

R-85 Phonograph

Field Service Manual and Parts Catalog

Customer Services Tech. Aid-800-631-8084

PART NO. 2-18226-02 THIRD EDITION MARCH 1981

SPECIFICATIONS:

GENERAL	
DEPTH WIDTH HEIGHT SHIPPING WEIGHT (DOMESTIC) NET WEIGHT POWER REQUIREMENTS 120 220/24	41-1/2 in. (105.4 cm.)
RECORD CHANGER MECHANISM	
CAPACITY	7 inches
CREDIT AND PRICING SYSTEM	
ACCUMULATOR TYPE CREDIT SYSTEM - DOLLAR BILI COINS ACCEPTED	S OPTIONAL Nickels Dimes Quarters Half-Dollars
TOTAL CREDIT ACCUMULATIONS	Dollar Coins
SOUND SYSTEM	
CHANNEL SEPARATION	20 to 20,000 Hz. 25 db @ 1,000 Hz. 20 x 10 ⁻⁶ cm/dyne 3-4 grams
POWER AMPLIFIER 125 watt Stereo FTC Rating, 4 Ohm Loads @ 1% THD FTC Rating, 70V Lines @ 1% THD	144 watts RMS
PREAMPLIFIER AVC CONTROL RANGE TREBLE CONTROL	
BASS CONTROL	Compensates for bass loss at low volume levels 12 db per octave.

[©] ROWE INTERNATIONAL, INC. Printed in U.S.A.

R-85 PHONOGRAPH



SELECTION SYSTEM

CAPACITY	* * * * * * * * * * * *	. 200 Selections
TRANSFORMER PACKAGE		
POWER LEVELS FOR PHONGRAPH SPE	AKERS	1, 4, 16, 28, 64 warts ENSION SPEAKERS
SPEAKER SYSTEM	LOW FREQUENCY	MID/HIGH
SPEAKER DIAMETER VOICE COIL DIAMETER IMPEDANCE CROSSOVER	10 inches 1-1/2 inches 30 ohms	FREQUENCY 6 inches 1 inch 8.5 ohms
SYSTEM FREQUENCY RESPONSE .		50 to 12,000 Hz.
LIGHTING		
FRONT DOOR (Lower and Upper) .	Fluorescent, 30 watts, 36 in	ch (T-8), 7-00601-12
CONTROL PANEL	Fluorescent 13W, 21 inch.	Part No. 7-00601-15
CREDIT WINDOW	Light Emittin	ng Diode 7-00353-03
DISCO FLASHING LIGHTS		-1 3/4 Sub miniature 2V, 1 Watt
FUSES AND CIRCUIT BREAKERS		
MAIN POWER SUPPLY 120 VAC CIRCUIT (Transformer Primary Only) 120 VAC CIRCUIT	2 Amp Circuit	Breaker, 7-00733-15
+ 28 VDC CIRCUIT	5 Amp Slo-H	Blo Fuse 7-00721-06
AMPLIFIER Stereo - 125 W		
120 VAC CIRCUIT	3 Amp Circuit 5 Amp Fuse, Type M7	

IMPORTANT

THIS IS A SECTIONALIZED SERVICE MANUAL/PARTS CATALOG. PLEASE TAKE THE TIME TO READ THIS PAGE, AND REVIEW THE TABLE OF CONTENTS THOROUGHLY TO OBTAIN MAXIMUM BENEFITS FROM THIS PUBLICATION.

The first five sections of this Manual are organized to fully realize the serviceability which is engineered into each Phonograph.

These sections are intended primarily for location use to provide familiarization with phonograph components and accessories. Included are detailed system descriptions, procedures for unpacking, set up & installation, programming, routine location servicing and a valuable procedure guide for sequential troubleshooting to isolate a malfunction to one of the plug-in circuit modules.

The troubleshooting isolation procedure detailed in Section 4 is based entirely on visual observation, utilizing the LED indicator lamps on the main power supply and circuit modules. Also in Section 4 are comprehensive Block and Wiring Diagrams.

Section 5 illustrates locations of fuses and circuit breakers and offers a compatability chart.

Section 6, the PARTS CATALOG, contains a complete listing of procurable replacement parts except for electronic components that are listed directly on the wiring diagrams.

A separate publication, OPERATION SEQUENCE AND SCHEMATICS, elaborates to provide information for the repair of circuit boards and the replacement of electronic components. The information and procedures are intended for an ADVANCED LEVEL OF MAINTENANCE where test equipment is available and service personnel have had electronics training. This publication is available from your distributor, Please order Part No. 3-65355-06.

WARNING: This equipment generates, uses, and can radiate radio frequency energy. Operation of this equipment in a residential area could cause interference to radio communications. If this should happen contact your distributor or Rowe International, Inc. directly. As permitted by regulation it has not been tested for compliance pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference.

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.

TABLE OF CONTENTS

																			PAGI
SPECIFICAT	TIONS																		i
HOW TO US	E THIS MANUAL																		iii
SECTION 1	- SYSTEM DESCRIF	PTIC	NC	Į															
	Introduction - Major C	`omi	nor	ann	te														1
	Mechanism															2			1
	Central Control Comp													35					1
	Sound System .																		2
	Selection System																		3
	Power Supply .																		3
	Accessory Equipment		•	٠	35		•	٠	15	•	•			1	53	•	٠	•	5
SECTION 2	· INSTALLATION A	NE) P	RC	og	RA	M	мі	NG	i									
	Introduction																		6
	Unpacking Instruction																		6
	Programming - Credit																		7
	Operational Information																		9
	Sound System																		10
	Record Changer - Mecl																		17
	Coin Switch Adjustme																		24
	Coin Acceptor														•				25
SECTION 3	- ROUTINE SERVIC	Ē																	
	Introduction																		27
	Changing Records .																		27
	Changing Title Strips																	়	27
	Removing Cash Bag																		27
	Reading Memorec .																		28
	Replacing Lamps .														•		•		29
	Cleaning	10	•	,	•	•	•	÷	(*)		53	•				•	•	•	29
SECTION 4	- TROUBLESHOOT	INC	à																
	Introduction		0			140	20	Ç.	10		50	2.9		12					30
	Continuous Free Play																		30
	Troubleshooting Chart														200				31
	Sequence of Operation												20						35
	Block Diagram																		66
																Ċ			68
	Sound System Quick (·		24	6	ĸ						٠	70
SECTION 5 -	ADDITIONAL INF	OR	M	ΑТ	10	N													
	Location of Fuses & Ci Compatability Chart .	rcui	t B	rea	ker	s					× 1							•	72 73
SECTION 6	- PARTS CATALOG			112															74

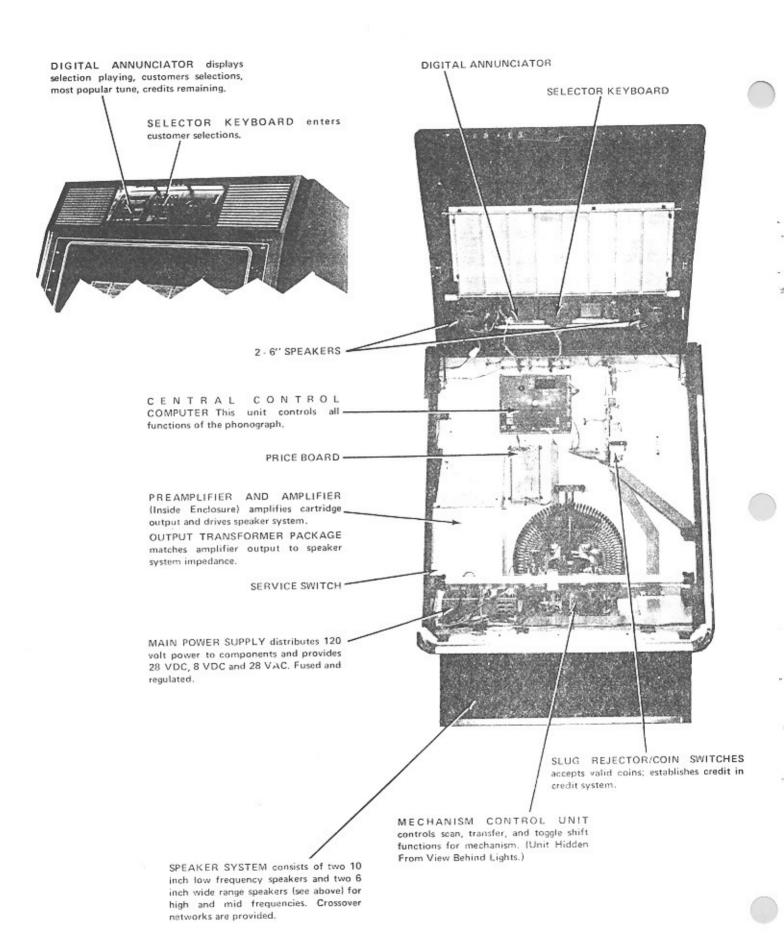


FIGURE 1. PHONOGRAPH MAJOR COMPONENTS