

R-81 PHONOGRAPH

Service
Manual

Parts
Catalog

Rowe International, Inc.
A SUBSIDIARY OF TRIANGLE INDUSTRIES, INC.
75 TROY HILLS RD., WHIPPANY, N.J. 07981, TEL. (201) 887-0400, CABLE: ROVENO

PART NO. 201-17810
FIRST EDITION

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, 60 Hz., 320 watts, 3.4 Amps 220 vac, 50 Hz., 375 watts, 2.5 Amps

RECORD CHANGER MECHANISM

CAPACITY	100 records
RECORD SIZE	7 inches
SPEED	45 RPM 33 and 45 RPM with optional Automix

CREDIT AND PRICING SYSTEM

ACCUMULATOR TYPE CREDIT COMPUTER -- DOLLAR BILLS	OPTIONAL
COINS ACCEPTED	Nickels Dimes Quarters Half-Dollars with optional 4-coin rejector
TOTAL CREDIT ACCUMULATIONS	255 Standard Plays
PRICING	See pricing chart

SOUND SYSTEM

CARTRIDGE

T Y P E	Shure Dynetic variable reluctance
FREQUENCY RESPONSE	20 to 20,000 Hz
CHANNEL SEPARATION	25 db @ 1,000 Hz
NOMINAL COMPLIANCE	7.5×10^{-6} cm/dyne
TRACKING FORCE	4 grams
OUTPUT	7 mv.
STYLUS	0.7 mil, diamond

POWER AMPLIFIER POWER RATINGS

64 watt	
Music Power 70V Line @ 1% THD, Actual RMS.	63 watts
FTC Rating, 70V Line @ 1% THD	46 watts
120 watt	
Music Power 70V Line @ 1% THD, Actual RMS.	148 watts
FTC Rating, 70V Line @ 1% THD	122 watts

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 bass loss at low volume levels 12 db per octave

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SELECTION SYSTEM

CAPACITY 200 selections

TRANSFORMER PACKAGE

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

SPEAKER SYSTEM

	LOW FREQUENCY	MID-HIGH FREQUENCY
SPEAKER DIAMETER	10 inches	6 inches
CROSSOVER	600 Hz.	
SYSTEM FREQUENCY RESPONSE	50 to 15,000 Hz	

LIGHTING

SELECTOR AND TITLE RACK T-12 Fluorescent, 25 watts, 33 inches, 706-00601
 FRONT DOOR T-12 Fluorescent, 25 watts, 33 inches, 706-00601
 CREDIT WINDOW 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	1/2 Amp Slo-Blo Fuse, 701-00721
-7 VDC	2-1/2 Amp Slo-Blo Fuse, 725-00721

MAIN POWER SUPPLY, 220 V or 240 V

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	1/2 Amp Slo-Blo Fuse, 701-00721
-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

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IMPORTANT
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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.
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This publication is divided into three parts to fully utilize the serviceability which is engineered into each R-81 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 Styli	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.

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