

Service Manual
Parts Catalog



**Model
R-74
phonograph**

TABLE OF CONTENTS

SECTION 1 - DESCRIPTION	1-0
MAJOR COMPONENTS	1-0
GENERAL	1-1
ACCESSORY EQUIPMENT	1-1
COMPATABILITY CHART	1-3
BILL CHANGER INTERCHANGEABILITY	1-5/1-6
 SECTION 2 - INSTALLATION	 2-1
GENERAL	2-1
UNPACKING INSTRUCTIONS	2-1
ACOUSTICAL COMPENSATION	2-2
AMPLIFIER SET-UP	2-3
REMOTE VOLUME AND CANCEL CONTROL	2-3
FULL COVERAGE SOUND SYSTEM CONNECTION CHART	2-4
POWER LEVEL SETTINGS	2-6
SPECIAL CONSIDERATIONS FOR WALLETTTE INSTALLATIONS	2-6
PRICING	2-7
INSTALLING RECORDS AND TITLE STRIPS	2-13
FINAL CHECKOUT	2-13
 SECTION 3 - ROUTINE SERVICE	 3-1
GENERAL	3-1
CHANGING RECORDS	3-1
CHANGING TITLE STRIPS	3-1
REMOVING CASH BAG	3-1
READING AND RESETTNG POPULARITY METER	3-2
REARMING BURGLAR ALARM	3-2
REPLACING LAMPS	3-3
CABINET CLEANING	3-3
CHANGING PHONOGRAPH FUSES AND CIRCUIT BREAKERS	3-4
 SECTION 4 - TROUBLESHOOTING	 4-1
GENERAL	4-1
TROUBLESHOOTING	4-1
SEQUENCE OF OPERATION	4-9
PRINCIPLES OF OPERATION	4-24
 SECTION 5 - MAINTENANCE	 5-1
GENERAL	5-1
PREVENTIVE MAINTENANCE	5-1
ADJUSTMENTS	5-2
REPAIR AND REPLACEMENTS	5-29
 SECTION 6 - SCHEMATIC AND WIRING DIAGRAMS	 6-1
 SECTION 7 - PARTS CATALOG	 7-1
 INDEX	 IN-1

A

Accessories Bag Assembly, Description	2-1
Accessory Equipment, Table of	1-1
Acoustical Compensation, Table	2-2
Adjustments (See Specific Assembly For Adjustment)	
Table of Contents	5-2
Amplifier	
Compensation for Room Acoustics	2-2
Parts List, 120 Watt	6-7
Parts List, 120 Watt	6-8
Principles of Operation	4-28
Schematics, 64 Watt	6-7
Schematics, 120 Watt	6-8
Set Up	2-3
Wiring Diagram, 64 Watt	6-9
Wiring Diagram, 120 Watt	6-10
Annunciator Assembly	
Location	4-24
Principles of Operation	4-25
Automix	
Adjustment	5-19
Principles of Operation	4-25
B	
Balance, Stereo	2-3
Bass Control	2-3
Bill Acceptor	
Interchangeability Between Models	1-5/1-6
Burglar Alarm	
Description	1-1
Parts Breakdown	7-47
Rearming	3-2
C - D	
Cam and Trunnion Drive Gear Adjustment	5-10
Cam Switch	
Adjustments	5-4
Function, Table	4-25
Location, Figure 4-	4-25
Cam Switch and Motor Assembly	
Adjustments	5-4
Location	4-24
Parts Breakdown	7-32
Principles of Operation	4-25
Cash Bag, Removal	3-1
Checkout, Final	2-13
Cabinet	
Cleaning	3-3
Parts Breakdown	7-48
Cleaning	
Cabinet	3-3
Interior	5-1
Coin Switches	
Adjustments	5-28
Principles of Operation	4-28
Compatibility Chart, Accessories to Model	1-3
Counter Selection	
Location	4-24
Principles of Operation	4-25
Credit Computer	
Pricing	2-7
Principles of Operation	4-27
Troubleshooting	4-1
Credit System	
Description	1-1
Pricing	2-7
Principles of Operation	4-27
Specification	iv
Wiring Diagram	6-18
Description, Section 1	1-1
Diodes, Testing	5-30

E - F - G - H - I - J - K - L

Extension Speaker Connections	2-5
Fuses	
Changing	3-4
Location	3-4
Specifications	v
Hardware List	7-49/7-50
Harness, Phono	
Parts Breakdown	7-48
Wiring Diagram	6-4
Installation, Section 2	2-1
Junction Box	
Location	1-0
Parts Breakdown	7-46
Principles of Operation	4-24
Schematic	6-17
Wiring Diagram	6-17
Lamps	
Replacing	3-3
Specifications	v
License Card, Installing	2-2
Lubrication	5-1

M - N - O

Magazine Assembly	
Belt Adjustment	5-12
Location	4-24
Parts Breakdown	7-22
Principles of Operation	4-25
Stopping Position Adjustment	5-13
Transfer Arm Support Adjustment	5-11
Magazine Motor	
Adjustments	5-3
Location	4-24
Parts Breakdown	7-42
Principles of Operation	4-25
Maintenance - Section 5	5-1
Maintenance, Preventive	5-1
Major Components, Phonograph	1-0
Output Transformer Package	
Connections	2-4
Parts Breakdown	7-45
Power Level Settings	2-6
Principles of Operation	4-30
Schematic, 64 Watt	6-11
Schematic, 120 Watt	6-12
Wiring Diagram, 64 Watt	6-13
Wiring Diagram, 120 Watt	6-14

P - Q

Parts Catalog, Section 7	7-1
Parts Breakdown	7-2
Table of Contents	7-0
Phonograph	
Adjustments	5-2
Harness Wiring Diagram	6-4
Installation	2-1
Major Components	1-0
Parts Breakdown	7-2
Principles of Operation	4-24
Schematic	6-3
Troubleshooting	4-1
Playmeter Wheel Assembly - See Popularity Meter	
Popularity Meter	
Alignment	5-14
Location	4-24
Parts Breakdown	7-29
Principles of Operation	4-24
Reading and Resetting	3-2

Preamplifier	
Adjustments	2-2
Controls	2-3
Parts List	6-6
Principles of Operation	4-28
Schematic	6-6
Premium Pricing	
Installation	2-13
Principles of Operation	4-28
Preventive Maintenance	5-1
Pricing	
Setting	2-7
Switches, By Function	2-12
System, Principles of Operation	4-27
Principles of Operation	4-24

R

Record Changer Mechanism	
Adjustments See Table 5-1	5-2
Parts Breakdown	7-20
Principles of Operation	4-24
Transfer Arm	4-25
Troubleshooting	4-6
Wiring Diagram	6-5
Record of Revision or Change	ii
Records, Installing	2-13, 3-1
Remote Volume Control Connections	2-6
Repair and Replacement	5-29
Routine Service, Section 3	3-1

S

Scan Control Assembly	
Adjustments	5-15
Parts Catalog	7-44
Principles of Operation	4-25
Schematics and Wiring Diagram, Section 6	6-1/6-2
Table of Contents	6-1/6-2
Search Unit	
Adjustments	5-20
Gear Adjustment	5-20
Parts Breakdown	7-36
Principles of Operation	4-26
Sprag Relay, Adjustment	5-22
Wiper Adjustment	5-25
Wiring Diagram	6-16
Search Unit and Pinwheel Assembly	
Parts Breakdown	7-30
Principles of Operation	4-25
Sector Gear, Adjustment	5-8
Select Coil, Adjustment	5-27
Selector and Speaker Panel Assembly	7-8
Selector Assembly	
Parts Breakdown	7-12
Wiring Diagram	6-15
Selection System	
Principles of Operation	4-26
Troubleshooting	4-4
Sequence of Operation	4-9
Shell Assembly, Parts Breakdown	7-48
Side Panel, Parts Breakdown	7-18
Slug Rejector	
Installation	2-14
Location	1-0
Principles of Operation	4-28
Troubleshooting	4-4
Sound System	
Connection Chart	2-5
Principles of Operation	4-28
Troubleshooting	4-8

Speakers	
Location	1-0
Specifications	4-31/4-32
System, Principles of Operation	4-31/4-32
Specifications, Model R-74	iv
Sprag Assembly (Magazine Motor)	
Adjustments	5-3
Parts Breakdown	7-42
Principles of Operation	4-25
Sprag Relay, Adjustment	5-22
Standard Hardware List	7-49/7-50
Stop Switch Assembly	
Adjustments	5-5
Parts Breakdown	7-40
Principles of Operation	4-25

T

Table of Contents	
Adjustments	5-2
Parts Catalog	7-0
Schematics	6-1
Service Manual	iii
Title Strips	
Installing	2-13
Charging	3-1
Toggle Shifter Link, Adjustment	5-10
Tone Arm	
Adjustments	5-9, 5-16
Parts Breakdown	7-30
Principles of Operation	4-25
Stylus and Cartridge, Operation	4-28
Tone Arm Cam, Adjustment	5-9
Top Access Door, Parts Breakdown	7-19
Top Door Assembly, Parts Breakdown	7-14
Transfer Arm	
Adjustments	5-11, 5-13
Principles of Operation	4-25
Support, Adjustment	5-11
Transformer, Output Package	
Connections	2-4
Parts Breakdown	7-45
Principles of Operation	4-30
Schematic, 64 Watt	6-11
Schematic, 120 Watt	6-12
Wiring Diagram, 64 Watt	6-13
Wiring Diagram, 120 Watt	6-14
Transistors	
Testing	5-29
Darlington, Replacing	5-30
Darlington, Testing	5-29
Treble Control	2-1
Troubleshooting, Section 4	4-1
Credit Computer	4-4
Selection System	4-4
Slug Rejector	4-4
Sound System	4-8
Record Changer Mechanism	4-6
Turntable Motor and Plate Assembly	
Parts Breakdown	7-31
Principles of Operation	4-25

U - V - W - X - Y - Z

Unpacking Phonograph	2-1
Volume Control	
Remote Accessory	1-3
Remote, Connections	2-3
Wallbox Connections	2-5
Warranty	ii
Wiring Diagrams and Schematics, Section 6	6-1/6-2
Table of Contents	6-1/6-2