



CD-100A

LaserStar[®]

***Compact Disc
Phonograph***

**Field Service Manual
& Parts Catalog**

Volume 1 of 2

Installation, Programming, Routine Service

**PART NO. 21822616
SECOND EDITION**

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.

Phono Mechanism Moving Parts	5 Years
Electronic Circuit Boards	2 Years
Electrical and Mechanical Parts	1 Year
Lamps and Stylus	90 Days
CD Players, VCR's, Monitors, and CD Decks	1 Year

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.



WARNING:

When servicing, do not approach the laser exit with the eye too closely. In case it is necessary to confirm laser beam emission, be sure to observe from a distance of more than 10 inches from the surface of the objective lens on the optical pick-up block.



WARNING:

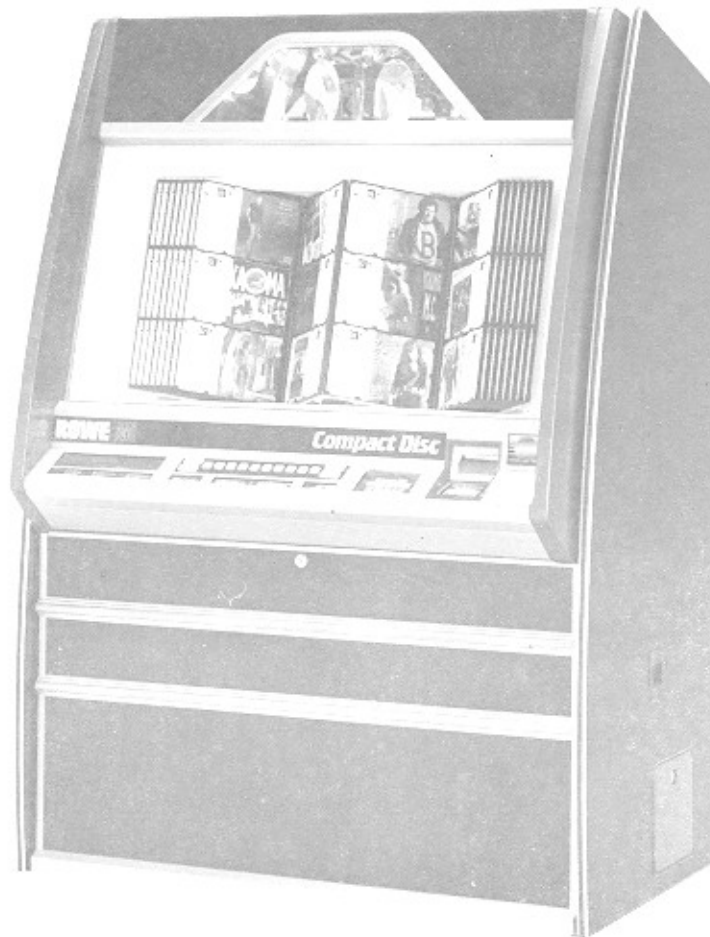
This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

CD-100A

LaserStar[®] Compact Disc Phonograph

Field Service Manual And Parts Catalog

Volume 1



ROWE

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Preface

To make installation easier, this manual describes a typical installation. This "typical" installation only includes pricing and security code programming information.

If you wish to make further programming changes, make them using the information that follows the basic installation. This manual contains all of the information that was previously available in the *Enhanced Features Supplement*. If you have a copy of the Enhanced Features Supplement, you may use it with a CD-100, but do not use it with a CD-100A.

Because this manual has become so large, we have split it into two parts. The split is between Sections 3 and 4. The first half, Volume 1, contains routine installation and service information. The second half, Volume 2, contains troubleshooting charts, schematics, and other maintenance information. Please take time to read this page and review the *Table of Contents* in both volumes.

The *Troubleshooting* section has been expanded to include schematics, component lists, and board layouts for all serviceable modules.

This service manual is divided into eight sections:

Volume 1

- **Section 1** **System Description** — Introduces you to the CD-100A, its features, and its major components, principles of operation, and step-by-step unpacking instructions. After unpacking the CD-100A, you should continue the installation process by following the title rack loading and programming instructions in *Section 2*.

- **Section 2** **Installation And Programming** — Continues the installation process with disc and title rack loading instructions, programming references, and step-by-step programming and pricing instructions. Whether you are familiar with previous Rowe phonographs or not, pay special attention to the pricing and programming.

Programming and pricing have been set at the factory, so you may not wish to change any of the CD-100A options. After you load the titles and the discs, the CD-100A is ready to play.

- **Section 3** **Routine Service** — Provides routine service instructions for collecting money, doing cash and play audits, resetting phonograph totals, and doing preventive maintenance.

Volume 2

- **Section 4** **OBA-2 Maintenance** — Contains all OBA-2 maintenance information, except for the OBA-2 replacement parts, which are in the *Parts Catalog*.

- **Section 5** **Troubleshooting** — Provides troubleshooting charts, error code and disc condition descriptions, troubleshooting procedures, block diagrams, schematics, circuit board layouts, and component lists. This section also contains the sequence of operation.

- **Section 6** **Mechanical Adjustments** — Details the mechanical checks and adjustment procedures for all of the CD-100A's modules, except for the OBA-2 modules, which are described in *Section 4*.

- **Section 7** **Miscellaneous** — Contains specifications, fuse and circuit breaker locations, and a resistor color code chart.

- **Section 8** **The Parts Catalog** — Lists and illustrates all replaceable modules in the CD-100A. The Accessory Equipment List is at the end of this section.

This manual is intended for owners, route operators, and technicians. This manual provides all field and shop related service and maintenance material. Accessories and their installation and service are discussed in the corresponding accessory instructions (or manuals).

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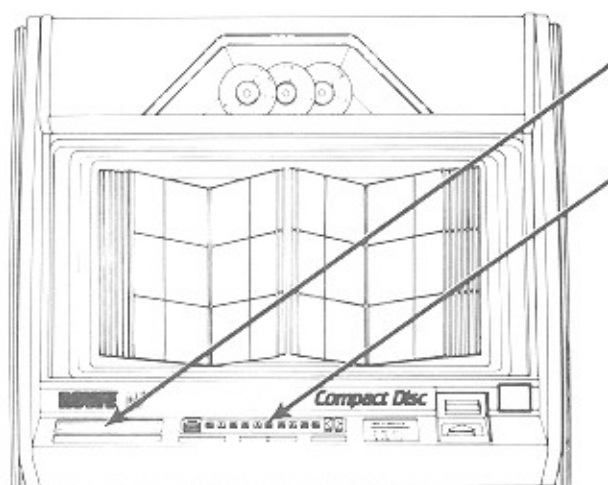
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DIGITAL DISPLAYS -
Show the SELECTION PLAYING, SELECTION BEING MADE, SELECTIONS REMAINING, and SERVICE MODE DISPLAY.

SELECTOR KEYBOARD -
Enters numbers and contains the POPULAR and RESET Keys

BILL ACCEPTOR - Accepts \$1 and \$5 bills

COIN ACCEPTOR - Accepts coins

CENTRAL CONTROL COMPUTER -
Controls all functions of the Phonograph

OUTPUT TRANSFORMERS -
Provide connections to the speakers

SERVICE SWITCH -
Selects the mode of operation

AMPLIFIER COMPARTMENT -
Contains the Amplifier and Main Power Supply

CD MECHANISM -
Selects and plays discs

FRONT DOOR LATCHES -
Allow the front door to swing out

HANDY CASE -
Contains the Service Manual and spare parts

SPEAKER SYSTEM -
Woofers and High/Midrange (not shown) Speakers

MECHANISM CONTROL UNIT -
Controls Disc Mechanism

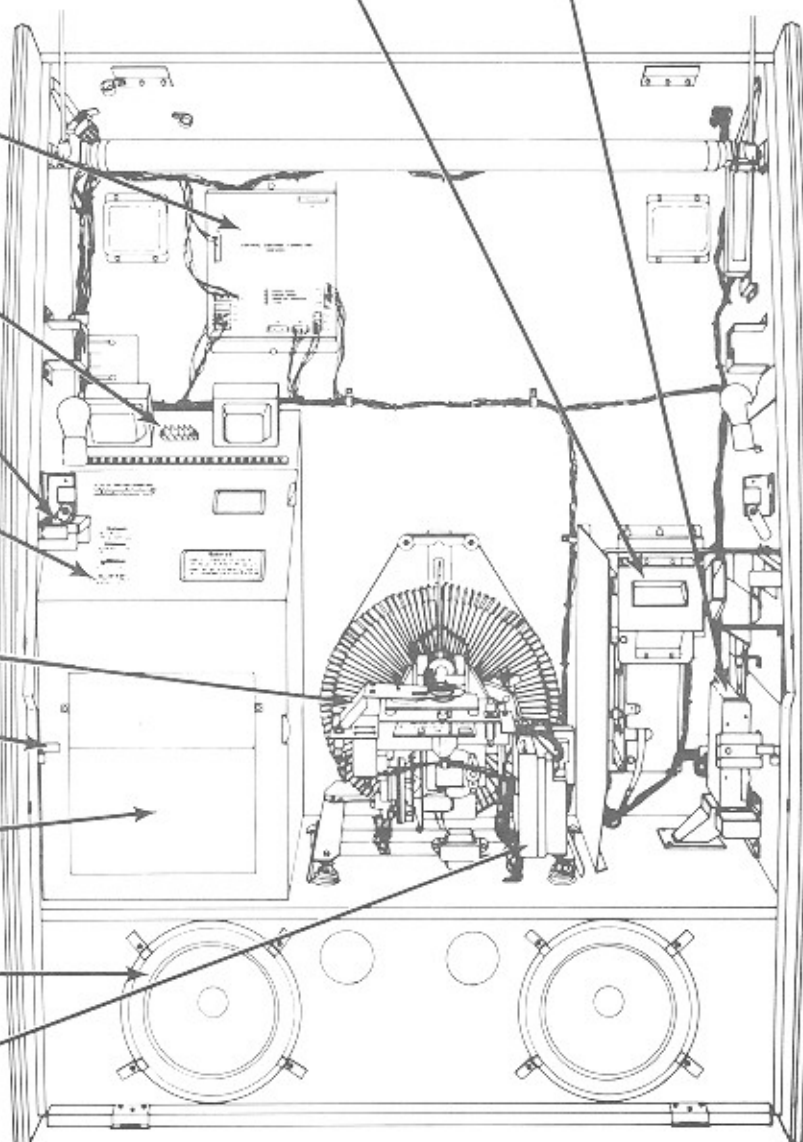


Figure 1-1. CD-100A Major Components