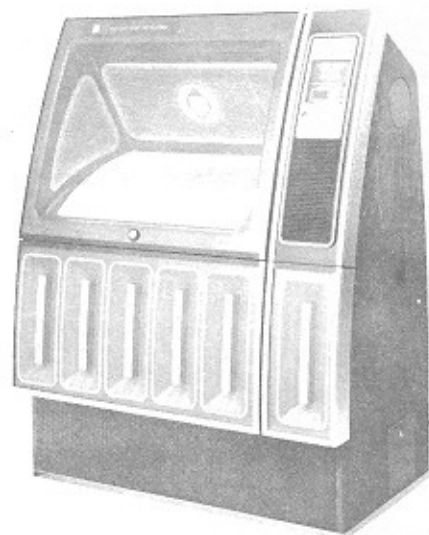


R-82 phonograph



SELECTION SYSTEM

Capacity 200 selections

TRANSFORMER PACKAGE

POWER LEVELS FOR PHONOGRAPH SPEAKERS 1, 4, 16, 28; 64 watts
 PROVIDES 70-VOLT LINE FOR EXTENSION SPEAKERS

SPEAKER SYSTEM

	LOW FREQUENCY	MID/HIGH FREQUENCY (Stereo)	MID/HIGH FREQUENCY (Mono)
SPEAKER DIAMETER	10 inches	6 inches	5-1/4 inches
NUMBER OF SPEAKERS	2	2	1
CROSSOVER		600 Hz.	
SYSTEM FREQUENCY RESPONSE		50 to 15,000 Hz.	

LIGHTING

TITLE PANEL T-8 Fluorescent, 19 watts, 26 inches, 707-0060
 FRONT DOOR T-8 Fluorescent, 30 watts, 36 inches, 712-0060
 KEYBOARD Incandescent, No. 755, 6.3V., (2) 200-50763

FUSES AND CIRCUIT BREAKERS

MAIN POWER SUPPLY, 120 V.

120 VAC Circuit 10 Amp Circuit Breaker, 725-00734
 120 VAC Circuit (Transformer Primary Only) 2 Amp Circuit Breaker, 715-00733
 28 VDC Circuit 3 Amp Slo-Blo Fuse (2), 722-00721
 -27 VDC Circuit 1 Amp Slo-Blo Fuse, 705-00721
 -7 VDC Circuit 2-1/2 Amp Slo-Blo Fuse, 725-00721

MAIN POWER SUPPLY, 220 V or 240V

120 VAC Circuit 6 Amp Circuit Breaker, 722-00734
 28 VAC Circuit 5 Amp Circuit Breaker, 721-00734
 Supply Voltage 3 Amp Circuit Breaker, 717-00734
 28 VDC Circuit 3 Amp Slo-Blo Fuse, 722-00721
 -27 VDC Circuit 1 Amp Slo-Blo Fuse, 705-00721
 -7 VDC Circuit 2-1/2 Amp Slo-Blo Fuse, 725-00721

STEREO AMPLIFIER, 64 W

120 VAC Circuit 1-1/2 Amp Circuit Breaker, 713-00733
 DC Circuit 3 Amp Fuse (4), 708-00720

STEREO AMPLIFIER, 120 W

120 VAC Circuit 3 Amp Circuit Breaker, 717-00733
 DC Circuit 5 Amp Fuse, Type MPH-5 (4), 710-00720

///

IMPORTANT

THIS IS A MODULAR SERVICE MANUAL - PLEASE TAKE THE TIME TO READ THIS PAGE AND REVIEW THE TABLE OF CONTENTS ON THE FRONT OF THE DIVIDER PAGE FOR EACH PART TO OBTAIN MAXIMUM BENEFITS FROM THIS TEXT.

///

This publication is divided into three parts to fully utilize the serviceability which is engineered into each R-82 Phonograph.

PART 1 – INSTALLATION AND MODULAR MAINTENANCE - is intended primarily for location use to provide familiarization with phonograph components and accessories. Included are installation and routine service procedures plus sequential troubleshooting to isolate a malfunction to one of the plug-in circuit modules. The trouble isolation procedure, based entirely on visual observation, utilizes the LED indicator lamps on the main power supply and circuit modules.

PART 2 – SYSTEM AND COMPONENT MAINTENANCE - elaborates on PART 1 to provide information for the repair of major circuit modules and adjustment of the record changer mechanism. This part is intended for an advanced level of maintenance where test equipment is available and service personnel have had electronics training. PART 2 contains one overall system section and three modular sections corresponding to the major phonograph systems.

PART 3 – PARTS CATALOG - contains a complete listing of procurable replacement parts except for electronic components which are listed directly on the schematic diagrams in PART 2.

warranty

Rowe extends to the original operator of this equipment the following warranty:

All parts are guaranteed to be free of defects in material and workmanship for the specific periods which follow. Rowe agrees to repair without charge during such period any part which proves defective upon examination by Rowe. All costs of shipping an allegedly defective part to or from Rowe's offices shall be borne by the original operator.

Mechanical Moving Parts	5 years
Electrical and Electronic Parts	2 years
Lamps and Stylis	90 days

In the case of parts supplied to Rowe as components, Rowe extends the same warranty period as extended by the original manufacturer.

The above warranty applies provided that all parts of the machine have been serviced properly as directed in the service manual, and provided the alleged defective part, upon examination by Rowe, shall prove to be thus defective.

This warranty will not apply to any machine or any part which has been subjected to any accident, abuse, or misuse.

ROWE INTERNATIONAL, INC. EXTENDS NO WARRANTY, EXPRESSED OR IMPLIED, TO PURCHASERS OR USERS OF ITS PRODUCTS EXCEPT AS HEREIN SET FORTH, WHETHER BY OPERATION OF LAW OR OTHERWISE.

8-76

PART ONE

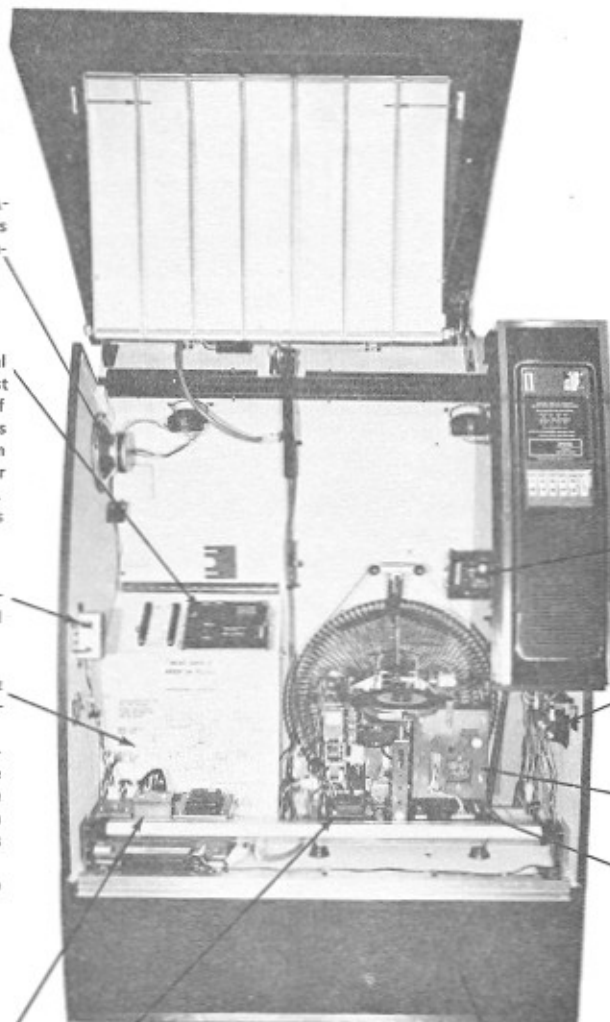
INSTALLATION AND MODULAR MAINTENANCE

SECTION 1 - DESCRIPTION		1-1
INTRODUCTION	1-1	
ACCESSORY EQUIPMENT	1-1	
OPERATION	1-3	
COMPATIBILITY CHART	1-3	
SECTION 2 - INSTALLATION		1-5
INTRODUCTION	1-5	
UNPACKING INSTRUCTIONS	1-5	
LEVEL PHONOGRAPH	1-6	
AMPLIFIER SET-UP	1-7	
SECTION 3 - ROUTINE SERVICE		1-8
INTRODUCTION	1-8	
CHANGING RECORDS	1-8	
CHANGING TITLE STRIPS	1-8	
REMOVING CASH BAG	1-9	
READING AND RESETTING SELECTION COMPUTER	1-9	
REARMING BURGLAR ALARM	1-10	
REPLACING LAMPS	1-10	
CABINET CLEANING	1-11	
CHANGING PHONOGRAPH FUSES AND CIRCUIT BREAKERS	1-11	
SECTION 4 - ISOLATING TROUBLE TO MAJOR COMPONENTS		1-12
INTRODUCTION	1-12	
TROUBLESHOOTING LAMPS	1-12	
HARNESS CONTINUITY	1-12	
CONTINUOUS AND FREE PLAY OPERATION	1-13	
MODULAR TROUBLESHOOTING CHARTS	1-14	





- DIGITAL ANNUNCIATOR** — displays each selection as it is made on keyboard below, scan cycle, and selection playing.
- SELECTION KEYBOARD** — enters customer's selection.
- DOLLAR BILL ACCEPTOR** — enters selection credit for a dollar bill (optional).
- MID- HIGH FREQUENCY SPEAKER** — provides extended range and clarity.



MID- HIGH FREQUENCY SPEAKERS — two 6-inch wide range speakers distribute sound over a large area. Matching capacitors are provided.

SELECTION COMPUTER — digital display shows the selections chosen most often or least often and the number of times each selection is made. Selections are displayed one at a time starting from the most popular to the least popular or the least popular to the most popular. This unit also displays total selections made.

SCAN CONTROL CONSOLE — contains scan switch for rotating record changer mechanism.

PREAMPLIFIER, AMPLIFIER, & OUTPUT TRANSFORMER PACKAGE — amplify cartridge output and drive speaker system. Output transformer matches speaker system impedance to amplifier output and provides a wide variety of impedance taps for extension speakers including 70.7 volt lines. Units are mounted in a separate chamber to reduce airflow through cabinet and keep records clean.

MAIN POWER SUPPLY — distributes 120-volt power to components and provides 28 VAC, 28 VDC, -7 VDC, and -27 VDC. All supplies are regulated and circuit breaker protected.

MECHANISM CONTROL UNIT — controls scan, transfer, and toggle shift functions of mechanism.

LOW FREQUENCY SPEAKERS — two 10-inch speakers in a duct-tuned bass reflex enclosure.

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

SELECTOR LOGIC — operates digital annunciator display and transmits selection data to memory unit on record changer mechanism. Includes free play switch.

ENCODER — positions record magazine for desired selection.

MEMORY UNIT — stores customer record selections which have not been played. Includes built-in charger to maintain selections in memory if power is turned off. Features **AUTO-PLAY** which automatically plays a selection at random every 20 or 40 minutes. Continuous random play is also possible.

FIGURE 1-1. PHONOGRAPH MAJOR COMPONENTS