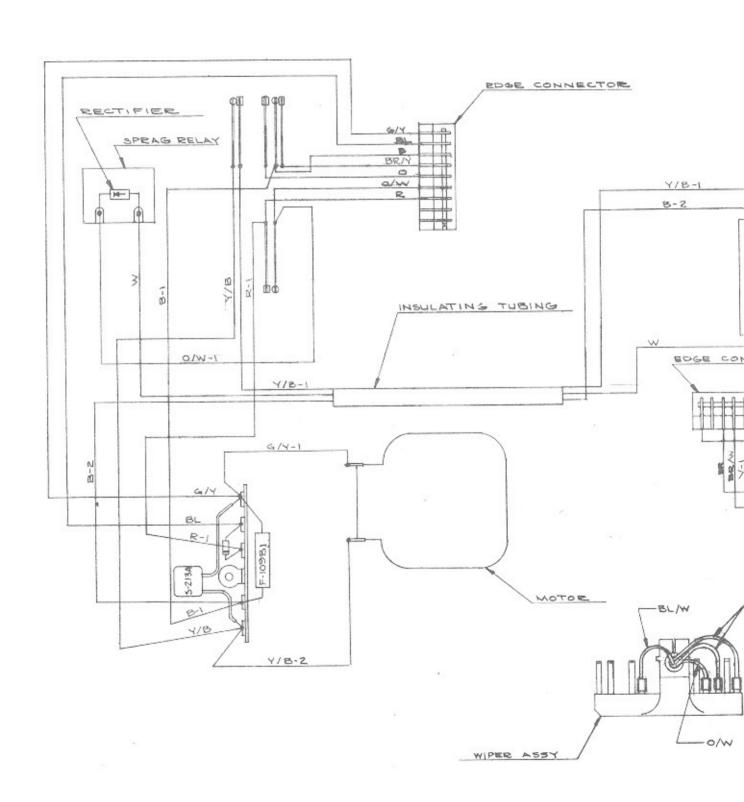
EVALUATE: W/R IS NATIF

8 BLACK
8R BROWN
R RED
O GRANGE
Y YELLOW
G GREEN
BL BLUE
V VIOLET
S SLATE
W WHITE
PK PINK
TAM TAM

.

	-	-			5 2-	-			Ŧ	F				+										P		J2													
61W K5 - 8	V SH-6	Y SII-15	BL/W S12-48	BR K5-3		W/BR SH-33		V/W SI3-7	W/R 511-34	W/O \$11-35	W/Y SII-36	6	8L x5-7				0/8 512-36	W/8 512-37	R/6 S12-32	B SH-I3	0/8R KI-5	8 SI - 3	8/8 KI-IO					1	KS		7					4 5		K1	2
																		And the control of th							50	100	77B KI-7		5 72-3	8R J2-25 6/W J2-29	BL J2-15	V/O 511-5		8/0 8  -1	0 12-8	07BR JI-7	0/8R J2-5	√ SII - 14	R/B J2-2
						5/0 5/2-22	V/W J2-21	R/W 512-1																			0.00 \$19-33	30 30 000						S/U SII-II			V/O SH-5	W/V J2 - 12	
					[2	2		7]	16)	24		- E	9 (8)		126			DE	3)	28]		[2] [2]	§] (3) €	4) 4) (30)		115) [진]	15 16 152				v/w		2	2	(D)	E C		ņ	
				(13	<b>B</b> )		3	) 기 기	1	40	1	19	4		42	1	13	31 31		44		4	<u>6</u>	46	4	\$7 47	<b>4</b> 0	S13	<b>b</b>	BL	. /W	or	 78]	-	23		40	2	1
			t			W/BR SII-33 >			V/O S12-17 @		0 000	W/R 5H-54		D		W/0 SII-35 m					W/Y SII -36 OF		H		W/6 SII-37 C		K	-						V/O SI3-17 r	W/BL 511-38			N 97-112 VW	





# R RED BL BLUE PE PINK B BLACE S SLATE O CRANE FY TELLOW G OREEN BR BROWN V VIOLET W WITTE

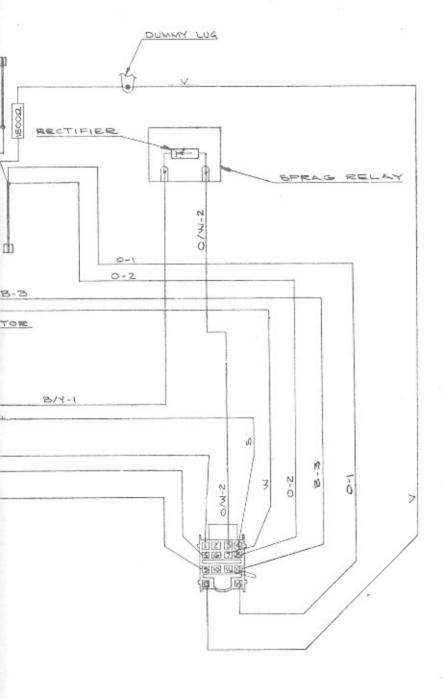


FIGURE 6-14. SEARCH UNIT ASSEMBLY WIRING DIAGRAM

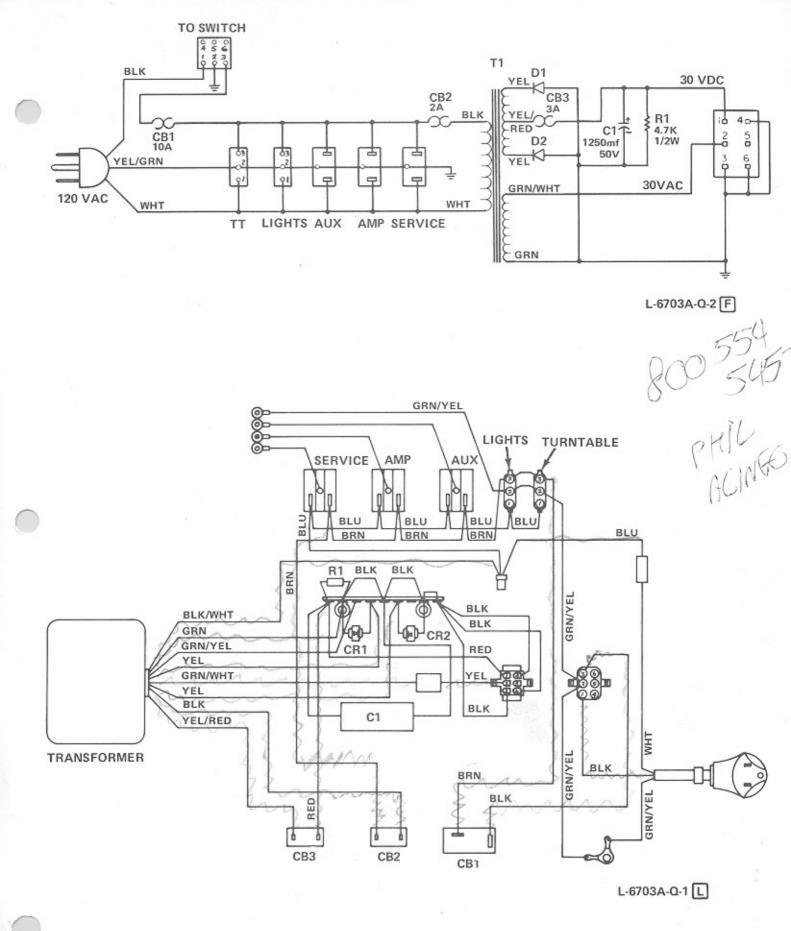
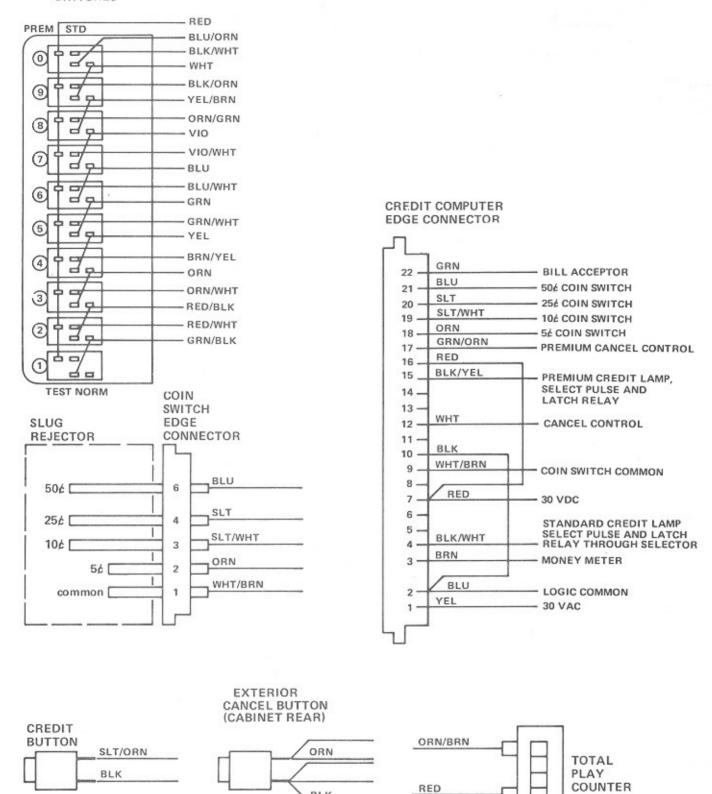


FIGURE 6-15. JUNCTION BOX ASSEMBLY WIRING AND SCHEMATIC DIAGRAMS



BLK

## SECTION 4 - TROUBLESHOOTING

### GENERAL

This section contains troubleshooting charts listing probable trouble causes and corrective procedures. Fifteen sequence of operation schematic diagrams plus a complete, detailed explanation of the operation of each Phonograph component are included in aid in isolating and correcting equipment malfunctions easily and rapidly. Use the instructions in this section in conjunction with the adjustment and repair and replacement instructions in Section 5 - Maintenance to isolate and correct Phonograph malfunctions.

### TROUBLESHOOTING

It is important to troubleshoot logically so that effort is not wasted in removing and replacing the wrong parts. Most failures are caused by minor defects, such as loose connections or dirty contacts. Check the following before replacing any parts:

- 1. Check that all plugs are firmly seated in their receptacles.
- 2. Check that connector pins are not bent, broken, or pushed through the back of the connector or receptacle when mated.
- 3. Check that wires are not broken at connector pins.
- Check that the area of the search unit commutator board that mates with harness edge connector is clean and intact. Make sure that the connector is firmly seated.
- Check that commutator segments are clean and that all wiper blades are properly positioned on their respective commutator segments.

### CREDIT COMPUTER TROUBLESHOOTING

### PRELIMINARY CHECK

In order to isolate a problem in the credit system, perform the following preliminary check. Observe phonograph functions step by step to identify the specific problem area, then proceed to Table 4-1 Credit Computer Troubleshooting Charts for specific solutions.

- Check the setting of the program switches in the Credit Computer to make sure they are set to the desired price of play
  program. Also make sure the premium price switches in the selector are set to the desired position. The "test switch" (in the
  selector premium pricing switch bank) must be set to the "normal" position.
- Deposit nickels, one at a time, to reach the required credit level for standard play. Check to see that the "Make Standard Selection" lamp does not light until a sufficient number of nickels have been deposited.

### NOTE

IF LAMP DOES NOT LIGHT WHEN COR-RECT CHANGE IS ACCEPTED, CHECK LAMP; CHECK CREDIT COMPUTER EDGE CON-NECTOR.

3. Make a standard selection. The "Make Standard Selection" lamp must go out and no further selections can be made.

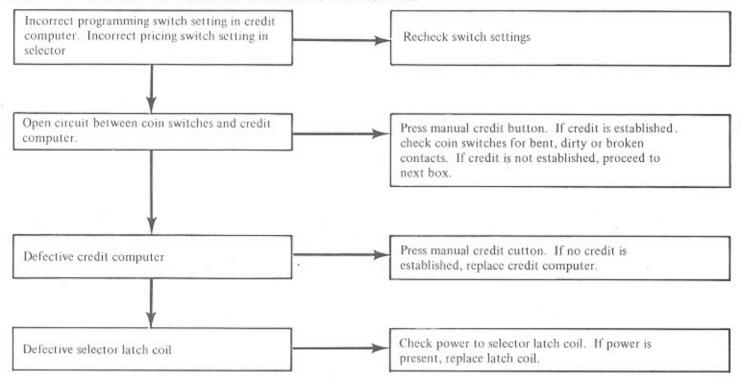
### NOTE

IF THE DESIRED PRICE PROGRAM IS 2/25& OR 3/25&, IT IS NECESSARY TO DEPOSIT 25& (5 NICKELS) BEFORE THE CREDIT LAMP LIGHTS. IT IS NECESSARY TO MAKE 2 (OR 3) STANDARD SELECTIONS TO CANCEL CREDIT.

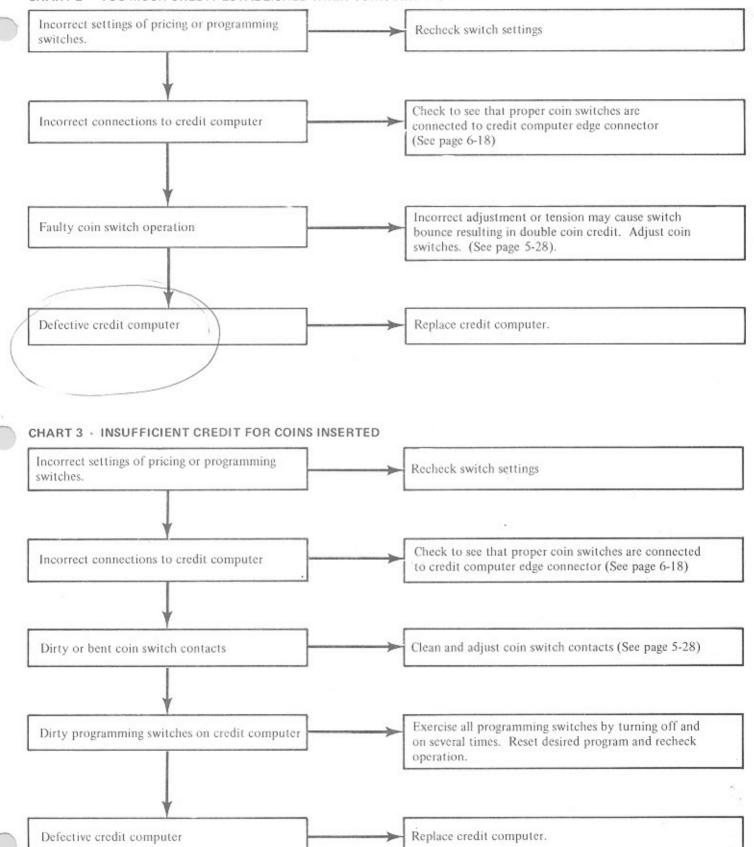
- 4. Next deposit nickels and dimes to reach the required credit level to obtain bonus play (25¢ or 50¢ typically), Check to see that the "Make Any Selection" lamp lights, in addition to the "Make Standard Selection" lamp.
- 5. Make standard selections or a combination of standard and premium selections as indicated by the price of play card. The "Made any Selection" lamp goes out when premium credit no longer exists. The "Make Standard Selection" lamp goes out when standard credit no longer exists. Make sure proper credit is established for the total coin deposit.
- Repeat the above procedure for checking credit and cancel operation at each credit level shown on the price card. Use combinations of coins (i.e. nickels, dimes and quarter) to achieve the desired deposit.
- Establish credit on the phonograph. Interrupt power by turning the scan switch off, power switch off, etc. If the power
  interruption is greater than one second duration, credit must be erased. This is the method used to remove credit during test
  and/or troubleshooting.
- 8. Push the manual credit button. Credit must be established as though a 25¢ deposit had been made. Remove credit.

### TABLE 4-1, CREDIT SYSTEM TROUBLESHOOTING

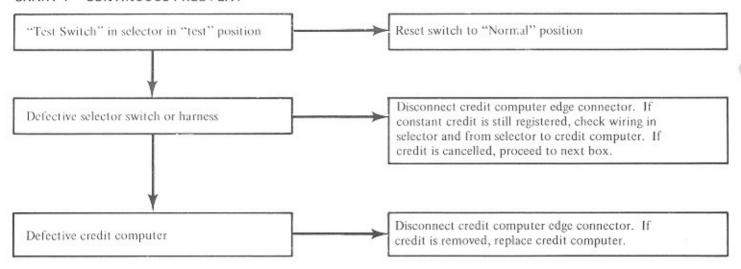
CHART 1 - NO CREDIT ESTABLISHED WHEN COINS ARE INSERTED



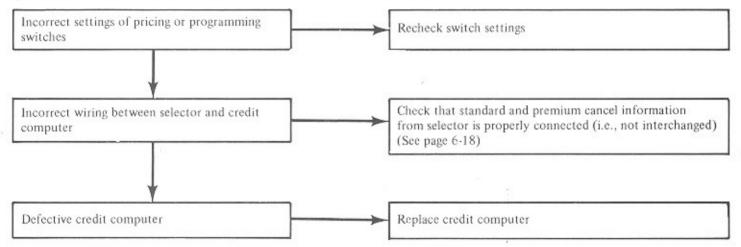
### CHART 2 - TOO MUCH CREDIT ESTABLISHED WHEN COINS ARE INSERTED



### CHART 4 - CONTINUOUS FREE PLAY



### CHART 5 - IMPROPER CANCEL OPERATION WHEN SELECTIONS MADE



### TROUBLESHOOTING CHARTS

The possible malfunctions of the Phonograph, their probable causes and remedies are listed in tables 4-2 through 4-4. The TROUBLE column contains specific failures. Each failure has one or more corresponding causes in the PROBABLE CAUSE column. If more than one probable cause and remedy are listed for a particular trouble, perform the procedures in the REMEDY column in the order listed.

TABLE 4-2. SLUG REJECTOR AND SELECTION SYSTEM TROUBLESHOOTING

TROUBLE	PROBABLE CAUSE	REMEDY
Valid coins fail to pass through slug re- jector into cash box.	Dirt or foreign matter clogging coin passages in rejector	Refer to coin rejector service manual for cleaning procedure. Clean in accordance with instructions.
Coins remain jammed in rejector .	Scavenger binding, rejector out of adjustment.	Refer to coin rejector service manual for adjustment procedure.

TABLE 4-2. SLUG REJECTOR AND SELECTION SYSTEM TROUBLESHOOTING (CONTINUED)

TROUBLE	PROBABLE CAUSE	REMEDY	
Valid coins accepted, credits are established, pushbuttons do not latch in.	Latch coil not operating. Select pulse and latch relay R1 not picking up.	Check coil for continuity. Check relay contacts for closure. Replace relay or coil if necessary.	
	Select pulse and latch relay R1 contacts broken, dirty, or out of adjustment. R1 not picking up after credit is established.	Clean and adjust relay contacts.	
	Open circuit between credit unit and select pulse and latch relay R1. R1 not picking up after credit is established.	Check for open circuit. Refer to sequence of operation, page 4-10.	
Pushbuttons latch in but release prema- turely; no selection played.	Select pulse and latch relay R1 time delay circuit giving short pulse.	Check diode on selector assembly. Check relay R1 for dirt between core and armature. Replace parts if necessary.	
Pushbuttons latch in; no further action.	Open circuit to search unit motor.	Check wiring. See page 6-16.	
Pushbuttons latch in, search unit motor starts, but runs con- tinuously.	Open circuit in selector assem- bly, wiring from pushbutton switches to search unit printed board segments.	Check wiring against selector assembly wiring diagram. See page 6-15.	
	Contacts on mechanism control relay R dirty, broken, or out of adjustment.	Check mechanism control relay R for proper operation. Replace if necessary. This relay is nonrepairable.	
Selection is registered,	No circuit through stop switch.	Check wiring to stop switch. See page 6-5.	
magazine rotates one complete scan cycle and stops. No record is played.	Selected pin not pushed far enough; select coil not properly positioned.	Check inside and outside row select coils for proper operation. Adjust select coil arm assembly. See page 5-27.	
Wrong selection is played every time.	Search unit select coil arm assembly out of adjustment.	Adjust search unit select coil arm assembly. Check search unit wiper adjustment. See page 5-25.	
	Stop switch out of adjustment.	Check stop switch alignment. See page 5-5.	
	Stop switch gear not properly installed.	Check stop switch gear alignment. See page 5-6.	
One particular letter or number, in combin- ation with all letters and numbers, will not register.	Open circuit in the particular letter or number wiring.	Check for dirt on search unit commutator board or wiper contacts. Clean with alcohol, if necessary. To locate the open circuit, make 20 selections in the following order: A1, B1, C2,D2, E3, F3, G4, H4, J5, K5, L6, M6, N7 P7, Q8, R8, S9, T9, U0, V0. This test combination will determine which letter or number has an open circuit.	
Search unit motor en- ergized but does not	Search unit gears binding.	Check for dirt or foreign matter lodged in gear teeth. Check backlash adjustment. See page 5-20.	
run.	Tip of select coil plunger hung up on side of pin, excessive backlash causing select coil arm overtravel.	Adjust search unit gears for proper backlash. See page 5-20.	

### TABLE 4-2. SLUG REJECTOR AND SELECTION SYSTEM TROUBLESHOOTING (CONTINUED)

TROUBLE	PROBABLE CAUSE	REMEDY
Only one selection is made but two selections play.	Select coil plunger hitting two adjacent pins; select coil arms out of adjustment, or overtravel caused by excessive gear backlash.	Adjust select coil arm assembly. Adjust search unit gears for proper backlash. See pages 5-20 and 5-27.

TABLE 4-3. RECORD CHANGER MECHANISM TROUBLESHOOTING

TROUBLE	PROBABLE CAUSE	REMEDY	
All selections register properly but magazine	Scan Assembly not operating	Check scan coil for open, check for binding linkage.	
does not rotate.	Scan switch defective or out of adjustment.	Check scan switch for proper operation, adjust switch position.	
	Diode D-1 open.	Check by shorting across diode.	
	Cam switch CS2 faulty or out of adjustment.	Check switch for proper operation or adjust switch position.	
	Magazine detent coil open or binding detent linkage.	Check coil for continuity, free linkage.	
	Relay contact 1 & 9 faulty.	Check relay, replace if necessary.	
	Detent switch faulty or out of adjustment.	Check switch for proper operation or adjust switch position.	
	Magazine motor faulty or drive gears binding.	Check motor and gear train for proper operation.	
Scan linkage operates, magazine completes one scan cycle and stops - no record is played. Stop switch jumps pins.	No circuit through stop switch	Check stop switch and wipers on back of stop switch.	
	Diode D-2 defective.	Check diode.	
	Short circuit in 50 MFD capacitor.	Check capacitor resistance.	
	Faulty mech. relay. (R)	Replace relay.	
	CS5 cam switch defective or out of adjustment.	Check cam switch for proper operation - replace if necessary, adjust switch position.	
	Short circuit on common side of magazine detent coil.	Check detent coil circuit.	
Magazine stops at proper selection, but record transfer assembly does not operate. Relay (R) picked up.	Open circuit to transfer motor.	Check relay contacts 6 and 10, 7 and 11, for proper operation.	
	Defective transfer motor.	Check motor, replace if necessary.	
Transfer arm stops in mid travel be-	Cam switch CS2 faulty of out of adjustment.	Check for proper operation of switch. Replace if necessary. Adjust as required.	
ween magazine and turntable. Phono power is on.	Open circuit breaker in junction box.	Check for short or overload condition. After correcting condition, reset circuit breaker.	

TABLE 4-3. RECORD CHANGER MECHANISM TROUBLESHOOTING (CONTINUED)

TROUBLE	TROUBLE PROBABLE CAUSE REMEDY		
Transfer arm moves each record selection from magazine to turntable and back without being played, all other functions normal.	Diode D-3 shorted.	Check for short.	
	Short circuit in cancel line, cut off switch or automatic cancel circuit.	Check for short.	
	Cam switches CS-4 or CS5 faulty or out of adjustment.	Check switches - adjust or replace if necessary.	
	Needle height improperly adjusted.	Adjust height of needle.	
Wrong side of record plays; selection is im-	Center slip ring wiper broken or out of adjustment.	Adjust or replace.	
properly registered.	Left side switch in stop switch assembly faulty.	Check left side switch - replace if necessary.	
	Toggle switch coil open or linkage binding.	Check coil and linkage. Replace or free if necessary	
	Diode D-3 open.	Check diode.	
	Cam switch CS4 faulty or out of adjustment.	Check switch, replace or adjust if necessary	
	Mechanism relay (R) contacts 5 and 9, not making connection.	Check relay - replace if necessary.	
Wrong record played, selection is properly	Stop switch gear out of adjustment.	Align 200 mark on stop switch gear with step in search unit mounting bracket. See page 5-6.	
registered.	Stop switch out of alignment.	Align stop switch. See page 5-6.	
Selections play over and over, pins not	Slip ring wipers No. 2 or 3 broken or out of adjustment.	Adjust or replace slip ring wiper blade assembly.	
being reset.	Cam switch CS3 or CS4 faulty or out of adjustment.	Check switches - replace or adjust if necessary.	
	Reset pawl out of adjustment.	Adjust reset pawl. See page 5-5.	
Magazine scans con- tinuously after last selection is played.	Detent coil plunger binding or detent assembly out of adjustment.	Manually operate plunger to check that the detent pawl locks the detent wheel. Adjust or replace if necessary.	
	Scan switch faulty or out of adjustment.	Check switches, repair or replace if necessary.	

### TABLE 4-4. SOUND SYSTEM TROUBLESHOOTING

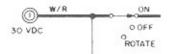
TROUBLE	PROBABLE CAUSE	REMEDY	
No sound. Phonograph mechanical operation normal.	Amplifier circuit breaker open.	Check for short or overload condition which caused breat to open. Reset breaker after this condition is corrected.	
	Faulty mute relay	Check operation of mute relay; replace if necessary. This relay is nonrepairable.	
	Cartridge leads broken or shorted.	Check that both cartridge leads are intact and that all connectors and plugs are firmly seated.	
Partial or distorted sound.	Damaged stylus	Carefully check stylus, replace if necessary.	
sound.	Incorrect remote speaker hookup.	Check remote speaker connections. See page 2-5.	
	Defective output transistors in in either channel.	Check output transistors. Replace if defective.	
	Partial short in local or remote volume control. Incorrect speaker hookup. Incorrect remote volume control hookup.	Check volume control and speaker connections as shown in sound system connection diagram. See page 2-5.	
Low volume apparent in one channel.	Cartridge defective	Replace cartridge if necessary. Check by substituting a cartridge that is known to be good.	
	Faulty preamplifier board.	Replace preamplifier board.	
	Blown DC fuse on driver board	Blown fuse on driver board will indicate a shorted output transistor. Replace fuse and transistor. See page 5-30	
	Faulty driver board.	Replace driver board.	
	Balance control not properly adjusted.	Adjust balance control for equal sound from each stereo channel. See page 2-3.	
Constant high volume, cannot be adjusted at volume control.	Short in volume control circuit.	Check wiring. See sound system connection diagram. See page 2-5.	
Excessive record	Scratched or worn records.	Replace records.	
scratch evident through speakers.	Damaged stylus.	Check stylus force. Replace stylus.	
	Treble range control set too high for condition of records.	Reduce treble range control setting. See page 2-3.	
Intermittent sound.	Speaker lines shorted	Check for shorted or partially shorted speaker lines.	
Excessive hum-low volume.	Broken shield on cartridge leads.	Be sure that shielding or wires are not broken at any point between the cartridge and amplifier input plug.	

### SEQUENCE OF OPERATION

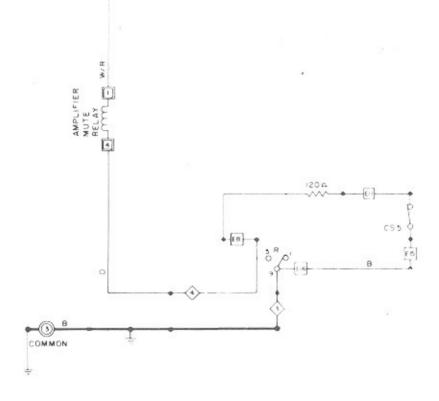
To enable you to read the sequence of operation while simultaneously viewing the sequence diamgrams and complete schematic, spread foldout page 6-3 out to the right.

Each diagram is a partial simplified schematic of the phonograph schematic diagram, figure 6-1. Only the circuits under discussion for the particular sequence are shown. The accompanying text on each diagram explains circuit operations.

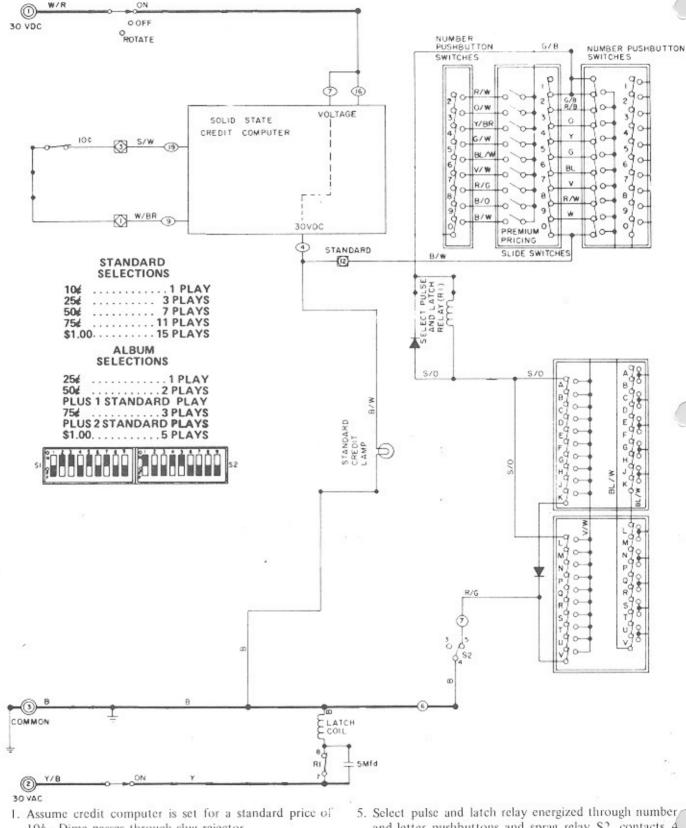
### 1. STANDBY



- 1. Phonograph plugged into power receptacle.
- 2. Mechanism service switch set to ON position.
- 3. Cabinet lamps lit (not shown).
- Amplifier mute relay energized by 30 V.D.C. through CS5.
   Mute relay keeps amplifier quiet during record transfer cycle.

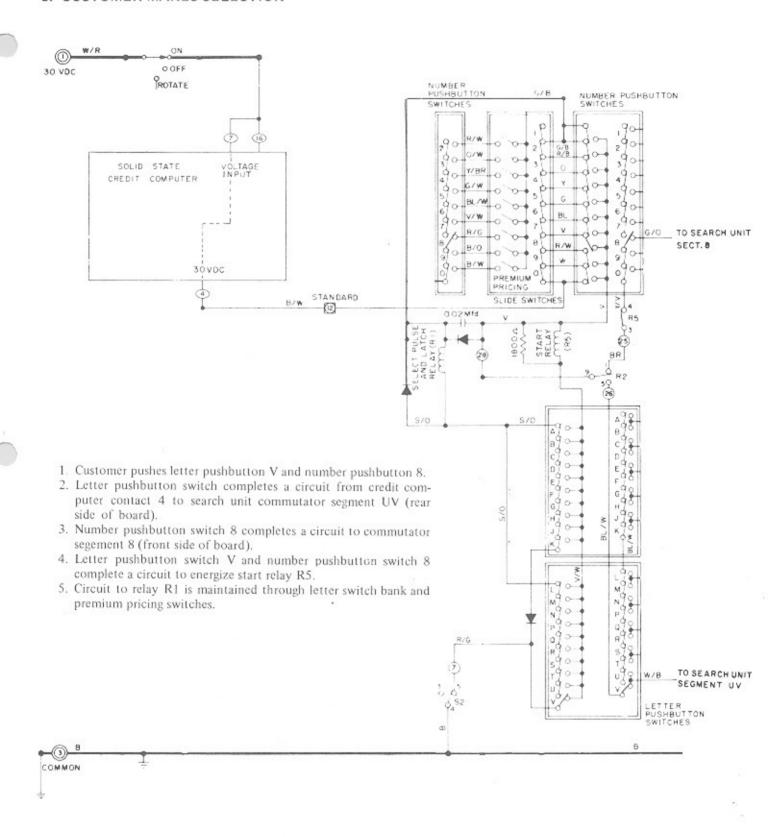


### 2. CUSTOMER INSERTS DIME, CREDIT ESTABLISHED

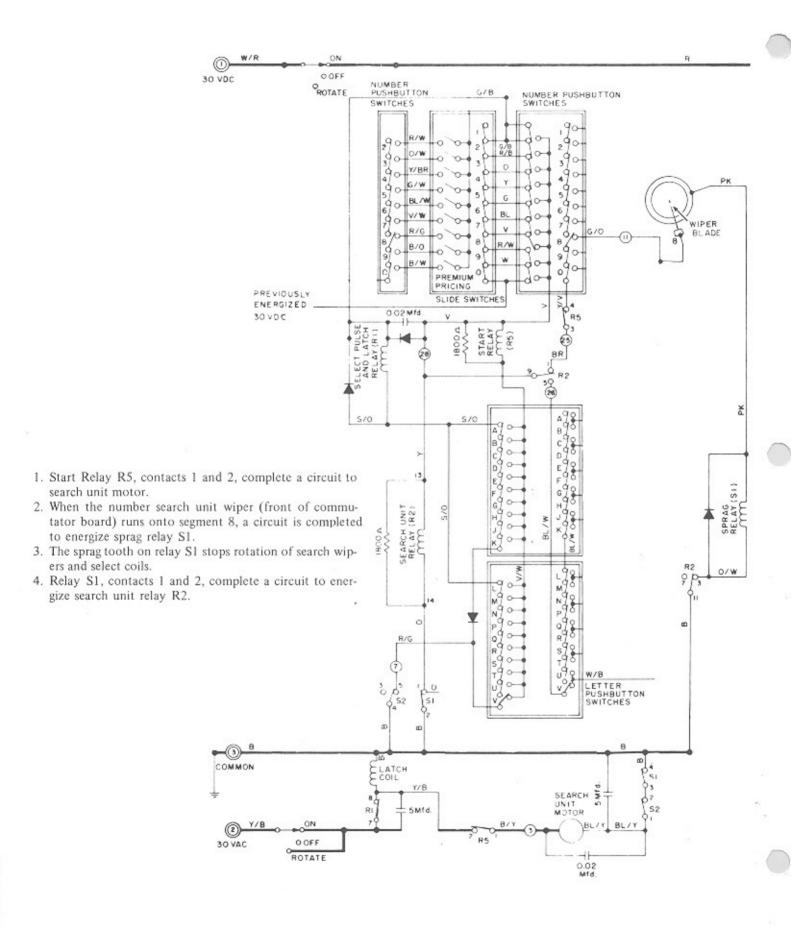


- 10¢. Dime passes through slug rejector.
- 2. Dime operates 10¢ coin switch lever, closing 10¢ coin switch.
- 3. Credit is established in the credit computer.
- 4. Power is applied to standard price lamp through contact 4 of credit computer edge connector.
- 5. Select pulse and latch relay energized through number, and letter pushbuttons and sprag relay \$2, contacts 4
- 6. Select pulse and latch relay R1, contacts 7 and 8 pull in, energizing latch coil. Pushbuttons will latch in when pressed.

### 3. CUSTOMER MAKES SELECTION

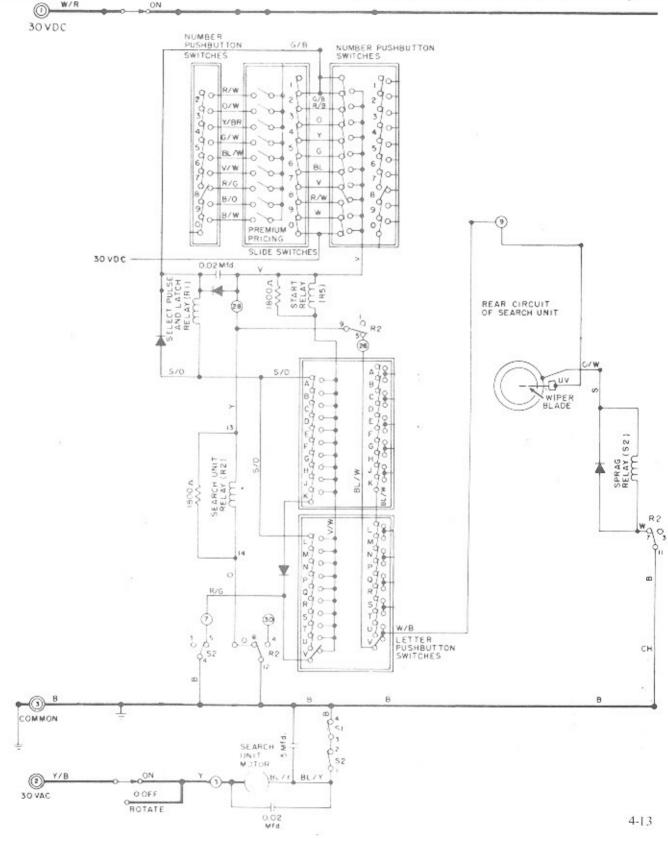


### 4. SEARCH WIPERS LOCATE NUMBER



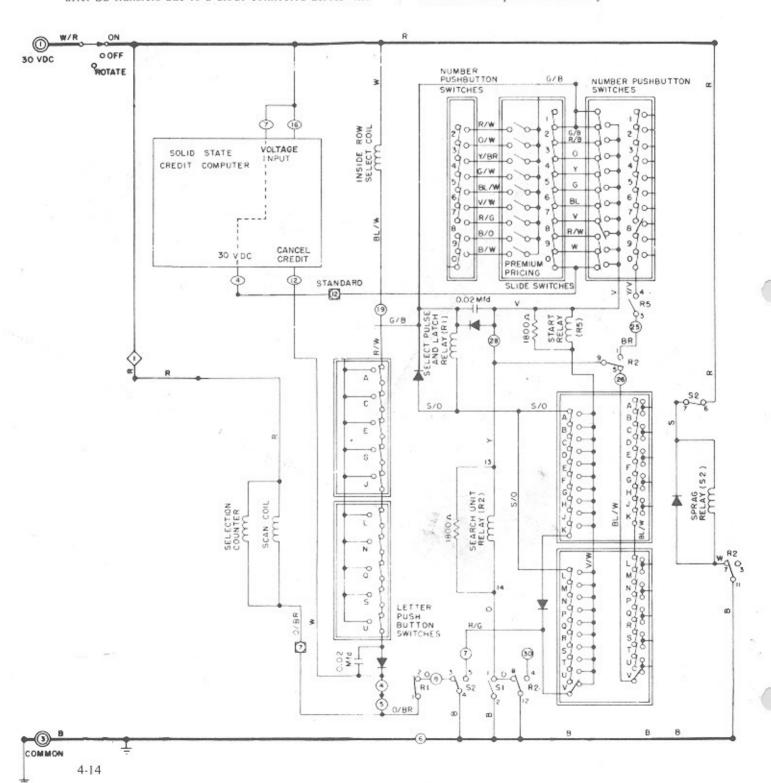
### 5. SEARCH CONTINUES

- Search unit relay R2, contacts 7 and 11, transfer the common side of the circuit from sprag relay S1 to sprag relay S2.
- Search unit relay R2, holds itself in through contacts 8 and 12.
- Search unit relay R2, contacts 5 and 9, transfer the positive side of the selection circuit from the number pushbutton switches to the letter switches.
- Sprag relay S1 drops out, contacts 3 and 4 energize search unit motor.
- When the letter wiper runs onto the UV segment on the rear of the commutator board, sprag relay S2 is energized.

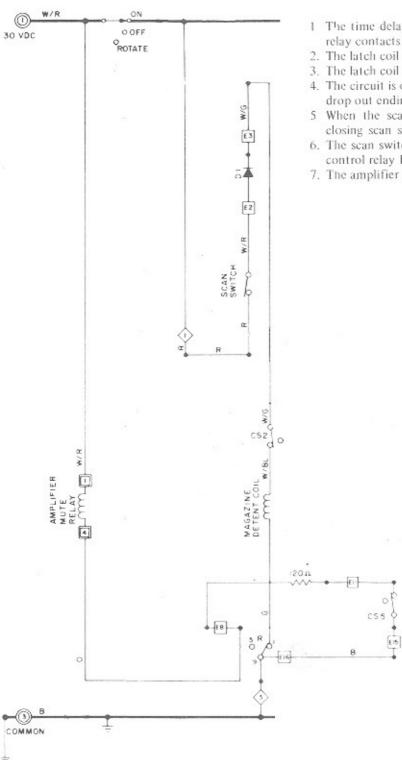


### 6. SELECTION REGISTERED, CREDIT REMOVED, AND SCAN CONTROL OPERATED

- Sprag relay S2 locks the search wipers and select coils in place with the select coils aligned with pins representing selections U8 and V8.
- Sprag relay S2, contacts 1 and 2, de-energize search unit motor.
- 3. Sprag relay S2 holds itself in through contacts 6 and 7.
- Sprag relay S2, contacts 4 and 5, transfer, opening the circuit to select and latch relay R1. Start relay R5 drops out.
- Select pulse and latch relay R1 is held for a short time after S2 transfers due to a diode connected across the
- coil. This time delay determines the length of the select pulse. During select pulse, search unit relay R2 is held closed through number pushbuttons and R2, contacts 8 and 12.
- Select pulse and latch relay R1, contacts 1 and 2, and sprag relay S2, contacts 3 and 4, complete a circuit to energize inside row select coil, scan coil, selection counter and contact 12 on credit computer circuit board. Circuit to credit computer cancels one standard credit.
- Inside row select coil pushes pin into select position on the search unit pinwheel assembly.

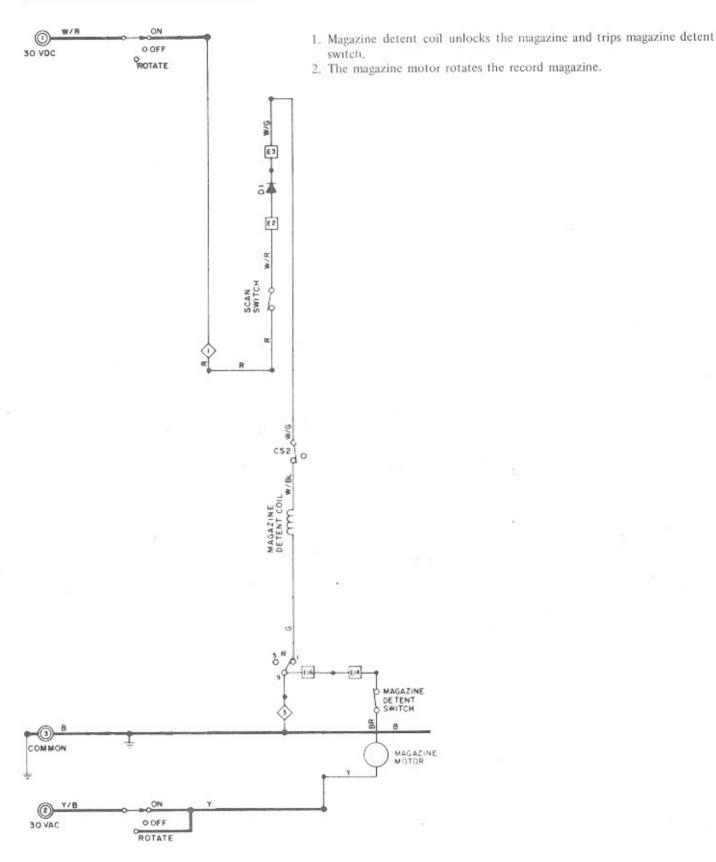


### 7. PUSHBUTTONS UNLATCH AND RECORD CHANGER STARTS

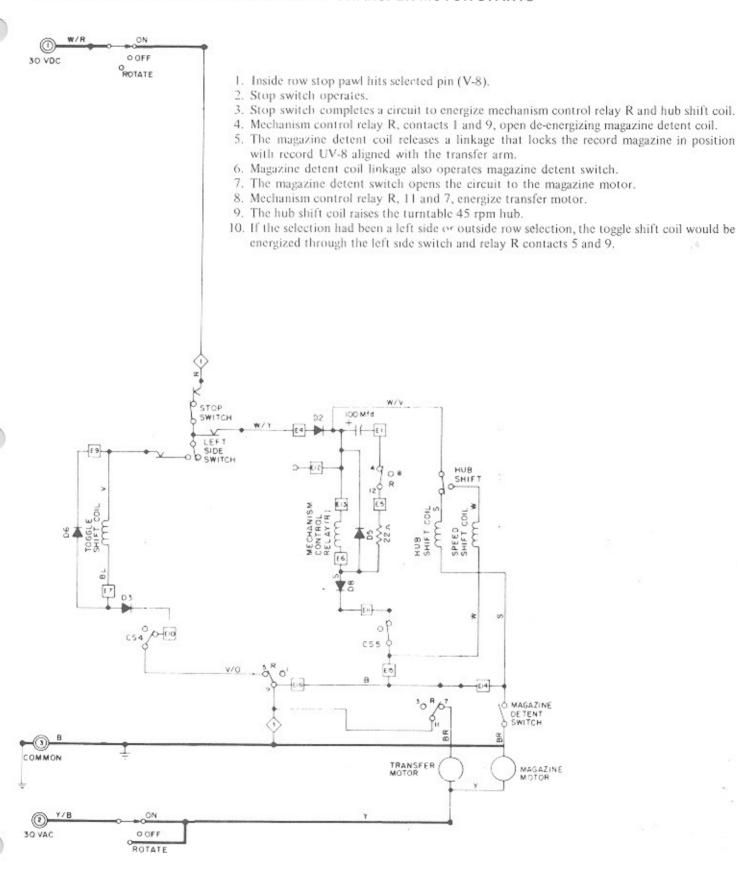


- 1 The time delay across select pulse and latch relay R1 runs out and the relay contacts transfer. This ends the select pulse.
- 2. The latch coil is de-energized.
- 3. The latch coil plunger releases pushbuttons V and 8.
- 4. The circuit is opened to search unit relay R2, sprag relay S2. The relays drop out ending the selection cycle.
- 5 When the scan coil was energized, it tripped the scan control gear, closing scan switch.
- 6. The scan switch energizes the magazine detent coil through mechanism control relay R, contacts 1 and 9.
- 7. The amplifier mute relay remains energized through cam switch CS5.

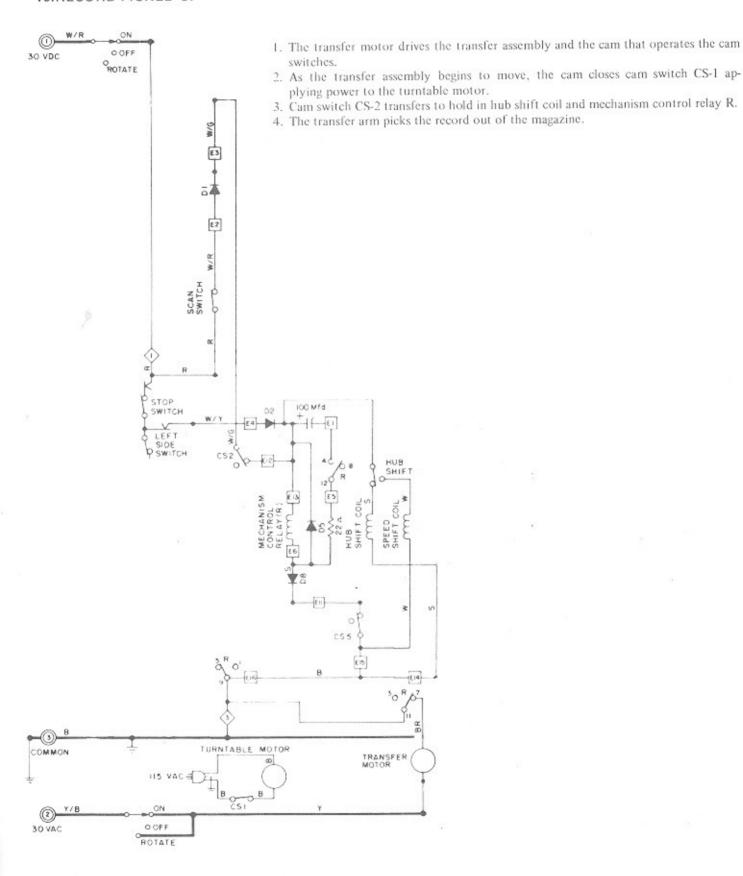
### 8. RECORD MAGAZINE ROTATES



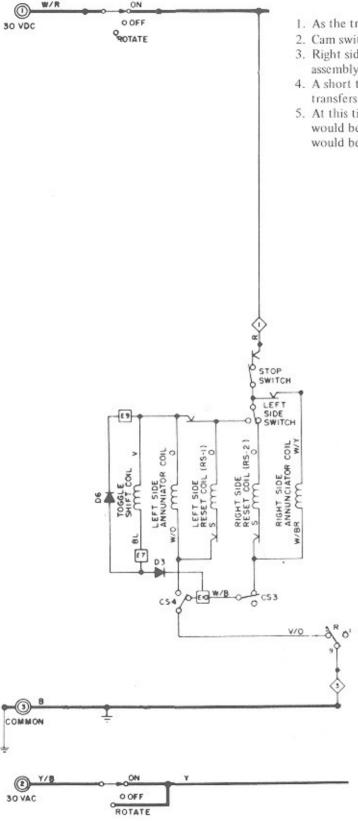
### 9. STOP SWITCH PAWL HITS SELECTED PIN-TRANSFER MOTOR STARTS



### 10.RECORD PICKED UP



### 11.RECORD APPROACHES TURNTABLE



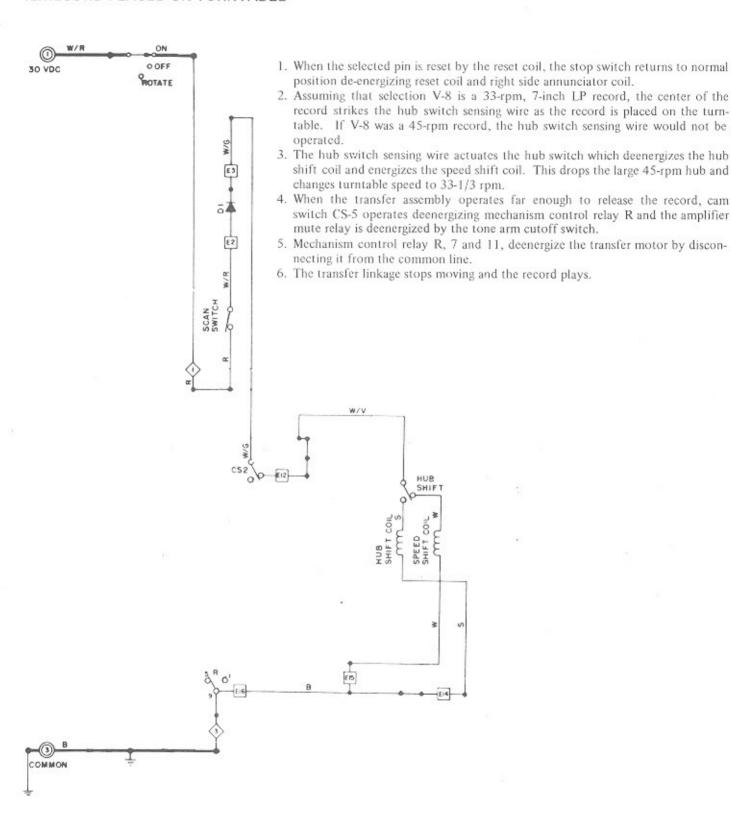
2. Cam switch CS-3 operates right side annunciator coil and right reset coil.

Right side reset coil plunger resets pin V-8 in the search unit pinwheel assembly.

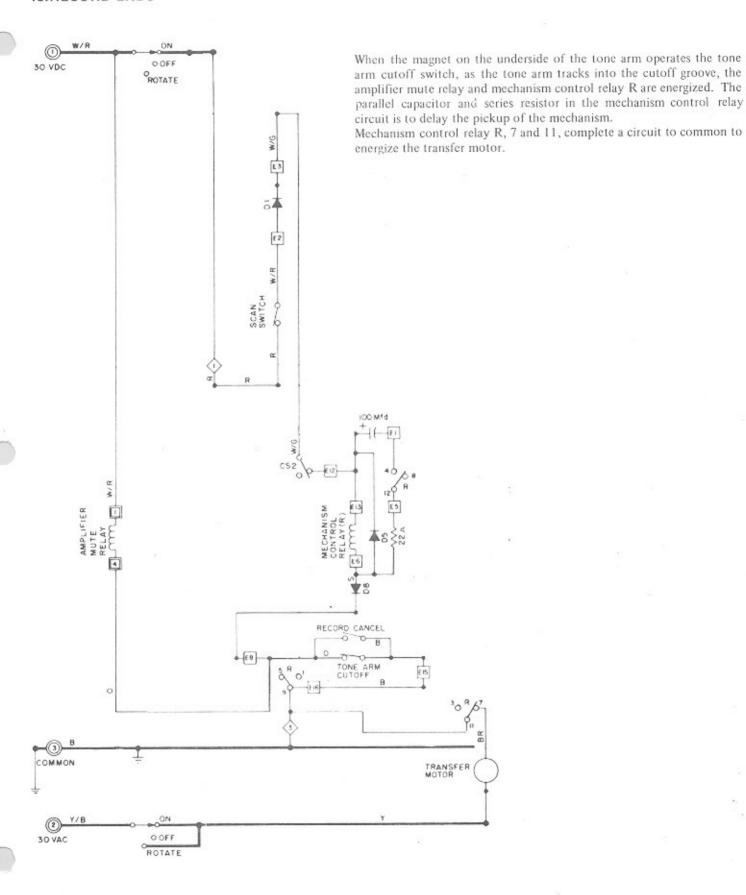
 A short time later, cam switch CS-3 opens and cam switch CS-4 transfers to the position opposite that shown.

At this time, if selection had been left hand, the toggle shift coil
would be de-energized and the left side reset and annunciator coils
would be operated by cam switch CS-4.

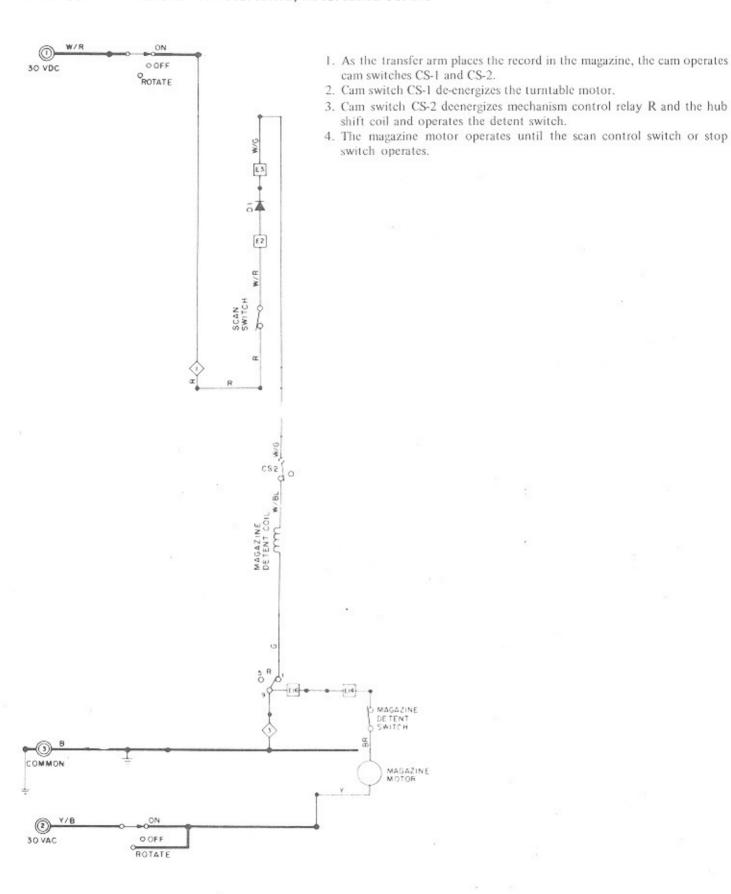
### 12. RECORD PLACED ON TURNTABLE

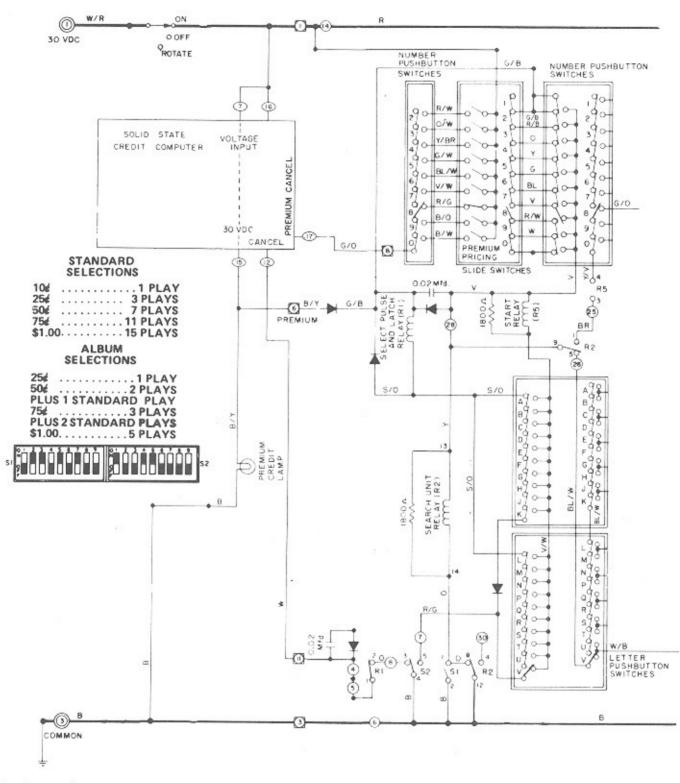


### 13.RECORD ENDS



### 14.RECORD REPLACED IN MAGAZINE, MAGAZINE SCANS





- Assume that selections 8A through 8V are all premium price. This is done by moving premium price slide switch no.8 to premium price position. Assume also that premium price has been set in the credit computer for the equivalent of three standard plays, or 25¢.
- When the customer inserts 25¢, premium credit is established in the credit computer as in sequence 2. 30 VDC appears at contact 15 rather than at contact 4.
- Premium credit lamp lights, and positive line is connected directly to select pulse and latch relay R1.
- 4. Selection occurs as in sequence 3 through 6.
- Sprag relay S2 is energized and select pulse is applied to credit computer contact 12. Premium credit cancels through premium pricing switch 8 and number pushbutton switch 8 to credit computer contact 12.

### PRINCIPLES OF OPERATION

The following paragraphs contain a brief explanation of phonograph operation. Use this text in conjunction with the trouble-shooting charts and sequence of operation diagrams to isolate and correct malfunctions.

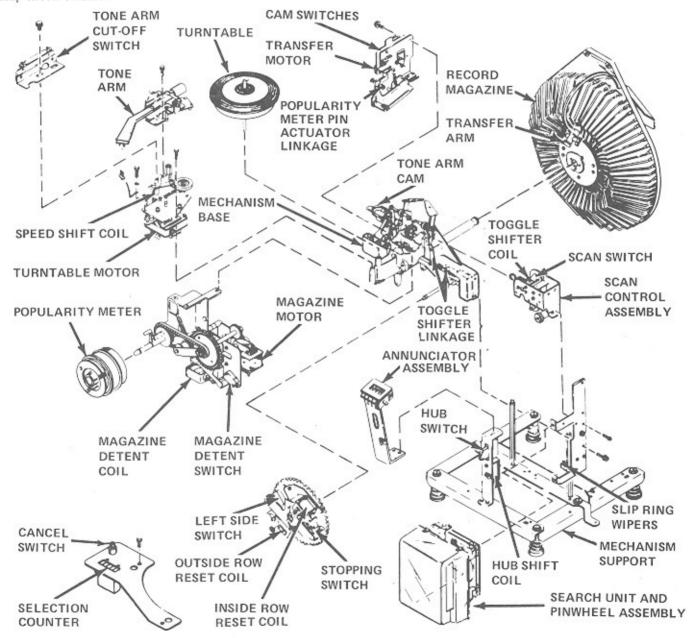
### JUNCTION BOX

The junction box distributes 120-volt power to phonograph components and supplies 30-volt ac and 30-volt dc power required for phonograph operation. Power is controlled by toggle switch S1 located on the access door at the rear of the cabinet. 120-volt electrical receptacles provide for fluorescent lighting, the turntable motor, accessories, and service equipment. The primary power circuit is protected by a 10-amp circuit breaker. Transformer primary is protected by a 2-amp circuit breaker. 30-volt ac and 30-volt dc is applied to the phonograph wiring harness through a 6-circuit receptacle. Secondary circuit is protected by a 3-amp circuit breaker.

### RECORD CHANGER MECHANISM

The record changer mechanism holds 100 records and plays selections on command from the selection system. Identification and location of each major component is shown below. The purpose and description of each component is explained in the following paragraphs.

Popularity Meter. The popularity meter indicates the number of times each record selection is played. The meter can register a total of 30 plays for each record. An integral plastic ring indicates 10 and 20 count points.



Selection Counter. The selection counter is mounted to the left of the turntable and accumulates the total number of plays on the phonograph.

Annunciator Assembly. The annunciator assembly indicates the letter and number of the selection being played. It is mounted on the annunciator bracket located on the front of the record changer mechanism. The annunciator consists of a geared letter wheel, a geared number wheel and a solenoid-operated shutter mechanism.

Magazine, Belt and Transfer Arm. The record magazine stores 100 7-inch 33 or 45 rpm records in a circular cage. A seamless belt around the cage keeps records in position when they are at the bottom of the gripper bow bracket, above the cage. The rollers permit the transfer arm to clear the belt when removing and returning records to the magazine and also maintain belt tension.

Scan Control Assembly. The scan control assembly contains a scan coil, a micro-switch and a mechanical linkage. The assembly is mounted on the search unit bracket. When the scan coil is energized, the scan switch closes and the magazine motor starts. The scan control assembly also controls the length of scanning after all selections have played.

Search Unit and Pinwheel Assembly. The search unit and pinwheel assembly is a component of the selection system. It pushes pins on a pinwheel assembly that correspond to record selections. Refer to the selection system description for a complete explanation of search unit components and operation.

Stop Switch Assembly The stop switch assembly causes the record magazine to stop at the desired selection, determines which side of the record is to be played, and starts the transfer motor. It is mounted on the right side of the record changer mechanism directly behind the search unit.

Magazine Motor and Detent Assembly. This assembly operates the record magazine and popularity meter and locks the magazine in position. It is located at the center of the record changer mechanism, directly under the record transfer arm. The magazine motor and gear box, located behind the mounting plate, rotates the gears that operate the record magazine, stop switch gear, and popularity meter drive. The solenoid operated detent assembly locks the magazine in position

Tone Arm Assembly. The tone arm assembly plays records after they are positioned on the turntable by the record transfer arm. The tone arm contains a stereo cartridge with a diamond stylus that is designed to track at four to five grams pressure. The stylus plugs into the cartridge for easy replacement. A seven-pin receptacle on the tone arm assembly mates with a plug to connect the cartridge to the preamplifier via 4-conductor shielded cable.

Turntable Motor and Plate Assembly. The turntable motor and plate assembly consists of the turntable motor and associated components necessary to rotate the turntable. The turntable motor rotates a rubber idler wheel, mounted on a spring-loaded idler arm. The idler wheel contacts the inner

rim of the record turntable. The turntable has heavy mass to reduce wow and flutter. Its upper surface is a rubberized pad to prevent records from slipping and to avoid record damage.

Automix. Automix operation enables the phonograph to play both 33 and 45 rpm records in any order. Automix components consist of a speed shift coil, a hub shift coil and a trip wire and switch on the turntable hub.

Cam Switch and Motor Assembly. (See figure 4-2)
The cam switch and motor assembly consists of the transfer motor and gear box, a switch cam, and five cam switches. A nylon cam operates cam switches CS-1 through CS-5. The function of each switch is described in Table 4-5.

SWITCH	FUNCTION
CS-1	Controls turntable motor.
CS-2	Magazine motor interlock during record transfer stops record transfer in magazine.
CS-3	Operates outside row reset coil.
CS-4	Operates toggle shift and inside row reset coil holding circuit for cancel button.
CS-5	Stops record transfer over turntable.

TABLE 4-5. CAM SWITCH FUNCTIONS

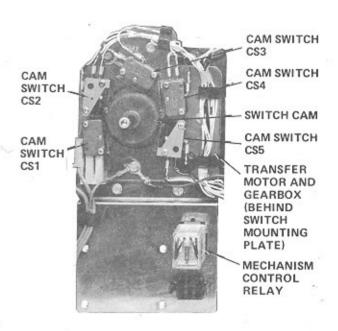


FIGURE 4-2. CAM SWITCH AND MOTOR ASSEMBLY COMPONENTS

### SELECTION SYSTEM

The selection system provides a means for the customer to choose desired selections after credit is established. The selection system consists of a selector assembly and a search unit. The purpose and description of each selection system component is explained in the following paragraphs.

Selector Assembly (See figure below) The selector assembly is located above the title panel. It contains three pushbutton switch banks, a latch coil, a select pulse and latch relay, and a start relay. The pushbutton switch banks are designed A through V (no I, no O), and I through O. Each pushbutton completes a circuit to a corresponding search unit commutator segment.

The latch coil mechanically latches the pushbutton switches until the search unit pushes a pin in the pinwheel assembly. Select pulse and latch relay R1 controls power to the latch coil. A delay in relay drop out due to a diode in parallel with the relay coil determines the length of the select pulse to the search unit. The select pulse permits the scan coil, and select coil to operate.

Start relay R5 completes the circuit to the search unit when both a number and letter pushbutton are operated. It also performs an interlock function in the number pushbutton circuit.

Search Unit. (See figure below) The search unit pushes pins that correspond to record selections. These pins are detected by the record changer mechanism stop switch pawl. The search unit is located on the record changer mechanism right side. The front side of the search unit printed circuit board represents the 10 numbers in the phonograph selection system. The rear side represents the 20 letters. The search unit motor drives search wipers, a sprag wheel, drive gears, and

select coil arm assembly. The motor is energized after the letter and number pushbuttons are latched on the selector assembly. When a selection is made, the search unit motor rotates the number and letter wipers on the circuit board. Each wiper searches the commutator board until the wiper blades find the hot segments that represent the desired selection. When the number wiper runs onto the "hot" segment, sprag relay S1 is energized. Sprag relays S1 and S2 keep the wiper assemblies from moving beyond the "hot" segments.

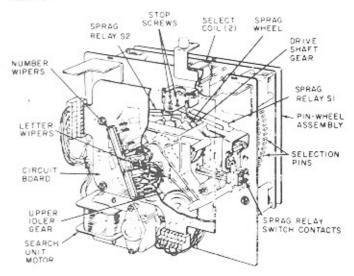


FIGURE 4-4. SEARCH UNIT MAJOR COMPONENTS

When relay S1 is energized, the large tooth at the end of the relay armature engages a notch in the sprag wheel, quickly stopping the wiper assembly. The hot side of the selection circuit is then transferred from the number side of the circuit board to the letter side by search unit relay R2.

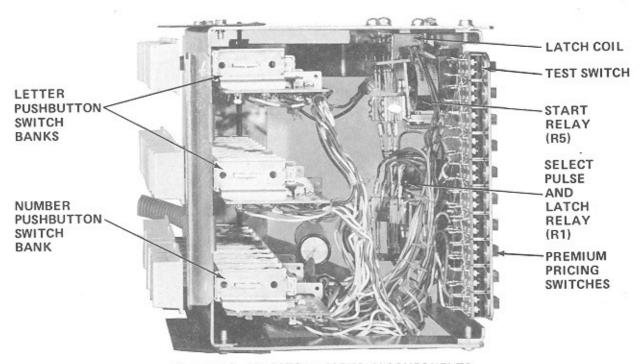


FIGURE 4-3. SELECTOR ASSEMBLY COMPONENTS

The letter wiper continues to rotate a short distance on the rear of the board. When the letter wiper runs onto the "hot" segment sprag relay S2 is energized. Relay S2 operates in a similar manner to S1, quickly stopping the letter wiper on the commutator segment. Relay S2 also de-energizes the search unit motor and energizes one of the two select coils that have been positioned by the pinwheel assembly.

The select coil plunger pushes one of the pins in the pinwheel assembly, corresponding to the chosen selection. The pinwheel assembly contains two rows of 100 1/2-inch long pins, mounted in a circular pattern. The inside row corresponds to right side selections while the outside row corresponds to left side selections. The pin is reset by a reset coil, mounted on the record changer mechanism stop switch.

The stop screws provide an adjustment of the clearance between the armature teeth of their respective sprag relays and the sprag wheel high points when the relays are deenergized.

### CREDIT AND PRICING SYSTEM

The credit and pricing system validates coins deposited in the phonograph coin slot and establishes credit for record play. The system consists of a slug rejector and coin switches, premium pricing switches, and a credit computer. The identification and location of each component is shown in figure below. The purpose and description of each major component is explained in the following paragraphs.

### CREDIT COMPUTER

The Rowe credit computer is a solid state credit system developed specifically for jukebox operation. Located on the middle of the rear wall of the phonog, ph, the credit computer accumulates credit for deposits up to 255 standard plays. There are no moving parts to wear out and no bonus relays, 2 quarter adapter, pulse chopper, 2 quarter wheel or such parts required. See 'Setting Prices' in Section 2 for additional information.

Input signals are applied to the CS (coin switch) 1, CS2, CS3, CS4, and CS5 leads of the custom MOS circuit through appropriate interface circuits. One programming switch (S1-3) within credit computer permits these input signals to be weighted 1, 2, 5, 10, 20 (i.e. nickel, dime, quarter, half dollar, dollar) or to be weighted 1, 2, 4, 8, 16 (some foreign coin ratio such as 50 pf, 1DM 2 DM.

If programming switch S1-3, is off and coin switch closure on CS3 input line occurs, credit is established which is 5 times greater than minimum coin value. (i.e. 5 pulses stored. When a switch closure occurs on CS4 credit is established which is 10 times greater than minimum coin value (i.e. 10 pulses stored) etc.

As coins are deposited in acceptable denominations and in any sequence, deposits are weighted, by connection to specific input terminals, and deposit credit is accumulated (i.e. held in escrow).

Basic price of play can be established by setting additional programming switches (S2-5, S2-6, S2-7) within computer.

Basic price of play can be set to 1, 2, 3, 4, 5, 6, 8 or 10 times the minimum coin value (MCV). When weighted for American money, price of play can be set to 5k, 10k, 15k, 20k, 25k. 30k, 40k, or 50k.

When accumulated deposit credits equal or exceed the programmed price of play, credit chip provides an output signal to light standard play credit lamp ("Make Standard Selecttion"). It also energizes the selector latch solenoid enabling phonograph selector.

When a standard selection is made by phonograph patron a "standard cancel" signal is generated which is applied to appropriate input of credit chip (through necessary interface circuit). The "Cancel" signal cancels or erases appropriate number of minimum coin value (MCV) pulses equivalent to programmed price of play. (If set for 25¢ price of play, a standard cancel signal will erase 5 MCV pulses.)

If an over deposit is made (assume 55¢ deposited by mixed coin denominations, and 25¢ standard price) a standard selection may be made, which leaves 30¢ credit held in escrow. As long as credit remaining still equals or exceeds programmed price of play, credit computer permits an additional selection to be made. If a second "standard" selection is made, 5 additional MCV pulses (25¢) are cancelled. When the remaining MCV deposit credits are less than programmed price of play, credit chip removes the latch solenoid signal and removes the signal which lit "standard credit" lamp in the phonograph. Since two standard play selections were made (totalling 10 MCV pulses) and 55¢ was deposited (totalling 11 MCV pulses) one MCV pulse (5¢) remains in storage. If additional coin deposits (nickels or dimes) accumulate an additional 20¢, these deposits and the 5¢ held in escrow will enable another "standard play" selection.

In addition to the ability to set standard price to 5¢, 10¢, 15, 20, 25, 30, 40, or 50¢ it is possible to add bonus plays at predetermined levels of deposit by setting additional programming switches (S2-8, S2-9). First bonus level may be set to 2, 3, 4, or 5 times the MCV (i.e. 10¢, 15¢. 20¢, or 25¢). When first bonus level has been programmed, a second, third, and fourth bonus level exists at 2, 3, and 4 times the level at which first bonus level occurs. For instance, when American coinage is used, the first bonus level is set to 25¢ (5MCV). This means that when 25¢ has been deposited it is possible to provide bonus plays, in addition to the standard play procedure. Since additional bonus levels are possible at 2, 3, and 4 times the first bonus level, it is possible to add bonus plays at the first bonus level (25¢), and at 50¢, 75¢ and \$1.00 accumulated deposit levels. From 0 to 3 bonus plays may be added at first (25¢) and third (75¢) bonus levels. From 0 to 7 bonus plays may be added at second (50¢) and fourth (\$1.00) bonus levels. Bonus plays are accumulated in another memory register within credit chip.

When programmed for standard play credits and bonus plays, record selection process cancels bonus plays first. When sufficient phonograph selections have been made to cancel all accumulated bonus plays, subsequent record selections erase the appropriate number of MCV pulses.

When a bonus play is provided, it is necessary to deposit sufficient coinage totaling the standard play price, before an additional standard play is added. For example, if standard price was programmed for 15¢, deposits totalling 15¢ would result in one play credit (15¢ or 3 MCV pulses stored). If one bonus play was programmed at 25¢, then patron would get one play for the first 15¢ deposit and a bonus play for inserting enough money to reach the (1st) 25¢ bonus level. Having provided a bonus at the 25¢ accrued deposit, it now requires additional coin deposits of 15¢ to receive next standard play credit. (Which would occur at 40¢ total deposit). If no bonus credit was provided at 25¢, the first 15¢ would provide a standard play and the overdeposit (10¢ extra) would remain in escrow. Insertion of an extra 5¢, would then add to the 10¢ deposit in escrow to provide a second standard play.

It is also possible to accomodate premium (album) priced records through programming switches. When selections are made which are "premium" priced, the cancel signals will erase 2, 3, 4, or 5 accumulated play credits, depending on programming switch settings. Depending on the "premium" price programmed, credit chip has a premium selection output to enable premium selections and to light premium credit lamp ("Make any Selection"). When insufficient credit exists for "Premium" price programmed, premium selections are inhibited and "Make any Selection" lamp goes out.

The Credit Computer also provides an output signal which can be used with an (accessory) item - the Print-Out Money Meter. The money pulse signals from Credit Computer occur for each deposit, and appear is a series of pulses of Minimum Coin Value (MCV). For example, when a nickel is deposited (minimum coin value) a single MCV pulse is provided to the money meter. When a dime is deposited, two (MCV) pulses occur. When a quarter is deposited, five (MCV) pulses occur. These pulses are registered by the money meter.

Slug Rejector and Coin Switches. The slug rejector takes good coins and rejects slugs and bad coins. It takes nickels, dimes, quarters and half-dollars.

The coin switches establish credit in the credit computer. They are located at the bottom of the slug rejector. They are operated by the coins as they fall into the cash box. A good coin moves the switch lever, closing the switch and completing a circuit to the credit computer board.

Premium Pricing Switches. The premium pricing switches are located on the selector assembly. Each switch represents one number selection group and may be set for premium (album) price or regular price as desired. A test switch is also provided. This switch can be used as a "free play" switch.

### SOUND SYSTEM

The phonograph sound system translates stylus vibration into electrical voltage, amplifies the voltage and the speaker converts it into sound. The sound system consists of a stylus and cartridge, a stereo preamplifier and amplifier unit, a speaker system, a volume control and an output transformer package. Identification and location of each major component is shown in figure 4-5. The purpose and description of each major component is explained in the following paragraphs.

**Stylus and Cartridge** The stylus and cartridge convert mechanical movement into equivalent electrical voltage. The unit is mounted on the record changer tone arm. This output voltage is transmitted through shielded cable to the preamplifier.

Preamplifier and Amplifier (See page 4-29). The preamplifier units amplify phonograph cartridge output and drive the speaker system. The latest concepts in silicon transistor circuitry are designed into the 64-watt stereo system. It delivers a full 32 watts rms power per channel. Its wide frequency response and low distortion assure good record reproduction. The unit incorporates automatic volume control (AVC) and automatic quality control (AQC).

The output stage is coupled to the speakers. Treble range and bass boost controls are provided on the preamplifier chassis to compensate for differences in room acoustics. A mute relay silences the amplifier while a record is being transferred to or from the turntable. Preamplifier circuitry is completely solid state for durability and long service life.

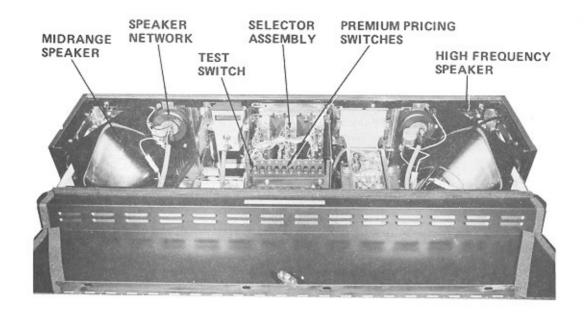
Protection is included for voltage transients, excessive heat and accidental shorting of speaker leads.

Preamplifier. The preamplifier board is the same for both the 64 and 120 watt amplifiers. It is a component part mounted on the power amplifier.

The preamplifier amplifies the phonograph cartridge ac output voltage to drive the power amplifier. The preamplifier consists of two identical, independent audio channels. Right channel component designations end in the letter R, while left channel components end in the letter L. Treble range and bass boost controls are provided to enable adjustment of frequency contour. All components are mounted on a single printed circuit board.

64 Watt Amplifier. The 64 watt power amplifier features Darlington output stages and a fully regulated and surge protected power supply. Driver boards, one for each channel, plug in for ease of replacement and are completely interchangeable between channels or in other 64 watt amplifiers.

Integrated circuit Z2 regulates the 24 volts supplied to the preamplifier board. The input signal from the pre-amplifier is coupled through R28, C18, and C17 to differential amplifier 97. Transistors Q5 and Q6 are connected as regulators to arrest any input signal in excess of 5 volts. Resistor R28 protects Q5 and Q6.



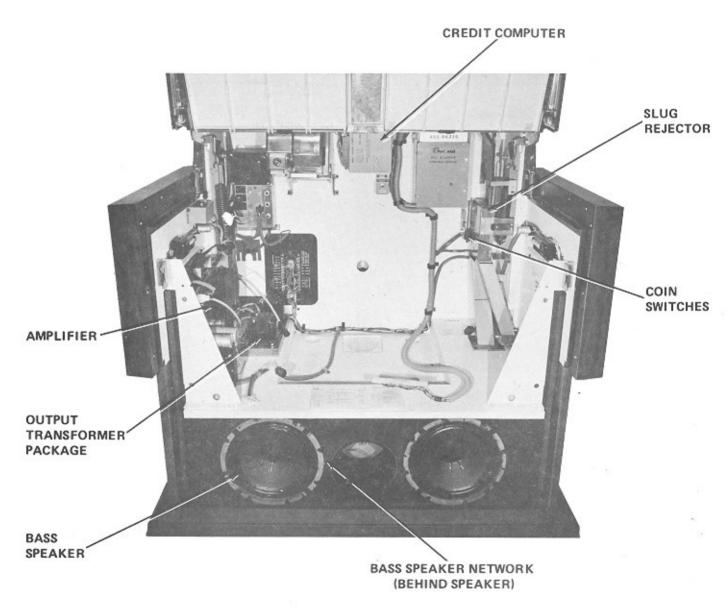


FIGURE 4-5. CREDIT SYSTEM AND SOUND SYSTEM COMPONENTS

Differential amplifier Q7 provides drive to driver transistor Q8 and sets the D.C. voltage at the output to zero enabling the amplifier to be coupled directly to the speakers.

Transistor Q8 functions as a high gain, common emitter driver with transistor Q9 performing as a current limiting device. Transistor Q8 handles the full load voltage swing to the output transistors but is isolated by resistors R11 and R19. These resistors protect Q8 in the event of an output transistor failure.

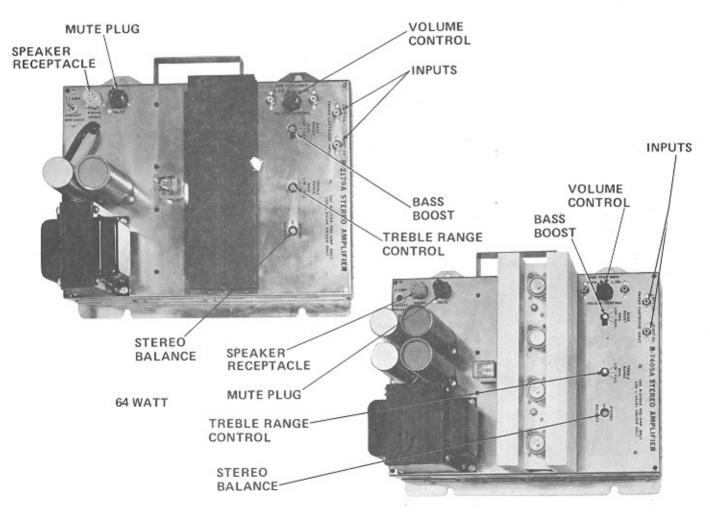
Capacitor C8 and resistor R21 provide A.C. feedback to differential amplifier Q7 from transistor Q8. Resistors R20 and R21 provide both A.C. and D.C. feedback to Q7 from the output signal delivered to the load, achieving maximum stability under all load conditions. Resistor R20 provides isolation between the driver A.C. feedback and the output load. To reduce turntable rumble, capacitors C17 and C18, and resistor R27 form a bandpass filter which attenuates signals below 50 Hz.

Power output devices Q1 and Q2 are mounted on a heat sink. These complementary darlington devices, although more reliable than conventional designs are fused to prevent damage to driver board components. See page 5-29 for troubleshooting and replacement data on these devices.

Resistor R19 and regulator Z1 maintain the output transistors in class AB mode.

Driver board transistor Q4 is part of the positive clamp circuit. Output device Q1 draws current through resistor R2. Driver board transistor Q4 drops the base of output device Q1 to below R2, limiting current to a safe valve. Driver board transistor Q3 acts on the negative signal component in the same manner as positive clamp Q4.

Output Transformer Package (See figure 4-7). The transformer package enables the amplifier to operate 70-volt speaker lines for extension speakers, and provides Rowe/AMI Stereo Sound. The package consists of two output transformers, a power level control, and associated parts, mounted on a single chassis. The chassis sits on the floor of the cabinet, left of the mechanism. The unit is electrically connected between the amplifier and speaker system. Output transformer secondary connections are brought out to terminal strips to allow operation with low-impedance extension speakers. A 6-position switch, at the center of the chassis, controls phonograph speaker level relative to extension speaker level.



120 WATT

Speaker System. The speaker system consists of two 10inch low frequency speakers, two 6-inch mid-range speakers, two 3-inch tweeters for high frequencies, and coupling capacitors.

The 10-inch, heavy duty speakers are mounted in a ducttuned enclosure at the bottom of the cabinet. The 6-inch mid-range speakers and the 3-inch tweeters are mounted at the top of the cabinet.

Two-Wire Volume Control. A Rowe/AMI first, the two-wire volume control simplifies large, complex installations and saves cost. Redesigned preamplifier circuitry permits remote volume control operation using two unshielded wires. Any wires can be used - there are no special requirements for conductor size or shielding.

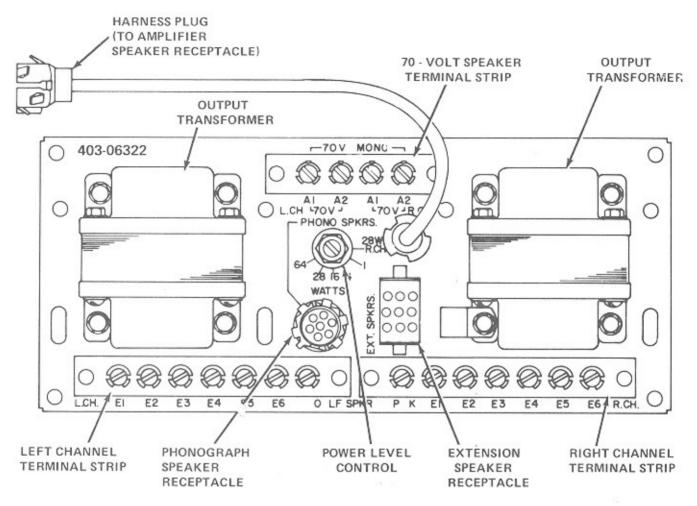


FIGURE 4-7. OUTPUT TRANSFORMER ACCESSORY PACKAGE

Pour Pour

Parts Catalog

Model R-74



Rowe international, inc.

A SUBSIDIARY OF TRIMINGLE INDUSTRIES, INC 75 TROY HILLS RD., WHIPPANY, N.J. 07981, TEL (201) 887-0400, CABLE: ROVENS

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15	Stop Switch Assembly	7-40	
16	Sprag Assembly (Magazine Motor)	7-42	
17	Cable and Annunciator Assembly	7-43	
18	Scan Control Assembly	7-44	
19	Output Transformer Package Assembly	7-45	
20	Junction Box Assembly	7-46	
21	Burglar Alarm	7-47	
22	Harness and Console Assembly	7-48	
23	Shell Assembly	7-48	

STANDARD HARDWARE LIST

#### SECTION 7-PARTS CATALOG

#### INTRODUCTION

This parts catalog lists procurable replacement parts for the R-74 phonograph.

The purpose of this parts catalog is to locate and identify replacable components and to supply ordering information.

#### DESCRIPTION

The parts catalog is divided into 23 major assemblies called "FIGURES" corresponding to the illustrations used. In some instances major assemblies require more than one illustration to identify the procurable parts. In this case sheet numbers are assigned to the figure, i.e. Figure 1, Sheet 1, Figure 1, Sheet 2.

Parts of riveted or welded units are not listed since repair of these parts is normally impractical in the field, however these parts are available as assemblies.

Standard hardware is indicated on each illustration by code letters which are defined in the Standard Hardware List at the rear of the catalog.

To be sure that this parts catalog contained the latest information, last minute revisions were made. In these instances the additions were added in sequence with a letter added to the identification numbers both in the parts list and corresponding illustration i.e. a A, I B, IC.

The Parts List contains four columns:

- Items are listed for reference purposes only.
- The assembly listed has all piece parts indexed below.
- The item listed is an alternate part.
- Two or more assemblies are listed together in one illustration and the same parts are used but in different quantities.

ROWE Part No. - This column lists the part number of the item which should be specified for ordering purposes.

Description - This column contains a brief word description of the assembly or part. Each item is indented to show its proper relationship to the unit of which it is a part or to its next higher assembly.

Qty Per Assy - This column contains the quantity of the part used in the assembly. When a figure covers more than one model of an assembly, the "Qty Per Assy" column is divided to show each model.

#### ORDERING REPLACEMENT PARTS

All replacement parts must be ordered directly from an authorized ROWE Distributor.

Once the replacement item is determined, complete a standard parts order form available from your ROWE distributor at no charge. Very often parts orders are delayed, because of inadequate or incomplete information. To insure prompt parts delivery always specify the following information:

- Part Number and Description. State color if applicable.
- Quantity required.
- Model and Serial Number of machine for chich the repair part is needed.
- Complete shipping address including ZIP code.
- Shipping Instructions must be specified. If the shipping method selected is Parcel Post, Air Parcel Post, United Parcel Service or Air UPS, indicate an alternate shipping method if there is a possibility the packages may exceed the size and weight limits established by these services. If you would like ROWE to select the best way to ship your parts order, specify "BEST WAY". If fastest delivery is the requirement, specify "FASTEST WAY". ROWE will select the carrier for those orders which justify shipment by truck.

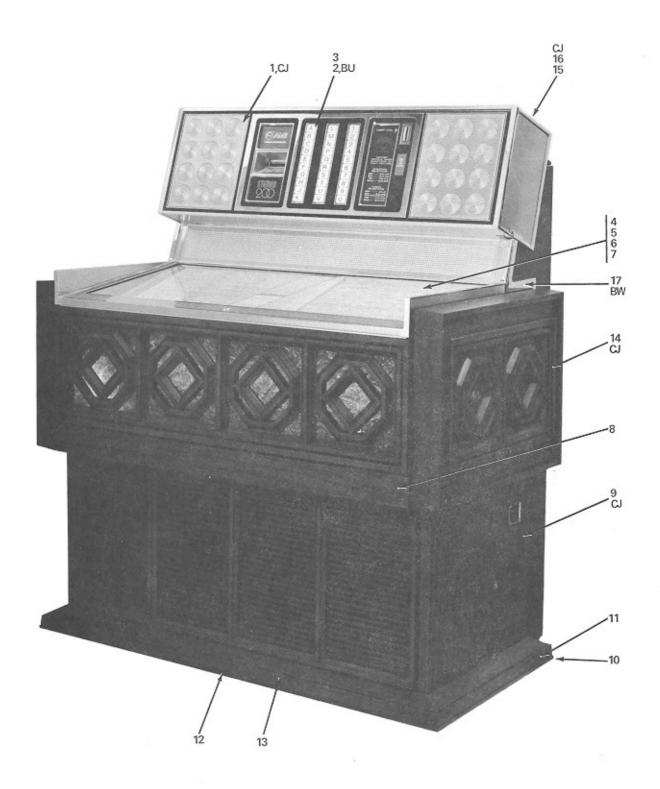


FIG. AND INDEX	ROWE PART NO.	DESCRIPTION	QTY. PER ASSY
NO.		Phonograph Final Assembly, Model R-74, Wood Style (Classic)	
1-	602-07500	Phonograph Final Assembly, Model R-74, Blue Style (Arlington) Phonograph Final Assembly, Model R-74, Red Style (Export Only)	
1-	204-17305	. Accessories Bag Assembly containing	1
		. Solder Socket Contact, Mate-N-Lok	1
		Solder Pin Contact, Mate-N-Lok	1
	716-00913		10
		Pin Contact	1
	711-00926	Socket Contact	1
		Universal Connector Pin Contact	1
	702-00975		2
	707-00720	2 Amp Cartridge Fuse 1/4 Amp Cartridge Fuse (Used on Credit Computer)	1
	301-07442	Panel, Decorative (Covers Bill Acceptor Openings When No B.A. Is Used)	1
	201-17557	. Retainer, Insert (To Retain Decorative Panel Above)	1
	301-07528	. Universal Price Card Kit	1
	201-17536	. Price Card, 2/25¢	1
1	601-07587	. Selector And Speaker Panel Assembly (See Fig. 2)	1
2		. Selector Assembly (See Figure 3)	1
2 3 4 5	201-17501		1
4		. Top Door Assembly (See Figure 4)	1
5		Pin, Hinge	2 2
6		. Ring, Retaining . Ring, Retaining	2
8	601-07592	Front Door Assembly, Wood Style (See Figure 5)	1
8		. Front Door Assembly, Blue Style (See Figure 5)	1
8		. Front Door Assembly, Red Style (See Figure 5)	1
9		. Overlay, Side Panel, R.H.	1
	401-06845	. Overlay, Side Panel, L.H.	1
10		. Strap, Protective, Side	2 2
11		. Kickrail, Side	2
12	301-07479	. Strap, Protective, Front	1
13		. Kickrail, Front . Side Panel Assembly, Wood Style, L.H. (See Figure 6)	1
14		Side Panel Assembly, Wood Style, R.H. (See Figure 6)	î
14	602-07668		î
14		Side Panel Assembly, Blue Style, R.H. (See Figure 6)	1
14	603-07668		1
- //	603-07669	, Side Panel Assembly, Red Style, R.H. (See Figure 6)	1
15	601-07591	. Top Access Door Assembly (See Figure 7)	1
16	201-15768	. Clamp, Hinge	1
17		. Trim, Side, Door, R.H.	1
	401-06800	. Trim, Side, Door, L.H.	1



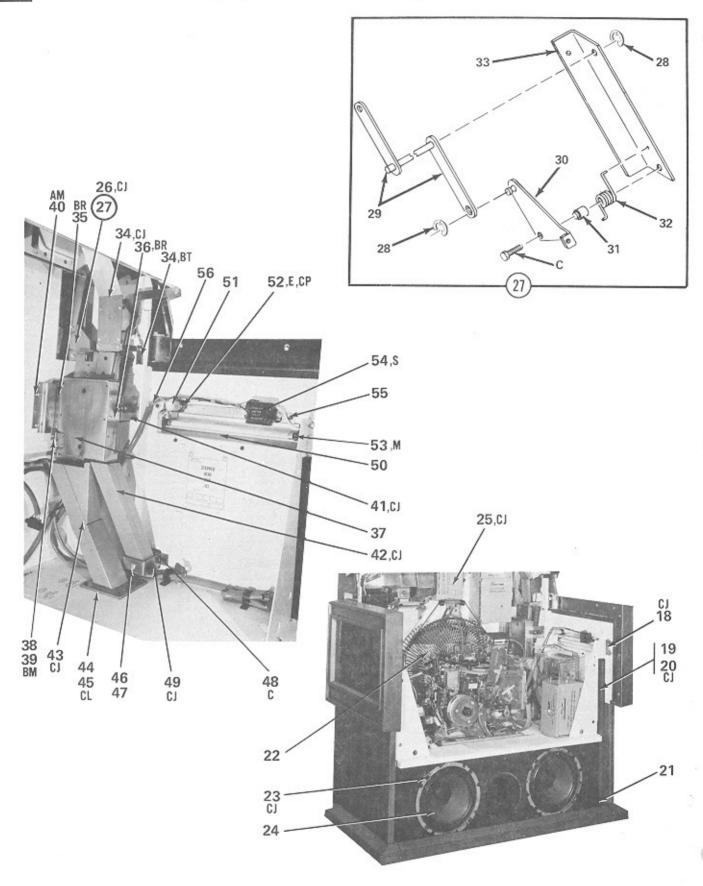


FIG. AND INDEX NO. DESCRIPTION	QTY PER ASSY
1. 601-07500 Phonograph Final Assembly, Model R74, Wood Style (Clater	ngton) ort Only)  2 2 2 2 2 1



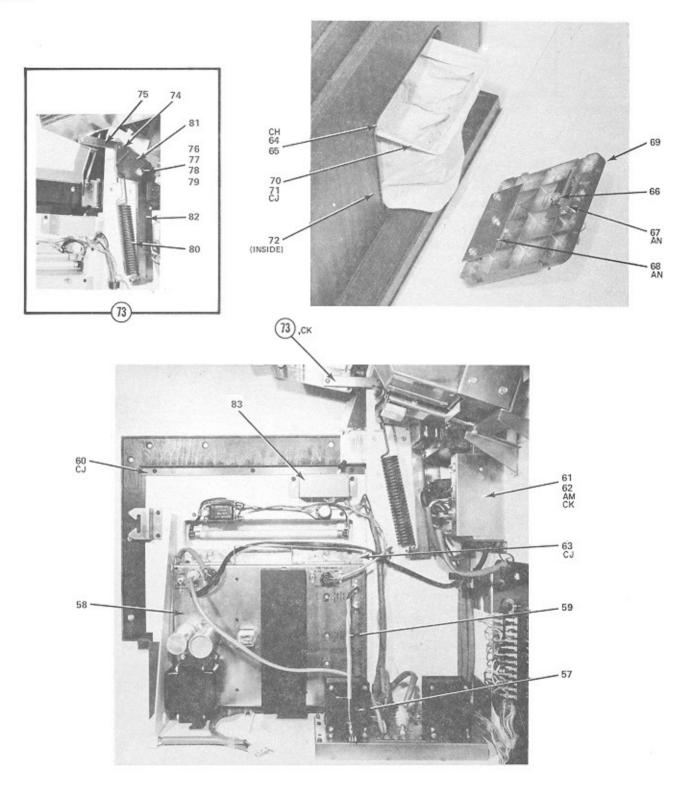
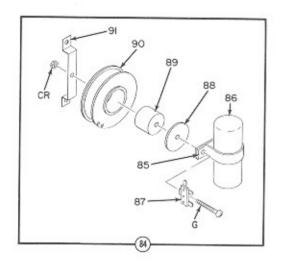
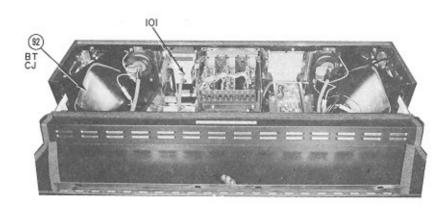
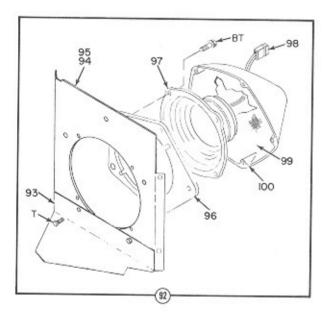


FIG. AND INDEX NO.	ROWE PART NO.	DESCRIPTION	QTY. PER ASSY
1- 1- 57 57 58 58 58 60 61 62 63 64 65 66 67 68 69	602-07500 603-07500 603-07500 602-02182 601-07406 403-06322 401-06336 601-02179 601-07405 602-03758 601-02193 601-07404 203-09257 201-17570 401-06703 200-9256 401-02426 414-05276 200-11449 210-11866 716-01600 200-06695 200-07703	Phonograph Final Assembly, Model R-74, Wood Style (Classic) (Continued) Phonograph Final Assembly, Model R-74, Blue Style (Arlington) Phonograph Final Assembly, Model R-74, Red Style (Export Only) Stereo Amplifier And Transformer Assembly, 64W Stereo Amplifier And Transformer Assembly, 120W Output Transformer Assembly, 120W (See Figure 19) Output Transformer Assembly, 120W (See Figure 19) Stereo Amplifier Assembly, 64W Stereo Amplifier Assembly, 120W Pre-Amplifier Assembly (See Schematic, page 6-6, for parts) Power Amplifier Assembly, 64W (See Schematic, page 6-7, for parts) Power Amplifier Assembly, 120W (See Schematic, page 6-8, for parts) Tone Arm Cable And Plug Assembly (Mech. To Amplifier) Rail, Support, Top Door Junction Box Assembly (See Figure 20) Bracket, Junction Box Assembly Mounting Mounting Bracket Assembly, Amplifier Frame, Cash Box Door Clip, Speed, "U" Type Cash Box Door Assembly Lock, Cylinder Support, Lock Bracket, Catch Door, Cash Box	
71 72 73 73 73 74 75 76 77 78 79 80 81 81 82 82 82	301-07026 402-06495 206-13723 200-13991 504-04450 301-07419 301-07420 710-01430 201-15691 204-13578 200-13900 708-01214 719-01208 301-07421 201-15672 201-15673 301-06988 301-06989	Bag, Cash Support, Cash Bag Burglar Alarm Kit Power Pack, Alarm Burglar Alarm Assembly (See Figure 21) Spring Assembly, L.H. Spring Assembly, R.H. Ring, Retaining Link And Pin Assembly Nut, Elastic Stop Pin, Lever Washer Washer	OPT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1









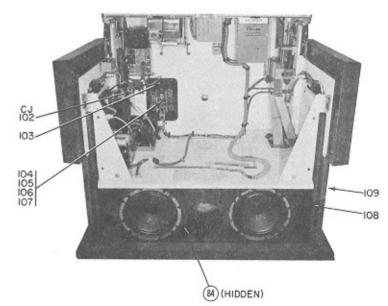


FIG. AND INDEX NO.	ROWE PART NO.	DESCRIPTION	QTY PER ASSY
1-		Phonograph Final Assembly, Model R-74, Wood Style (Classic) (Continued)	-
1- 1-		Phonograph Final Assembly, Model R-74, Blue Style (Arlington)	
84		Phonograph Final Assembly, Model R-74, Red Style (Export Only) . Speaker Network Assembly	1
85		. Clamp, Cable	1
86		. Capacitor, Electrolytic, 68 MFD, 50V	1
87		. Strip, Terminal	i
88		. Washer, Flat	î
89	710-01211		î
90		Inductor, 10 mH	1
91	200-09297	Bracket, Mounting	1
92		. Speaker Assembly, L.H.	1
92		. Speaker Assembly, R.H.	1
93		Block, Light and Sound, L.H.	1
93		Block, Light and Sound, R.H.	1
		Bracket, Speaker Mounting, L.H.	1
		Bracket, Speaker Mounting, R.H.	1
95	208-03709		4
96 97		Gasket, Speaker	1
98		. Speaker, Mid/High Frequency . Housing, Pin, Mate-N-Lok (2 Circuit)	1
99	200-12445	. Pad, Acoustical	2
100		. Cover, Speaker	1
101		. Lamp, Pilot (Credit Lights)	2
102		. Cover, Cord Hole	í
103		. Plug and Switch Assembly	î
4.55		Cord and Switch Assembly	i
		Housing, Pin, Mate-N-Lok	i
104		. Knob, Volume Control	1
105	200-02649		1
106	201-13935	. Volume Control and Terminal Assembly	1
107		. Volume Control Harness Assembly	1
	702-00934	. Clamp, Cable, 13/16" Dia.	11
		. Clamp, Cable, 3/16" Dia.	1
	703-00931	. Clamp, Cable, 1/4" Dia.	2 2 5 6
	704-00931	. Clamp, Cable, 5/16" Dia.	2
		. Clamp, Cable, 3/8" Dia.	5
		. Clamp, Cable, 1/2" Dia.	
100		. Clamp, Cable, 9/16" Dia.	3
108 109		. Acoustical Pad	1
109	001-07330	. Shell Assembly (See Figure 23)	1

## Selector and Speaker Panel Assembly

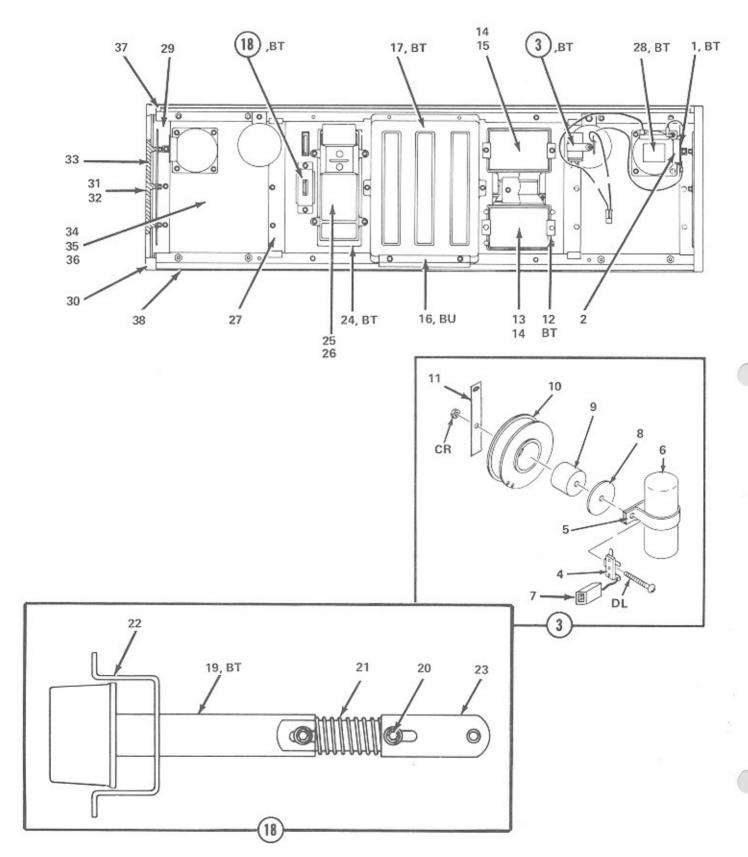
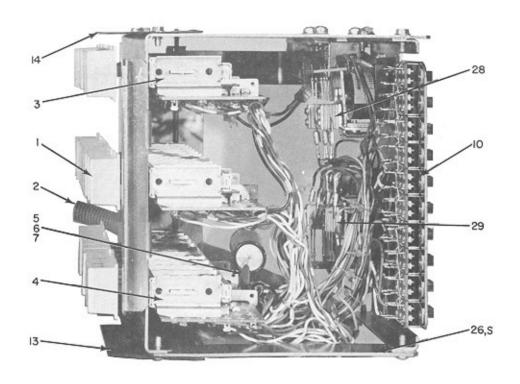


FIG. AND INDEX NO.	ROWE PART NO.	DESCRIPTION	QTY. PER ASSY
2-	601-07587	Selector and Speaker Panel Assembly (Figure 1, Item 1)	REF
-		. Speaker Capacitor Assembly	2
1	200-14952	Strip, Terminal	1
2	200-11455	. Capacitor, Speaker, 2.5 MFD, 50V (Midwec Type M3-240)	2
	301-07485	. Speaker Network Assembly	1
4		Strip, Terminal	i
5		Clamp, Cable Capacitor, AC Electrolytic, 12.5 MFD, 50V	i
7		. Housing, Pin, Mate-N-Lok, 2 Circuit	1
8		. Washer, Flat	1
9	710-01211		1
10	201-17614	Inductor, 10 mH	1
11	201-17585	Strap, Mounting, Cross-Over Network	1
12	201-17594	. Retainer	4
13	201-17510	. Panel, Product Identification	1
14	201-17509	. Window, Legend ("B" Glass, Double Strength, 4"x2-3/4"x.115/133 Thk.)	2
15		Panel, Stereo	1
16	201-17504		1
17		. Selector Panel Insert Assembly	i
18		. Shaft and Stop Assembly . Button and Shaft Assembly	i
19 20	202-09225		2
21	200-14408	. Spring, Compression	1
22	301-07411	. Bracket, Stop	1
23	201-17564	Shaft and Pin Assembly	1
24	601-07673	. Light Housing	1
25	201-17581	Background, Price Card	1
26	301-07412	. Window Price Card ("B" Glass, Double Strength, 7-7/8"x2-7/8"x.115/.133 Thk.)	1
27		. Selector-Coin Insert Assembly	1
28		. Speaker, High Frequency	2 2
29		. Bracket, Trim	1
30		. Retainer, Top Panel, L.H.	1
21		Retainer, Top Panel, R.H.	2
31 32		. Grille, Side . Backing, Grille, Side	2
33		. Trim, Side Speaker, R.H.	1
33	601-07562	Trim, Side Speaker, L.H.	1
34	601-07570	. Grille, Front	2
35	301-07483	. Backing, Grille, Front	2 2 2
36	401-07561	. Trim, Front Speaker	
37		. Bar, Trim, Upper	1
38		. Bar, Trim, Lower	1

## Selector Assembly



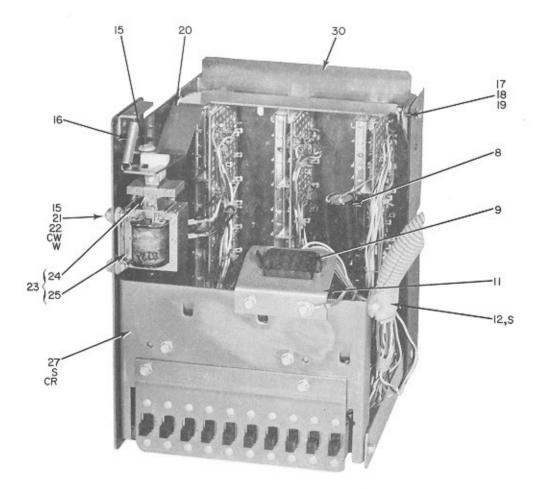
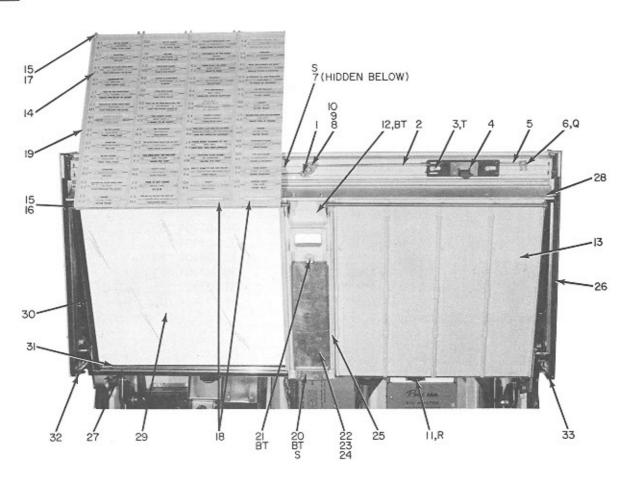
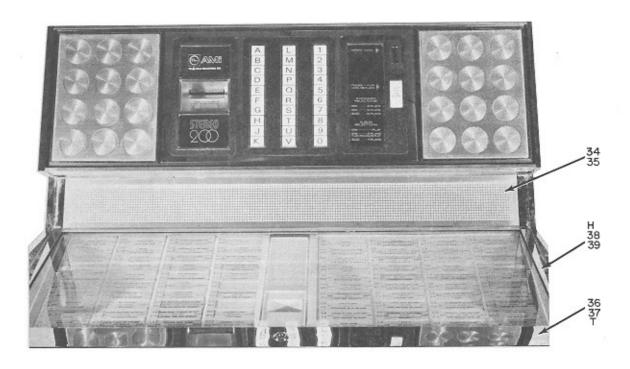


FIG. AND INDEX NO.	ROWE PART NO.	DE	SCRIPTION	QTY PER ASS
3-		Selector Assembly (Figure 1, Item 2)		REF
1 e	ach	The Following Pushbuttons:	Tarana and the same and the sam	
	301-07403		301-07404 "1"	
	302-07403		302-07404 "2"	
	303-07403		303-07404 "3"	
	304-07403		304-07404 "4"	
	305-07403		305-07404 "5"	
	316-07403		306-07404 "6"	
	307-07403		307-07404 "7"	
	308-07403		308-07404 "8"	
	310-07403		310-07404 "9"	
2	311-07403		311-07404 "0"	1
2		. Harness and Switch Assembly		1
2		Edge Connector, 30 Contact Letter Pushbutton Switch		2
3		Number Pushbutton Switch		1
5		. Diode, Silicon (IN 4002)		5
6		. Capacitor, Ceramic Disc, 0.02 MFD, 50	nOV	2
7		. Resistor, Carbon, 1.8K, 1/2W	•	1
8		Capacitor, Electrolytic, 5 MFD, 400V (	Cornell Dubilier No.BRNP5-400)	1
9		Socket, Housing, Mate-N-Lok, 12 Circui		1
10		Slide Switch Assembly	33	1
11		. Mounting Bracket		1
12		. Cable Clamp		1
13		. Selector Light Block		1
14		. Selector Light Block		1
15		. Grommet		5
16	200-10836	. Tension Spring		1
17		. Retaining Ring		2
18	724-01206	. Flat Washer		1
19	201-17502			1
20		. Latch Actuating Lever		1
21		. Elastic Stop Nut, No. 6-32		4
22		. Grommet Bushing		4
23		. Solenoid and Push Rod Assembly		1
24		Push Rod		1
25		AC Solenoid		1
26	201-17500			1
27		. Selector Back		1
28		Start Relay (R5)		1
29 30		Select Pulse and Latch Relay (R1)     Selector Riveted Assembly		1
30	001-07337	. Selector Rivered Assembly		1

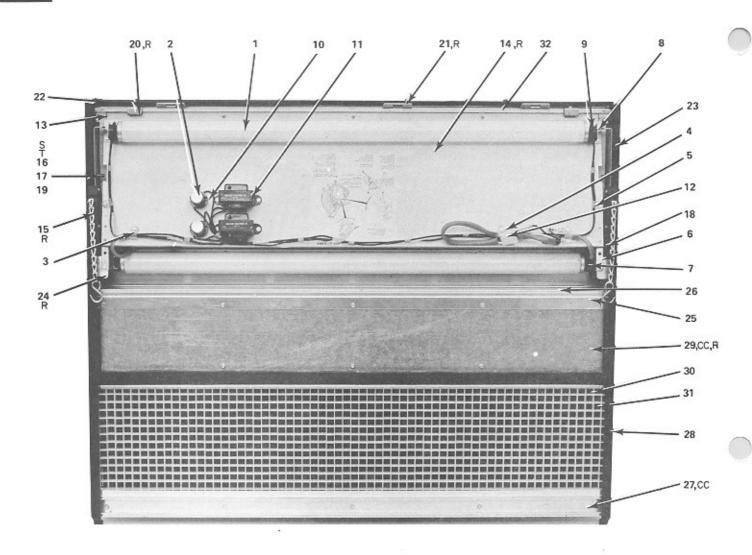
#### Top Door Assembly





4- 601-07589 Top Door Assembly (Figure 1, Item 4) 1 703-01430 . Ring Retainer 2 201-17513 . Link, Lock Bar 3 202-09225 . Spacer 4 201-17515 . Lock Bar Assembly, R.H. 201-17514 . Lock Bar Assembly, L.H. 5 200-12562 . Spring 6 201-15674 . Retainer, Spring 7 201-15732 . Guide 8 201-14228 . Lock Bolt Assembly 9 706-01209 . Washer 10 719-01630 . Lock, Cylinder Type, Common Keying 11 201-17517 . Pivot Bracket and Spring Assembly 12 201-17517 . Pivot Bracket and Spring Assembly 13 401-06821 . Title Panel Assembly, R.H. 401-06820 . Title Panel Assembly, R.H. 401-06820 . Title Panel Assembly, L.H. 14 301-07422 . Number Strip, Al to F2 (on 401-06820) 303-07422 . Number Strip, S1 on M3 (on 401-06820) 303-07422 . Number Strip, S2 to M3 (on 401-06820) 304-07422 . Number Strip, S3 to W5 (on 401-06820) 305-07422 . Number Strip, S4 to W5 (on 401-06820) 305-07422 . Number Strip, S6 to M6 (on 401-06821) 306-07422 . Number Strip, B7 to B8 (on 401-06821) 306-07422 . Number Strip, B7 to B9 (on 401-06821) 306-07422 . Number Strip, B7 to B8 (on 401-06821) 307-07422 . Number Strip, B7 to B8 (on 401-06821) 308-07422 . Number Strip, B7 to B8 (on 401-06821) 308-07422 . Number Strip, B8 to W5 (on 401-06821) 308-07422 . Number Strip, B8 to W5 (on 401-06821) 308-07422 . Number Strip, B8 to W6 (on 401-06821) 308-07422 . Number Strip, B8 to W6 (on 401-06821) 308-07422 . Number Strip, B8 to W6 (on 401-06821) 308-07422 . Number Strip, B8 to W6 (on 401-06821) 308-07422 . Number Strip, B8 to W6 (on 401-06821) 308-07422 . Number Strip, B8 to W6 (on 401-06821) 308-07422 . Number Strip, B8 to W6 (on 401-06821) 308-07422 . Number Strip, B8 to W6 (on 401-06821) 308-07422 . Number Strip, B8 to W6 (on 401-06821) 308-07422 . Number Strip, B8 to W6 (on 401-06821) 308-07422 . Number Strip, B8 to W6 (on 401-06821) 308-07422 . Number Strip, B8 to W6 (on 401-06821) 308-07422 . Number Strip, B8 to W6 (on 401-06821) 308-07422 . Number Strip, B8 to W6 (on 401-06821) 308-07422 . Number Strip, B8 to W6 (on 401-06821) 308-07422 . Number Strip, B8 to W6 (on 401-0682	REF 2 2 4 1 1 2 2
2 201-17534 . Link. Lock Bar 3 202-09225 . Spacer 4 201-17515 . Lock Bar Assembly, R.H. 201-17514 . Lock Bar Assembly, L.H. 5 200-12562 . Spring 6 201-15674 . Retainer, Spring 7 201-17532 . Guide 8 201-14228 . Lock Bolt Assembly 9 706-01209 . Washer 10 719-01630 . Lock, Cylinder Type, Common Keying 11 201-17518 . Catch, Spring, Title Panel 12 201-17517 . Pivot Bracket and Spring Assembly 13 401-06821 . Title Panel Assembly, R.H. 401-06820 . Title Panel Assembly, L.H. 14 301-07422 . Number Strip, Al to F2 (on 401-06820) 302-07422 . Number Strip, N3 to R4 (on 401-06820) 303-07422 . Number Strip, S4 to V5 (on 401-06820) 304-07422 . Number Strip, S4 to V5 (on 401-06821) 306-07422 . Number Strip, B4 to D7 (on 401-06821) 306-07422 . Number Strip, B7 to H8 (on 401-06821) 306-07422 . Number Strip, B7 to H8 (on 401-06821) 307-07422 . Number Strip, B7 to P9 (on 401-06821) 308-07422 . Number Strip, B8 to P9 (on 401-06821) 308-07422 . Number Strip, D9 to Y0 (on 401-06821) 308-07422 . Number Strip, D9 to Y0 (on 401-06821) 308-07422 . Number Strip, B8 to P9 (on 401-06821) 308-07422 . Number Strip, B8 to P9 (on 401-06821) 308-07422 . Number Strip, B to P9 (on 401-06821) 308-07422 . Number Strip, B8 to P9 (on 401-06821) 308-07422 . Number Strip, B8 to P9 (on 401-06821) 308-07422 . Number Strip, B to P9 (on 401-06821) 308-07423 . Rod, Top 18 201-17550 . Rod, Top 18 201-17551 . Bracket, Retainer, License Holder 20 201-17551 . Bracket, Retainer, License Holder 21 201-17553 . Card, License 22 201-17555 . Cover, License 25 601-07564 . Frame, Record Playing 26 719-02129 . Tape, Foam	2 2 4 1 1
3 202-09225 Spacer 4 201-17515 Lock Bar Assembly, R.H. 201-17514 Lock Bar Assembly, L.H. 5 200-12562 Spring 6 201-15674 Retainer, Spring 7 201-17532 Guide 8 201-14228 Lock Bolt Assembly 9 706-01209 Washer 10 719-01630 Lock, Cylinder Type, Common Keying 11 201-17518 Catch, Spring, Title Panel 12 201-17517 Pivot Bracket and Spring Assembly 13 401-06821 Title Panel Assembly, R.H. 401-06820 Title Panel Assembly, L.H. 14 301-07422 Number Strip, Al to F2 (on 401-06820) 302-07422 Number Strip, G2 to M3 (on 401-06820) 303-07422 Number Strip, N3 to R4 (on 401-06820) 304-07422 Number Strip, A6 to D7 (on 401-06821) 306-07422 Number Strip, B to V5 (on 401-06821) 306-07422 Number Strip, B to P9 (on 401-06821) 307-07422 Number Strip, B to P9 (on 401-06821) 308-07422 Number Strip, Q9 to Y0 (on 401-06821) 308-07425 Number Strip, Q9 to Y0 (on 401-06821) 308-07426 Number Strip, D9 to Y0 (on 401-06821) 308-07427 Number Strip, D9 to Y0 (on 401-06821) 308-07428 Number Strip, B to P9 (on 401-06821) 308-07429 Number Strip, B to P9 (on 401-06821) 308-07420 Number Strip, B to P9 (on 401-06821) 308-07421 Number Strip, B to P9 (on 401-06821) 308-07422 Number Strip, B to P9 (on 401-06820)	2 4 1 1
4 201-17515 Lock Bar Assembly, R.H. 201-17514 Lock Bar Assembly, L.H. 5 200-12562 Spring 6 201-15674 Retainer, Spring 7 201-17532 Guide 8 201-14228 Lock Bolt Assembly 9 706-01209 Washer 10 719-01630 Lock, Cylinder Type, Common Keying 11 201-17518 Catch, Spring, Title Panel 12 201-17517 Pivot Bracket and Spring Assembly 13 401-06821 Title Panel Assembly, R.H. 401-06820 Title Panel Assembly, L.H. 14 301-07422 Number Strip, A1 to F2 (on 401-06820) 302-07422 Number Strip, G2 to M3 (on 401-06820) 303-07422 Number Strip, S4 to V5 (on 401-06820) 304-07422 Number Strip, S4 to V5 (on 401-06820) 305-07422 Number Strip, A6 to D7 (on 401-06821) 306-07422 Number Strip, B4 to V5 (on 401-06821) 307-07422 Number Strip, B5 to P9 (on 401-06821) 307-07422 Number Strip, B6 to D7 (on 401-06821) 308-07422 Number Strip, D9 to P9 (on 401-06821) 307-07422 Number Strip, D9 to P9 (on 401-06821) 308-07422 Number Strip, D9 to P9 (on 401-06821) 307-07422 Number Strip, D9 to P9 (on 401-06821) 308-07422 Number Strip, D9 to P9 (on 401-06821) 307-07422 Number Strip, D9 to P9 (on 401-06821) 308-07422 Number Strip, D9 to P9 (on 401-06821) 307-07422 Number Strip, D9 to P9 (on 401-06820) 309-07422 Num	4 1 1
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11 201-17518 . Catch, Spring, Title Panel 12 201-17517 . Pivot Bracket and Spring Assembly 13 401-06821 . Title Panel Assembly, R.H. 14 401-06820 . Title Panel Assembly, R.H. 15 301-07422 . Number Strip, A1 to F2 (on 401-06820) 16 302-07422 . Number Strip, G2 to M3 (on 401-06820) 17 303-07422 . Number Strip, N3 to R4 (on 401-06820) 17 304-07422 . Number Strip, S4 to V5 (on 401-06820) 18 305-07422 . Number Strip, B4 to V5 (on 401-06821) 18 305-07422 . Number Strip, F7 to H8 (on 401-06821) 19 307-07422 . Number Strip, B4 to P9 (on 401-06821) 19 308-07422 . Number Strip, Q9 to Y0 (on 401-06821) 10 308-07422 . Number Strip, Q9 to Y0 (on 401-06821) 11 5 703-01430 . Ring, Retaining 12 201-17519 . Rod, Bottom 13 201-17628 . Title Rack Insert 14 601-07571 . Title Rack 15 201-17554 . Bracket, Mounting, Record Playing Frame 16 201-17555 . Bracket, License Holder 17 201-17550 . Card, License 18 201-17551 . Bracket, License Holder 29 201-17552 . Cover, License 20 201-17553 . Card, License 21 201-17554 . Frame, Record Playing 22 719-02129 . Tape, Foam 23 725-02203 . Tape, Foam	1
12       201-17517       Pivot Bracket and Spring Assembly         13       401-06821       Title Panel Assembly, R.H.         401-06820       Title Panel Assembly, L.H.         14       301-07422       Number Strip, AI to F2 (on 401-06820)         302-07422       Number Strip, G2 to M3 (on 401-06820)         304-07422       Number Strip, N3 to R4 (on 401-06820)         305-07422       Number Strip, A6 to D7 (on 401-06821)         306-07422       Number Strip, E7 to H8 (on 401-06821)         307-07422       Number Strip, Ba to P9 (on 401-06821)         308-07422       Number Strip, Q9 to Y0 (on 401-06821)         15       703-01430       Rod, Bottom         16       201-17510       Rod, Bottom         17       201-17520       Rod, Bottom         18       201-17528       Title Rack Insert         20       201-17548       Bracket, Mounting, Record Playing Frame         21       201-17551       Bracket, Ketainer, License Holder         22       201-17552	1
13	2
401-06820 . Title Panel Assembly, L.H.  14	1
301-07422 . Number Strip, A1 to F2 (on 401-06820) 302-07422 . Number Strip, G2 to M3 (on 401-06820) 303-07422 . Number Strip, N3 to R4 (on 401-06820) 304-07422 . Number Strip, S4 to V5 (on 401-06820) 305-07422 . Number Strip, A6 to D7 (on 401-06821) 306-07422 . Number Strip, E7 to H8 (on 401-06821) 307-07422 . Number Strip, B1 to P9 (on 401-06821) 308-07422 . Number Strip, Q9 to Y0 (on 401-06821) 15 703-01430 . Ring, Retaining 16 201-17519 . Rod, Bottom 17 201-17520 . Rod, Top 18 201-17628 . Title Rack Insert 19 601-07571 . Title Rack 20 201-17554 . Bracket, Mounting, Record Playing Frame 21 201-17555 . Bracket, License Holder 22 201-17551 . Bracket, License Holder 23 201-17552 . Cover, License 24 201-17552 . Cover, License 25 601-07564 . Frame, Record Playing 26 719-02129 . Tape, Foam 27 725-02203 . Tape, Foam	1
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307-07422 . Number Strip, J8 to P9 (on 401-06821) 308-07422 . Number Strip, Q9 to Y0 (on 401-06821) 15 703-01430 . Ring, Retaining 16 201-17519 . Rod, Bottom 17 201-17520 . Rod, Top 18 201-17628 . Title Rack Insert 19 601-07571 . Title Rack 20 201-17548 . Bracket, Mounting, Record Playing Frame 21 201-17554 . Bracket, Retainer, License Holder 22 201-17551 . Bracket, License Holder 23 201-17553 . Card, License 24 201-17552 . Cover, License 25 601-07564 . Frame, Record Playing 26 719-02129 . Tape, Foam 27 725-02203 . Tape, Foam	1
308-07422 . Number Strip, Q9 to Y0 (on 401-06821)  15     703-01430 . Ring, Retaining 16     201-17519 . Rod, Bottom 17     201-17520 . Rod, Top 18     201-17628 . Title Rack Insert 19     601-07571 . Title Rack 20     201-17548 . Bracket, Mounting, Record Playing Frame 21     201-17554 . Bracket, Retainer, License Holder 22     201-17551 . Bracket, License Holder 23     201-17553 . Card, License 24     201-17552 . Cover, License 25     601-07564 . Frame, Record Playing 26     719-02129 . Tape, Foam 27     725-02203 . Tape, Foam	1
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21 201-17554 . Bracket, Retainer, License Holder 22 201-17551 . Bracket, License Holder 23 201-17553 . Card, License 24 201-17552 . Cover, License 25 601-07564 . Frame, Record Playing 26 719-02129 . Tape, Foam 27 725-02203 . Tape, Foam	4
22 201-17551 . Bracket, License Holder 23 201-17553 . Card, License 24 201-17552 . Cover, License 25 601-07564 . Frame, Record Playing 26 719-02129 . Tape, Foam 27 725-02203 . Tape, Foam	1
23 201-17553 . Card, License 24 201-17552 . Cover, License 25 601-07564 . Frame, Record Playing 26 719-02129 . Tape, Foam 27 725-02203 . Tape, Foam	1
24 201-17552 . Cover, License 25 601-07564 . Frame, Record Playing 26 719-02129 . Tape, Foam 27 725-02203 . Tape, Foam	1
25 601-07564 . Frame, Record Playing 26 719-02129 . Tape, Foam 27 725-02203 . Tape, Foam	1
26 719-02129 . Tape, Foam 27 725-02203 . Tape, Foam	1
27 725-02203 . Tape, Foam	1
	2
	1
28 201-17516 . Diffuser	2
29 301-07416 . Window, Top Door, Fully Tempered Clear Glass 15-11/16"x34-5/8"x.178/.198 Thk. 30 208-15794 . Channel, 14-3/4" Long	I
30 208-15794 . Channel, 14-3/4" Long 31 210-15794 . Channel, 34-3/8" Long	2
32 201-17568 . Light Block and Reset Assembly	2
33 201-17541 . Light Block	I
34 401-06819 . Insert, Back Trim	1
35 401-06808 . Trim, Back (Top Door)	1
36 301-07417 . Overlay, Front Trim	1
37 401-06809 . Trim, Front	1
38 301-07418 . Side, Door Support	2
39 601-07560 . Support, Door, R.H.	1
601-07559 . Support, Door, L.H.	i

#### Front Door Assembly



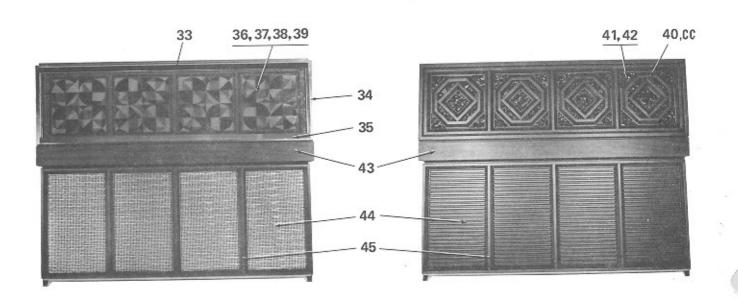


FIG.	ROWE		QTY	PER A	SS'Y
AND INDEX NO.	DADT	DESCRIPTION	WOOD	BLUE	EX- PORT
5-		Front Door Assembly, Wood Style (Classic) (Figure 1, Item 8)	REF		
5-		Front Door Assembly, Blue Style (Arlington) (Figure 1, Item 8)		REF	DEE
5-		Front Door Assembly, Red Style (Export) (Figure 1, Item 8)	2	2	REF
1	706-00601	. Fluorescent Lamp, 25W, 33in., Type T-12 . Fluorescent Starter, FS-25	2	2 2	2
2		. Reflector Panel Assembly	1	4	4
		. Reflector Panel Assembly	1	1	1
3		. Cable Clamp	2	2	2
4		Cable Clamp	1	1	1
5	702-00931	Cable Clamp	2	2	2
	401-06838	Front Door Harness Assembly	1	1	1
6		Lampholder Bracket (Lower)(L.H.)	1	1	1
		Lampholder Bracket (Lower)(R.H.)	1	1	1
7		Fluorescent Lampholder	2 2 2	2	2
8		Lampholder Bracket (Upper)	5	2 2	2
10		Fluorescent Lampholder Starter Socket	2	2	2
11		25 Watt Ballast	2	2	2 2 2 2 2
12		Pin Housing, Mate-N-Lok, 3 Circuit	1	1	1
13		Foam Tape		1	1
14	601-07651	Reflector Panel	1	1	1
15		. Fall Stop	2	2	2 4 4 2 2 2 3 1 2 2
16	202-11100	. Thrust Washer	4	4	4
17	202-09225		4	4	4
18		. Tension Spring	2 2	2 2	2
19 20	201-17549	. Latch Assembly . Reflector Clamp	4	2	2
21	201-17537	. Strike Plate	3	3	3
22		. Foamed Tape	1	1	1
23		. Foamed Tape	2 2	2 2	2
24		. Mounting Bracket	2		2
25	401-06804	. Center Tie Bar	1	1	1
26	201-17608		1	1	1
27		. Bottom Tie Bar	1	1	1
28		. Front Door Support, L.H.	1	1	1
29		Front Door Support, R.H.	1	1	1
30		. Lower Grille Backing . Grille Support	i	1	1
31	301-07428	. Bottom Grille Foam Pad	i	1	i
32		. Top Tie Bar	1	-	
33		. Window Top Trim		1	1
34	401-06848	. Window Side Trim, L.H.		1	1
	401-06849	. Window Side Trim, R.H.		1	1
35		. Window Bottom Trim		1	1
36		. Front Door Window		1	1
37		. Window Channel, Sides		2	2
38 39		. Window Channel, Bottom & Top		1	2
39		Front Door Scene, Blue Front Door Scene, Red		1	1
40		. Wood Panel	1		50 20
41		Front Panel Krinklglas	î		
42		Front Door Diffuser	1		100
43		. Center Tie Bar Overlay	1	1	1
44	601-07574	. Louvred Grille	4		
44		. Perforated Grille	-	1	1
45	601-07575	. Lower Grille Frame	1	1	1

## Side Panel Assembly

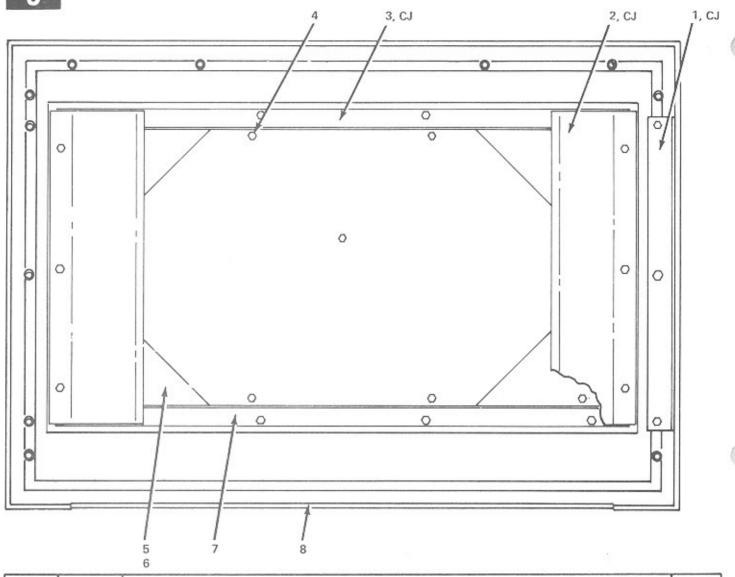


FIG. AND INDEX NO.	ROWE PART NO.	DESCRIPTION			QTY. PER ASSY	
6-		Side Panel Assembly, Wood Style, (Classic) L.H. (Figure 1, Item 14)	REF			559
6-	601-07669	Side Panel Assembly, Wood Style, (Classic) R.H. (Figure 1, Item 14)	REF	DEE		
6-	602-07668	Side Panel Assembly, Blue Style (Arlington) L.H. (Figure 1, Item 14)		REF		
6-	602-07669	Side Panel Assembly, Blue Style (Arlington) R.H. (Figure 1, Item 14)		REF	REF	
6-		Side Panel Assembly, Red Style (Export) L.H. (Figure 1, Item 14)			REF	
6-		Side Panel Assembly, Red Style (Export) R.H. (Figure 1, Item 14)	1	1	1	
2		. Bracket, Retainer, Side Frame . Reflector	2	2	2	
2 3		. Strap Retaining (Long)	-	5	5	
4		. Screw, Type 25 Special Washer Head	1.1	6	-	
	301-07467		- 1			
5 5		. Scene, Side (Blue		1		
5		. Scene, Side (Red)			1	
6		. Panel, Krinklglass	1			
6		. Window, Side (Fully Tempered Clear Glass, 18-3/8"x9-3/4"x.110/.140 Thk.)		1	1	
		. Tape, Foam (Top and Bottom)		2	2	
	724-02203	. Tape, Foam (Sides)		2	2	
7	601-07585	. Insert, Wood	1			
8	601-07582	. Frame, Side	1	1	- 1	

## Top Access Door Assembly

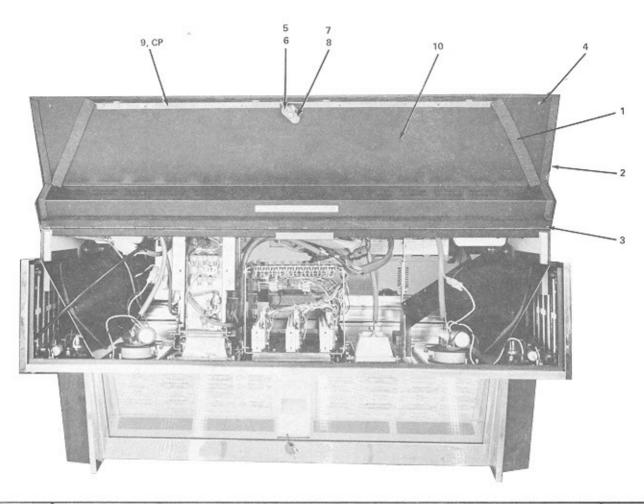
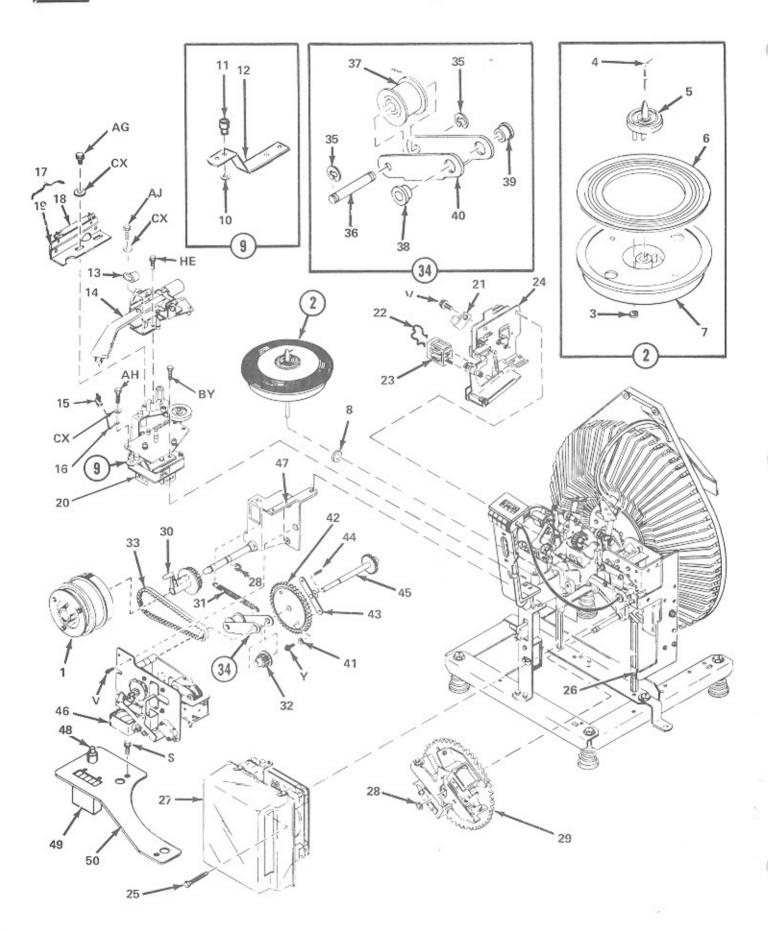
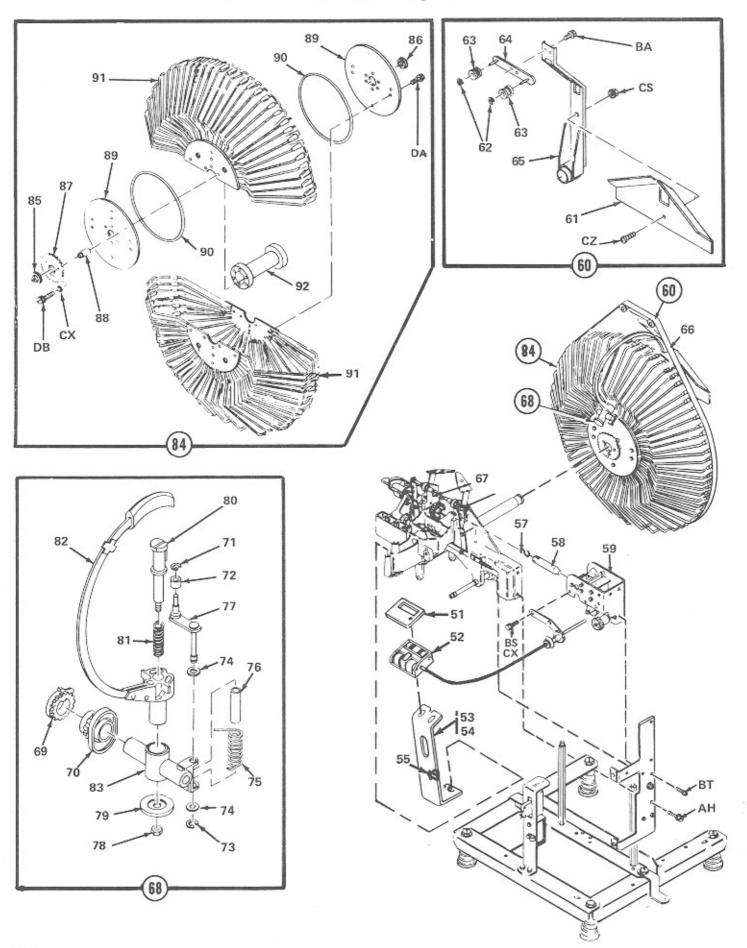


FIG. AND INDEX NO.	ROWE PART NO.	DESCRIPTION	QTY. PER ASSY
7-	601-07591	Top Access Door Assembly (Figure 1, Item 15)	REF
1		. Tape, Foam	2
2	725-02129	. Tape, Foam	2
3	703-02121	. Tape, Foam	1
4		. Tape, Foam	1
5		, Ring, Retaining	1
6		. Link, Latch Bar	1
7	202-14228	. Lock Bolt Assembly	1
8		. Lock, Cylinder, Common Keying	1
9		. Hinge, Latch	1
10		. Top Door Weld Assembly	1



1	FIG. AND NDEX	ROWE PART NO.	DESCRIPTION	QTY. PER ASSY
	NO.	NO.	N	A331
_	8-	605-03060	Mechanism Assembly (Figure 1, Item 22)	REF
	1		. Playmeter Wheel Assembly (See Figure 9)	1
	2		. Turntable Assembly	1
	3		Ring, Retaining	i
	4		Wire, Trip	1
	5		Hub, Turntable	1
	6		Face, Turntable	1
		401-05069	Turntable and Shaft Assembly	1
	8		. Washer, Plain	1
	9		. Gripper Bow Rest Assembly	1
	10	202-01437	. Ring, Retaining	1
	11	200-10897	Rest, Gripper Bow	1
	12		Bracket, Gripper Bow	1
			. Clamp, Cable	1
			. Tone Arm Assembly (See Figure 10)	1
		200-02182		1
	16 17	200-11569	. Clip, Brush	1
			Cutoff Switch Assembly Switch, Reed	1
	19	201-10720	. Terminal Board and Bracket Assembly	1
	20	401-05076	Turntable Motor and Plate Assembly (See Figure 11)	1
		702-00931	. Clamp, Cable	î
			. Spring, Relay Retaining	1
			. Relay Assembly	1
			. Cam Switch and Motor Assembly (See Figure 12)	1
			. Bolt, Mounting, No.1/4-20	3
		200-11587	. Speednut, No. 1/4-20	2
	27	406-05012	. Search Unit and Pin Wheel Assembly (See Figure 13)	2
	28	702-01430	. Ring, Retaining	2
	29	401-05024	. Stop Switch Assembly (See Figure 15)	1
			. Pulley, Playmeter	1
	31	200-10896	. Spring, Tension	1
		200-10880		1
			. Belt, Timing	1
			. Idler Bracket Assembly	1
			Ring, Retaining	2
			. Pin, Idler	1
			. Roller, Belt	1
	39	707-01460	. Bearing . Bearing	1
			Bracket, Idler	1
	41	704-01222	. Washer, External Tooth	2
	42	301-05181	Pinion and Plate Assembly	1
			. Hub, Gear	i
		206-01130		2
			. Magazine Drive Shaft Assembly	1
			. Sprag Assembly (Magazine Motor)(See Figure 16)	î
	47	301-05125	. Motor Bracket Assembly	1
			. Switch, Momentary Contact, Pushbutton Type	1
	49	201-50657	. Counter Assembly	1
	50	301-05242	. Plate, Counter Mounting	1



200704 1200	March Company		
FIG. AND INDEX NO.	ROWE PART NO.	DESCRIPTION	QTY. PER ASSY
8- 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91	300-06452 301-05241 200-14739 301-06615 704-00931 200-11513 201-11515 303-05111 303-05169 400-05049 703-01430 200-03843 201-10894 301-05147 201-10895 200-10792 401-05390 300-05122 400-05013 707-01430 702-12537 703-01430 721-01207 200-12537 201-12538 201-12536 201-12536 201-12536 201-10808 200-10811 301-05197 301-05191 602-03010 714-01460 701-01460 300-05191 200-11518 300-05100 200-10803	Annunciator Bracket Assembly Clamp, Cable Not Used Link, Toggle Plunger Plunger Assembly Scan Control Assembly (See Figure 18) Guide and Belt Support Assembly Stop, Record Ring, Retaining Roller Roller Bracket Assembly Gripper Bow Assembly Belt Pin, Trunnion Gripper Bow and Trunnion Assembly Gear, Trunnion Graper Bow and Trunnion Assembly Roller Ring, Retaining Roller Ring, Retaining Roller Ring, Retaining Washer, Flat Spring, Torsion Bearing, Sleeve Pawl Lever and Shaft Assembly Nut, Stop Follower, Cam Shoe, Inner Spring, Record Release Transfer Arm and Hub Assembly Trunnion Magazine Assembly Bearing Bearing Bearing Bearing Bearing	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
92	300-05101	Spacer, Support	1

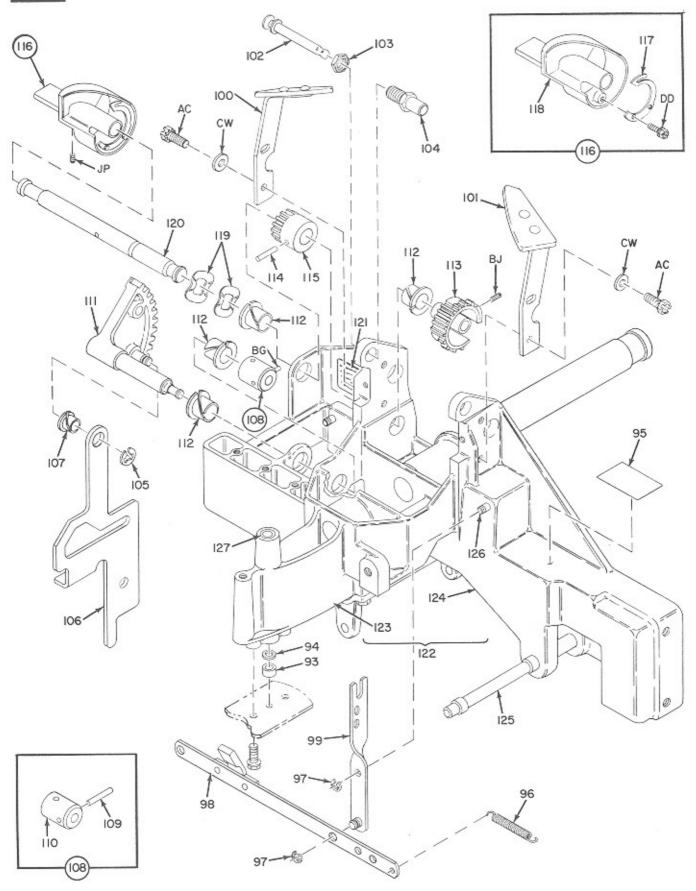


FIG. AND INDEX NO.	ROWE PART NO.	DESCRIPTION	QTY. PER ASSY
95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122	200-10866 200-10364 201-11004 200-10955 703-01430 201-10823 201-11517 201-11521 200-11528 704-01301 200-10817 704-01430 200-10793 704-01460 201-10809 720-01101 200-10799 201-10800 705-01460 400-05014 400-05014 700-10909 400-05008 200-10820 200-10791 200-12665 403-05003	. Bushing, Toggle Pin . Ring, Retaining . Link, Transfer . Bearing . Collar and Pin Assembly . Pin, Roll . Collar . Segment Gear and Shaft Assembly . Bearing . Gear, Trunnion and Cam Drive . Pin, Roll . Gear, Camshaft . Tone Arm Cam Assembly . Spring . Cam . Washer, Wave . Shaft, Trunnion Drive . Label . Base Assembly	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
124 125	401-05002 200-10728 200-10729	. Support, Shaft . Base . Shaft, Stop Switch . Pin, Mounting . Bearing	1 1 2 2

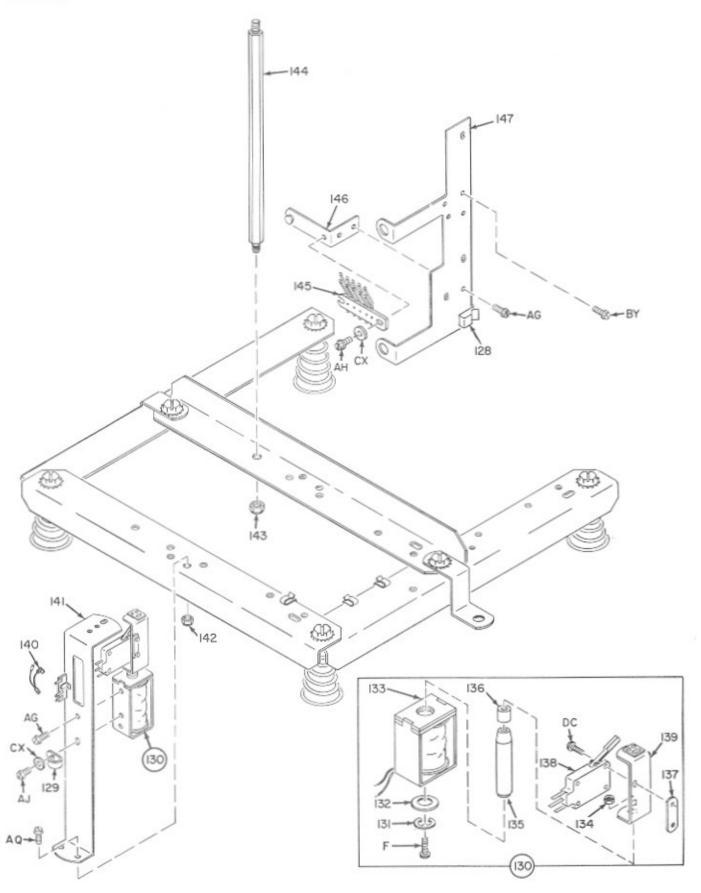


FIG. AND INDEX NO.	ROWE PART NO.		DESCRIPTION	QTY. PER ASSY
129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144	200-07545 705-00931 201-11011 702-01430 710-01205 202-11505 203-13578 200-10861 200-11017 200-10735 201-12609 201-12586 201-12694 200-11014 200-11013 200-10881 201-10949 201-10893	Mechanism Assembly (continued) Clip, Cable Clamp, Cable Hub Shift Assembly Ring, Retaining Washer, Flat Solenoid Assembly Nut, Stop Plunger Spacer Plate, Nut Microswitch Bracket Switch Wire and Termination Assembly Terminal Strip and Bracket Assembly Nut, Lock Nut, Lock Support, Mechanism Wiper Blade Assembly Mounting Bracket Assembly Bracket, Search Unit		2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 1 1

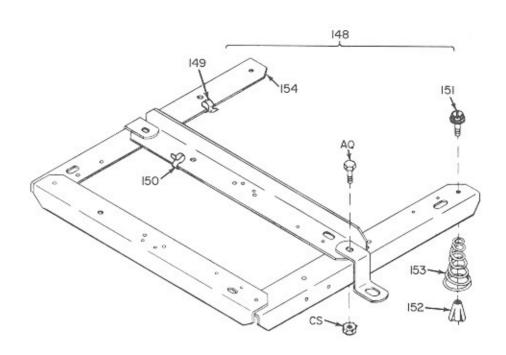


FIG. AND INDEX NO.	ROWE PART NO.	DESCRIPTION	QTY. PER ASSY
8-	605-03060	Mechanism Assembly (continued)	
148	301-06622	. Mechanism Support and Spring Assembly	1
		Clip, Cable	î
		Clip, Wire	ŝ
151	200-11538	Pin, Screw, Spring Support	4
152	200-06272	Support, Spring	4
153	200-06128	Spring	4
154	302-05142	Mechanism Support Assembly	1

# Playmeter Wheel Assembly

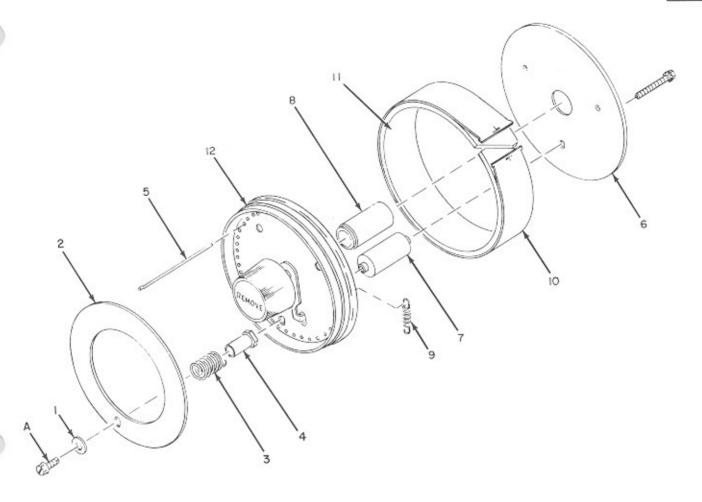


FIG. AND INDEX NO.	ROWE PART NO.	DESCRIPTION	QTY. PER ASSY
9-	303-05465	Playmeter Wheel Assembly (Figure 8, Item 1)	REF
1		. Washer, Flat, No. 6	. 3
2		. Plate, Reset	1
3		. Spring, Compression	3
4		. Stud, Reset Guide	3
5	200-11582	. Pin, Playmeter	100
6	300-05159	, Plate, Back	1
7	200-10962	. Spacer	3
8	200-10968		1
9		. Spring, Tension	1
10	300-05198	. Strip, Playmeter	1
1.1	202-10966	. Strip, Pin Loading	1
12	201-13913	. Playmeter Plate Assembly	1 .



## Tone Arm Assembly

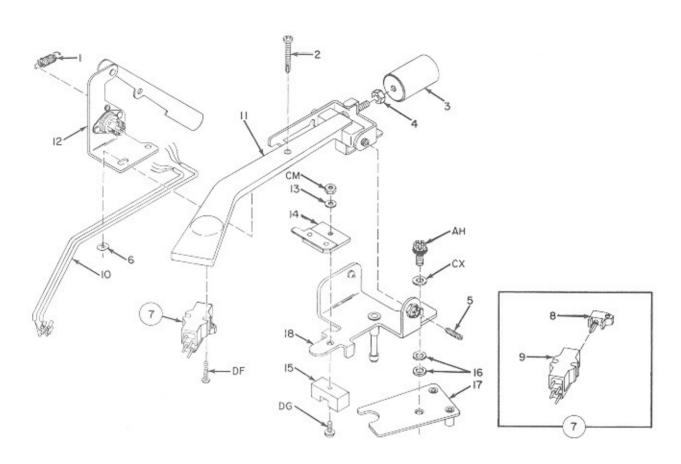


FIG. AND INDEX NO.	ROWE PART NO.	DESCRIPTION	QTY. PER ASSY
10-		Tone Arm Assembly (Figure 8, Item 14)	REF
1	200-03713	. Spring, Tension	1
2		. Screw, Contact	1
3	201-11585	Counterweight	1
4	200-13306		1
5		. Screw, Pivot	1
6		. Nut, Push-On	3
7		. Cartridge, Stereo	1
8	200-13031		1
9		Cartridge	1
10		. Cable Assembly	2
11	303-05118	. Arm and Lever Assembly	1
12		. Bracket and Lever Assembly	1
13		. Washer, Flat, No. 4	1
14	201-65023	. Blade, Contact	1
15	200-10724		1
16		. Washer, Flat	AR
17	201-10727	. Cam Plate Assembly	1
18	201-10714	. Bracket and Shaft Assembly	1

## Turntable Motor and Plate Assembly



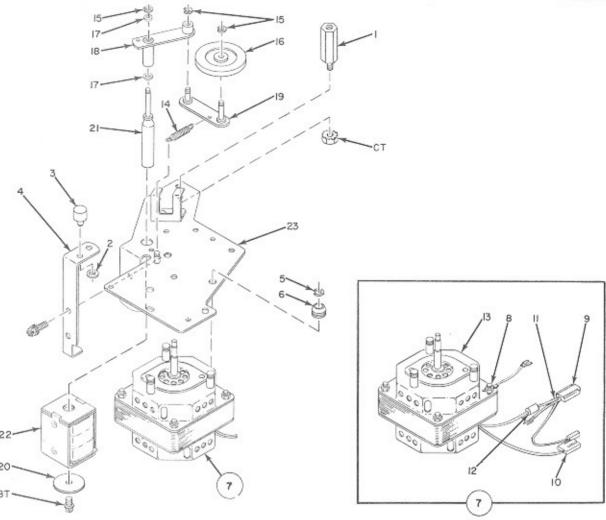
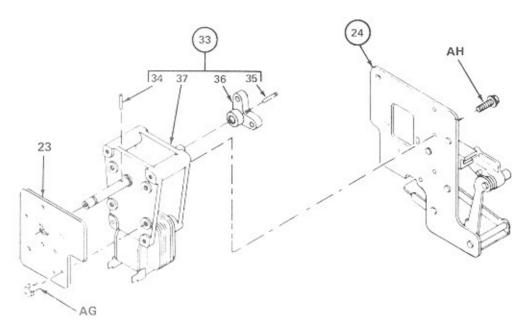
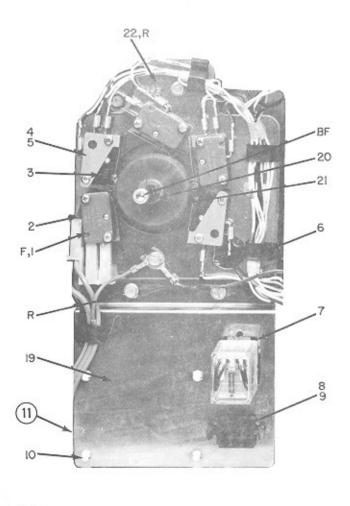
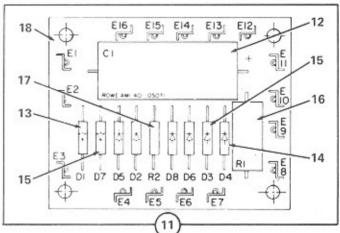


	FIG. AND INDEX NO.	ROWE PART NO.	DESCRIPTION	QTY. PER ASSY
	11-	401-05076	Turntable Motor and Plate Assembly (Figure 8, Item 20)	REF
	1		. Bearing, Tone Arm	1
	2		. Ring, Retaining	- 1
	3		. Rest, Gripper Bow	1
	4	200-10886	. Bracket, Gripper Bow Rest (L.H.)	1
	5	712-01430	. Ring, Retaining	3
	6		. Grommet	3
	7	301-05239	. Turntable Motor Assembly	1
	8	216-12300	. Wire and Lug Assembly	1
	9	202-17323	Connector, Socket (3 Circuit)	1
	10		Receptacle, Triple (Insulation)	1
		SPEC7065D	Cord, 3 Conductor	14"
	12		Connector, Solderless	1
	13		Motor, Turntable	1
	14	200-00907	. Spring, Tension	1
	15	701-01430	. Ring, Retaining	3
	16		. Idler Wheel Assembly	1
b	17	712-01213		2
	18		. Link and Bushing Assembly	1
	19		. Link and Pin Assembly	1
	20	714-01206		1
	21		. Plunger Assembly	1
	22		. Solenoid Assembly	1
	23	301-05189	. Turntable Motor Mount Assembly	1

## Cam Switch and Motor Assembly







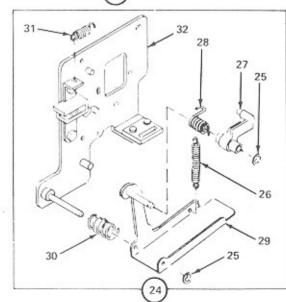


FIG. AND INDEX NO.	ROWE PART NO.	DESCRIPTION	QTY. PER ASSY
12-	401-05075	Cam Switch and Motor Assembly (Figure 8, Item 24)	REF
1	200-10732		1
2	200-50548		1
3	200-10733		4 5 5
4		Actuator, Switch	5
5 6	200-10830		5
	200-07545		3
		. Mechanism Harness and Terminal Board Assembly Socket, Relay	1
		Mechanism Harness Assembly	1
		Housing, Socket (9 Circuit) Brown	1
		Housing, Socket (2 Circuit)	1
		. Support, Circuit Board	4
		. Terminal Board Assembly	1
		Capacitor, Electrolytic, 100MFD, 50V	i
		Diode, Silicon, (D1, D5, D6, D8)	4
14	705-00350 .	Diode, Silicon, (D2, D4)	2
15	706-00350 .	Diode, Silicon, (D3, D7)	2
16	725-00105 .	Resistor, Carbon, 120 OHM, 2W (R1)	1
		Resistor, Carbon, 22 OHM, 1/2W (R2)	1
		Printed Wiring Board	1
		. Bracket, Relay Mounting	1
		Ring, Retaining	1
		Cam, Switch	1
		Plate, Switch Mounting Plate, Motor Mounting	1
	300-06627 .	Motor Mounting Plate Assembly	1
	703-01430	. Ring, Retaining	2
	201-11644	. Spring, Tension	1
27	301-05204 .	. Ratchet Pawl Assembly	1
	200-10835 .	. Spring, Torsion	1
29	201-10834 .	. Actuator Arm Assembly	1
30	200-12075 .	. Spring, Compression	1
31	200-03816.	. Spring, Tension	1
		. Plate and Ratchet Assembly	1
33	201-11598 .	Motor and Crank Assembly	1
	706-01131 .		1
35	719-01131 .	. Pin, Roll	1
		. Crank and Pin Assembly	1
37	401-05059 .	. Transfer Motor Assembly	1



## Search Unit and Pinwheel Assembly

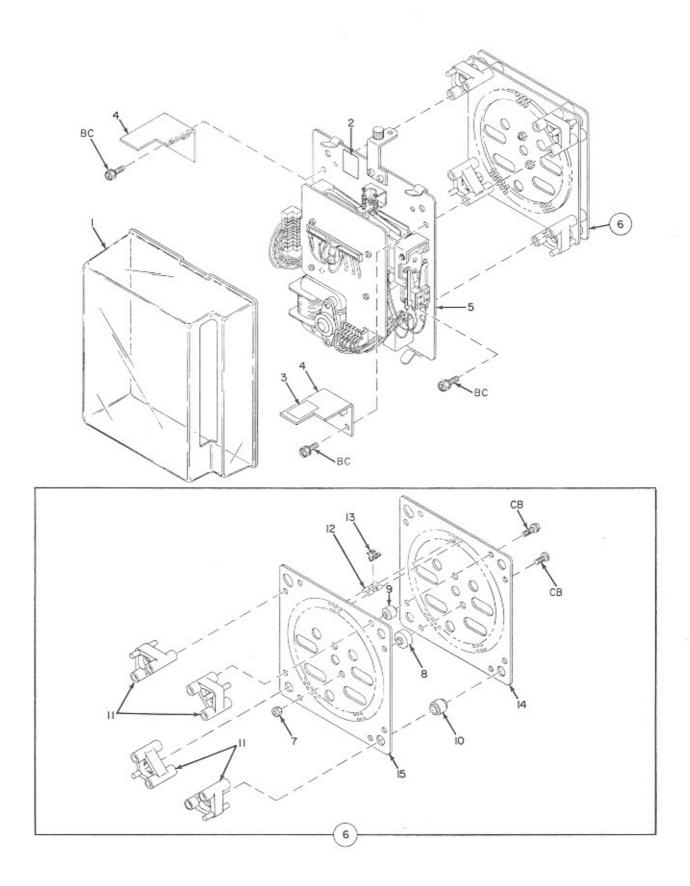
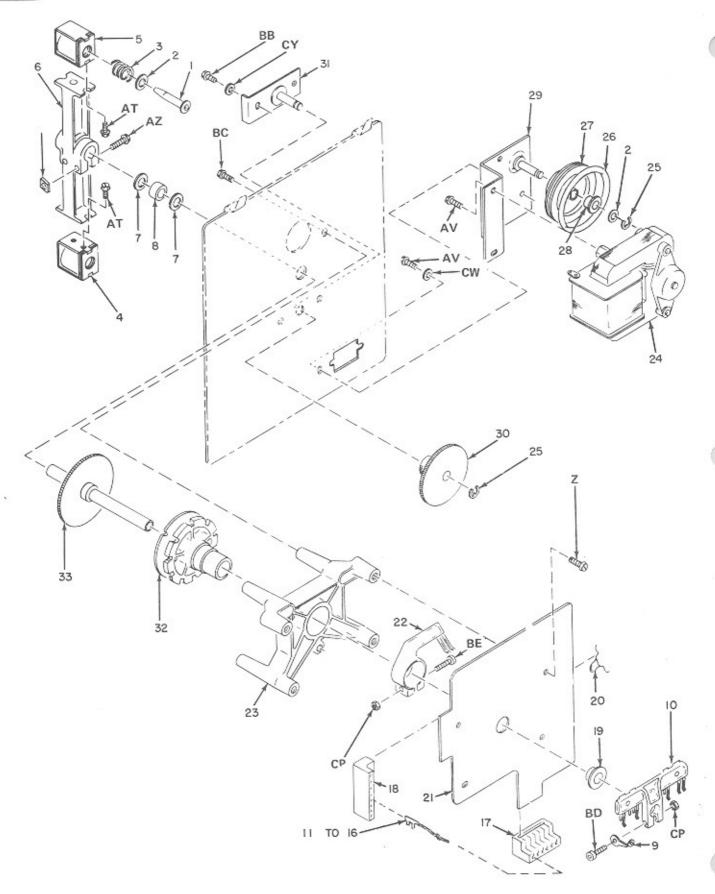


FIG. AND INDEX NO.	ROWE PART NO.	DESCRIPTION	QTY. PER ASSY
13-	406-05012	Search Unit and Pin Wheel Assembly (Figure 8, Item 27)	REF
1		. Cover, Protective	1
2	701-03032	. Label, Serial Number	1
3		. Label, Caution	1
4		. Bracket, Locating	2
5		. Search Unit Assembly (See Figure 14)	1
6		. Pinwheel Assembly	1
7		. Nut, Self Locking	2
8	200-10939	Spacer	2
9	708-01215	Spacer	7
		Spacer	3
		Support, Search Unit	4
		. Pin, Selector	200
		Spring, Friction	100
	201-13260	Plate Assembly - Pin Wheel	1
15	301-05157	. Plate, Pin Wheel	1



## Search Unit Assembly Sheet 1



1 201-11534 . Plunger Assembly 2 712-01207 . Washer, Flat 3 200-11533 . Spring, Compression 4 204-10743 . Solenoid Assembly 5 205-10743 . Solenoid Assembly 6 300-05112 . Arm. Solenoid 7 725-01205 . Washer, Plain 8 720-01214 . Spacer, Sleeve 9 200-11583 . Lug, Ground 10 301-06371 . Wiper Assembly 11 204-11579 . Jumper Assembly 12 208-11579 . Jumper Assembly 13 210-11579 . Jumper Assembly 14 211-11579 . Jumper Assembly 15 201-11580 . Jumper Assembly 16 202-11580 . Jumper Assembly 17 201-11575 . Connector, Edge 18 202-11575 . Connector Edge	ŒF
1 201-11534 . Plunger Assembly 2 712-01207 . Washer, Flat 3 200-11533 . Spring, Compression 4 204-10743 . Solenoid Assembly 5 205-10743 . Solenoid Assembly 6 300-05112 . Arm. Solenoid 7 725-01205 . Washer, Plain 8 720-01214 . Spacer, Sleeve 9 200-11583 . Lug, Ground 10 301-06371 . Wiper Assembly 11 204-11579 . Jumper Assembly 12 208-11579 . Jumper Assembly 13 210-11579 . Jumper Assembly 14 211-11579 . Jumper Assembly 15 201-11580 . Jumper Assembly 16 202-11580 . Jumper Assembly 17 201-11575 . Connector, Edge 18 202-11575 . Connector Edge	
2 712-01207 . Washer, Flat 3 200-11533 . Spring, Compression 4 204-10743 . Solenoid Assembly 5 205-10743 . Solenoid Assembly 6 300-05112 . Arm. Solenoid 7 725-01205 . Washer, Plain 8 720-01214 . Spacer, Sleeve 9 200-11583 . Lug, Ground 10 301-06371 . Wiper Assembly 11 204-11579 . Jumper Assembly 12 208-11579 . Jumper Assembly 13 210-11579 . Jumper Assembly 14 211-11579 . Jumper Assembly 15 201-11580 . Jumper Assembly 16 202-11580 . Jumper Assembly 17 201-11575 . Connector, Edge 18 202-11575 . Connector Edge	2
3 200-11533 . Spring, Compression 4 204-10743 . Solenoid Assembly 5 205-10743 . Solenoid Assembly 6 300-05112 . Arm. Solenoid 7 725-01205 . Washer, Plain 8 720-01214 . Spacer, Sleeve 9 200-11583 . Lug, Ground 10 301-06371 . Wiper Assembly 11 204-11579 . Jumper Assembly 12 208-11579 . Jumper Assembly 13 210-11579 . Jumper Assembly 14 211-11579 . Jumper Assembly 15 201-11580 . Jumper Assembly 16 202-11580 . Jumper Assembly 17 201-11575 . Connector, Edge 18 202-11575 . Connector Edge	2
4 204-10743 . Solenoid Assembly 5 205-10743 . Solenoid Assembly 6 300-05112 . Arm. Solenoid 7 725-01205 . Washer, Plain 8 720-01214 . Spacer, Sleeve 9 200-11583 . Lug, Ground 10 301-06371 . Wiper Assembly 11 204-11579 . Jumper Assembly 12 208-11579 . Jumper Assembly 13 210-11579 . Jumper Assembly 14 211-11579 . Jumper Assembly 15 201-11580 . Jumper Assembly 16 202-11580 . Jumper Assembly 17 201-11575 . Connector, Edge 18 202-11575 . Connector Edge	2
5 205-10743 . Solenoid Assembly 6 300-05112 . Arm. Solenoid 7 725-01205 . Washer, Plain 8 720-01214 . Spacer, Sleeve 9 200-11583 . Lug, Ground 10 301-06371 . Wiper Assembly 11 204-11579 . Jumper Assembly 12 208-11579 . Jumper Assembly 13 210-11579 . Jumper Assembly 14 211-11579 . Jumper Assembly 15 201-11580 . Jumper Assembly 16 202-11580 . Jumper Assembly 17 201-11575 . Connector, Edge 18 202-11575 . Connector Edge	1
7 725-01205 . Washer, Plain 8 720-01214 . Spacer, Sleeve 9 200-11583 . Lug, Ground 10 301-06371 . Wiper Assembly 11 204-11579 . Jumper Assembly 12 208-11579 . Jumper Assembly 13 210-11579 . Jumper Assembly 14 211-11579 . Jumper Assembly 15 201-11580 . Jumper Assembly 16 202-11580 . Jumper Assembly 17 201-11575 . Connector, Edge 18 202-11575 . Connector Edge	1
8 720-01214 . Spacer, Sleeve 9 200-11583 . Lug, Ground 10 301-06371 . Wiper Assembly 11 204-11579 . Jumper Assembly 12 208-11579 . Jumper Assembly 13 210-11579 . Jumper Assembly 14 211-11579 . Jumper Assembly 15 201-11580 . Jumper Assembly 16 202-11580 . Jumper Assembly 17 201-11575 . Connector, Edge 18 202-11575 . Connector Edge	1
9 200-11583 . Lug, Ground 10 301-06371 . Wiper Assembly 11 204-11579 . Jumper Assembly 12 208-11579 . Jumper Assembly 13 210-11579 . Jumper Assembly 14 211-11579 . Jumper Assembly 15 201-11580 . Jumper Assembly 16 202-11580 . Jumper Assembly 17 201-11575 . Connector, Edge 18 202-11575 . Connector Edge	2
10 301-06371 . Wiper Assembly 11 204-11579 . Jumper Assembly 12 208-11579 . Jumper Assembly 13 210-11579 . Jumper Assembly 14 211-11579 . Jumper Assembly 15 201-11580 . Jumper Assembly 16 202-11580 . Jumper Assembly 17 201-11575 . Connector, Edge 18 202-11575 . Connector Edge	1
10 301-06371 . Wiper Assembly 11 204-11579 . Jumper Assembly 12 208-11579 . Jumper Assembly 13 210-11579 . Jumper Assembly 14 211-11579 . Jumper Assembly 15 201-11580 . Jumper Assembly 16 202-11580 . Jumper Assembly 17 201-11575 . Connector, Edge 18 202-11575 . Connector Edge	1
11 204-11579 . Jumper Assembly 12 208-11579 . Jumper Assembly 13 210-11579 . Jumper Assembly 14 211-11579 . Jumper Assembly 15 201-11580 . Jumper Assembly 16 202-11580 . Jumper Assembly 17 201-11575 . Connector, Edge 18 202-11575 . Connector Edge	1
12 208-11579 . Jumper Assembly 13 210-11579 . Jumper Assembly 14 211-11579 . Jumper Assembly 15 201-11580 . Jumper Assembly 16 202-11580 . Jumper Assembly 17 201-11575 . Connector, Edge 18 202-11575 . Connector Edge	2
14 211-11579 . Jumper Assembly 15 201-11580 . Jumper Assembly 16 202-11580 . Jumper Assembly 17 201-11575 . Connector, Edge 18 202-11575 . Connector Edge	1
15	1
16 202-11580 . Jumper Assembly 17 201-11575 . Connector, Edge 18 202-11575 . Connector Edge	1
17 201-11575 . Connector, Edge 18 202-11575 . Connector Edge	1
18 202-11575 . Connector Edge	1
	1
10 201 11572 Circuit Board and Evolet Assembly	1
19 201-11573 . Circuit Board and Eyelet Assembly	1
707-01460 Bearing	2
20 706-00223 Capacitor, Ceramic Disc, 0.01 MFD, 500V	1
21 400-05048 Circuit Board	1
22 301-05599 . Wiper Assembly	1
23 400-05010 . Frame, Mounting	1
24 300-06417 . Motor Assembly	1
25 703-01430 Ring, Retaining	2 .
26 200-14265 . Drive Belt, Search Unit	2
27 200-14264 . Gear and Hub	1
28 720-01460 . Bearing	1
29 201-14268 . Bracket and Pin Assembly	1
30 201-11838 . Gear Assembly, Idler	1
31 201-10760 . Pin and Plate Assembly, Idler	1
32 401-05011 . Wheel Assembly, Sprag	1
33 301-05141 . Gear and Shaft Assembly	1

#### Search Unit Assembly Sheet 2

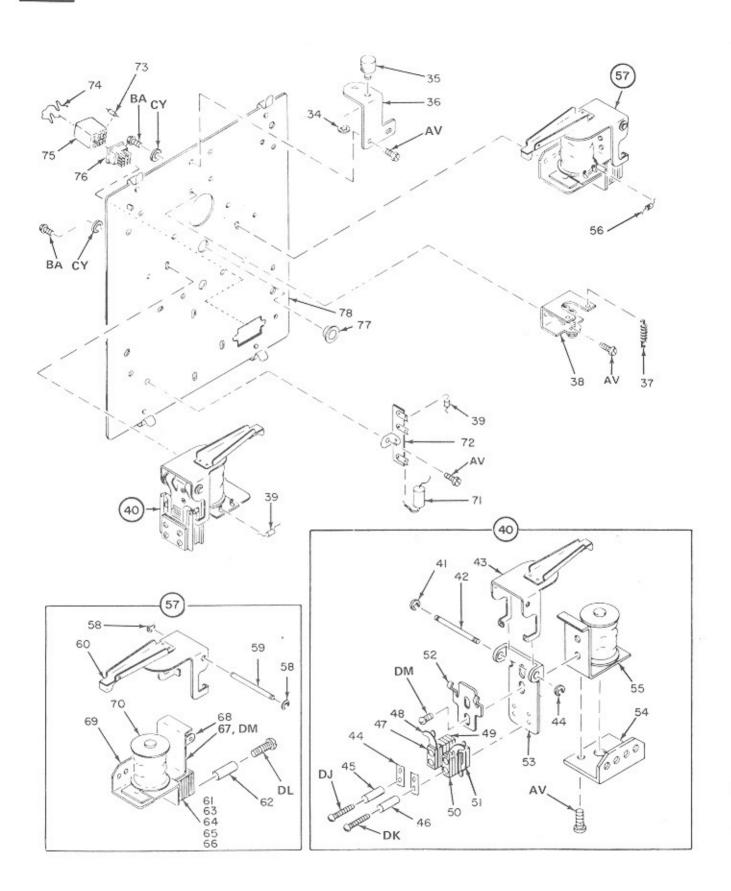


FIG. AND INDEX NO.	ROWE PART NO.	DESCRIPTION	QTY. PER ASSY
14- 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71	NO.  601-04158 702-01437 200-10897 200-10787 200-10786 201-10761 702-00350 308-08050 701-01430 200-03598 201-10759 200-06163 200-05319 200-05319 200-05319 200-05377 201-09040 204-09040 207-09040 207-09040 201-0747 201-10757 702-00359 701-01430 200-03598 201-10758 200-06163 200-05319 200-05319 200-05377 200-05397 200-10747 201-10758 200-06163 200-05319 200-05319 200-05319 200-05319 200-05377 200-05377 200-05377 200-05397 200-0747	Search Unit Assembly (Continued) . Clip, Retaining . Rest, Transfer Arm . Bracket, Support . Spring, Tension . Bracket and Stop Nut Assembly . Rectifier, Silicon . Relay Assembly, Sprag . Ring, Retaining . Pin, Hinge . Armature Assembly . Plate, Clamping . Tubing, Insulating, 0.384 in. long . Tubing, Insulating, 0.571 in. long . Spacer, Contact Blade . Contact Blade Assembly . Plate, Clamp-Hinge . Hinge, Relay . Bracket, Sprag Relay Mounting . Frame and Coil Assembly (Sprag) . Diode, Silicon . Relay Assembly, Sprag . Ring, Retaining . Pin, Hinge . Armature Assembly . Plate, Clamping . Tubing, Insulating, 0.333 in.long . Spacer, Contact Blade . Contact Blade Assembly . Plate, Clamping . Tubing, Insulating, 0.333 in.long . Spacer, Contact Blade . Contact Blade Assembly . Plate, Clamping . Tubing, Insulating, 0.333 in.long . Spacer, Contact Blade . Contact Blade Assembly . Plate, Clamping, Hinge . Hinge, Relay . Bracket, Sprag Relay Mounting . Frame and Coil Assembly . Capacitor, 5 MFD, 100V	
72 73 74 75 76 77 78	706-00104 200-12869 200-12751 202-13782 303-05114 200-10766	Strip, Terminal Resistor, Carbon, 1.8K, 1/2W (R2) Spring, Relay Relay Socket, Relay Plate and Bearing Assembly Bearing Plate and Bearing Assembly	1 1 1 1 1 1

#### Stop Switch Assembly

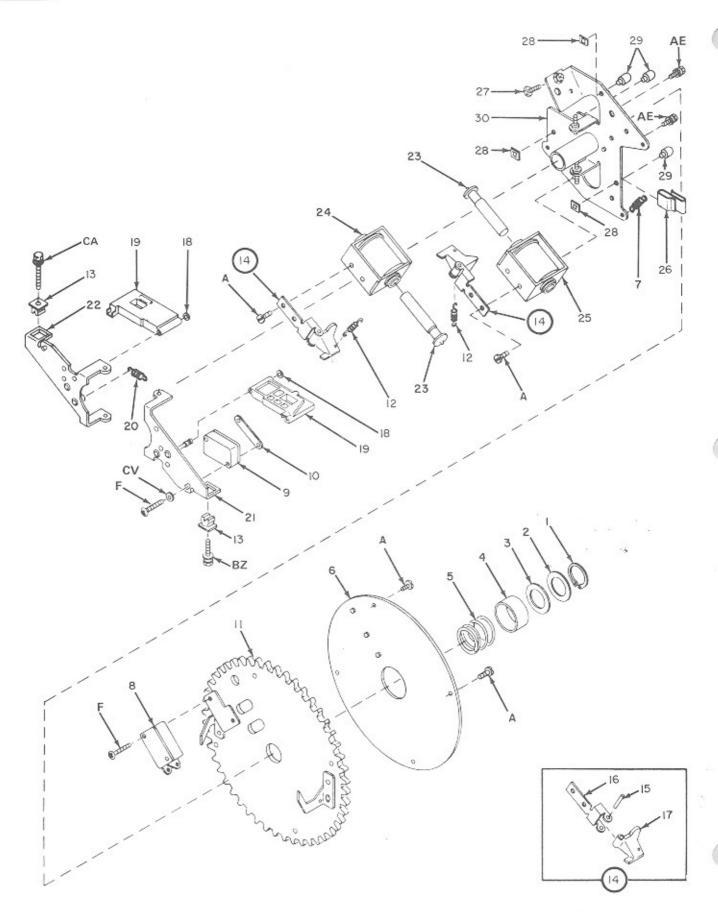


FIG. AND INDEX NO.	ROWE PART NO.	DESCRIPTION	QTY. PER ASSY
15-	401-05024	Stop Switch Assembly (Figure 8, Item 29)	REF
1		. Ring, Retaining	1
2	721-01206		1
3	720-01206		1
4	200-11535		1
5	200-10953	. Spring, Compression	1
6		. Slip Ring Assembly	1
7		. Spring, Compression	1
8		. Switch, Sensitive	1
9	201-14969	. Switch, Sensitive	1
10	200-10830	. Nut, Plate	1
11		. Gear, Selector	1
12		. Spring, Tension	2 2
13	200-10725	. Nut, Snap-In	2
14		. Reset Lever Assembly	2
15	706-01130	Pin, Roll	1
16	200-10929		1
17		Bracket	1
18		. Ring, Retaining	2
19	401-05028		2
20		. Spring, Tension	1
21		. Arm. Pivot	1
22		. Arm, Pivot	1
23		. Plunger & Tip Assembly	2
24		. Solenoid Assembly	1
25		. Solenoid Assembly	1
26	200-07545		1
27		. Screw, Adjusting	1
28		. Nut, Speed	3
29		. Button, Slide	3
30	301-05156	. Switch Plate Assembly	1

## Sprag Assembly

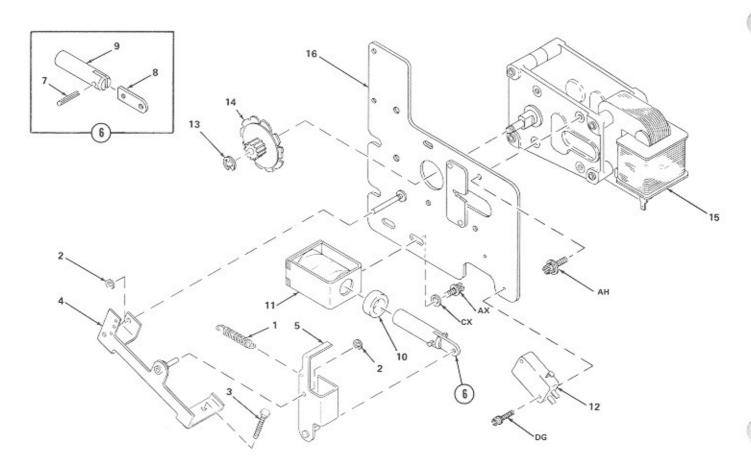


FIG. AND INDE NO.	X PART	DESCRIPTION	QTY PER ASS
16-		prag Assembly (Figure 8, Item 46)	REF
1		Spring, Tension	1
2		Ring, Retaining	2
3		Screw, Adjusting	1
4		Sprag Link Assembly	1
5		Sprag Lever Assembly	1
6		Plunger Assembly	1
8	703-01130 .		1
9		. Link, Plunger . Plunger, Solenoid	1
10	200-10849 .		1
11		Solenoid Assembly	1
12	200-10731 .		1
13		Ring, Retaining	1
14	300-05133 .	Wheel Sprag	i
15		Magazine Motor Assembly	1
16		Sprag Bracket Assembly	i

#### FIGURE 17

#### Cable and Annunciator Assembly

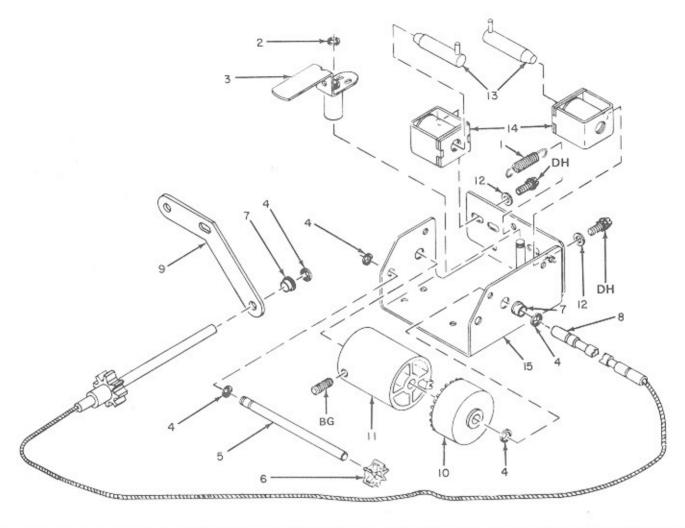


FIG. AND INDEX NO.	ROWE PART NO.	DESCRIPTION	QTY. PER ASSY
17-	301-05241	Cable and Annunciator Assembly (Figure 8, Item 52)	REF
1	200-03816		1
		. Ring, Retaining	1
		. Bushing and Shutter Assembly	1
		. Ring, Retaining	5
5		. Shaft, Pinion	1
6		, Gear, Pinion	1
7	703-01460		3
8		. Drive Assembly	į.
9	200-10999		į.
		. Number Wheel and Strip Assembly	1
11		. Letter Wheel Assembly	I .
12		. Washer, Flat	4
		. Plunger Assembly	2
14		. Solenoid Assembly	1
15	202-10984	. Frame Assembly	1

## Scan Control Assembly

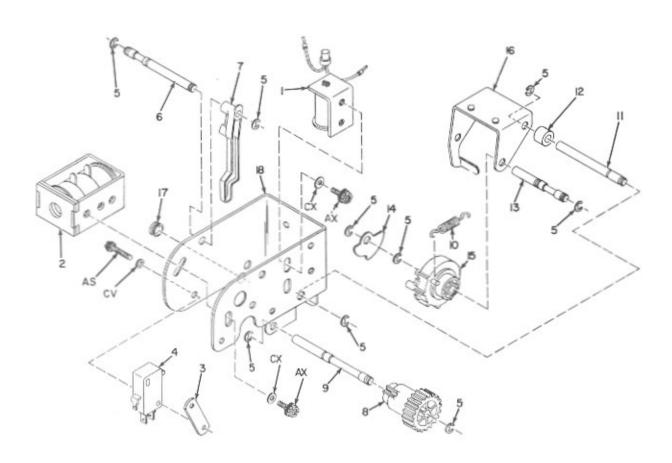


FIG. AND INDEX NO.	ROWE PART NO.	DESCRIPTION	QTY. PER ASSY
18-	303-05111	Scan Control Assembly (Figure 8, Item 59)	REF
1		. Magnet Assembly, Reset	1
2		. Solenoid Assembly	1
3		. Nut, Plate	1
4	200-10731		1
5		. Ring, Retaining	10
6	200-10721		1
7		. Lever, Switch	1
8		Pinion, Scanning Control	1
9		. Shaft, Pinion	1
10		Spring, Tension	1
11	200-08847		1
12 13	200-08846	. Spacer, Sleeve . Shaft	1
14	200-08840		1
15		Gear Assembly, Scan	1
16		. Bracket Assembly, Reset	î
17	710-01460		î
18	400-05030		î

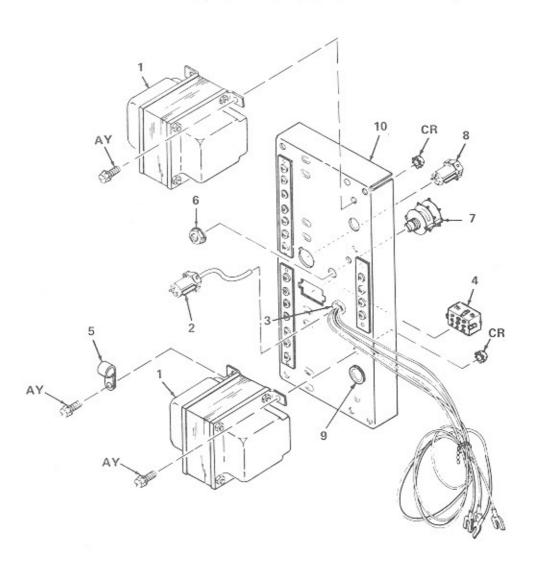


FIG.	ROWE		QTY. PER	ASS'Y
AND INDEX NO.	PART NO.	DESCRIPTION	64 WATT	120 WATT
19-	403-06322	Output Transformer Assembly, 64W (Figure 1, Item 57)	REF	
19-		Output Transformer Assembly, 120W (Figure, Item 57)		REF
1	401-06522	. Output Transformer	2	
1		. Output Transformer		2
		. Plug and Cable Assembly	1	1
2 3	201-13541	Combo-Line Cap Housing, 7 Circuit	1	1
3	701-02331	. Strain Relief	1	1
	301-07488	. Plug and Cable Assembly	1	1
4	305-07490	Universal Connector Cap Housing, 9 Circuit	1	1
5	704-00931	. Cable Clamp	1	1
6	200-02649	. Palnut, 3/8-32	1	1
	301-07487	. Connector and Switch Assembly	1	1
7	201-15278	Switch, 4 Pole, 6 Position	1	1
8	201-13540	Combo-Line Plug Housing, 7 Circuit	- 1	1
9		. Strain Relief	2	2
10		. Chassis Assembly with Lettering	1	
10		. Chassis Assembly with Lettering	-	1

#### **Junction Box Assembly**

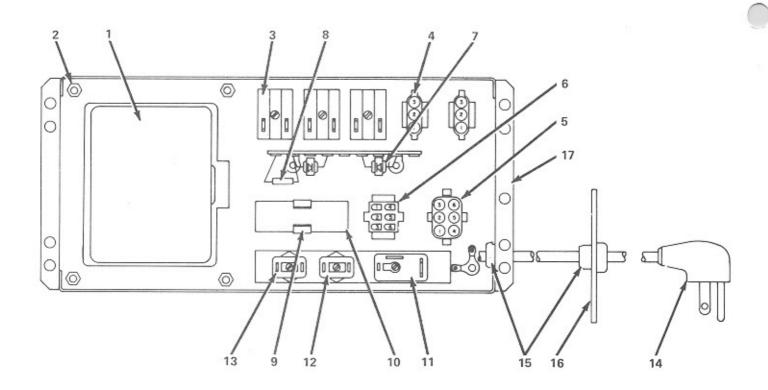


FIG. AND INDEX NO.	ROWE PART NO.	DESCRIPTION	QTY. PER ASSY
20-	401-06703	Junction Box Assembly (Figure 1, Item 61)	REF
1		. Transformer	1
2	201-17621	. Nut, Hex, No.8-32	4
3		. Outlet Convenience, 3 Wire	3
4	202-17322	. Housing, Socket, 3 Circuit	2
5	203-17322	. Housing, Socket, 6 Circuit	1
6	202-12444	. Housing, Socket, 6 Circuit	1
7	710-00305	. Diode, Silicon, Motorola No. MR 752, 16A, 200V	2
8	708-00104	. Resistor, Carbon, 4.7K, 1/2W	1
9		. Clip, Capacitor Mounting	1
10	710-00233	. Capacitor, Electrolytic, 1250 MFD, 50V	1
11	725-00734	. Circuit Breaker 10 Amp	1
12	715-00733	. Circuit Breaker 2 Amp	1
13	717-00733	. Circuit Breaker 3 Amp	1
14	201-11212	. Cord and Plug Assembly	1
15		. Relief, Strain	2
16		. Cover, Cord Hole	1
17	301-07316	. Junction Box With Lettering	1

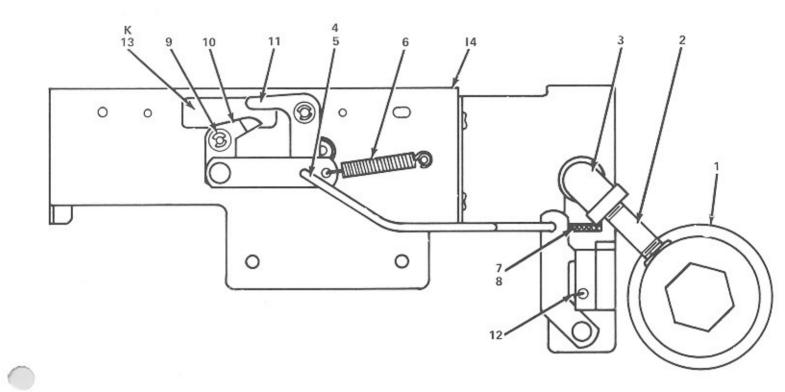


FIG. AND INDEX NO.	ROWE PART NO.	DESCRIPTION	QTY. PER ASSY
21-	604-04450	Burglar Alarm Assembly (Figure 1, Item 73)	REF
1	200-13990	. Horn, Alarm	1
2	201-17627		1
3	200-14013		1
4		. Ring, Retaining, Triangular	2
5		. Rod, Actuating	1
6		. Spring, Handle Return	1
7		. Palnut, No.9/16-18	1
8		Valve and Handle Assembly	1
		Pin, Drive , 3/32x5/16 Handle, Alarm Valve	1
		Valve, Horn	i
9		. Ring, Retaining	2
10		. Trigger and Link Assembly	1
11		. Trigger Assembly	Î
12		. Spring, Lock	1
13		. Plate, Bolt Stop	1
14		. Bracket and Latch Assembly	1
		. Power Pack, Alarm	1

#### Harness and Console Assembly

FIG. AND INDEX NO.	ROWE PART NO.	DESCRIPTION	QTY. PER ASSY
	301-07448 200-11016 200-11009 703-00931 204-13541 201-13541 204-13540 305-07491 306-07491 206-12444 202-12445 203-12445 205-12445 201-50572 207-50572 200-50590 201-15818 201-17582 308-06792	Harness And Console Assembly (Figure 1, Item 83)  Switch Housing Switch Knob 3 Position Switch (Scan Switch) Cable Clamp Combo-Line Cap Housing, 7 Circuit (To Mute) Combo-Line Cap Housing, 7 Circuit (To Amplifier Phono Spkr. Plug) Combo-Line Plug Housing, 7 Circuit (To Bill Acceptor) Universal Connector Plug Housing, 9 Circuit (To Ext. Speaker) Universal Connector Plug Housing, 12 Circuit (To Money Meter) Mate-N-Lok Socket Housing, 3 Circuit, (To Stepper) Mate-N-Lok Plug Housing, 6 Circuit (To Junction Box) Mate-N-Lok Plug Housing, 15 Circuit (To Wallbox Power Supply and to Mechanism) Mate-N-Lok Plug Housing, 15 Circuit (To Selector) Edge Connector, 6 Circuit (To Coin Switches) Edge Connector, 22 Circuit (To Credit Computer) Lamp Socket (Credit Lamp) Momentary Contact Pushbutton Switch (Credit Switch) Credit Switch Mounting Bracket Access Door Assembly Momentary Contact Pushbutton Switch (Cancel Switch)	REF  1  1  1  1  1  1  1  1  1  1  1  1  1

# FIGURE 23

#### Shell Assembly

FIG. AND INDEX NO.	ROWE PART NO.	DESCRIPTION	QTY. PER ASSY
23-	200-09326 200-11006 201-17506 202-17506 701-02402 719-02401 300-00422 300-06257 401-06001 200-14518 401-06489 400-06206 400-06207 201-15792 301-07443	Tube, Vent Tube, Vent Tube, Vent Tube, Vent Screen, Wire Mesh Screen, Wire Mesh Cover, Hand Hole Cover, Hand Hole Support Bracket Assembly Spring Lock Caster and Cup Assembly Skid Rail Gusset	REF 6 2 1 1 1 1 1 1 1 4 2 1 1 1 1 1 1 1 1 1 1

	ROWE	
	PART	
CODE	NO.	
A	80053003	Screw, Mac
В	80053009	Screw, Mac
C	80322310	Screw, Mac
D E	80351604	Screw, Mac
F	80351606	Screw, Mac
G	80351610 80359022	Screw, Mac Screw, Mac
Н	80413508	Screw, Mac
j	80432304	Screw, Mac
K	80432305	Screw, Mac
L	80433005	Screw, Mac
	80442304	Screw, Mac
N	80442305	Screw, Mac
P	80442306	Screw, Mac
Q	80443004	Screw, Mac
R	80443005	Screw, Mac
S	80443006	Screw, Mac
T	80443008	Screw, Mac
U	80443010	Screw, Mac
V	80444408	Screw, Mac
W	80542307	Screw, Mac
X	80663008	Screw, Mac
Y	80664404	Screw, Mac
Z	80682304	Screw, Mac
AA	80684432	Screw, Mac
AB	80712304	Screw, Mac
AC	80712305	Screw, Mac
AD	80712306	Screw, Mac
AE	80712308 80712310	Screw, Mac
AF AG	80713004	Screw, Mac
AH	80713004	Screw, Mac
AJ	80713006	Screw, Mac Screw, Mac
AK	80713008	Screw, Mac
AL	80713012	Screw, Mac
AM	80713014	Screw, Mac
AN	80713706	Screw, Mac
AP	80714406	Screw, Mac
AQ	80714408	Screw, Mac
AR	80714432	Screw, Mac
AS	80731610	Screw, Mac
AT	80732303	Screw, Mac
AU	80732304	Screw, Mac
AV	80732305	Screw, Mac
AW	80733003	Screw, Mac
AX	80733004	Screw, Mac
AY	80733008	Screw, Mac
AZ	80733014	Screw, Mac
BA	80734404	Screw, Mac
BB	80734406	Screw, Mac
BC	80743708	Screw, Mac
BD	80751610	Screw, Cap
BE	80751614	Screw, Cap
BF	80754408	Screw, Cap

#### STANDARD HARDWARE LIST

8.		ROWE		
		PART		
DESCRIPTION	CODE	NO.	DESCRIPTION	
ne, Pan Hd., 8-32 x 3/16	BG	80782703	Screw, Set, Socket Hd., Cup Pt., 6-32 x 3/16	
ne, Pan Hd., 8-32 x 9/16	BH	80783603	Screw, Set, Socket Hd., Cup Pt., 8-32 x 3/16	
e, Flat Hd., Phil. SL. 6-32 x 5/8	BJ	80784804	Screw, Set, Socket Hd., Cup Pt., 10-32 x 1/4	
e, Rd. Hd., Phil. SL., 4-40 x 1/4	BK	80786108	Screw, Set, Socket Hd., Cup Pt., 1/4-20 x 1/2	
ie, Rd. Hd., Phil. SL., 4-40 x 3/8	BL	82353005	Screw, Self-tapping, Rd. Hd., Phil. SL., Type 23 8-32 x 5/16	
e, Rd. Hd., Phil. SL., 4-40 x 5/8	BM	82662304	Screw, Self-tapping, Hex Wr. Hd., Type23 6-23 x 1/4	
ie, Rd. Hd., Phil. SL., 8-32 x 1-3/8	BN	82662305	Screw, Self-tapping, Hex Wr. Hd., Type 23 6-32 x 5/16	
ne, Hd., Phil. SL., 8-32 x 1/2	BP	82662306	Screw, Self-tapping, Hex Wr. Hd., Type 23 6-32 x 3/8	
ne, Hex Wr. Hd., Swage Form, 6-32 x 1/4	BQ	82662316	Screw, Self-tapping, Hex Wr. Hd., Type 23 6-32 x 1	
ne, Hex, Wr. Hd , Swage Form 6-32 x 5/16	BR	82663004	Screw, Self-tapping, Hex. Wr. Hd., Type 23 8-32 x 1/4	
ne, Hex Wr. Hd., Swage Form, 8-32 x 5/16	BS	82663005	Screw, Self-tapping, Hex Wr. Hd., Type 23	
ne, Hex Wr. Hds., Swage Form, 6-32 x 1/4	BT	82663006	Screw, Self-tapping, Hex Wr. Hd., Type 23 6-32 x 3/8	
ne, Hex Wr. Hd., Swage Form, 6-32 x 5/16	BU	82663008	Screw, Self-tapping, Hex Wr. Hd., Type 23 8-32 x 1/2	
ne, Hex Wr. Hd., Swage Form, 6-32 x 3/8	BV	82663010	Screw, Self-tapping, Hex Wr. Hd., Type 23 8-32 x 5/8	
ie, Hex Wr. Hd., Swage Form, 8-32 x 1/4	BW	82663016	Screw, Self-tapping, Hex Wr. Hd., Type 23 8-32 x 1	
ne, Hex Wr. Hd., Swage Form, 8-32 x 5/16	BX	82664406	Screw, Self-tapping, Hex Wr. Hd., Type 23 10-32 x 3/8	
ne, Hex Wr. Hd., Swage Form 8-32 x 3/8	BY	82664408	Screw, Self-tapping, Hex Wr. Hd., Type 23 10-32 x 1/2	
ne, Hex Wr. Hd., Swage Form, 8-32 x 1/2	BZ	82682310	Screw, Self-tapping, Hex Wr. Hd., Type 23 6-32 x 5/8	
ne, Hex Wr. Hd., Swage Form, 8-32 x 5/8	CA	82682314	Screw, Self-tapping, Hex Wr. Hd., Type 23 6-32 x 7/8	
ne, Hex Wr. Hd., Swage Form, 10-32 x 1/2	CB	82684412	Screw, Self-tapping, Hex Wr. Hd., Type 23 10-32 x 3/4	
ie, Rd. Hd., Phil. SL., Sems, 6-32 x 7/16	CC	83663010	Screw, Self-tapping, Hex Wr. Hd., Type 25 8-32 x 5/8	
ie, Hex Wr. Hd., 8-32 x 1/2	CD	86323620	Screw, Self-tapping, Flat Hd., Phil. SL., Type 17 8 x 1-1/4	
e, Hex Wr. Hd., 10-32 x 1/4	CE	86323624	Screw, Self-tapping, Flat Hd., Phil. SL., Type 17 8 x 1-1/2	
ie, Hex Wr. Hd., 6-32 x 1/4	CF	86332305	Screw, Self-tapping, Oval Hd., Phil. SL., Type 17 6 x 5/16	
ne, Hex Wr. Hd., 10-32 x 2	CG	86332312	Screw, Self-tapping, Oval Hd., Phil. SL., Type 17 6 x 3/4	
e, Hex Wr. Hd., Sems 6-32 x 1/4	CH	86662708	Screw, Self-tapping, Hex Wr. Hd., Type 17 6 x 1/2	
ie, Hex Wr. Hd., Sems 6-32 x 5/16	CJ	86663610	Screw, Self-tapping, Hex Wr. Hd., Type 17 8 x 5/8	
ne, Hex Wr. Hd., Sems 6-32 x 3/8	CK	86663612	Screw, Self-tapping, Hex Wr. Hd., Type 17 8 x 3/4	
ne, Hex Wr. Hd., Sems 6-32 x 1/2	CL	86663616	Screw, Self-tapping, Hex Wr. Hd., Type 17 8 x 1	
e, Hex Wr. Hd., Sems 6-32 x 5/8	CM	87831600	Nut, Hex, 4-40	
ne, Hex Wr. Hd., Sems 8-32 x 1/4	CN	87833000	Nut, Hex, 8-32	
ne, Hex Wr. Hd., Sems 8-32 x 5/16	CP	87841600	Nut, Hex, Keps, 4-40	
ne, Hex Wr. Hd., Sems 8-32 x 3/8	CQ	87842300	Nut, Hex, Keps, 6-32	
ne, Hex Wr. Hd., Sems 8-32 x 1/2	CR	87843000	Nut, Hex, Keps, 8-32	
ne, Hex Wr. Hd., Sems 8-32 x 3/4	CS	87844400	Nut, Hex, Keps, 10-32	
ne, Hex Wr. Hd., Sems 8-32 x 7/8	CT	87845700	Nut, Hex, Keps, 1/4 x 20	
ie, Hex Wr. Hd., Sems 10-24 x 3/8	CU	87853000	Nut, Square 8-32	
ne, Hex. Wr. Hd., Sems 10-32 x 3/8	CV	88931600	Washer, Flat 4	
ie, Hex Wr. Hd., Sems 10-32 x 1/2	CW	88932300	Washer, Flat 6	
ne, Hex Wr. Hd., Sems 10-32 x 2	CX	88933000	Washer, Flat 8	
ne, Hex Wr. Hd., Sems 4-40 x 5/8	CY	88934400	Washer, Flat, 10	
e, Hex Wr. Hd., Sems 6-32 x 3/16	CZ	80374406	Screw, Machine, Truss Hd., Phil. SL., 10-32 x 3/8	
e, Hex Wr. Hd., Sems 6-32 x 1/4	DA	80433008	Screw, Machine, Hex Wr. Hd., Swage Form 8-32 x 1/2	
e, Hex Wr. Hd., Sems 6-32 x 5/16	DB	80433020	Screw, Machine, Hex Wr. Hd., Swage Form 8-32 x 1/2 Screw, Machine, Hex Wr. Hd., Swage Form 8-32 x 1-1/4	
e, Hex Wr. Hd., Sems 8-32 x 3/16	DC	80500508	Screw, Machine, Round Hd., Phil. SL., Sems 2-56 x 1/2	
e, Hex Wr. Hd., Sems 8-32 x 1/4	DD	82681604		
e, Hex Wr. Hd., Sems 8-32 x 1/2	DE	82682304	Screw, Self-tapping, Hex Wr. Hd., Type 23 4-40 x 1/4	
e, Hex Wr. Hd., Sems 8-32 x 7/8	DF	80311608	Screw, Self-tapping, Hex Wr. Hd., Type 23 6-32 x 1/4	
e, Hex Wr. Hd., Sems 10-32 x 1/4	DG	80501610	Screw, Machine, Fillister Hd., Phil. SL., 4-40 x 1/2	
e, Hex Wr. Hd., Sems 10-32 x 1/4	DH	80712303	Screw, Machine, Round Hd., Phil. SL., Sems, 440 x 5/8	
e, Hex Wr. Hd., Sems Swage Form 10-24 x 1/2	DJ	80350909	Screw, Machine, Hex Wr. Hd., Sems 6-32 x 3/16	
ocket Hd., Cup Pt., 4-40 x 5/8	DK	80350912	Screw, Machine, Rd. Hd., Phil. SL., 3-48 x 9/16	
ocket Hd., Cup Pt., 4-40 x 7/8	DL	80350912	Screw, Machine, Rd. Hd., Phil. SL., 3-48 x 3/4	
ocket Hd., Cup Pt., 10-32 x 1/2	DM	80541604	Screw, Machine, Rd. Hd., Phil. SL., 3-48 x 1-1/2	
70000 1100, Cup 1 ti, 10-32 A 1/2	10141	00041004	Screw, Machine, Rd. Hd., Phil. SL. 4-40 x 1/4	