

# R-83 phonograph

Service Manual Farts Catalog

Advanced design...increased profits: your return on our investment.

**Customer Services Tech Aid-800-631-8084** 

PART NO. 2-18000-01

SIXTH EDITION

JUNE, 1979

#### **SPECIFICATIONS**

#### GENERAL

DEPTH					4	,	26 inches (66cm)
WIDTH							/ + = lo :
HEIGHT							56 inches (142 cm)
SHIPPING WEIGHT (DOMESTIC)							
SHIPPING WEIGHT (EXPORT).							
NET WEIGHT							
							120 vac, 60 Hz., 300 watts, 3.4 Amps
							220 vac, 50 Hz., 350 watts, 2.3 Amps

#### RECORD CHANGER MECHANISM

CAPACITY .										100 records
RECORD SIZE										
SPEED				,						45 RPM
										33 and 45 RPM (with optional Automix)

#### CREDIT AND PRICING SYSTEM

ACCUMULATOR TYPE CREDIT COMPUTER - DOLLAR BILLS C	PTIONAL
COINS ACCEPTED	Nickels
	Dimes
	Quarters
	Half-Dollars
TOTAL CREDIT ACCUMULATIONS	255
PRICING	

#### SOUND SYSTEM

CARTRIDGE
TYPE
FREQUENCY RESPONSE 20 to 20,000 Hz.
CHANNEL SEPARATION
NOMINAL COMPLIANCE 7.5 x 10 <sup>-6</sup> cm/dyne
TRACKING FORCE 4 grams
OUTPUT
STYLUS 0.7 mil, diamond
POWER AMPLIFIER
125 watt Stereo
FTC Rating, 4 Ohm Loads @1% THD 144 watts RMS
FTC Rating, 70V Lines @1% THD 126 watts RMS

PRE	AMPLIFIER						4141	
	AVC CONTROL RANGE.							40 db
	TREBLE CONTROL							
								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

#### TRANSFORMER PACKAGE

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

SPEAKER SYSTEM			F	LOW REQUENCY	MID/HIGH FREQUENCY (Stereo)	MID/HIGH FREQUENCY (Mono)
SPEAKER DIAMETER	1	3		10 inches	6 inches	5-1/4 inches
NUMBER OF SPEAKERS	37			2	2	1
CROSSOVER		٥.			600 Hz.	
SYSTEM FREQUENCY RESPONSE		5			50 to 15,000 Hz.	

#### LIGHTING

TITLE PANEL AND CREST .			63			. (2)	T-8 Fluorescent, 19 watts, 26 inches, 7-00601-01
FRONT DOOR			100	100			T-8 Fluorescent, 30 watts, 36 inches, 7-00601-12
KEYBOARD			65				Incandescent, No. 755, 6.3V., (2) 2-50763-00

#### FUSES AND CIRCUIT BREAKERS

MAIN POWER SUPPLY, 120 V.	
120 VAC Circuit	10 Amp Circuit Breaker, 7-00734-25
	) 2 Amp Circuit Breaker, 7-00733-15
28 VDC Circuit	3 Amp Slo-Blo Fuse (2), 7-00721-22
-27 VDC Circuit	1 Amp Slo-Blo Fuse, 7-00721-05
-7 VDC Circuit	
MAIN POWER SUPPLY, 220 V or 240V	
120 VAC Circuit	6 Amp Circuit Breaker, 7-00734-22
28 VAC Circuit	5 Amp Circuit Breaker, 7-00734-21
Supply Voltage	
28 VDC Circuit	
-27_VDC Circuit	1 Amp Slo-Blo Fuse, 7-00721-05
-7 VDC Circuit	
STEREO AMPLIFIER 125W	
120 VAC Circuit	3 Amp Circuit Breaker, 7-00733-17
DC Circuit	

#### 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-83 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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