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Jukebox Specifications

A

Jukebox Specifications

	CD-8 BUBBLER	CD-4 MODELS CD-6 PEACOCK
Dimensions:		
Uncrated:		
Height	61"	64 1/4"
Width	33 1/2"	33 1/2"
Depth	26 3/4"	26 3/4"
Crated:		
Height	73"	73"
Width	39"	39"
Depth	32"	32"
Weight:		
Uncrated	284 Lbs.	287 Lbs.
Crated	341 Lbs.	344 Lbs.

Amplifier:	
Output Power:	Main amplifier 450 peak music power External amplifier 450 peak music power
Protection:	Speaker overload High temperature Over voltage Under voltage Automatic, self resetting
Frequency:	30 - 20,000 Hz
Input Power:	Domestic / Export
Voltage:	115V / 230V
Frequency:	60 Hz / 50 Hz
Maximum Power Consumption:	Watts Standby / Max 225 / 800
Speakers:	(2) Tweeter 3" (2) Midrange 6-1/2" (1) Woofer 10" dual voice coil



S E C T i O N

B

Setup and Preparation

- Major Component Location
- Unpacking the Phonograph
- Power up
- Loading Program Pages
- Loading Compact Discs
- Repacking/Moving

Thank you for purchasing your new **Rock-Ola SyberSonic Compact Disc Jukebox**. This manual will provide instructions for operating your new phonograph. If after reading the manual you have any questions about the operation of the jukebox, please call your authorized dealer. With a little practice, operation will become natural. Start by identifying the major components in the jukebox.

Major Component Location

- | | | |
|------------------------------------|-------------------|--------------------------------|
| 1. Computer | 5. CD Magazine | 9. Speaker 10" dual voice coil |
| 2. Dual Digital Amp & Power Supply | 6. Coin Mechanism | 10. Scan/Cancel Switch |
| 3. Volume Control | 7. Service Switch | 11. Power Cut Off Switch |
| 4. CD Player | 8. Crossover | 12. Power Transformer |

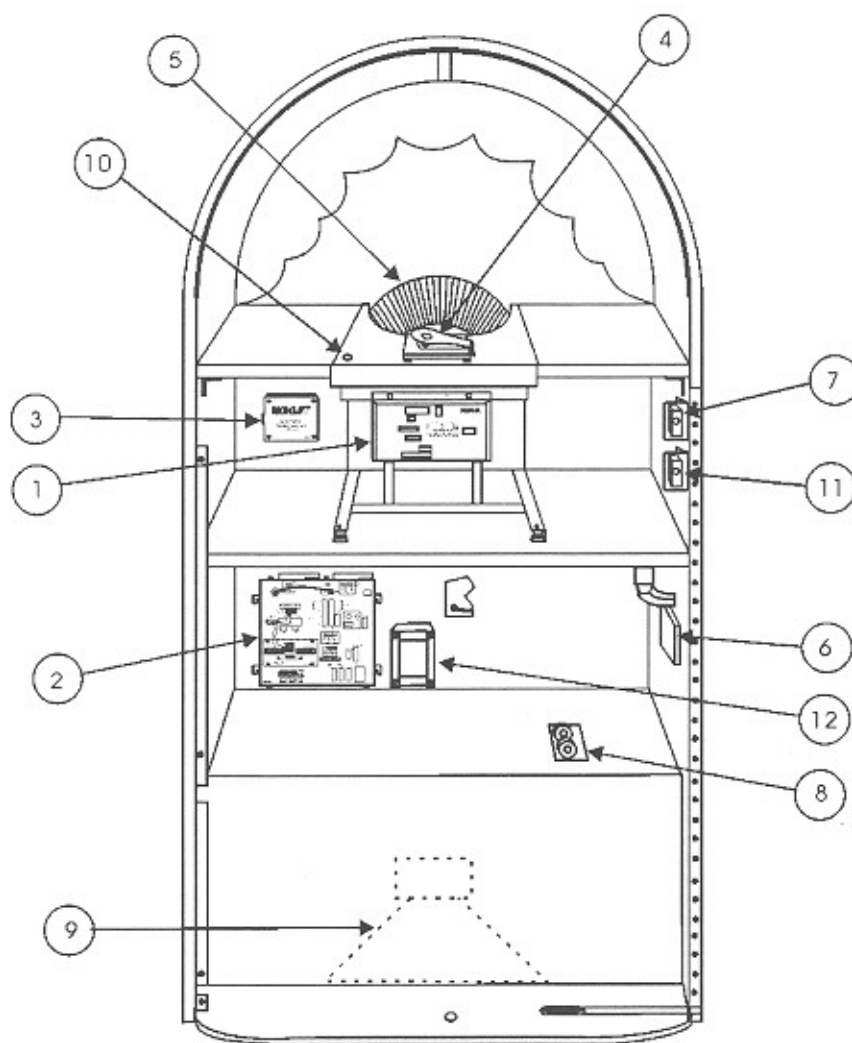


Figure 1B

WARNING

Do not apply AC power until the following instructions indicate you should.

ADVERTENCIA

No aplicar corriente A/C hasta que las siguientes instrucciones indiquen que puede.

AVERTISSEMENT

Ne mettez pas sous une tension en courant alternatif avant que les instructions suivantes le préconisent.

- Plug System Power Harness into J7 of the Power Supply Assembly.
- Make sure that no items/objects can interfere with the movement of the disc magazine and the clamber plate. Also ensure the title display pages movement cannot be obstructed in any way.

Power up

Note: For safety, Rock-Ola's SyberSonic System incorporates an automatic mechanism interlock system.

Whenever the door is opened, the mechanism will enter a "suspend mode" and the machine's display will indicate: "DOOR OPEN" on the top line and the bottom line will scroll the message: "Press Scan Switch to Continue. Warning: Mechanism Could Start Anytime."

Unpacking the Phonograph

- Open Door.
- Remove the shipping braces (tape) from the title display assembly mounting clips.



The CD player is extremely sensitive to static discharges. Always ground yourself before touching the player and never touch the eye. The CD player itself has no adjustments. The only maintenance required is occasional lens cleaning.

El Toca-discos CD es extremamente sensitivo a descargas de electricidad estática. Siempre toque "tierra" antes de tocar el Toca-discos y nunca toque el ojo (lente). El Toca-discos CD no tiene ajustes en sí. El único mantenimiento requerido es el limpiar el ojo ocasionalmente.

Le lecteur de disque compact est extrêmement sensible aux décharges statiques. Veuillez toujours vous mettre à la masse avant d'y toucher et ne touchez jamais à l'oeil. Le lecteur de disque compact ne présente aucun réglage. Le seul entretien nécessaire est un nettoyage régulier de la lentille.

- Remove shipping bolts from mechanism.
- Remove rubber band from CD clamber plate. (Retain for future use).
- Remove shipping brace (tape) from the dollar bill validator (if installed). Make sure the bill stacker is properly seated.

DOOR OPEN
Press Scan Switch to ...

WARNING

Before applying power, put POWER CUT OFF SWITCH in the OFF position. (Figure 4B).

ADVERTENCIA

Antes de encender el aparato, poner el interruptor de encendido y apagado en la posición OFF (Figure 4B).

AVERTISSEMENT

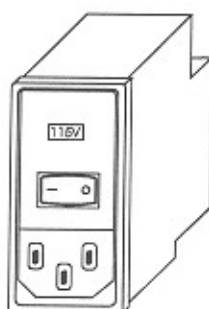
Avant de mettre sous tension, mettez L'INTERRUPTEUR DE TENSION sur la position éteinte "OFF". (Figure 4B).

POWER CUT OFF SWITCH**WARNING**

AMPLIFIER HAS POWER APPLIED EVEN WHEN THIS SWITCH IS OFF. WHEN WORKING WITH AMPLIFIER TURN MAIN POWER SWITCH OFF.

Figure 4B - Power Cut Off Switch

Ensure the Main Power Switch (on back of machine) is Off. Connect Power Cord to Power Supply and plug into a properly polarized and grounded outlet.



- = ON
o = OFF

Figure 5B - Main Power Switch

WARNING

Use of adapters or removal of the grounding pin of the plug may create a potential shock hazard and will defeat the surge protection devices causing erratic operation or destruction of the electronic assemblies and void all warranties.

ADVERTENCIA

El uso de adaptadores o el remover el pin de "tierra" del enchufe podrían crear un peligro potencial de shock, y derrotará al artefacto de protección contra cambios de corriente, causando operación errática, o destrucción de ensamblado electrónico, al igual que eliminar las garantías.

AVERTISSEMENT

L'utilisation d'adaptateurs ou le retrait de la broche de mise à la masse de la prise peut entraîner un risque d'électrocution et faire échouer les dispositifs de protection de secteur entraînant ainsi un fonctionnement irrégulier ou la destruction des montages électroniques, ainsi que l'annulation de toute garantie.

Ensure Service Switch (Fig 6B) is in the service position. Turn main power switch on. (Fig. 5B). Move the Power Cut off Switch (Fig. 4B) to the On position. Press the Scan/Cancel button once. Magazine should move 3 complete revolutions, then stop in the HOME Position. (With the gripper bow in the wide opening of the magazine).

See the sections covering machine installation, disc installation, machine programming and machine servicing for specific service information.

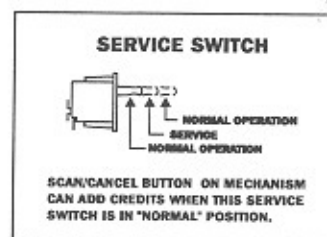


Figure 6B - Service Switch

Loading Program Pages

To turn the title pages, set the Service Switch (Fig. 6B) to the **normal operation** position and use the [<] and [>] buttons on the keyboard.

WARNING

Do not attempt to turn the program pages by hand. The pages must be turned using the [<] and [>] buttons on the keyboard.

ADVERTENCIA

No intente pasar las páginas de programa manualmente. Las páginas deben ser pasadas usando los botones (<) y (>) en el teclado.

AVERTISSEMENT

N'essayez pas de tourner les pages de programme manuellement. Tournez les pages à l'aide des touches [<] et [>] figurant sur votre clavier.

1. Unplug the motor/switch harness connector then release the catches on either side of the title display. Remove by pulling out at the top and lifting out. Rotate the pages by turning the black gear on the underside of the rack.
2. There are 2 ways to display the titles:
 - If you are installing 1 to 50 discs, the single strips are used, and the numbers are installed in the square as shown starting with "00".

- If you are installing 51 to 100 discs, use the full size split title strips and install the numbers in both top and middle areas as shown. Start with "00" at the top and "01" in the middle.
3. Load your title strips first keeping the discs in their jewel boxes in the order they will be placed in the jukebox.

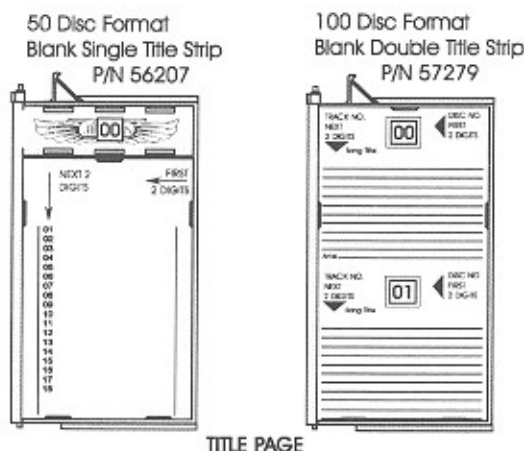


Figure 8B - Program Page Loading

Loading Compact Discs

To rotate the magazine, put the Service Switch (Fig. 6B) into the SERVICE position and then push the **red Scan/Cancel** button located on the playing mechanism.



WARNING

Do not attempt to rotate the magazine by hand. The magazine may be rotated with the red scan/cancel switch only. It is located on the top of the mechanism.

ADVERTENCIA

No intente rotar el magazine manualmente. El magazine puede ser rotado solamente con uso del interruptor rojo scan/cancel. Localizado en la parte superior del mecanismo.

AVERTISSEMENT

N'essayez pas de tourner le magasin manuellement. Le magasin doit être tourné à l'aide du commutateur rouge balayage/annulation uniquement. Il est situé sur la partie supérieure du mécanisme.

Load discs to match the jackets with the label side facing to the left of the cabinet. Be careful not to scratch or smudge the compact discs when loading. Continue the process until all the jackets and discs are loaded.

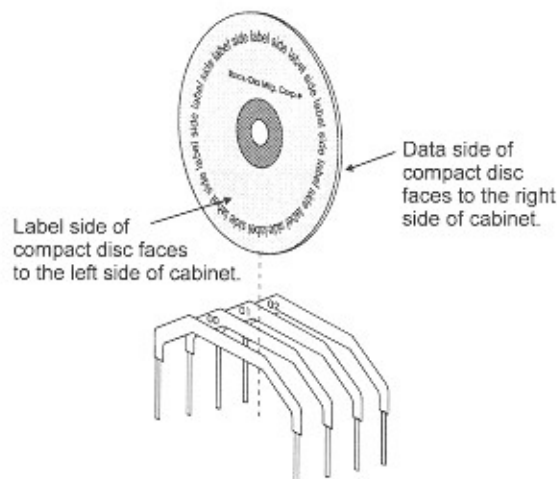


Figure 9B - Compact Disc Loading

Repacking/Moving

WARNING

All shipping hardware must be correctly installed for shipping.



ADVERTENCIA

Todo hardware debe ser instalado correctamente para el envío.

AVERTISSEMENT

Tout le matériel de transport doit être installé correctement avant l'expédition.

1. Remove the discs.
2. Select disc "0001"
3. When the disc clamping plate comes down on the CD player, remove power.
4. Unplug the connector at J7 on the Power Supply.

Install the shipping bolts through the mechanism base on each side and completely tighten.

Note: The mechanism base must be in contact with the wooden platform and the springs must be fully compressed.

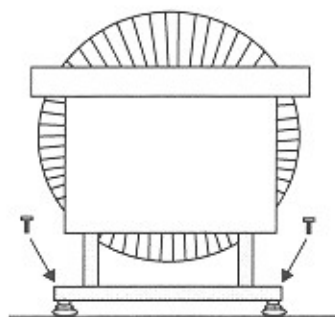


Figure 10B - Mechanism



SECTION

C

Connecting Speakers, Telephone Adaptor Kit, I.R. Remote Detector, and Paging Microphone

- Speaker Connections
- Installation of the Telephone Adaptor
Kit for Removable Volume Control
- Installation of the I.R. Remote Detector
and Harness Assembly
- Connecting a Paging Microphone

The Dual Digital Amplifier has such high level of versatility that almost any installation is easily accomplished. There are two 450 watt peak music power stereo amplifiers built into the same housing.

As shipped from the factory, the jukebox speakers are connected to the main or Internal amplifier such that they receive 100% of the power from one of the amplifiers. The second or External amplifier is available for connecting external speakers.

External Speaker Connections

Installation examples are divided into 3 types:

Example 1 – Jukebox plus 1 or 2 pairs of speakers in the same room with 1 volume control.

Example 2 – Jukebox in one room without speakers and 1 or more pairs of speakers in another room with separate volume controls.

Example 3 – Jukebox plus 1 or 2 pairs of speakers in 1 room and 1 or more pairs of speakers in another room with 2 separate volume controls.

Connections to the speakers should be made with a #14 gauge minimum speaker wire with runs of less than 50 feet.

Note: Observe the correct positive (+) and negative (-) polarity when making your speaker connections. Reversed polarity on any speaker will reduce fidelity. "Cross-channel" connections are not possible as neither channel has an inverted output.

All the connections to the amplifier cannot exceed the amplifiers rated total of 450 watts peak music power. (225 watts per channel.)

After all of the speakers are connected, play a selection and adjust the graphic equalizers as desired. Then run the system at the highest volume setting that the location will use. If the system plays without any distortion and does not "cut-out", then the speaker load is appropriate

for the maximum volume, and the installation is complete.

If the audio is distorted or "cuts out", at a high volume setting, there are three options. Reduce the bass, reduce the maximum volume setting, or move one or more speaker lines to a lower impedance terminal. See the programming section on "Volume Limits" (Quick Find 78 in Section E of this manual.) to set the maximum volume if necessary. Retest the system after making the changes.

Note: The Digital SyberSonic Amplifier will automatically reduce the volume in order to continue to operate even if the speaker load is incorrect however, there will be several seconds of silence when the overload condition occurs. This protection resets at power up.

If greater flexibility in speaker loads is needed or 70-Volt CV speakers are to be used, an optional audio distribution assembly (P/N 70046-1A) may be installed.

Speaker Loading

To achieve maximum volume and prevent amplifier overloading, calculate total impedance of speakers and hook-up to corresponding tap on Audio Output Panel. Typical configurations are shown in the table below. Additionally, several common installation scenarios are shown on the following pages.

Speaker Loading Chart

Number of Pairs 8-Ohm Speakers	Ext Speakers Connected to Terminal No.
None	NA
1 Pair	4
2 Pairs	4
3 Pairs	2
4 Pairs	2
5 Pairs	1
6 Pairs	1
7 Pairs	1
8 Pairs	1

Example No. 1 - Jukebox plus 1 or 2 pairs of speakers in the same room with 1 volume control.

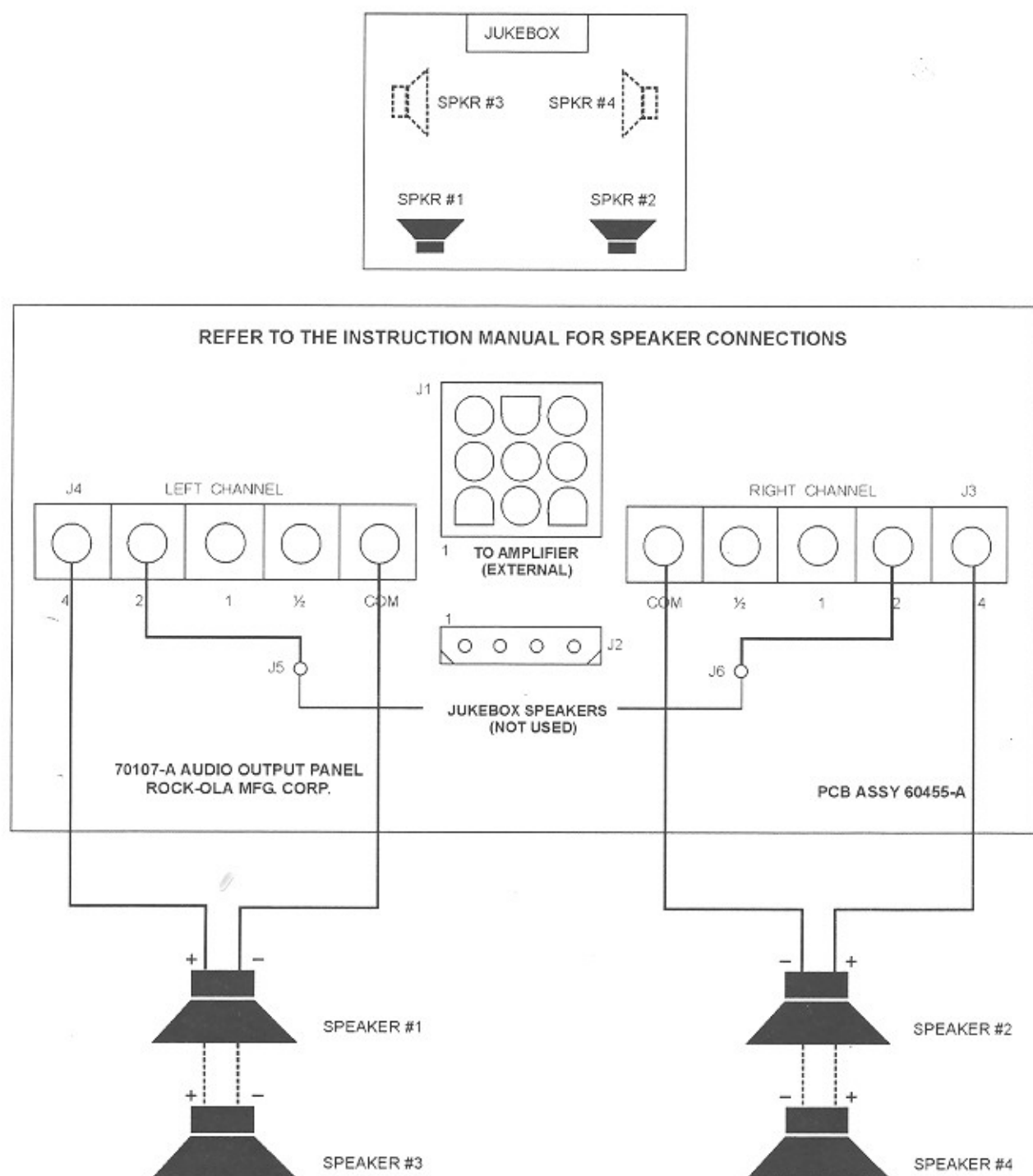


Figure 1C

If all of the speakers are located in the same room and a single volume control is to be used, connect them to the audio output panel as shown. The Internal volume buttons will control the jukebox speakers and the External volume buttons will control the external speakers. Once the sound is "balanced" between the external speakers and the jukebox speakers, the volumes may be "bridged" (QF 79) so as to preserve the balance and allow either the Internal or External volume buttons to be used.

Example No. 2 - Jukebox in 1 room without speakers and 1 or more pairs of speakers in another room with separate volume controls.

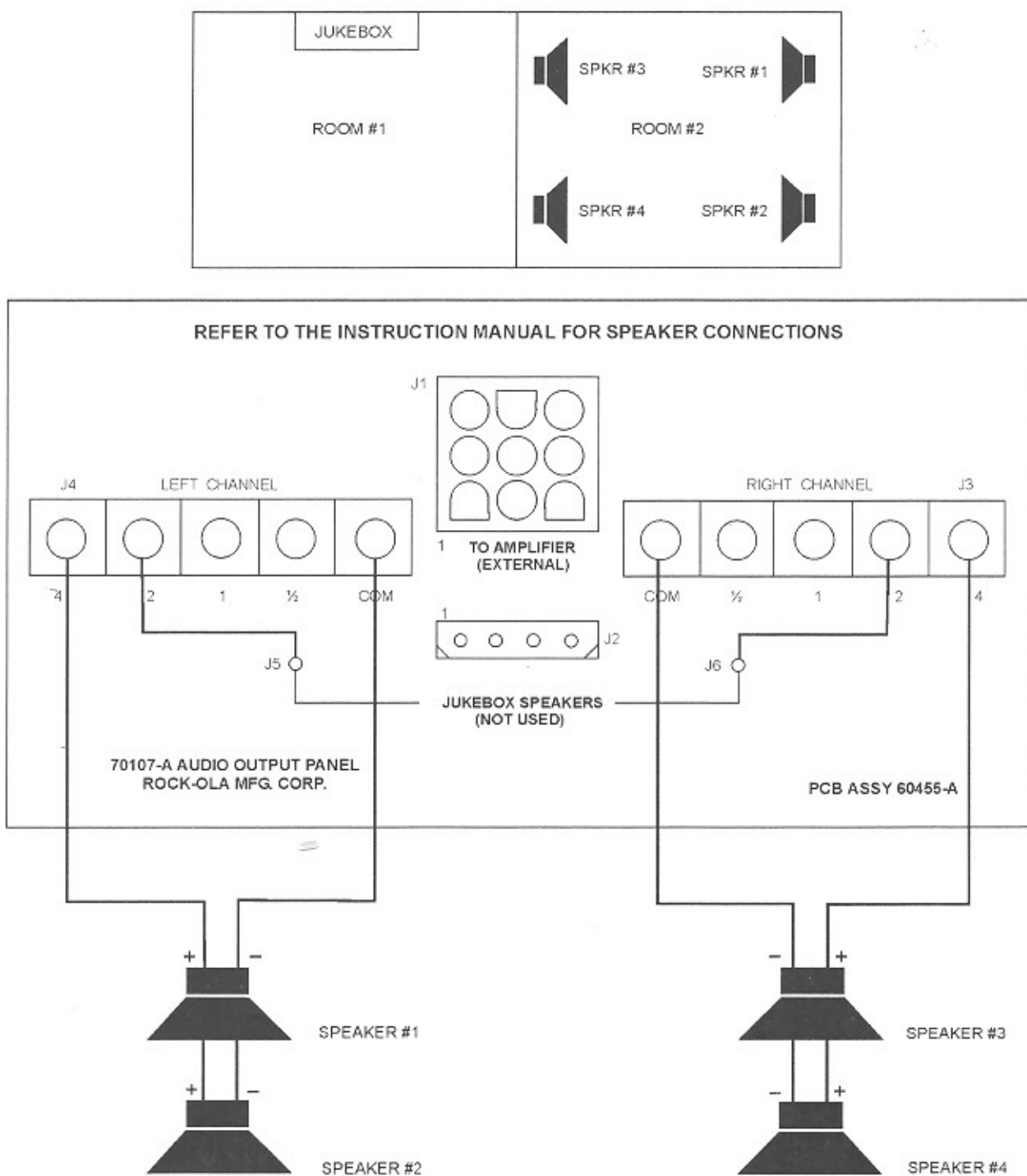


Figure 2C

If there are no external speakers in the room with the jukebox, connect the external speakers to the output panel. Use the Internal volume buttons to operate the jukebox volume and the External volume buttons to operate the external speakers.

Example No. 3 - In this example, the audio output panel is plugged into the main amplifier and the jukebox speakers are plugged into the output panel using the 60685-A adaptor harness package provided in the service envelope. The speakers that are in the same room as the jukebox are connected to the output panel taking care to use the proper taps. If 2 pairs of 8 ohm speakers are connected to the 4 ohm tap, then the jukebox must be connected to the 1 ohm tap. If the jukebox speakers are too loud compared to the external speakers, they may be moved to the ½ ohm tap. The speakers in the second room are then connected to the output terminal block. The internal volume buttons will control the speakers in the second room. The External volume buttons will control the speakers in the first room.

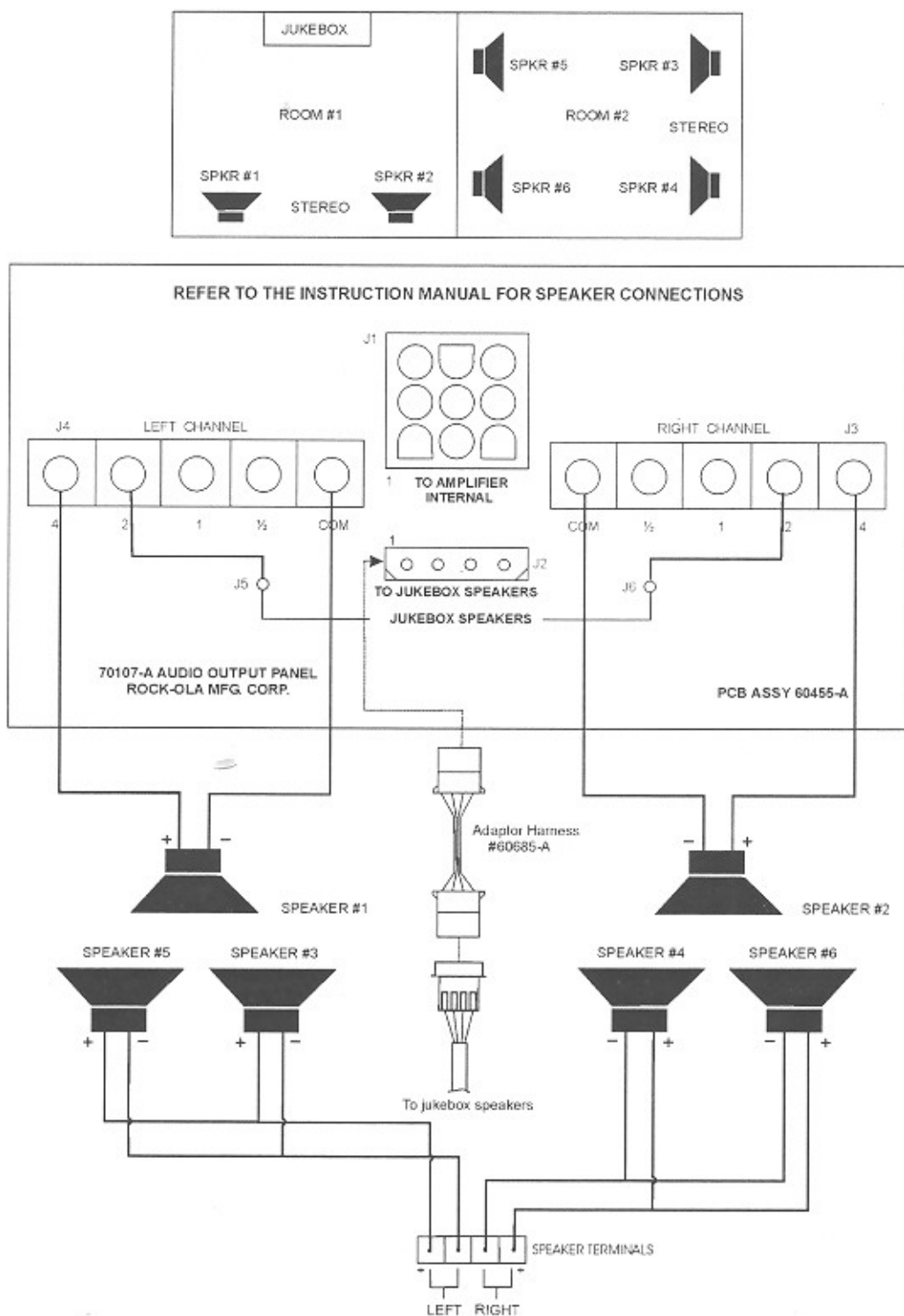


Figure 3C

Installation of the Telephone Adapter Kit (P/N 02413-01) for Removable Volume Control

1. Unplug and remove volume control from back of phonograph.
2. Install cover plate over volume control hole.
3. Install a 6-pin phone jack not more than 1" above the cover plate. (Installing the phone jack too high can cause interference with the title display assembly).
4. Route a 5-wire cable through wire hole in the back of cabinet and connect to the phone jack noting wire colors.

Color	Pin #	Description
BLU	Pin 1	Internal Common
YEL	Pin 2	External Common
GRN	Pin 3	Cancel & Mute Common
RED	Pin 4	Mute, Int Down, Ext Down
BLK	Pin 5	Cancel, Int Up, Ext Up
WHT	Pin 6	Not used

5. Re-install the phone jack cover and plug the red phone wire into the newly installed phone jack.
6. Mount the volume control assembly in a suitable location.
7. Mount the other phone jack to the right of and not more than 12 inches from the volume control module.
8. Connect the 5-wire cable to this phone jack using the same wiring scheme as step 4.
9. Install cover on phone jack and connect the 12" jumper to phone jack and volume control module.
10. Test for proper operation.

CONNECTOR BLOCK

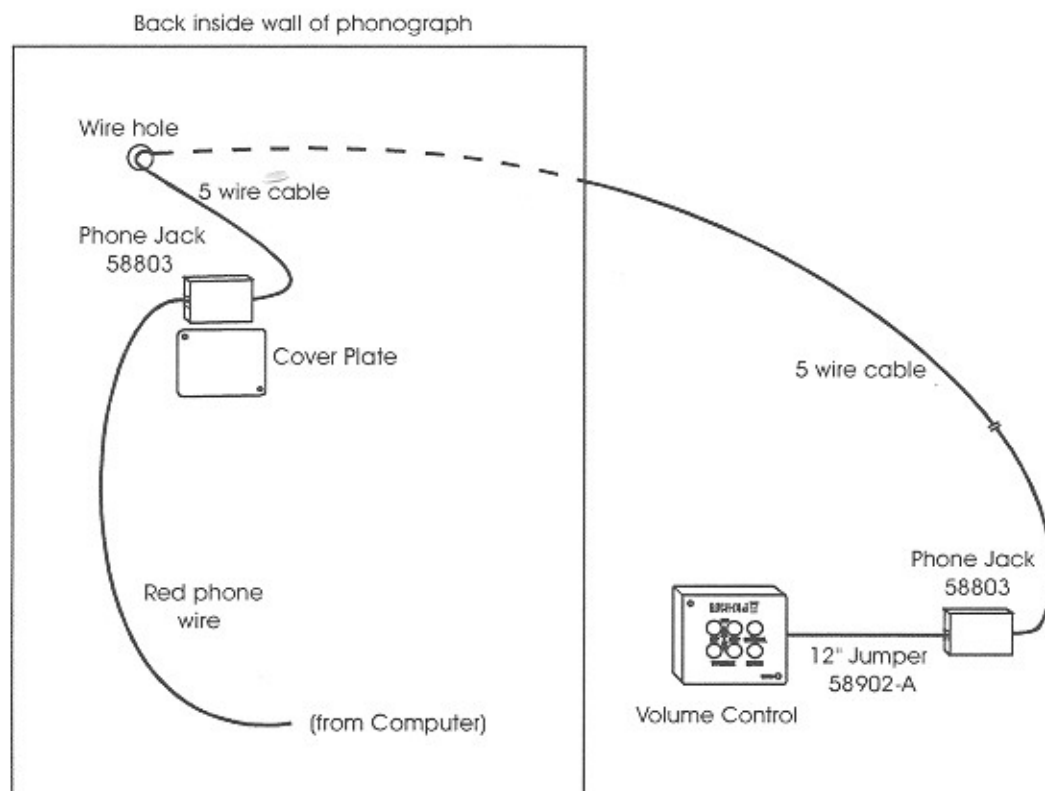
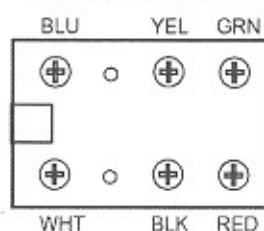


Figure 4C

Installation of the I.R. Remote Detector and Harness Assembly

1. Plug I.R. remote harness into the Syber-Sonic Computer assembly at the "Remote Sensor" location. (See diagram).
2. Route harness and I.R. detector assembly through the cable cover hole on the back of the jukebox. Make sure not to route cable near any moving components.
3. For best results: Locate the detector eye on the wall behind the jukebox. Depending on the location of the jukebox, it maybe necessary to try different heights on the wall to obtain the best result.

For locations that you are unable to mount the detector eye on the wall behind the jukebox, you may try mounting the eye on the back wall of the jukebox. The I.R. signal will bounce off walls and ceilings.

Note: Infrared (I.R.) light transmitted from the hand held remote control can not be seen by the naked eye. The LED on the I.R. detector eye will flash when a button has been pressed to show that the I.R. detector eye is receiving a signal from the remote control.

The remote does not work when the dome switch is in the service position.

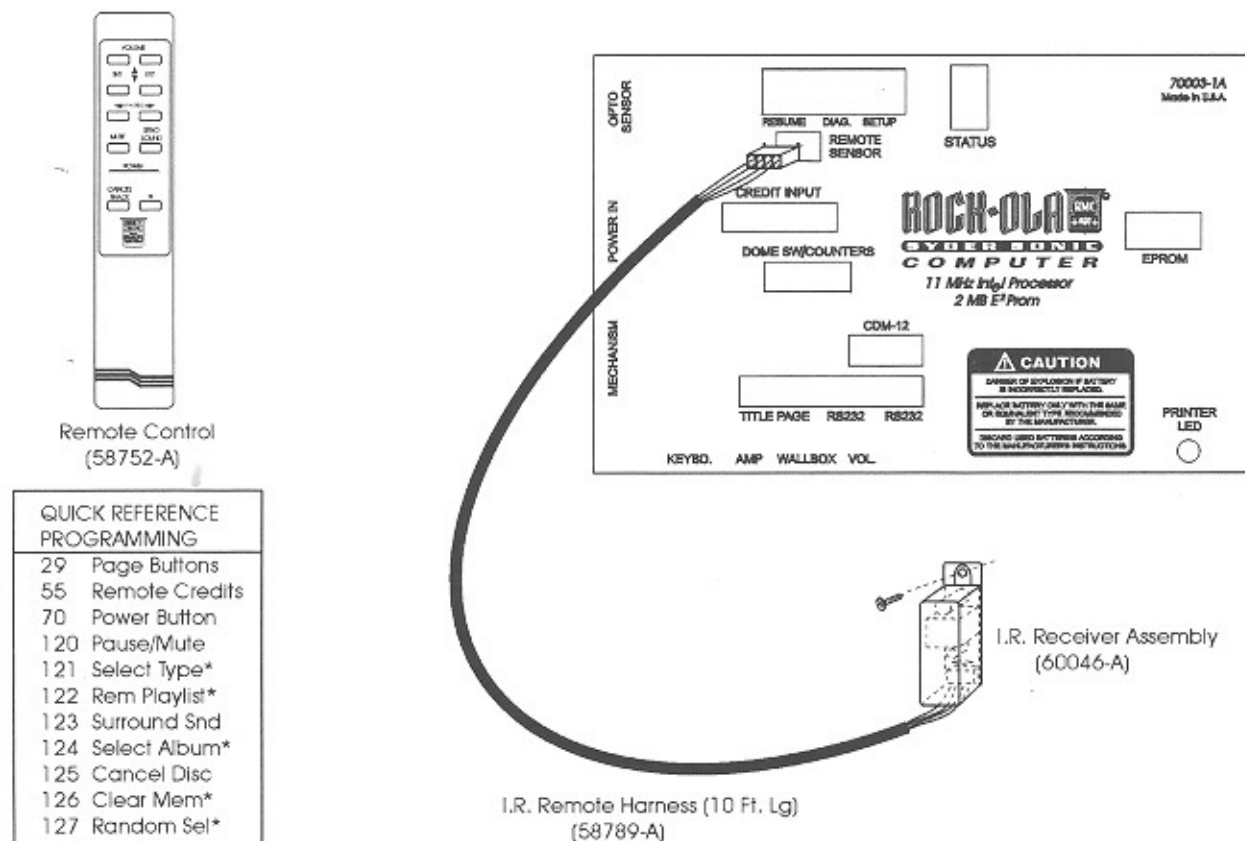
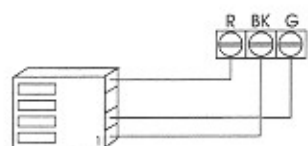


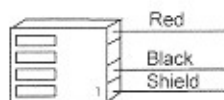
Figure 5C

Connecting A Paging Microphone

Rock-Ola's Advanced SyberSonic Amplifier can accept virtually any paging microphone. Pictured below are wiring diagrams for the most common paging kits. Installation Instructions for Yoga Paging Kit #02379-02 are in Section J of this manual. The necessary connector is included with Rock-Ola paging kit. To use other paging kits you will need to acquire one (1) Amp part number 640250-4 housing (RMC P/N ST-11244) and four (4) Amp part number 640252-1 contacts (RMC P/N ST-11245) or equivalent.



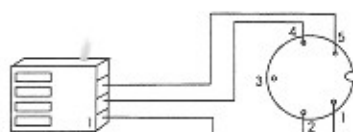
Rock-Ola® 02379-01



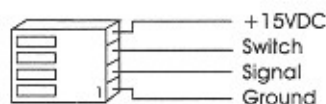
Yoga Microphone Kit 02379-02



Rowe®



NSM®



Generic

Figure 6C - Connecting a Paging Microphone

The paging system works by sensing audio on the signal line. Whatever microphone is used, it must have some kind of switch to mute the audio when not in use.

Set the Microphone gain switch to "LOW" and the gain control at midpoint. Press the talk button on the microphone and speak into it. The "Status" LED on the amplifier should blink and the microphone signal should be heard in the speakers. Adjust the microphone gain control to the loudest level you want the location to be able to have. If more gain is necessary, turn the microphone gain switch to "HIGH".



CAUTION

Be sure the gain control is turned down to avoid speaker damage from acoustical feedback.

PRECAUCIÓN

Asegúrese de que el control de ganancia esté en un ajuste bajo para evitar causar daños al altavoz debido a la retroacción acústica.

MISE EN GARDE

Assurez-vous de baisser la commande du gain afin d'éviter les dommages causés aux haut-parleurs par la rétroaction acoustique.

Refer to the amplifier settings in section D for adjusting which channels to hear paging, the music level while paging, and length of time before the music comes back up.

Note: If the jukebox is idle with auxiliary background music inputs off, there will be a short delay of approximately 2 seconds for the amplifiers to "wake up" when a paging signal is detected.



SECTION

E

Operation and Programming Overview

- Normal Operation
- Control Computer Buttons
- Programming, Service and Diagnostics Feature Overview
- Quick Find Reference Programming Definitions
- Quick Find Reference Programming Flow Charts

Normal Operation (Play Mode)

The following messages will appear while the jukebox is in the Normal Operation mode. Displayed messages will differ depending upon which features have been selected in the Setup Mode.

Attract State - no credits in the jukebox, or after 2 minutes of no keyboard activity.

- The top line is stationary.
- The bottom line scrolls.
- Each message will stay on the display until the bottom message scrolls to completion.
- The display will blank between each message for a short time.

Example Message:

Rock-Ola Jukebox
Press the Hits button...

Current Attract Messages - No credits on machine.

- Line 1 - toggles between "Rock-Ola Jukebox" and "100 Disc Changer" (if surround sound is OFF), else
- Line 1 - toggles between "Rock-Ola Jukebox" and "Enhanced Stereo" (if surround sound is ON).

If HITS button (Quick Find 45) is programmed to View, display will read:

- Line 1 - Rock-Ola Jukebox...
Line 2 - Press the HITS button to view each top hit.

If Hits button (Quick Find 45) is programmed to Play, display will read:

- Line 1 - Rock-Ola Jukebox...
Line 2 - Press the HITS button to play each top hit.
- Line 1 - Rock-Ola Jukebox...
Line 2 - To add credits insert bills or coins.
- Line 1 - Rock-Ola Jukebox...
Line 2 - Press page buttons to view albums.

If Free Play is active, display will read:

- Line 1 - Rock-Ola Jukebox...
Line 2 - All selections are currently free

Customer started making selection via keyboard

- Line 1 - Your choice ---
Line 2 - Credits: Free

Credits State - customer put money in the jukebox.

- Not yet enough money for a credit.

Insert Money
Credits: 0

- Credits in jukebox.

Make Selection
Credits: 3

- Customer has pressed the **Hits** key and Hits Button (Quick Find 45) is programmed to View.

Top Hit #01 0305
Credits: 3

- Customer has pressed the **Hits** button with Hits Button (Quick Find 45) programmed to automatically play the top hits.

Your Choice 0305
Credits: 2

- Customer has started making a normal selection via keyboard

Your Choice 01--
Credits: 3

- Customer has started pressing the number keys on the deluxe remote.

Remote Sel. 36--
Credits: 3

- Customer has pressed the Programmed Play button on the remote.

Program Play: -
Enter List (1-3)

- ## Not Available (scrolls the message).

01 Not Avail
Credits: 3

- #### Not Available (scrolls the message).

Not Avail
Credits: 3

- Album Selection Not Available (scrolls the message).

Album Selection...
Credits: 3

- Selection ##### Requires ## Credits (scrolls the message).

Selection 0206 R
Credits: 3

- Remote Selection Not Available (scrolls the message).

Remote Selection...
Credits: 3

- Once the mechanism loads a disc onto the CD player and music is heard, the display will readout:

Now Playing 0305
Credits: 3

And messages will scroll by on the bottom line.

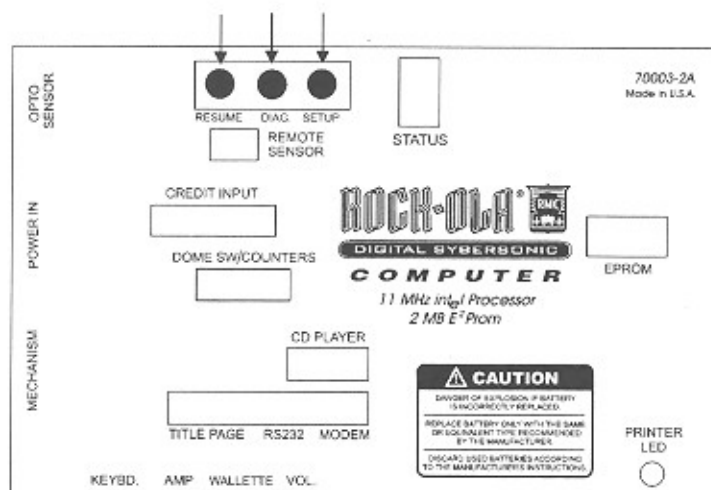


Figure 1E - SyberSonic Control Computer

Once the dome is open and the service mode is entered, the three (3) buttons on the top of the control computer become active. (To enter Service Mode, see explanation later in this section.) The 3 buttons are:

Diagnostics - This button puts the system into self-diagnostic mode that tests the control computer, CD player communications and keyboard / display assembly communication.

Setup - This buttons puts the system into programming set-up mode at the top of the menu hierarchy and also allows direct access to programs via program's quick find numbers.

Resume - This button returns the system to the service mode from the setup mode.

Programming, Service and Diagnostic Features

This section is intended to familiarize you with the service, programming and diagnostic features of the SyberSonic Electronics System. Specific programming and operating instructions will be covered in later sections.

Suspend Mode

For safety, Rock-Ola's SyberSonic System (Software Version 3.6 and above) incorporates an automatic mechanism interlock system.

Whenever the Dome/Lid is opened the mechanism will enter a "suspend mode" and the machine's display will indicate: "DOOR OPEN" on the top line and the bottom line will scroll the message: "Press Scan Switch to Continue. Warning: Mechanism Could Start Anytime."

DOOR OPEN
Press Scan Switch to ...

If a song is playing when the machine is opened, that song will finish and the mechanism will stop. The only exception is if the next song in the play queue is on the same disc. In that case the next song will play.

Service and Setup Mode

The service and setup modes are where all of the service functions, auditing and programming take place.

Service Mode

The service mode is entered into by opening the dome/door and pressing the Scan/Cancel Button on playing mechanism one time. (If the dome/door is already opened, note the service switch is in its middle position.)



Figure 3E - Service Switch

Note: If the jukebox has a TeleCommunications module installed and the Break-In Notification

feature (Quick Find 172) is activated, the Setup Mode must be accessed and the correct password must be entered within 30 seconds of opening the lid/door. Failure to do so will result in the automatic sending of a break-in warning. The system will wait 30 seconds after being in the normal mode before rearming the Break-In feature.

The red scan/cancel switch on the mechanism only works when the service switch is in the service position (middle). If the service switch is in the "normal operate" position, the scan/cancel switch will add credits to the jukebox.

When the dome/door is opened, the service switch automatically moves to its middle position.

The top line of the display will indicate that the machine is in the Service Mode.

SERVICE MODE
Service Mode is Active

The bottom line indicates that the service mode is active. This means the system is ready for further programming and/or diagnostic functions.

If songs are in queue and playing, they will continue to play.

In this mode the operator can insert money or make selections without affecting the audit totals. Used for testing bill and coin acceptors.

Note: Any money inserted while in Service Mode is not included in the accounting data.

Any songs selected while in the service mode will take priority over any songs that may be in the selection memory.

Note: Any selections made while in the service mode will not affect the popularity figures.

To rotate magazine press the scan/cancel button. Pressing the scan/cancel button while in the service mode will cause the display to change to:

SERVICE MODE
At Slot 00

The displayed number indicates which slot is positioned under the CD gripper bow. If a selection is playing, it will be canceled. Pressing the scan/cancel once will advance the magazine

to the next slot and update the display. Pressing and holding the button will spin the magazine and update the display. When the scan/cancel button is released, the magazine will stop with a slot directly under the gripper bow and display that slot number.

Setup Mode

All auditing, programming and most testing is done from this mode. To enter the Setup Mode, make sure the jukebox is in the Service Mode then push the SETUP button on the SyberSonic Computer (Fig. 1E).

The Setup Mode may be accessed by "Double Clicking" the Scan/Cancel Switch when the dome is first opened.

The top line of the display will indicate "Setup Mode".

SETUP MODE
Disc Mapping

The bottom line will indicate which menu choice is currently about to be entered. (The system defaults to Disc Mapping upon initial entry into the Setup Mode.)

Now the SyberSonic's audit and programming features can be accessed two different ways. Via Menu Navigation or Quick Find Reference Programming.

Menu Navigation

The navigation keys and their function are:

Key(s)	Function
MENU buttons	View Menu
#1 Button	Toggle Choice/Load Disc/Up
#2 Button	Return Disc/Down
RESET Button	Reset/Escape/Clear
HITS Button	Enter

Menu Navigation allows browsing through the menu choices. There are 17 main menu choices: (These will show in the bottom line of the display as you navigate through the menu structure).

DISC MAPPING	PAGE OPTIONS
PLAY OPTIONS	AUTO PLAY
FREE PLAY	PRICING
SET-UP 1	SET-UP 2

SET-UP 3	ACCOUNTING
POPULARITY	DISC ERRORS
REMOTE CONTROL	TEST MODE
AUTO TEST	TCM SET-UP
AMP SET-UP	

Within each main menu are sub-menus that give or cause specific actions to take place or to set specific features at a value. (See the Quick Find Reference Programming Definitions Section for details on the sub-menu items.)

To use the Menu Navigation method of programming and auditing, first make sure that the phonograph is in the SETUP MODE, then use the Menu keys to find the Main Menu item that you want.

Once the item is found, press HITS to "get into" that menu item. The display's top line will change to the main menu item that was just selected. It will also show the Quick Find item number.

DISC MAPPING 10
Map Off

The bottom line will indicate which sub-menu item is selected along with its current value. You may now use the Menu keys to find the specific sub-menu item you want. Once the sub-menu item is found, press HITS.

If the item selected is a list, (such as audit figures or an operating feature with many settings) you may move through that list using the Menu keys.

To change a displayed setting, press HITS to make the setting flash, then if it is a list of choices, press #1 to toggle until desired setting is displayed or, if the setting is a numerical setting, type the desired value then press HITS to lock it in.

DISC MAPPING 10
Map All Slots

If the sub-menu item is an audit feature, read its value.

To get out of a menu item, simply hit Reset. This will move you backward one menu level. Continue to hit Reset until you get back to the beginning of the menu structure.

SETUP MODE
Disc Mapping

To exit the Service or Setup Mode, simply close the dome/door.

Quick Find Reference Programming

This method provides *direct access* to a specific operating feature or audit capability. To use it, get into the SETUP MODE and type in the Quick Find number for the item you want then press HITS.

SETUP MODE
Quick Find: 12

The display will change to the selected programming feature.

DISC MAPPING 12
Disc Lockouts

Navigation within and getting out of the item is the same as in Menu Navigation.

Diagnostic and Error Reporting Features

The SyberSonic's microprocessor technology allows it to "keep track" of itself. It senses when it does something wrong or when something abnormal happens, then stores that information in its memory to report it to you when you ask for it. In fact, the SyberSonic Jukebox automatically warns you if an error has occurred whenever the Service Mode is entered into by displaying:

SERVICE MODE
Errors Present in: XXXX

"XXXX" indicating whichever area has errors.

Disc Errors

The SyberSonic system keeps track of playing errors and reports the disc and track numbers as well as how many times the error has occurred. If an individual disc or track exceeds the preprogrammed number of allowable errors, the jukebox automatically locks the track or disc out.

Disc Error Quick Find numbers are 110 through 115.

Hardware Errors

Every Rock-Ola Jukebox is constantly monitored by its SyberSonic Electronics system. The system is always looking at its inputs and outputs to insure that everything is working correctly. Should a malfunction occur, the computer logs an error code, along with the date and time of the malfunction. A service technician can use this information to quickly diagnose and repair any problem. The error codes are stored in the Test Mode menu. (Quick Find items 136 through 140).

Test Mode

All Rock-Ola SyberSonic Jukeboxes have easy to use "self tests" built in. These tests provide a means to test the electronics and mechanics of the machine. They also provide useful troubleshooting and adjustment tools. Also provided is a test for the laser player. (Another of the many Rock-Ola exclusives.) This feature takes the guesswork out of diagnosing a player malfunction while on location. The self-tests are found in the Test Mode menu. (Quick Find 131 through 134 and 142 through 149).

Auto Test

This feature is used at the factory for "burning in" every jukebox we produce. It automatically runs the SyberSonic System through the Mech, Keyboard, Pages and Display tests. The Auto Test feature is also useful to test the machine for bad discs before installing the SyberSonic Jukebox on location. For more information, see the Quick Find Reference Definitions section for Quick Find 150 through Quick Find 160.

Diagnostics Mode - Tests the control computer, CD player communications & Keyboard Assembly.

Diagnostics Mode is entered by pressing the Diag Button on the front of the control computer while in the Service Mode. Tests are automatically performed and status messages are displayed. (See Diagnostic Mode Operation in the Troubleshooting and Repair section H for more details.)

Rock-Ola Quick Find Reference Programming

To program, open front door then "double click" red button. From the SETUP MODE enter the 2 or 3 digit number and push the HITS button. To change settings, press HITS to make setting flash then Toggle choices with #1 and #2 or enter numeric value. Press HITS to lock in setting. Use left and right "Turn Pages" buttons to navigate menus.

DISC MAPPING

- 10 Map
- 11 Track Lockouts
- 12 Disc Lockouts
- 13 Special Discs
- 14 Special Video
- 15 View Track Lockouts
- 16 Clear Track Lockouts
- 17 View Disc Lockouts
- 18 Clear Disc Lockouts
- 19 View Specials
- 20 Clear Specials

PAGE OPTIONS

- 25 Pages
- 26 Set Last Page
- 27 Set Home Page
- 28 Home Delay
- 29 Remote Pages

PLAY OPTIONS

- 30 Track Limit
- 31 Track Time
- 32 Album Select
- 33 Play Order
- 35 Bd Track Lock
- 36 Bd Disc Lock
- 37 Clear Select Time
- 38 Clear Credit Time
- 39 Priority Disc

AUTOPLAY

- 40 Auto Play
- 41 Background
- 42 Aux. Backgrnd
- 43 Background Vol.
- 44 End Style
- 45 Hits Button

FREE PLAY

- 50 Free Play
- 51 Clear Free
- 52 Password FP
- 53 Free Special
- 54 Free Albums
- 55 Remote Credit
- 56 Free Selections

PRICING

- 60 Unit Price
- 61 Input Rates
- 62 Pricing Levels
- 63 Credits Spec.
- 64 Recirculate Lv.
- 65 Acct. Unit
- 66 Timed Bonus

SET-UP 1

- 70 Remote Power
- 71 Serv. Credits
- 72 Clear Selections
- 73 Clear Credits
- 74 Set Clock/Date

- 75 Message
- 76 Scroll Rate
- 77 Auto Clean
- 78 Volume Range
- 79 Vol Control Option

SET-UP 2

- 80 PW1 Security
- 81 PW2 Security
- 82 PW3 Security
- 83 Serial Num
- 84 Print Menus
- 85 Service Record
- 86 Counter Out
- 87 Factory Reset
- 88 Language
- 89 Start Style

SET-UP 3

- 200 Open Menu Id
- 201 Auto Power

ACCOUNTING

- 90 Last Reset
- 91 Print Acc. Data
- 92 Basic acct.
- 93 Total Acct.
- 94 Clear PTD's
- 95 View Level 1
- 96 SP in Ratio
- 97 Power Cycles

POPULARITY

- 100 Last Reset
- 101 View CD Order
- 102 Print Popularity
- 103 View Pop. Data
- 104 Clear Pop. Data

DISC ERRORS

- 110 View By Order
- 111 Print Errors
- 112 Playing Errors
- 113 Locked Tracks
- 114 Missing Discs
- 115 Clear Errors

REMOTE CONTROL

- 120 Pause/Mute
- 121 Select Type
- 122 Rem Playlist
- 123 Surround Snd
- 124 Album Select
- 125 Cancel Disc
- 126 Clear Mem.
- 127 Random Sel.
- 128 Background
- 129 Play Lists

TEST MODE

- 130 View Errors
- 131 View CPU Tests
- 132 Run Keybrd. Test

- 133 Run Display Test
- 134 Run Pages Test
- 135 View Mech. Tests
- 136 View CPU Errors
- 137 View Kybd Errors
- 138 View Mech Errors
- 139 View Page Errors
- 140 View Vmbx Errors
- 141 Clear Errors
- 142 Run PowerUp Test
- 143 Run Inputs Test
- 144 Run Outputs Test
- 145 Run Index Test
- 146 Run Gripper Test
- 147 Run Short Test
- 148 Test All Disc
- 149 Run CD Tests

AUTO TEST

- 150 Run Auto Test
- 151 View Report
- 152 Print Report
- 153 Clear Report
- 154 Start MM/DD 00:00
- 155 Stop MM/DD 00:00
- 156 Elapsed 000:00
- 157 View Keybd Errors
- 158 View Mech Errors
- 159 View Page Errors
- 160 View Vmbx Errors

TCM SETUP

- 170 Recv Calls
- 171 Call Office
- 172 Call if Prob
- 175 Modem
- 176 TCM Password
- 177 Reset TCM ID

AMP SETUP

- 210 Internal Amp
- 211 External Amp
- 212 Page Decay
- 213 Internal Tone EQ
- 214 Internal Balance
- 215 Internal MLWP
- 216 Internal Loudness
- 217 Reset Internal Amp
- 218 Internal Left MLWP
- 219 Internal Right MLWP
- 220 Internal Left Loudness
- 221 Internal Right Loudness
- 222 External Tone EQ
- 223 External Balance
- 224 External MLWP
- 225 External Loudness
- 226 Reset External Amp
- 227 External Left MLWP
- 228 External Right MLWP
- 229 External Left Loudness
- 230 External Right Loudness
- 231 Internal AVC
- 232 External AVC

Quick Find Reference Programming Definitions

For quick programming, from the SETUP MODE enter the 2 or 3 digit number then push the HITS button. Press HITS to make setting flash then Toggle choices with #1 and #2 or enter numeric value. Press HITS to lock in setting. See the programming flow charts following this section for specific "keystroke" details.

Disc Mapping – Used to initialize (or learn) each disc's Table of Contents (TOC) into memory.

- 10 Map** - Can choose from Off, All Slots, Empty Slots, Single Slots or Clear Map. It is not necessary to map discs which you have changed via the SyberSonic's Automatic Disc Changing Feature as the machine will automatically map the new disc(s) for you. See the explanation for Quick Find 103 (View Pop Data) for details.

Off – The machine will not map discs.

All Slots – The machine will stop at every slot and attempt to initialize any disc that is in the slot. If a disc is not present at the time of initialization, the machine will consider it an empty slot and will lock out that number. Use to map the machine upon the first time installation of discs.

Empty Slots – The machine will attempt to initialize only the slots that it has listed in its memory as empty. Use to have the machine automatically map previously empty slots to which you have added CDs. To view a list of the empty slots, use Quick Find 114 (Missing Discs).

Single Slots – Can tell the machine which slots it should map.

Clear Map - Clears the current map without causing the machine to attempt to re-map. Default: Off

- 11 Track Lockouts** – Use to prevent the selection of specific tracks at specific days and times (50 lockouts possible). If selected, will jump to Quick Find 15 to view, add or change track lockouts. To view the list of tracks automatically locked

out due to playing errors, use Quick Find 113 (Locked Tracks).

Default: No Lockouts

- 12 Disc Lockouts** – Used to prevent music from certain discs from being selected at specific days and times (50 lockouts possible). If selected, will jump to Quick Find 17 to view, add or change disc lockouts. Default: No Lockouts
- 13 Special Discs** – Designates certain discs as requiring more credits to play tracks from that disc. If selected, will jump to Quick Find 19 to view, add or change special discs. Default: All Discs Normal. (Set the number of credits necessary for a special selection in Quick Find #63).
- 14 Special Video** – Designates whether special discs are CD video discs. If set to "Yes" the system will play CDV's using the optional CDV Kit.
- 15 View/Change/Add Track Lockouts**
- 16 Clear Track Lockouts**
- 17 View/Change/Add Disc Lockouts**
- 18 Clear Disc Lockouts**
- 19 View/Change/Add Specials**
- 20 Clear Specials**

Page Options – Used to setup the title and albums jacket pages.

- 25 Pages** – Choose from Intrigue, Legend, Comet (Rocket), Fireball or Nostalgia. Default depends on model. *Note: If "Nostalgia" is chosen, Quick Find #26, 27 and 28 do not apply and cannot be set.*
- 26 Set Last Page** – Use to stop the pages from turning past a certain page number. (Use if the machine is not loaded with 100 discs.) Default depends on model.
- 27 Set Home Page** – Used to set a "display" page. Default depends on model.
- 28 Home Delay** – The amount of idle time (in minutes) before the display automatically turns to the "Home Page" set above. Default: 5.
- 29 Remote Pages** – This setting turns the remote control page buttons On or Off. Default: Off

Play Options – Used to set how discs are played.

30 Track Limit – Number of tracks in a row that can be played from the same disc. If an entire album has been selected and other music is in the selection queue, the machine will play the number of tracks set here from the selected album then play other music before coming back to the fully selected album. Default: 02.

31 Track Time – Limits the time of the song playing and then when time expires causes the song to fade out. Default: 00. (Unlimited time).

32 Album Select – Choose from Off, One or Two.

If "One", an entire album can be selected by pressing 00 after typing in the album number (assuming sufficient credits to cover the number of tracks exist). If more than necessary credits exist, only the necessary number of credits will be deducted from the total credits.

If "Two", an entire album may be selected by pressing 00 after typing in the album number (assuming sufficient credits exist to cover the number of tracks on the album.) If there are not as many credits as there are tracks, the machine will play the same number of tracks as there are credits. If more than necessary credits exist, only the necessary number of credits be deducted.
Default: One.

33 Play Order – Fifo = as selected. (First in First Out)

Fast = in numeric order
lowest to highest number.

Shfl = in random order

Default: Fifo

35 Bd Track Lock – Yes or No. If Yes is selected, the machine will automatically lock out an individual track after 20 playing errors occur. Default: No.

36 Bd Disc Lockout – Yes or No. If Yes is selected, the machine will automatically lock out an entire disc if it detects a prob-

lem reading the individual disc. Default: No. *Use Quick Find 114 (Missing Discs) to view a list of discs the machine has designated as missing or bad.

CAUTION



The missing disc list also contains the number(s) for slots that may have been left empty on purpose.

PRECAUCIÓN

La lista de discos faltantes también contiene el número o números de las ranuras que intencionalmente se pudieron haber dejado vacías.

MISE EN GARDE

La liste des disques manquants renferme également les numéros des logements laissés intentionnellement vides.

37 Clear Select - Allows the SyberSonic System to hold or clear the current track in play and the selections in memory when power is off. Select from No, Yes or the number of hours to hold selections (1 to 9). Default: No.

- To clear the current selections, use Quick Find #72.

38 Clear Credit - Allows the SyberSonic System to hold or clear credits in memory when power is off. Select from No, Yes or the number of hours to hold credits (1 to 9). Default: No.

- To clear the current credits, use Quick Find #73

39 Priority Dsc - When On, allows one slot for a disc to take priority over all other selections. This feature is useful for an all occasion disc. Default: Off

Auto Play - Used to set the machine to play automatically. (An attract mode.)

40 Auto Play - Used to program the auto play style. Choose from Off, Random, Program, or Code. Default: Off.

Off: No Auto Play

Random: The jukebox will choose its own tracks to play from the discs you tell it to choose from during the programmed auto play time period. (Can have up to 21 auto play programs.)

Program: You may program up to 99 specific songs to play during the auto play time period. (Can have up to 21 auto play programs.)

Code: Allows up to 99 specific songs to play if a 4-digit code is entered.

- 41 Background** - Used to set specific discs to play at specific days and times. Can set up to 21 individual background music programs. Default: Off

- 42 Aux Background** - Enables the Auxiliary BGM Inputs on the SyberSonic Amplifier.

Off - Auxiliary BGM Inputs are disabled

One - Auxiliary BGM Inputs are live until the first selection begins to play. They are enabled again only when the last song in the play queue has finished playing and that disc has been put away. (No background music between songs.)

Two - Auxiliary Inputs are live unless a jukebox selection is playing. (Background music between songs.)
Default: Off

- 43 Background Vol.** - Set the minimum and maximum allowable volume levels for programmed background music and Aux BGM Input.

- 44 End Style** - Sets how a background disc, if playing, ends when a paid selection is made. Choose from Cancel, Fade or Finish. **Note:** This setting does not affect the action of the amplifier's Aux BGM inputs.

Cancel: Immediately cancels the playing background selection.

Fade: The volume of the playing background selection will "fade" to minimum volume before canceling.

Finish: The playing background selection will not cancel until it reaches the end of the song. Default: Fade.

- 45 Hits Button** - Sets the HITS BUTTON to either automatically play or display the jukeboxes top hits as determined by the built in popularity counter.

View - Will display the selection number of the most popular tune each time the Hits Button is pressed.

Play - If credit(s) exist, will cause the jukebox to automatically play the most popular tune on the jukebox each time the Hits Button is pressed. **Note:** Will not work until popularity has been established. i.e. If the popularity totals have just been cleared, the Hits button will not work until a few songs have been selected via the keyboard.

VIT - Will display the top hit and turn the title pages to the corresponding number. Allows the customer to see what the song displayed actually is. **Note:** Will not work until popularity has been established. i.e. If the popularity totals have just been cleared, the Hits button will not work until a few songs have been selected via the keyboard.

Free Play - Allows the phonograph to be set on various "Free Play" modes.

- 50 Free Play** - No, Yes or Programmed. "Yes" sets the jukebox to full time free play. "Programmed" allows up to 21 Free Play time periods, each with its own parameters. The parameters include day of week, start time, stop time and maximum number of free credits allowed. Default: No.

- 51 Clear Free** - Clears the selections made for free from play queue when the stop time for the programmed free play period has been reached. Default: No.

- 52 Password FP** - Allows free selections via a password typed into the keyboard during normal play. **The displayed credits must be 0.** Also sets the maximum number of free credits allowed each time the password is typed in. (The number of free credits must be set to 1 or above for this feature to function.) Default: No. Default: Password 0000.

53 Free Special - "Yes" allows selection of discs designated as "special" (as set in Quick Find #13) during a free play period. Default: No.

54 Free Albums - "Yes" allows the selection of entire albums during a free play period. Default: No.

55 Remote Credit - Allows use of the remote control's Asterisk (*) button for adding free credits to the jukebox. **Note:** *The Cancel Disc function will not work if the Remote Credit feature is activated. Remote Credits are counted as "Free Plays" in accounting.*

Off - Disables the Remote Credit feature.

On - Enables the Remote Credit Feature. If "On" is selected the following items also need to be programmed:

Day - Choose from "Every Day", "Monday through Sunday" or "None."

If "Every Day" or a specific day of the week is selected, the number of credits programmed below will automatically become available at 00:01 of that day. Once the credits are used no more will be available until 00:01 of the next scheduled day.

If "None" is selected and a number of credits is programmed, pressing the Cancel Disc Button will add credits to the jukebox and count down the number of available credits. Once the number of available are used, the credits need to be manually reprogrammed. No more will be automatically made available.

Credits - Possible settings are 00 - 99.

Note: *The number of remaining free credits are displayed during programming so the operator can monitor usage.*

56 Free Selections - Allows certain songs to be played for free from the keyboard. The songs may be set up as normal or priority selections. If set up as priority, the selected song will be played as the next selection. The selection does not appear on the display as it's being made so as to keep patrons from trying to make other songs play for free.

Pricing

60 Unit Price - Base value of lowest coin. Default Unit Price = 005 in U.S. (005 = 5 cents or \$0.05).

61 Input Rates - Sets the Total Value of each coin channel based upon the unit price. (Multiplier) i.e. "Input 6 Rate 20" showing on the display indicates that coin channel 6 is worth \$1.00.

Unit Price X Input 6 Rate = Total Value

005 X 20 = 100

25 cents default 25 cents/\$1 coin default

Input 1 001 001

Input 2 002 002

Input 3 005 005

Input 4 005 005

Input 5 005 020

Input 6 020 020

62 Pricing Levels - The number of credits given for the amount of money inserted.

Default: Level 1 - 01 - 050

Level 2 - 02 - 100

Level 3 - 05 - 200

Level 4 - 15 - 500

63 Credits Spec. - Amount of credits needed to select tracks from discs set in Quick Find #13. (Special Discs.) Default: 02.

64 Recirculate Lv. - The level at which the pricing levels begin again. (Bonus Level) Default: Level 1

65 Acct. Unit - The accounting unit multiplier based on the Unit Price. In the U.S., the Acct. Unit is 20, which gives an Accounting Unit Value in dollars. Default: 20.

66 Timed Bonus - Provides a means to program "Happy Hour" pricing. You may set up to 21 different timed bonus periods. The parameters include day of week, start time, stop time and the ratio of free credits given per paid credits. The number of free credits used are tabulated in "Free Keyboard Norm" under Free Detail section of the Total Accounting Menu. (Quick Find 93). Default: Off

If set to On:

View Settings - Press HITS to continue.

Timed Bonus (01-21) - Choose which program you wish to add or change.
Default: 01

Day - Choose from None, Every Day or specific day of the week.
Default: Every

Start Time - Enter the time you desire Bonus Pricing to start. Use 24 hour clock. Valid times are 00:00 through 23:59.
Default: 15:00

Stop Time - Enter the time you desire Bonus Pricing to end. Use 24 hour clock. Valid times are 00:00 through 23:59.
Default: 17:00

Free/Paid - Enter the ratio of free credits to be given per paid credits. For example 01/03 will give 1 free credit for every 3 paid credits, or 4 for a dollar during the timed bonus period. Default: 01/03

Set-up 1 - Sets time clock, messages and internal CPU functions.

70 Remote Power - Enables or disables the IR Remote Control power button.

71 Serv. Credits - The number of credits automatically given when the service mode is entered. *Note:* These credits will not remain on the jukebox when it is put back into the normal play mode. To add credits to the jukebox, (courtesy credits) pull the service switch to its out position and press the red scan/cancel button.
Default: 00.

72 Clear Selections - Clears all selections currently stored in the play queue.

73 Clear Credits - Clears all credits appearing on the display.

74 Set Clock/Date - Sets internal clock for timed functions. Default: Today's Date, Pacific Time and Today's Day of Week.

75 Message

- **Factory** - Will scroll "Rock-Ola Compact Disc Player" on the bottom line of the display along with the "Normal Mode" messages.

- **Program** - Allows the entry of a custom message to be scrolled on the bottom line of the display along with the "Normal Mode" messages.

Clear Message - Erases the currently entered custom message.

Change Message - Allows the entry and editing of a custom message. To enter a custom message follow these steps:

1. With "Change Message" displayed, press HITS. The currently entered message (or blank if no message is currently entered) will show on the top line of display.
2. Press the Left or Right MENU buttons until the character you want is displayed on the bottom line. Press HITS. The character will move to the top line. (a blank between the ' ' is a space). To erase a character (backspace) press 0.
3. To save the entered message, press RESET.

- **Off** - No message is displayed other than the "Normal Mode" messages.

76 Scroll Rate - Speed at which the messages on the bottom line of the display scroll. Default: 05.

77 Auto Clean - Will cause the machine to pick-up and spin a laser-cleaning disc every 30 days. You set which slot the cleaning disc is in. Default: No, Disc #99.

78 Volume Range - Allows the setting of minimum and maximum volume ranges for normal selections. In addition, timed maximum volume limit may be set. The volume range and timed maximum is set separately for the internal and external amplifiers. See Section D for detailed setting instructions.

79 Vol Control Options - Sets how the jukebox volume controls are used. Detailed setting instructions are located in section D of this manual.

Normal – The internal buttons control the standard amp and the external buttons control the optional auxiliary amplifier.

Volume Control Split – This feature allows the "splitting" of the volume control to individually control the standard installed digital amplifier's left and right channels. The internal buttons control the left channel and the external buttons control the right channel.

WARNING



This feature cannot be used if the optional auxiliary amplifier is installed or if the external output is used. The auxiliary amplifier and external output signal will not function.

ADVERTENCIA

Esta característica no se puede usar si el amplificador externo está instalado o si se están usando los jacks de salida externa. El amplificador auxiliar y las señales de salida externa no funcionarán.

AVERTISSEMENT

Si l'amplificateur externe est installé ou si les prises de sortie externes sont utilisées, vous ne pourrez accéder à cette fonctionnalité. L'amplificateur auxiliaire ne fonctionnera pas ; aucun signal de sortie ne pourra être transmis.

Volume Bridge – When bridged, the tied amplifier/channel's volume will change regardless of which volume control button is pushed. *This feature should be used only when the optional auxiliary amplifier is installed or when the external output jacks are used to feed an external audio system.*

Bridge Int - Ext B. Ties both the right and left external amplifier channels to the internal amplifier volume control. Normally used in installations where the jukebox and external speakers are located in the same room.

In this mode pushing either set of volume buttons will control the internal *and* external volume at the same time.

Bridge Int - Ext R. Ties the right external amplifier channel to the internal amplifier volume control. Normally used in an installation where the jukebox and an external speaker(s) are in one room with

another external speaker(s) installed in another room or area.

In this mode pushing an internal volume button will change the volume for the jukebox *and* the external speaker(s) connected to the right external channel. Pushing an external volume button will change the volume for a speaker(s) connected to the left external channel which is another area or room.

Bridge Int - Ext L. Same as above except the channels are reversed.
Default: Normal.

Set-up 2 - Password and machine service parameters are set in this menu.

Password Protection

SyberSonic Password protection allows the operator to choose and set up the level of security necessary. There are three (3) passwords, each of which can be assigned a security level. This password/level scheme allows you to assign a password to different job types (i.e. Route Service, Technical Service, Supervisor) in your organization *and* assign each a different (or same if you choose) level of security. Match this option with the enhanced service record and you have all of the tools necessary to know "who, what, where and when."

When assigning passwords, it is important to consider who needs access to what. For instance, you may not want your mechanics to have access to password and accounting functions but access to everything else. Assign Security Level 2 to them. You may want your route service people (collectors) to have access to accounting data but not pricing and free play options. Assign them to Level 1 and set View Level 1 (Quick Find 95) to On. You may want your supervisors to have access to everything. Assign them Level 3.

Security Levels

The Security Levels and what can be accessed in each level are as follows:

- **Level 1** - Service Level
 - Disc Mapping
 - Page Options
 - Play Options
 - Set Up - 1
 - Set Up - 3
 - Popularity

Disc Errors
Test Mode
Auto Test
TCM Set Up
Amp Set Up

- **Level 2 - Set Up Level**
In addition to the items available in Level 1
Auto Play
Free Play
Pricing
- **Level 3 - Master Level**
In addition to the items available in Level 1 and Level 2
Set Up - 2
Accounting (Can be reached from Level 1 if View Level 1 is set to On)
Remote Control

Set the passwords for each security level below.
Note: You must set a level 3 password to set any lower levels.

- 80 PW 1 Security 1 - 3** - Sets the 1st of 3 available passwords. Sets which level of security this password is allowed to access. See the Security level explanation above for details.
- 81 PW 2 Security 1 - 3** - Sets the 2nd of 3 available passwords. Sets which level of security this password is allowed to access. See the Security level explanation above for details.
- 82 PW 3 Security 1 - 3** - Sets the 3rd of 3 available passwords. Sets which level of security this password is allowed to access. See the Security level explanation above for details.
- 83 Serial Num:** Program the machine's serial number into the computer. Default: Machine's Serial Number Programmed At Factory.
- 84 Print Menus** - Sends the current set up data to the SyberSonic IR printer port for use with Rock-Ola Data Printer Kit # 02377-01 (optional).
- 85 Service Record** - Logs date of last entry into Setup Mode and the password number entered.
- 86 Counter Out** - Sends pulses to optional mechanical selection counter (Rock-Ola Kit #02410). Default: All
- 87 Factory Reset** - Allows the programming and audit functions to be quickly reset to factory defaults for commercial or home use.
- 88 Language** - Allows normal operate mode screens to be displayed in a specific language. (Service/Set up mode screens are still displayed in English). Choose from English, Spanish, German, Portuguese, Czech, French or Finnish. Default: English. *Note: Check with your distributor for a list of the currently available languages.*
- 89 Start Style** - The Start Style allows you to control how the music starts. You may choose from "Fade or Norm."

Set Up 3

- 200 Open Menu ID** - Used to have the jukebox automatically go to the set feature when the setup mode is accessed. *Example: To have the jukebox automatically go to Basic Accounting, set this to Quick Find 92.*
- 201 Auto Power** - Use to have the jukebox automatically power up or down at a set time. Up to 7 cycles may be programmed.

Accounting

- 90 Last Reset** - Date and time that the Period To Date figures were last reset.
- 91 Print Acc. Data** - Sends the accounting data to the SyberSonic IR printer port for use with Rock-Ola Data Printer Kit # 02377-01 (optional).
- 92 Basic acct.** - Simple readouts show selections, plays and cash.
- 93 Total Acct.** - Gives detailed accounting information.
- 94 Clear PTDs** - Clears the period to date accounting data.
- 95 View Level 1** - Allows the viewing of audit data from the Security Level 1. All other protected features remain secure. Useful if you want the service person to have ac-

cess to the accounting data without having access to the MASTER security level (Level 3). Default: No.

- 96 **SP "Self Plays"**. If Yes self plays are included in the free percentage calculations.
- 97 **Power Cycles** - Displays the date, time and if the jukebox power was cycled on or off.
A sample display is:
10/30 10:06 1
which indicates the jukebox power was turned on at 10:06AM on October 30. Another example is:
10/31 02:05 0
which indicated the jukebox power was turned off at 2:05AM on October 31.

Popularity - Allows readout of most/least popular selected CDs. The SyberSonic **Automatic Disc Change** feature is also accessed from this menu.

- 100 **Last Reset** - The date and time the popularity was last reset.
- 101 **View Pop.** - Select the direction you want to view the popularity. (To read the popularity data, use Quick Find 103) Choices are:

Least - View the disc popularity in ascending order from the least played CD to the most played CD.

Most - View the popularity in descending order from the most played CD to the least played CD.

CD Order - View the popularity in ascending CD order 00 through 99. *Choose this option to use the Automatic Disc Changing Feature for the initial installation of CD's.*

For ease of use of the Automatic Disc Changing feature, we recommend leaving this feature set to **Least**.

Default: Least

- 102 **Print Popularity** - Sends the popularity data to the IR data port on the computer

for use with Rock-Ola Data Printer Kit # 02977-01 (optional).

- 103 **View Pop. Data** - View the popularity data in the order based upon the setting in Quick Find 101.

Can also use the **Automatic Disc Changing** feature by pressing keyboard switch #1 to retrieve the disc number displayed. #2 puts the selected disc away. The SyberSonic System also "remembers" the disc number for automatic mapping. (See the section on disc changing for detailed instructions on the disc changing feature).

- 104 **Clear Pop. Data** - Clears the popularity data. **Note:** If Pop Data is cleared and Hits Button is set to Play, Hits Button will not work until several tunes have been selected via the keyboard.

Disc Errors - Allows logging of errors of unplayable or skipping tracks or discs.

- 110 **View By Order** - Sets the way disc errors are displayed. "Order" will display disc errors in magazine ascending order (00-99). "Errors" will display the data by greatest to least number of errors. Discs with no errors will not be displayed. Default: Order.

- 111 **Print Errors** - Sends the Disc Error data to the SyberSonic I.R. printer port for use with Rock-Ola Data Printer Kit #02377-01 (optional).

- 112 **Playing Errors** - Displays the disc errors in the order as set in Quick Find 110.

- 113 **Locked Tracks** - Tracks that were automatically locked out after exceeding the maximum number of playing errors.

- 114 **Missing Discs** - Displays disc spaces that considered missing or could not be read by the CD player.

- 115 **Clear Errors** - Clears all disc error data, except for the missing discs.

Remote Control - Allows the features of the Standard and Optional Deluxe I.R. remote transmitter to be programmed. (See Section "K" for Remote Control button functions.)

- 120 Pause/Mute** - Sets the amount of time, in minutes, a song will stop playing if the pause button on the IR remote control is pressed. Also sets how the machine will pause. Choose from Mute or Suspend Operation. Mute will shut off the audio but allow the jukebox to take money and selections. Suspend operation causes the jukebox to immediately stop playing and the display will read "Please Wait..."

Pressing "pause" or any volume button on the remote will cause the song to resume playing. Once the set time has elapsed the jukebox will automatically resume playing. Entering "00" will cause the pause time to be unlimited. Default: 00.

- 121 Select Type** (Remote Selections) - Choose from Off, Any or Free. Default: Off.

Off - Disables the ability to make selections via the remote control.

Any - When this option is chosen, selections can be made via the remote control regardless of credit status. Credits, if they exist, will not be deducted. **Note:** *If this feature is used, Rem Playlist (Quick Find 122) must be set to OFF.*

Free - Selections can be made via the remote control only if the machine is on free play or if "free play" credits exist. Only "free play credits" will be deducted when selections are made.

- 122 Rem Playlist** - Enables or Disables specific discs that selections can be made from via the deluxe remote control regardless of credit status. **Note:** *If this feature is used, Select Type (Quick Find 121) must not be set to ANY.* Default: Off

- 123 Surround Snd** - If enabled, allows the surround sound feature of the amplifier to be switched via the remote control. Default: Off.

- 124 Select Album** - Allows the selection of an entire disc via the optional deluxe remote

control by pressing 00 and enter after pressing the disc number. Default: Off.

- 125 Cancel Disc** - If enabled, pressing the Asterisk (*) button on the remote will cancel all selections that have been made from the disc currently playing. **Note:** *If Remote Credit (Quick Find 55) is used, this feature will not function.* Default: Off.

- 126 Clear Mem.** - Will cancel entire play queue if ON and button is activated. Default: Off.

- 127 Random Sel.** - Enables random play as set in auto play menu. 4 available options: Off, On, Prog, and One. Default: Off.

- 128 Background** - Enables background playlists as set in auto play menu. Default: Off.

- 129 Play Lists** - Enables the ability to create 3 separate play lists with up to 50 songs per list. Default: Off.

Test Mode - Provides access to the self testing and self diagnostic routines of the SyberSonic System.

- 130 View Errors** - Lists, by sub-system, errors the SyberSonic self-diagnostic system has detected.

See the explanations for Quick Find 136 - 140 for further information about errors.

- 131 View/Run CPU Tests** - Allows the selection of one of three self-diagnostic routines for the CPU. The CPU tests include Power Up Test, Inputs Test and Output Test.

See the explanations for Quick Find 142 - 144 for further test information.

- 132 Run Keybrd. Test** - Allows the testing of the keyboard switches. When a keyboard button is pressed, the display will indicate which button is pressed. Errors (if any) will be logged into the Keyboard Error register. (Quick Find 137)

To exit this test, cycle the service switch or press the resume button on the CPU. (If further testing or programming is desired, you will need to re-enter the setup mode by pressing the service button on the CPU.)

- 133 Run Display Test** - Will cause the display to cycle through all of its available characters.

To stop this test press RESET on the keyboard.

- 134 Run Pages Test** - Will cause the title display pages to fully cycle. Errors (if any) will be logged into the Page Errors register. (Quick Find 139)

This test stops automatically at the end of its routine.

- 135 View/Run Mech. Tests** - Provides access to the five playing mechanism self test routines. These are Index Test, Gripper Test, Short Test, Test All Discs and CD Tests.

See the explanations for Quick Find 145 - 149 for further mechanism test information.

- 136 View CPU Input Errors** - Displays the Error Code, Date and Time of CPU Input Errors. The display will indicate "End CPU Errors" when the end of the list is reached or if no errors exist.

See the Error Codes chart for further information.

- 137 View Kybd Errors** - Displays the Error Code, Date and Time of Keyboard Errors. The Display will indicate "End Kybd Errors" when the end of the list is reached or if no errors exist.

See the Error Codes chart for further information.

- 138 View Mech Errors** - Displays the Error Code, Date and Time of Mechanism Errors. The display will indicate "End Mech Errors" when the end of the list is reached or if no errors exist.

See the Error Codes chart for further information.

- 139 View Page Errors** - Displays the Error Code, Date and Time of Page Errors. The display will indicate "End Page Errors" when the end of the list is reached or if no errors exist.

See the Error Codes chart for further information.

- 140 View Wlbox Errors** - Displays the Error Code, Date and Time of Wallbox errors. The display will indicate "End Wlbox Errors" when the end of the list is reached or if no errors exist.

See the Error Codes chart for further information.

- 141 Clear Errors** - Clears all Error Codes.

- 142 Run Power Up Test** - This routine tests internal functions of the CPU and communication between the CPU and CD player.

See the Power Up Test Results chart for further information.

- 143 Run Inputs Test** - This routine tests the 24 Input lines to the CPU. The display will cycle through each input, indicating its logic level (Hi or Lo).
See the Test Input Codes chart for further information.

- 144 Run Outputs Test** - This routine tests the 14 output lines from the CPU. The display will cycle through each output, indicating its voltage level (Gnd or Vcc).

See the Test Output Codes chart for further information.

- 145 Run Index Test** - This routine will cause the playing mechanism to pick up and replace the disc in slots 00, 01, 49, 50, 98 and 99. The purpose of this is to check the function of the mechanism's opto counter and also to check the basket to gripper bow alignment.

- 146 Run Gripper Test** - Allows the gripper bow to be operated by pressing the Cancel/Scan switch on the mechanism.

- 147 Run Short Test** - Will cause the mechanism to pick up and spin each CD. The

display will indicate the number of tracks on the currently spinning disc.

- 148 Test All Disc (Long Test)** - Will cause the mechanism to pick up and play the first 5 seconds of each track on every CD installed. The display will show the number of tracks on the disc and then indicate the selection number as it is playing.

- 149 Run CD Tests** - Provides a means to test the CD Player. When selected, the mechanism will pick up disc 00 and place it on the laser. Two tests are then available, Play Test and Servo Test.

Play Test: Will pick up disc 00 and play it. The Display will show the number of tracks on the disc. Once the disc is playing, the display will indicate the selection number playing. At this point you have the option of using keyboard buttons 1 - 4 to start the disc playing from the first track, move to the next track, move back to the previous track or stop the disc.

Servo Test: This test allows you to test the functions of the laser player. Using keyboard buttons 1 - 5, you may turn focus on, turn focus off, turn turntable on, turn turntable off, and move the laser arm in and out. The display will indicate each functions status.

Auto Test - Used for testing and burn-in of machine components.

- 150 Run Auto Test** - Will cause the SyberSonic System to automatically run all of its self test routines.
- 151 View Report** - Will display the start, end and elapsed times for the Auto Test. (Quick Find locations 154 - 156).
- 152 Print Report** - Sends the Auto Test report to the SyberSonic I.R. printer port.
- 153 Clear Report** - Clears the Auto Test report.
- 154 Start MM/DD 00:00** - Displays the start time of the most recent Auto Test.
- 155 Stop MM/DD 00:00** - Displays the stop time of the most recent Auto Test.

- 156 Elapsed 000:00** - Displays the elapsed time of the most recent Auto Test.

- 157 View Keybd Errors** - Displays any keyboard errors that may have occurred during the Auto Test.

- 158 View Mech Errors** - Displays any mechanism errors that may have occurred during the Auto Test.

- 159 View Page Errors** - Displays any page errors that may have occurred during the Auto Test.

- 160 View Wlbr Errors** - Reserved for future use.

TCM Setup - Settings and options for the Rock-Ola Telecommunications Module. (Module Kit is optional equipment). **Note:** If TCM is not installed, all TCM setups must be left at factory defaults.

- 170 Recv Calls** - Sets the jukebox up to be able to receive modem calls for the purpose of downloading audit and popularity data and also for remote access to programming features.

- **No** - The line will never be answered. Use this setting if you do not want the machine to have remote access.
- **Yes** - This sets the machine to answer the line any time it rings.

Number of Rings - Sets the number of rings that can pass before the machine automatically answers the phone line.

Clear Settings - Quickly resets all receive call settings to factory defaults.

- **Prog** - Sets the machine to answer the line only on certain days and/or at certain times.

Day - Choose day to receive call.

Start Time - Choose the time to start receiving calls.

Stop Time - Choose the time to stop receiving calls.

Number of Rings - Sets the number of rings that can pass before the machine automatically answers the phone line.

If you are sharing the line with a pay phone that does not accept incoming calls or are using a dedicated phone line, the recommended setting is 2.

If you are sharing a line with the location's house phone or a public phone that accepts incoming calls, two methods are suggested.

Answer after 15 rings during normal business hours.

Answer after 2 rings during normally closed hours.

Clear Settings - Quickly resets all receive call settings to factory defaults.

- 171 Call Office** - These settings are used to have the jukebox automatically place calls to the office for the purpose of uploading data. *To have the machine automatically notify you in the event of a malfunction, see "Call if Prob" in the Automatic Malfunction Notification section below.* **Enter the "Call Ofc" Number for Automatic Malfunction Notification in this area.**

- **No** - Do not call the office to upload data.
- **Yes** - Automatically call office and upload data.

Day - Choose day to call.

Start Time - Choose the time to enable automatic calling.

Stop Time - Choose the time to disable automatic calling.

Telephone Number - The number to which the data is to be uploaded. This is entered the same way that a custom message is entered. (See the section describing message entry for detailed instructions.) Allowable characters are the numerals 0-9, *, # and capitol P.

A character "P" inserted into a telephone number will cause a 1 second delay after the "P." "PP" will cause a 2 second delay, "PPP" will cause a 3 second delay, etc. The pause is used to create a delay to allow for the entry of a calling (credit) card number, to wait for an outside line, etc.

Retries - Number of times TCM should try to send the message in the event of a communications malfunction.

Clear Settings - Quickly resets the "Call Office" features to the factory defaults.

172 Call if Problem

- **No** - Do not call for any malfunction.
- **Yes** - Call if a selected malfunction occurs. (The malfunctions will be selected below.)

Enter Pager Number - If the machine is set to notify via pager, the telephone number, identification code (in any) and function numbers (if any) are entered here. This includes any dialing prefixes and suffixes. This is entered the same way that a custom message is entered. (See the section describing message entry below for detailed instructions.) Allowable characters are the numerals 0-9, *, # and capitol P.

A character "P" inserted into a telephone number will cause a 1 second delay after the "P." "PP" will cause a 2 second delay, "PPP" will cause a 3 second delay, etc. The pause is used to create a delay to allow the paging system to respond and for the entry of a calling (credit) card number, to wait for an outside line, etc. Additional pauses may also be necessary if your paging service requires an access code. **Important!** A minimum of 3 P's are necessary (3 second delay) after the pager number to allow the paging system time to respond. If no pause time is allowed, the paging system will not

be able to properly receive and then transmit the data to you.

An example of a typical "direct dial" pager dialing string may look like: 5554567PPPP where 5554567 is the pager number and PPPP is a 4 second pause to allow the paging system to answer and respond before the jukebox sends its error code information. *To know exactly how many P's to insert into the dialing string, call your pager number from the phone line that the jukebox is plugged into and count the number of seconds from the time the last button is pushed until the paging service responds. Add one more second to that number and insert the corresponding number of pauses into the dialing string.*

Another example: the following is used to call a Skytel® Pager:
18007598888PPPPP#nnnnn#PPPP

In the above example, 18007598888 is the access number, PPPPP causes a 5 second delay to wait for the Skytel system to answer, #nnnnnn# represent the "PIN" number and PPPP gives the paging system time to respond before the jukebox sends its error code.

Enter Pager Suffix - This is a string of characters that ends the paging cycle after the error code is sent. i.e. A Skytel Pager requires 2 "#" tones be sent to end the paging cycle.

Pages to Send - The number of times to successfully send the page. This setting is included to compensate for paging systems that have a tendency to "miss" some pages. The system will retry if the location line is in use until it is successful.

Report DBA Jam

Yes - Will cause the machine to page and post a message at the office in the event of a jammed or full DBA. The "office" number to be called is the same one as

set in Call Office (Quick Find 171).

No - Will cause the machine to ignore this malfunction.

Ofc - Will cause the machine to only post a message at the office.

Pgr - Will cause the machine to only page in the event of this malfunction.

Report Fatal Error

Yes - Will cause the machine to page and post a message at the office in the event of a "fatal error" such as an inoperative mechanism. The "office" number to be called is the same one as set in Call Office (Quick Find 171).

No - Will cause the machine to ignore this malfunction.

Ofc - Will cause the machine to only post a message at the office.

Pgr - Will cause the machine to only page in the event of this malfunction.

Report Break In

Yes - Will cause the machine to page and post a message at the office in the event of an unauthorized entry into the jukebox. The "office" number to be called is the same one as set in Call Office (Quick Find 171).

No - Will cause the machine to ignore this malfunction.

Ofc - Will cause the machine to only post a message at the office.

Pgr - Will cause the machine to only page in the event of this malfunction.

Note: Setup mode must be accessed and password entered (if enabled) within 30 seconds of opening the lid or else the break-in warning will be sent.

Report CD Errors

Yes - Will cause the machine to page and post a message at the office in the event of 50 CD playing errors in one day. The "office" number to be called is

the same one as set in Call Office (Quick Find 171)

No - Will cause the machine to ignore this malfunction.

Ofc - Will cause the machine to only post a message at the office.

Pgr - Will cause the machine to only page in the event of this malfunction.

Clear Settings - Will quickly restore the factory default settings for the Call if Problem options.

machine's power.

175 Modem

- **Rock-Ola** - This setting is to be used for the Rock-Ola modem provided in the 2417-02 kit.
- **DELETE** Sentence in parenthesis after Rckwl 14.4
- **Off** - This setting is turns the entire Telecommunications system off. Use when no modem is installed, or you do not the telecommunications to operate.
- **Direct** - This setting is used to connect the jukebox to a PC via a serial cable. After connecting the jukebox to the PC, choose this setting. Press the Cancel/scan button to exit the session, then return the setting to the off or the correct modem type.

176 Telecommunications Password

This is the four digit password used to identify this jukebox by the "Get Connected" program. If it is left at the factory default of "0000" then it can be changed by remote control.

177 Reset Telecommunications ID

This clears the ID code assigned to the jukebox by the "Get Connected" program.

Resetting the ID means the jukebox will no longer be linked to the existing jukebox profile in the "Get Connected" program. This should only be necessary when you are

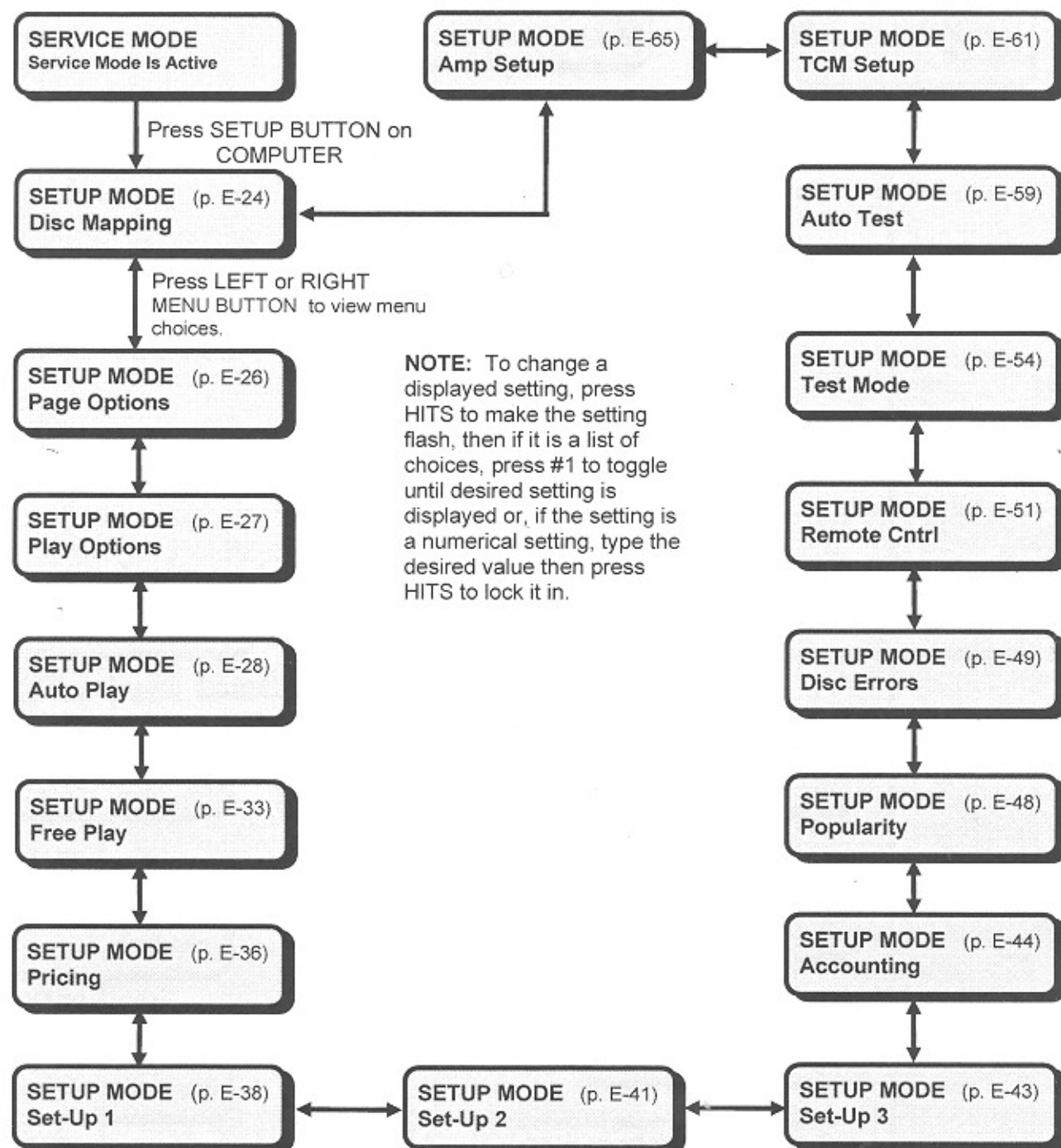
selling the jukebox or discontinuing the use of the modem.

Amp Setup- Provides access to the Equalizer, Balance, Music Level While Paging, Page Decay and Factory Reset functions for the Digital SyberSonic Amplifiers. **Detailed amplifier descriptions and programming instructions are located in Section D of this manual.**

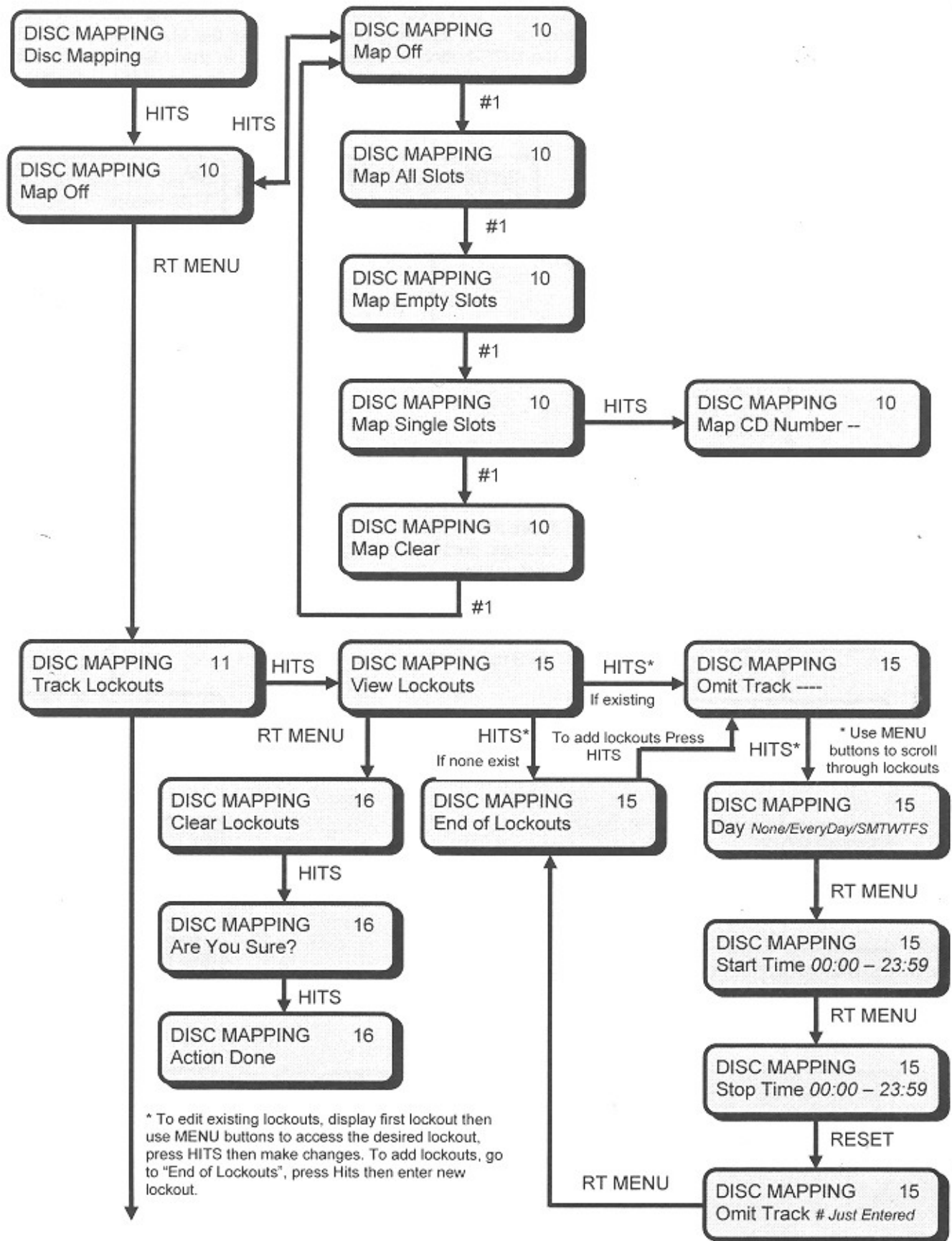
- 210 **Internal Amp** - Provides access to the standard Digital Amplifier setting options. When chosen will jump to Quick Find 213, Int. Equalizer.
- 211 **External Amp** - Provides access to the optional Auxiliary Digital Amplifier setting options. When chosen will jump to Quick Find 222, Ext. Equalizer.
- 212 **Page Decay** - Sets the delay time, in seconds, that the music will "fade" back to the set volume. Page decay is set for all channels simultaneously.
- 213 **Int. Equalizer** - Sets the 7 band graphic equalizer for the internal amplifier.
- 214 **Int. Balance** - Sets the left to right balance for the internal amplifier.
- 215 **Int. MLWP** - Sets the Music Level While Paging for the internal amplifier. The MLWP is a percentage of the music volume heard while the paging microphone is used. If selected, will jump to Quick Find 218. Left and Right Channels are set separately via Quick Find 218 and Quick Find 219 respectively.
- 216 **Int. Loudness** - Sets the loudness contour for the internal amplifier. If selected, will jump to Quick Find 220. Left and Right channels are set separately via Quick Find 220 and Quick Find 221 respectively.
- 217 **Reset Int. Amp** - Quickly restores settings for the internal amplifier to their factory settings.
- 218 **Internal Left MLWP** - Set how much of the music is heard through the Internal Left channel during a "page."

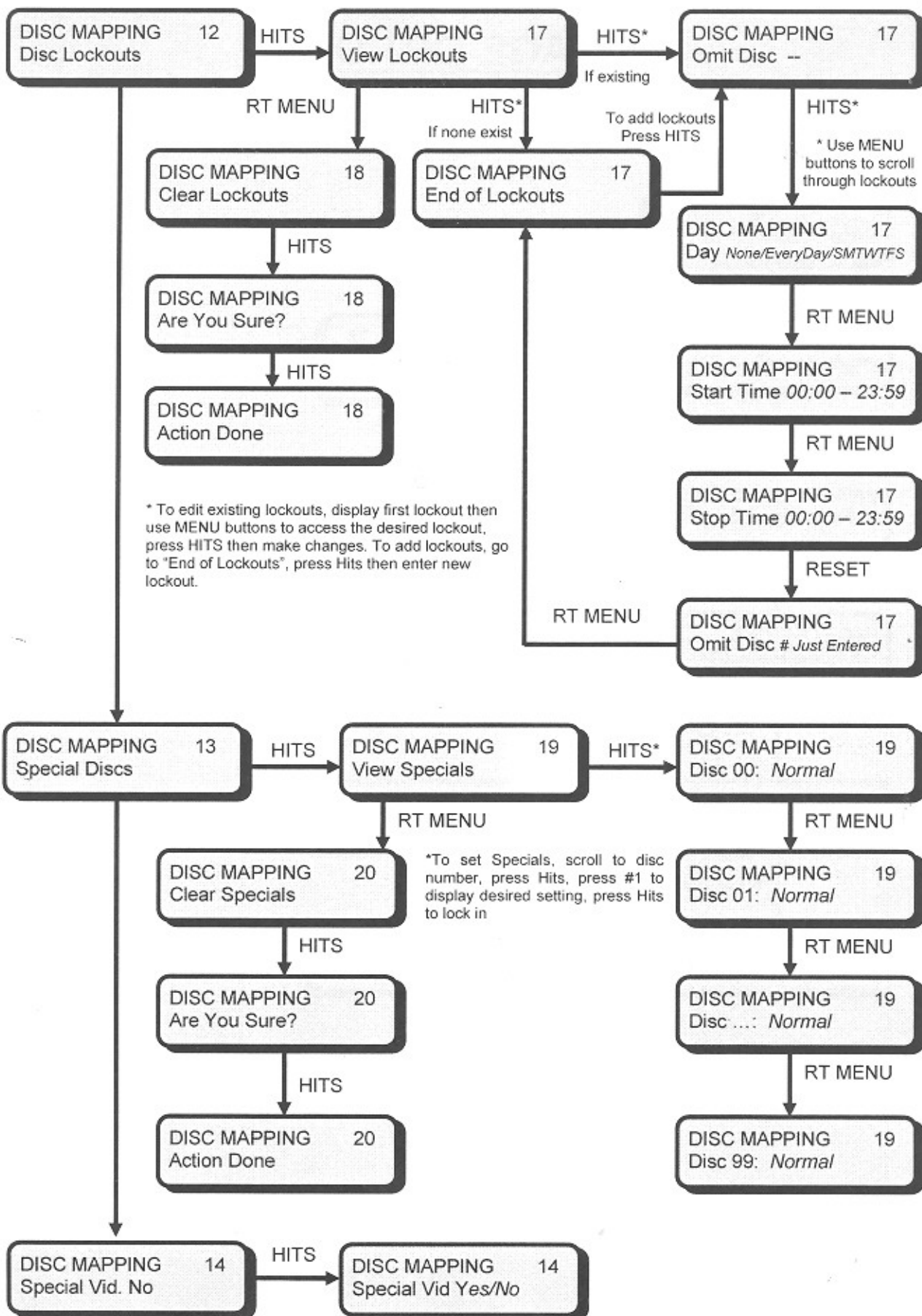
- 219 Internal Right MLWP** – Sets how much of the music is heard through the Internal Right Channel during a "page."
- 220 Internal Left Loudness** – Turns the loudness contour on or off for the Internal Amplifier's Left Channel.
- 221 Internal Right Loudness** – Turns the loudness contour on or off for the Internal Amplifier's Right Channel.
- 231 Internal AVC** – Turns the Automatic Volume Control on or off for the Internal Amplifier.
- 222 Ext. Equalizer** - Sets the 7 band graphic equalizer for the optional Auxiliary Digital Amplifier.
- 223 Ext. Balance** - Sets the left to right balance for the optional Auxiliary Digital Amplifier.
- 224 Ext. MLWP** - Sets the Music Level While Paging for the external amplifier. The MLWP is a percentage of the music volume heard while the paging microphone is used. If selected, will jump to Quick Find 227. Left and Right Channels are set separately via Quick Find 227 and Quick Find 228 respectively.
- 225 Ext. Loudness** - Sets the loudness contour for the external amplifier. If selected, will jump to Quick Find 229. Left and Right Channels are set separately via Quick Find 229 and Quick Find 230 respectively.
- 226 Reset Ext. Amp** - Quickly restores settings for the external amplifier to their factory settings.
- 227 External Left MLWP** – Set how much of the music is heard through the External Left channel during a "page."
- 228 External Right MLWP** – Set how much of the music is heard through the External Right channel during a "page."
- 229 External Left Loudness** – Turns the loudness contour on or off for the External Amplifier's Left Channel.
- 230 External Right Loudness** – Turns the loudness contour on or off for the External Amplifier's Right Channel.
- 232 External AVC** – Turns the Automatic Volume Control on or off for the External Amplifier.

To enter the SETUP MODE, open dome/door, and press Scan/Cancel red button twice. To view Menu choices, press the left or right Menu buttons. The following chart represents the Main Menu flow path. Once the desired item is found, press the HITS button to access items within that Menu. For specific feature explanations, see the Quick Find Programming Definitions section. See the Menu Navigation Section for details on using the "Menu Navigation Keys". See the flow chart for the chosen menu item for further details. To EXIT, simply close the lid/door.

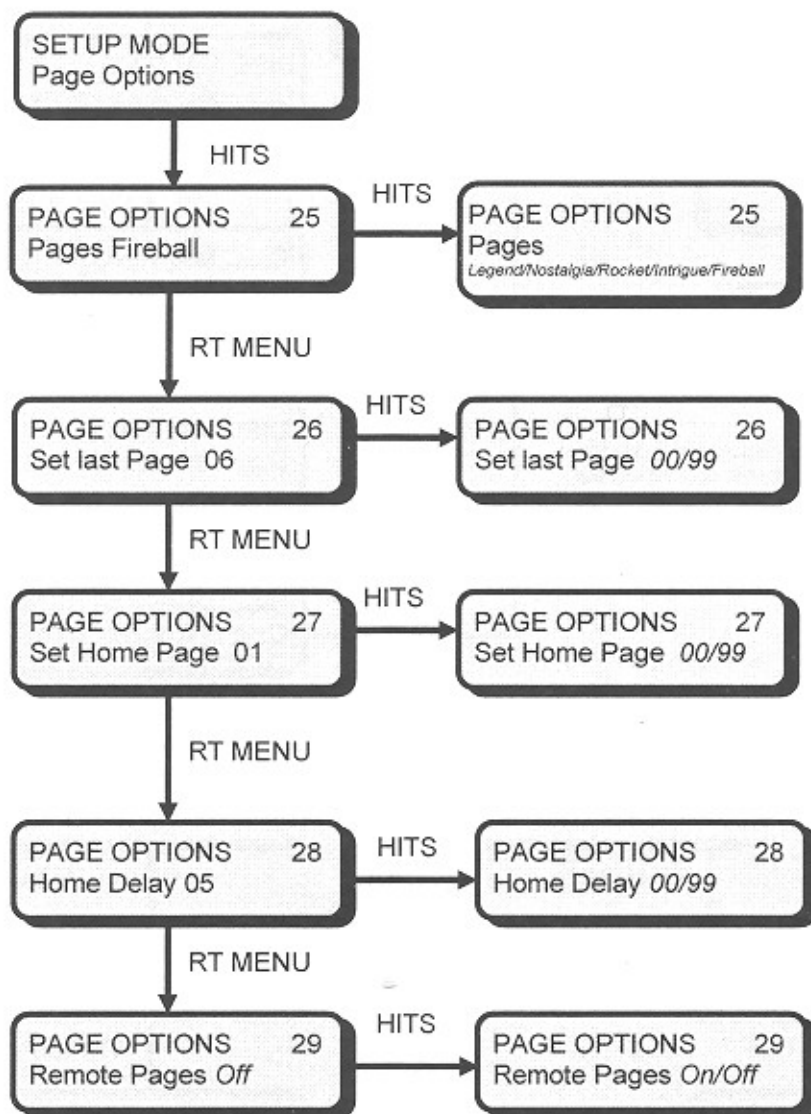


DISC MAPPING

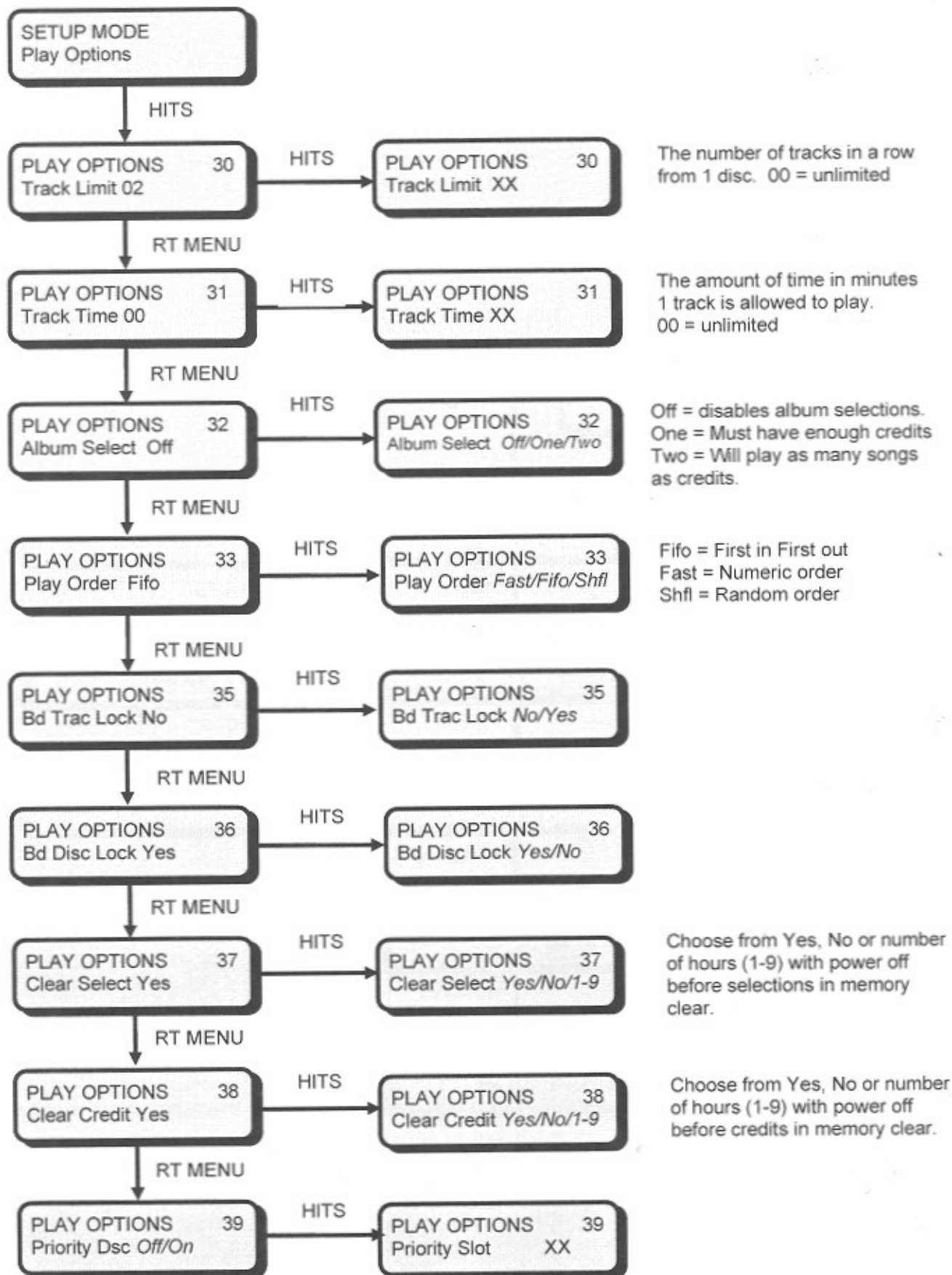




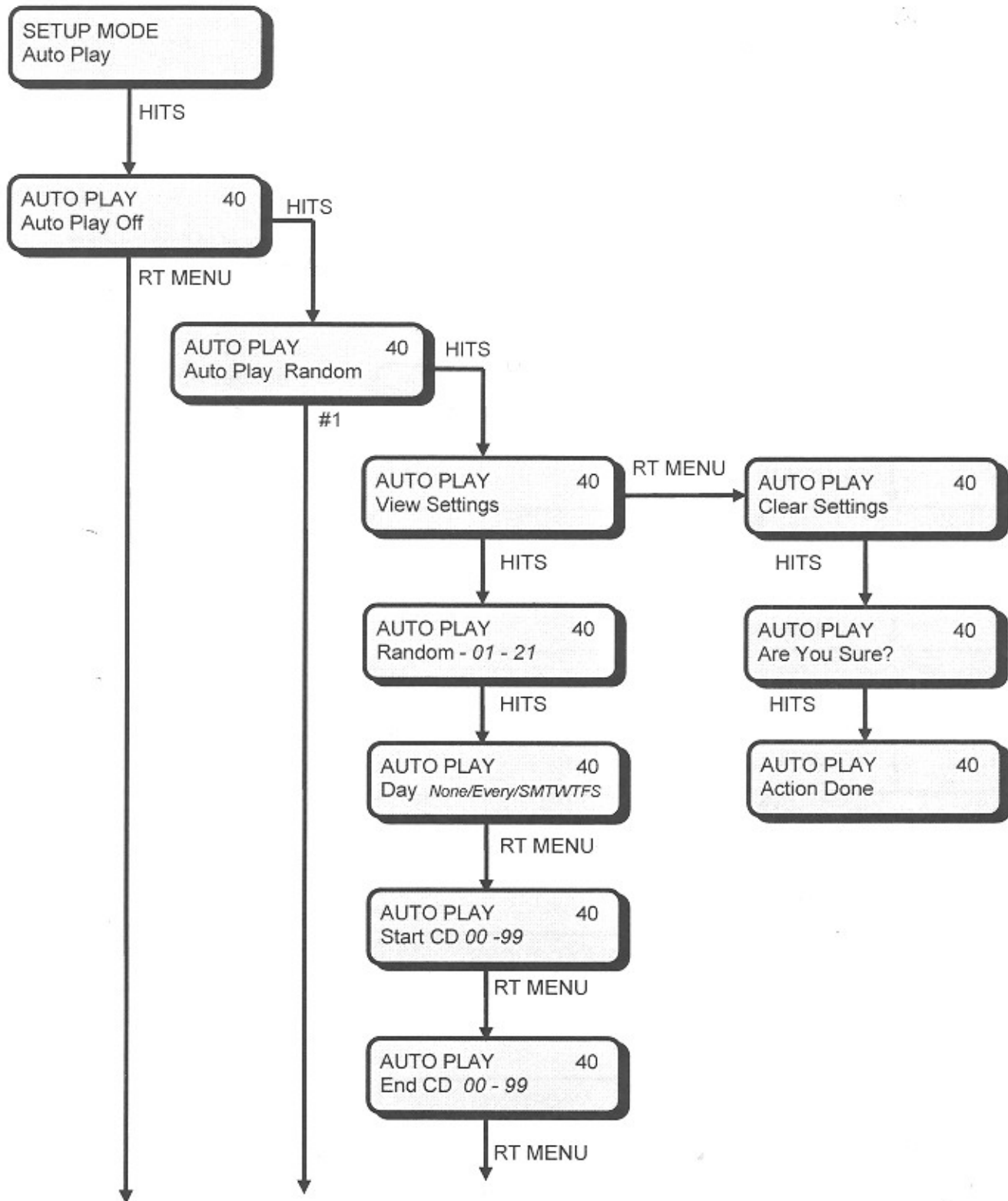
PAGE OPTIONS

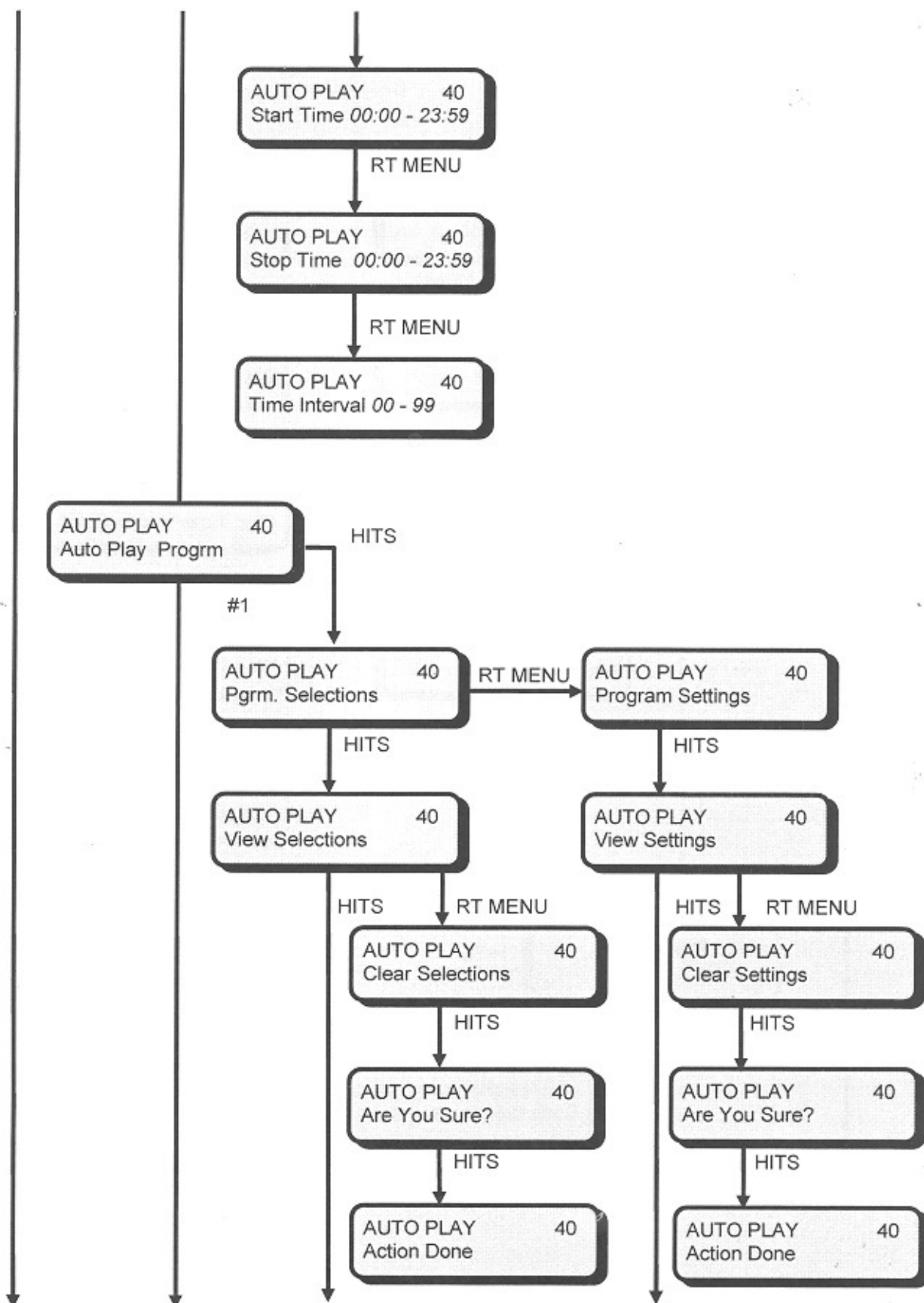


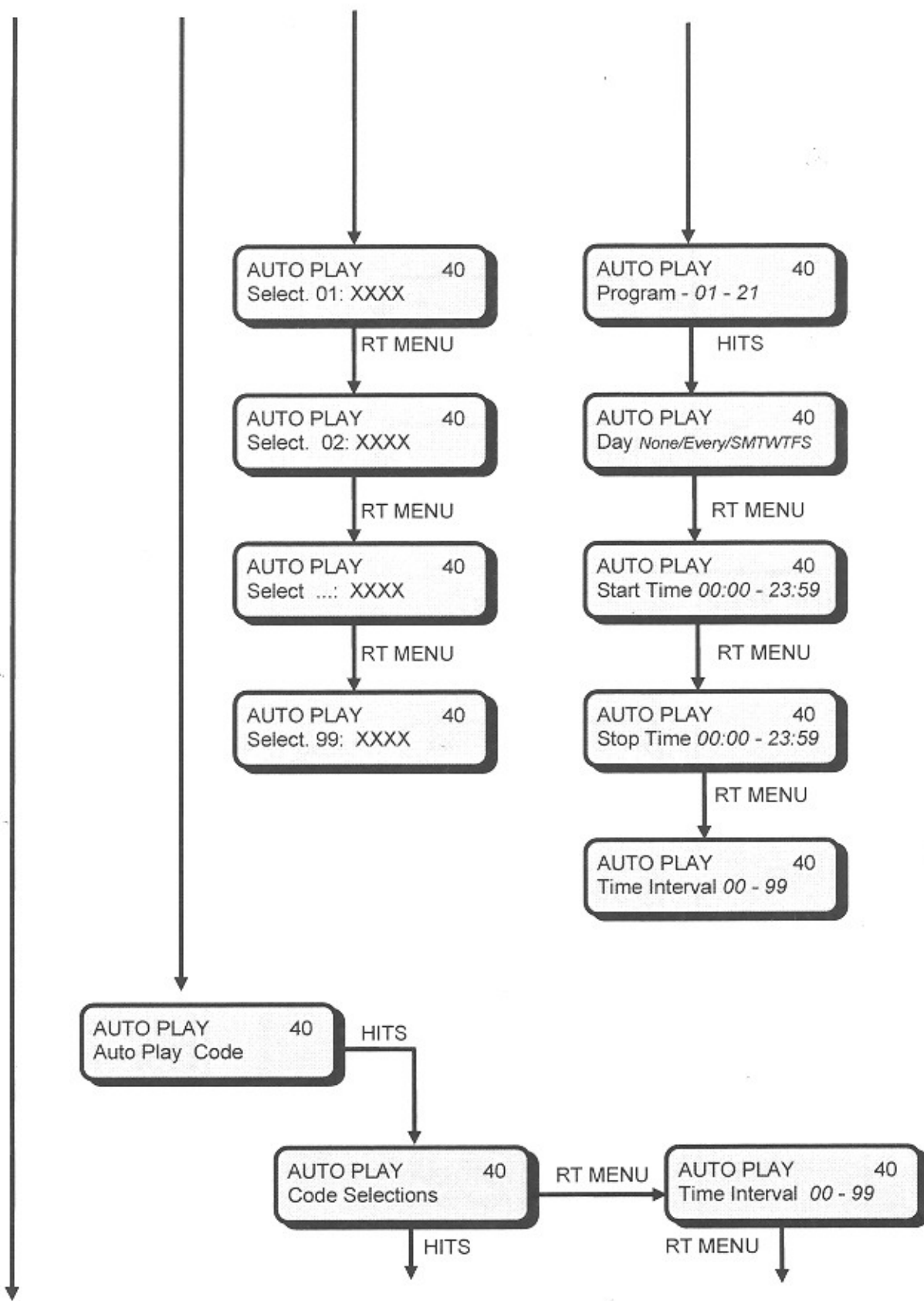
PLAY OPTIONS

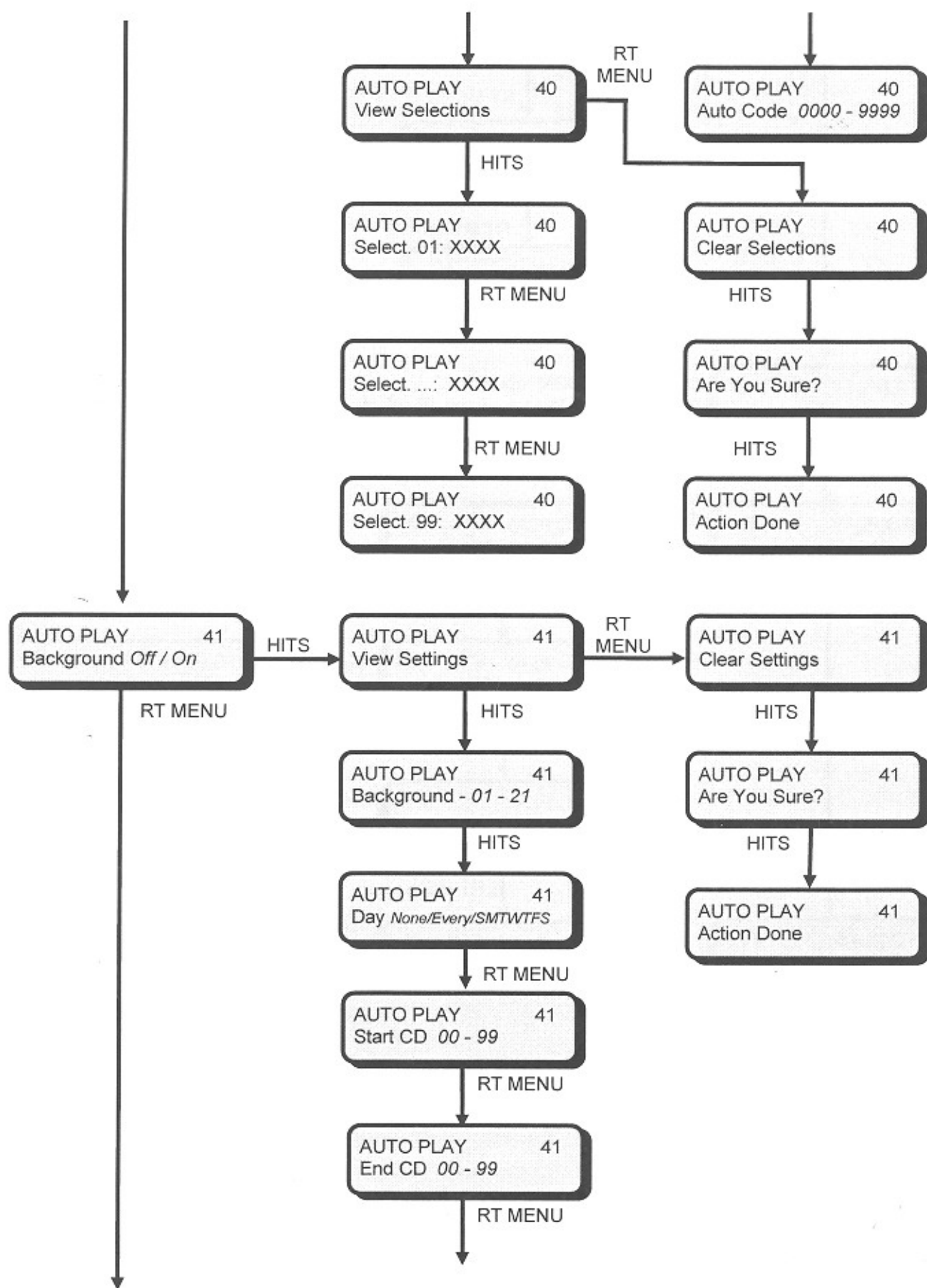


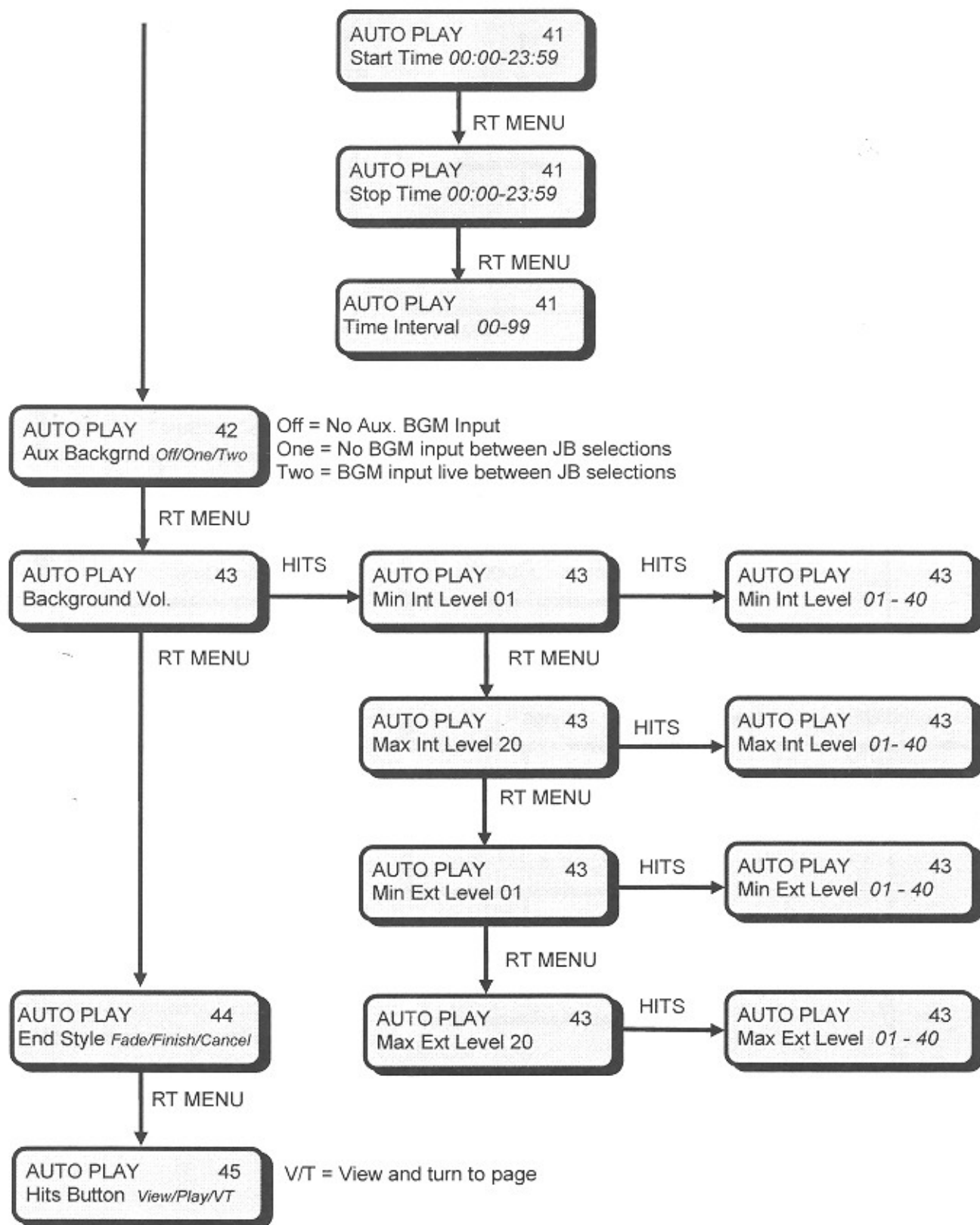
AUTO PLAY



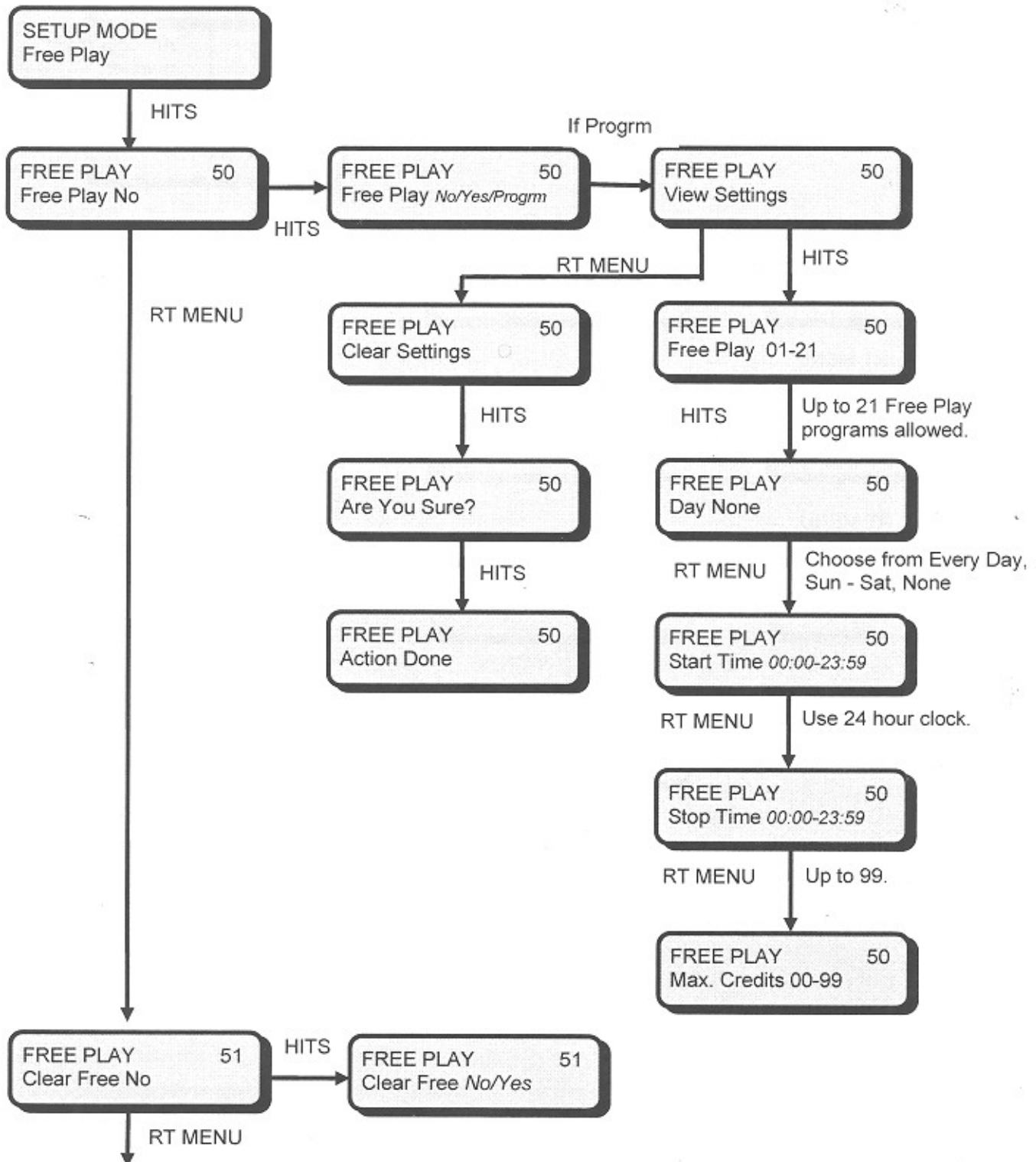


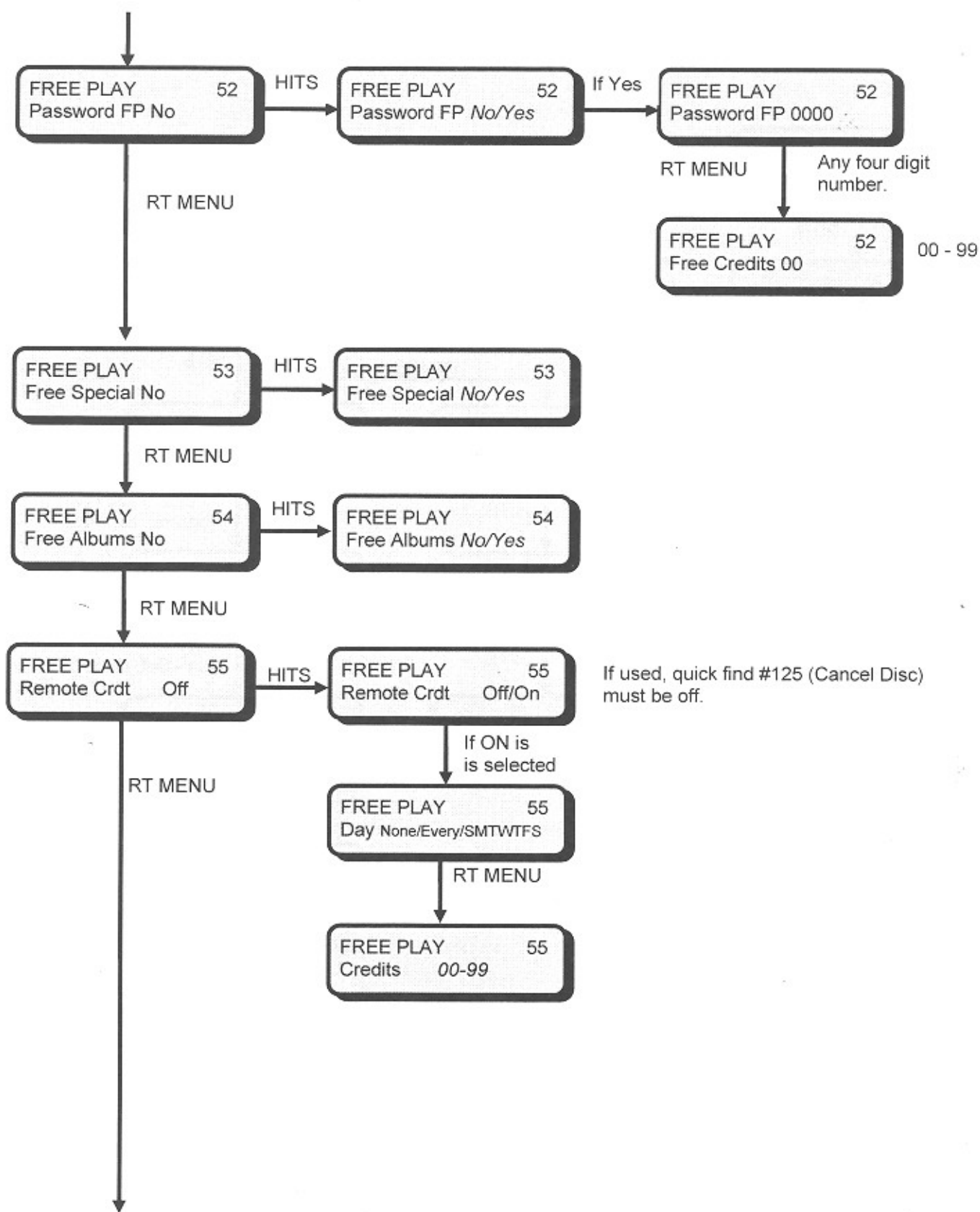




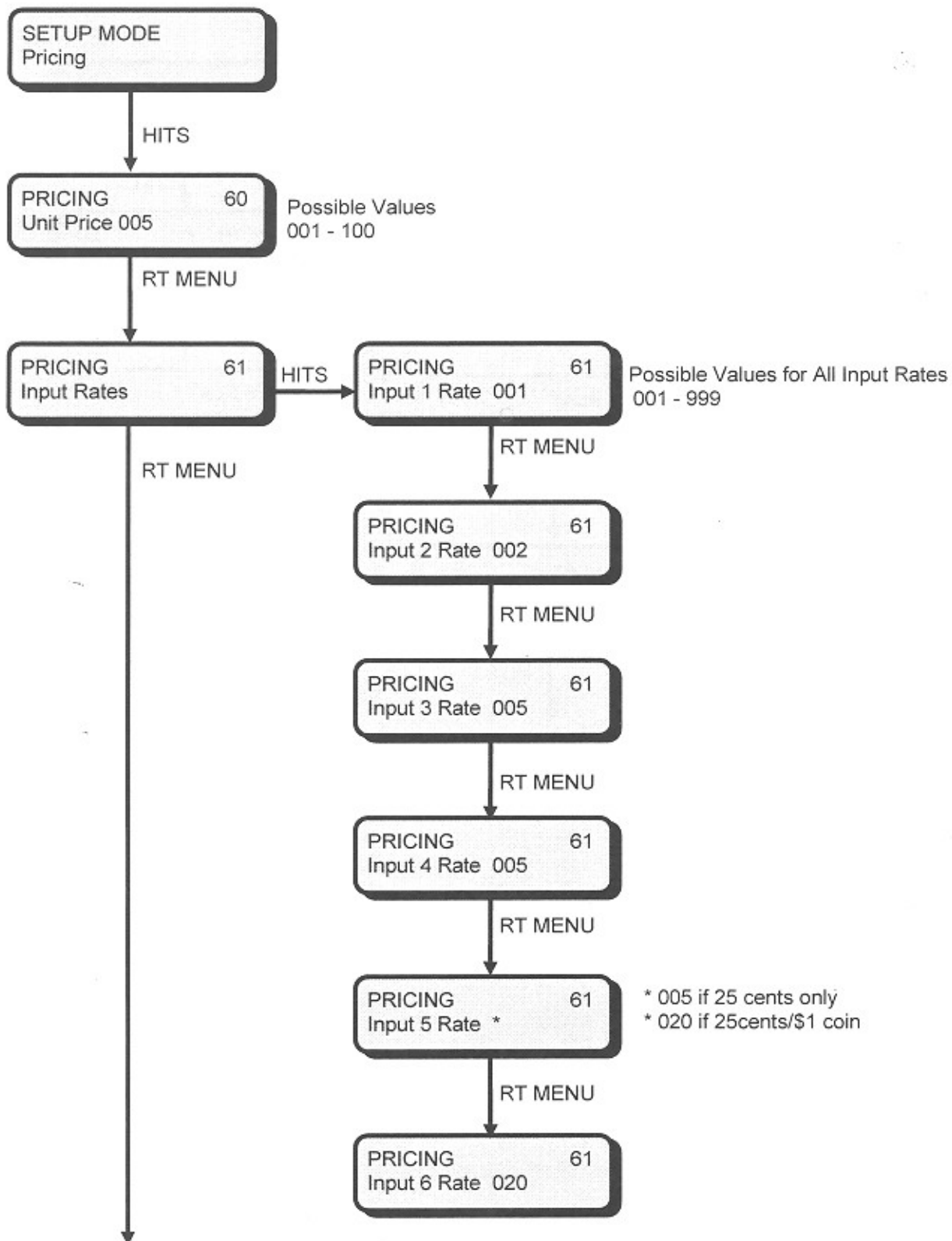


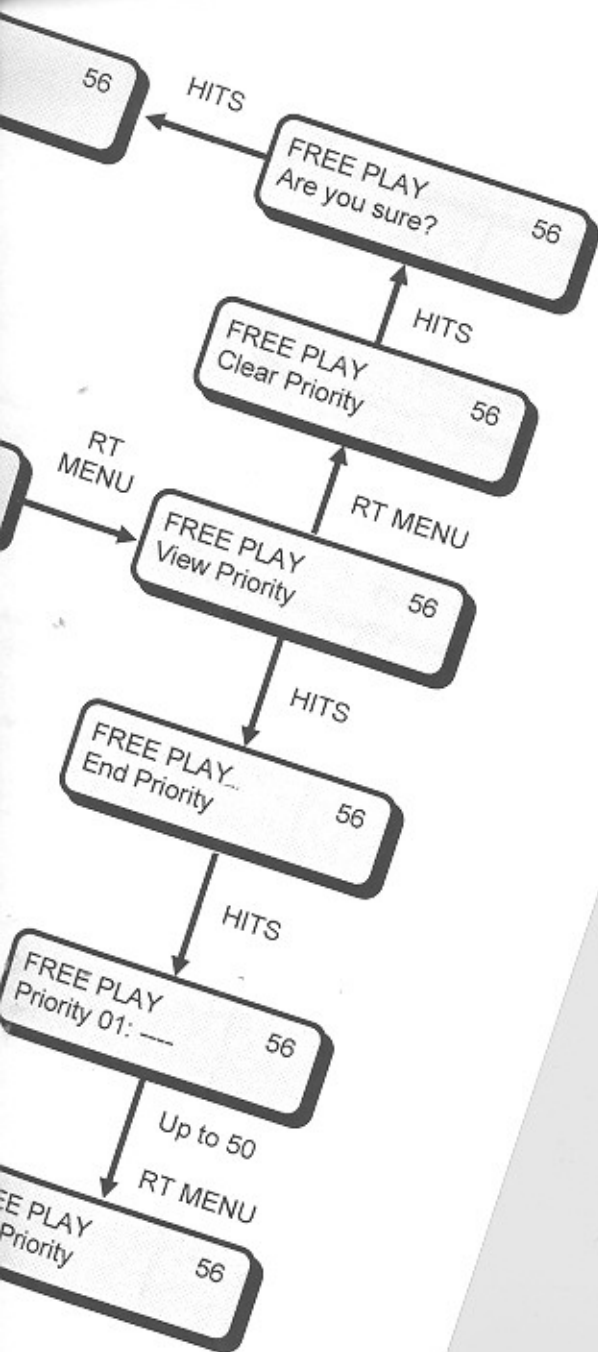
FREE PLAY



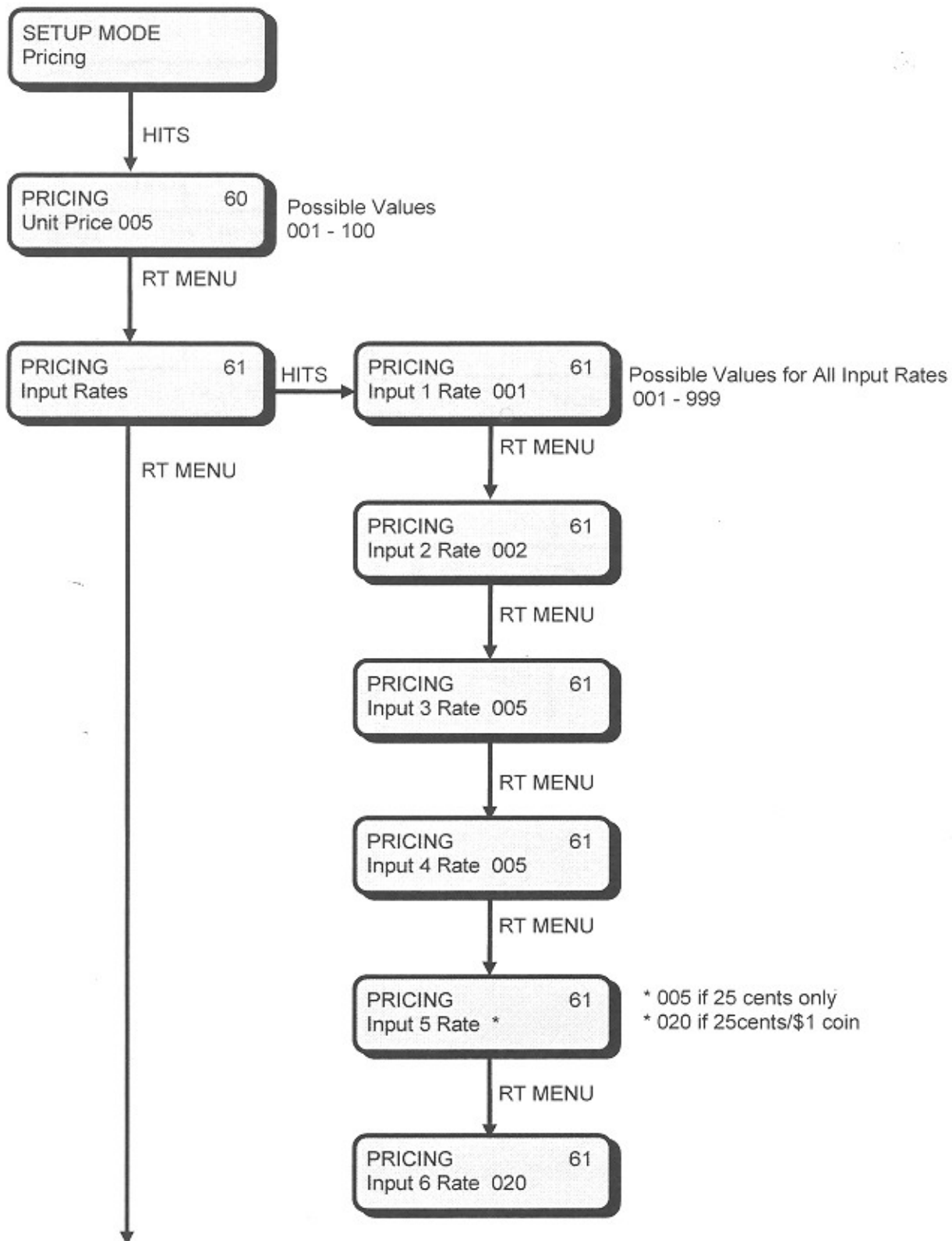


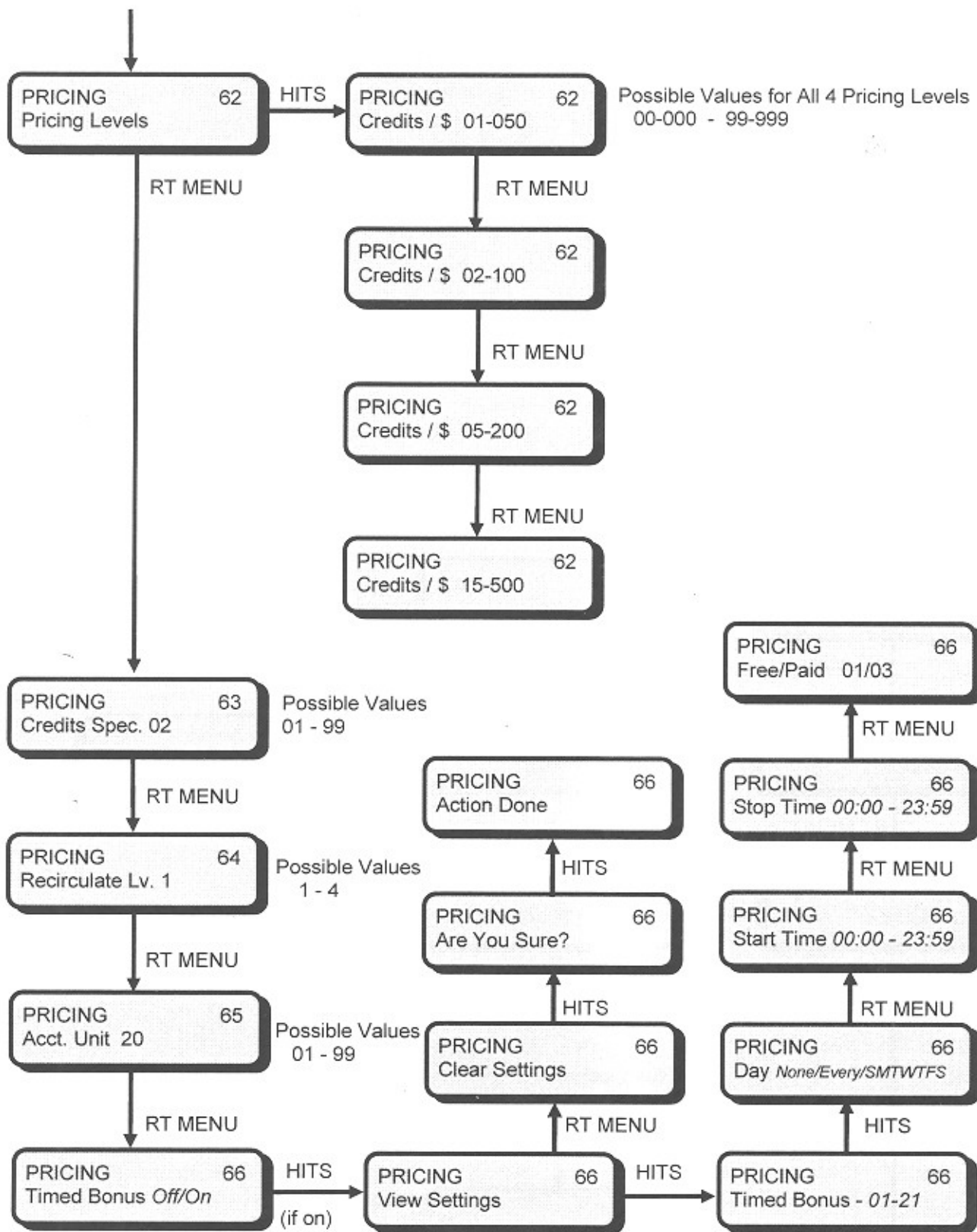
PRICING



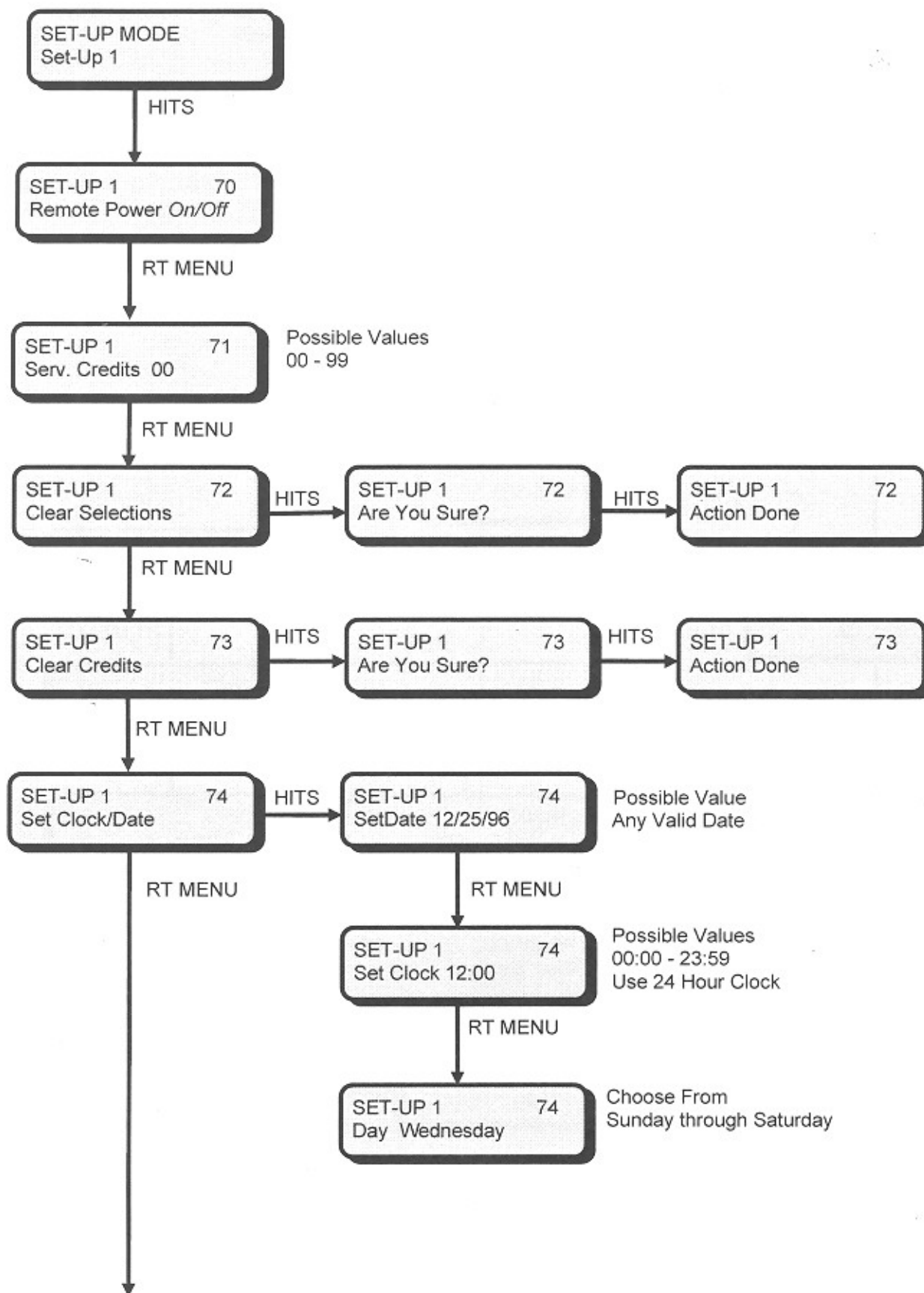


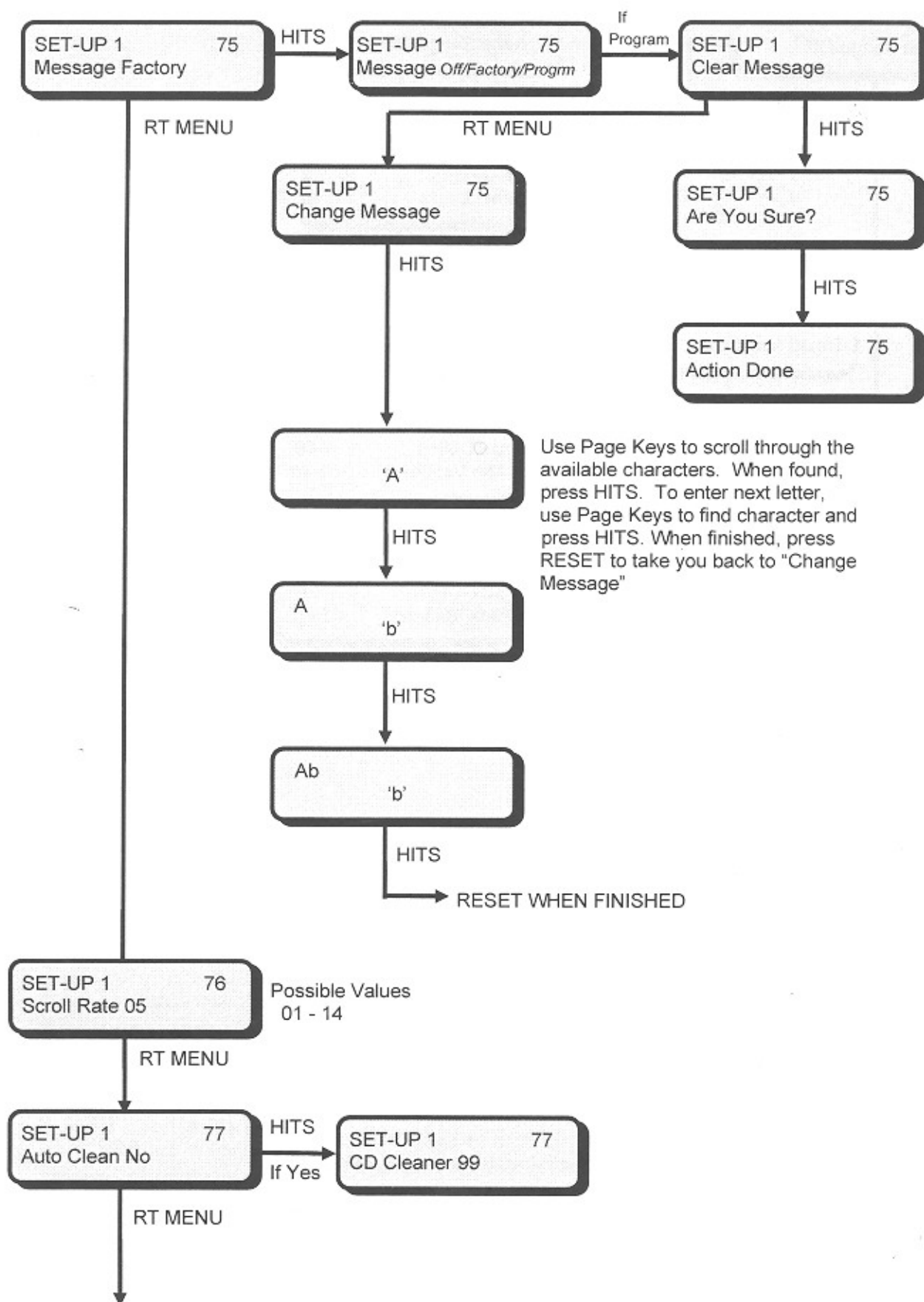
PRICING

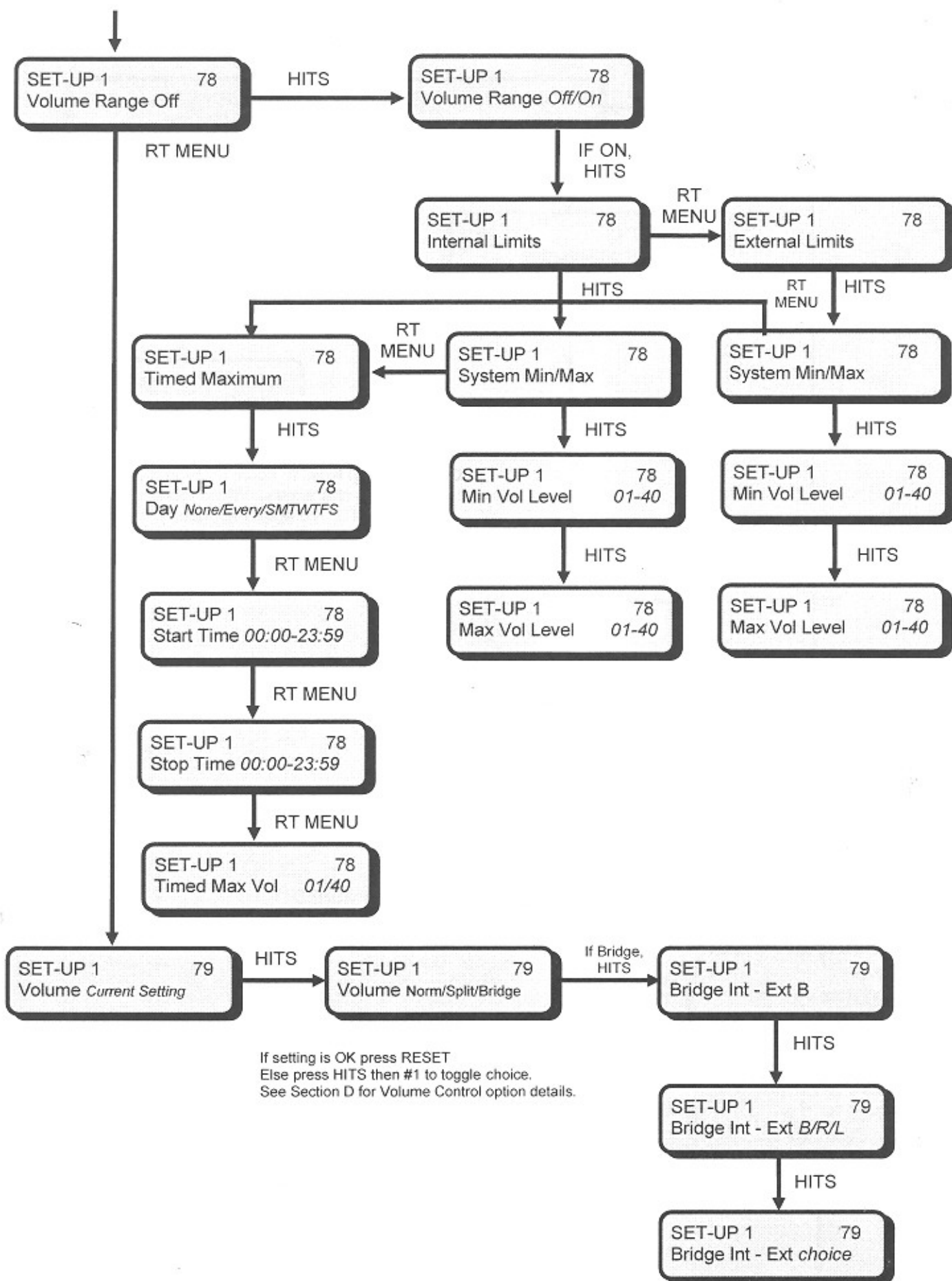




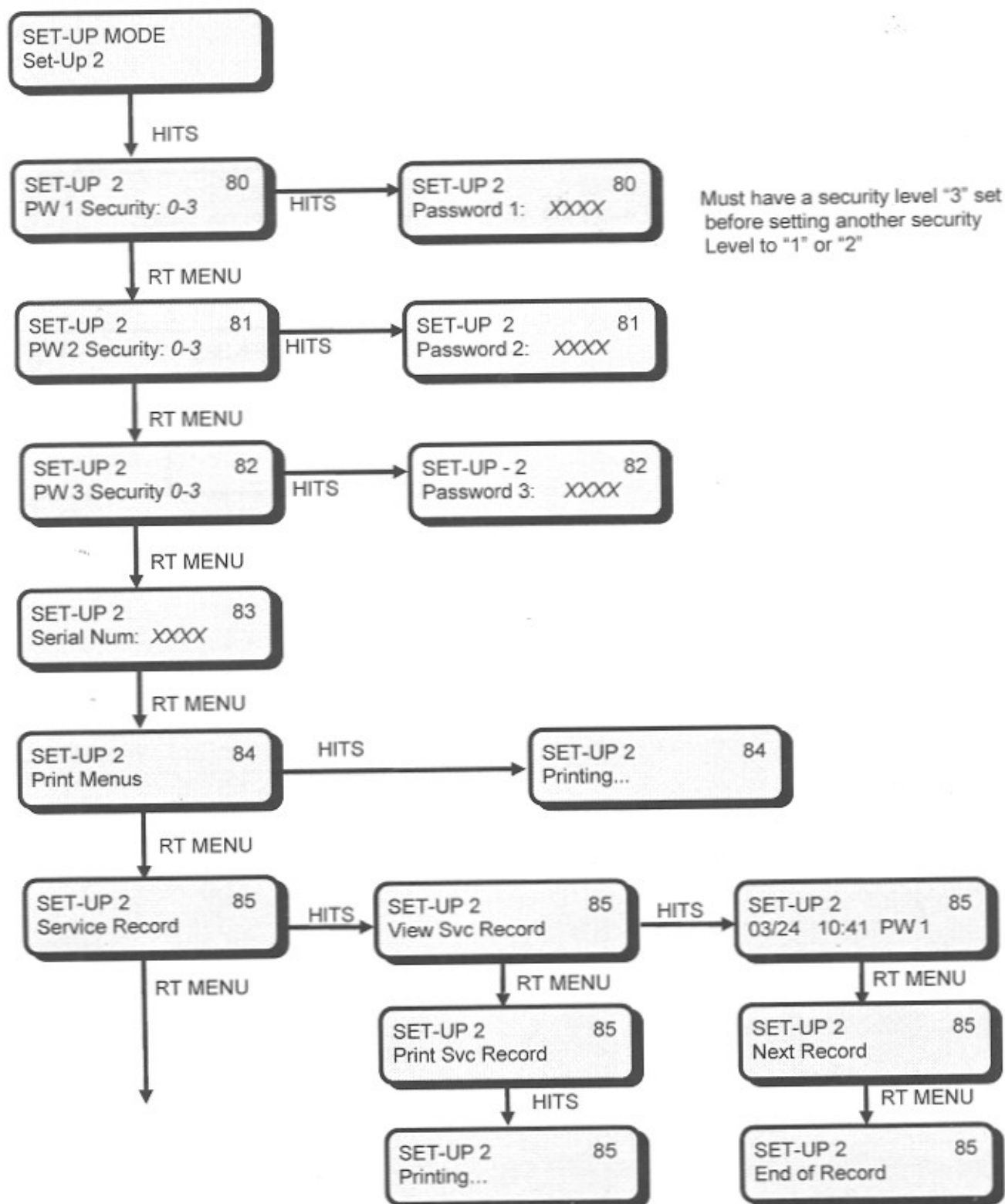
SET-UP 1

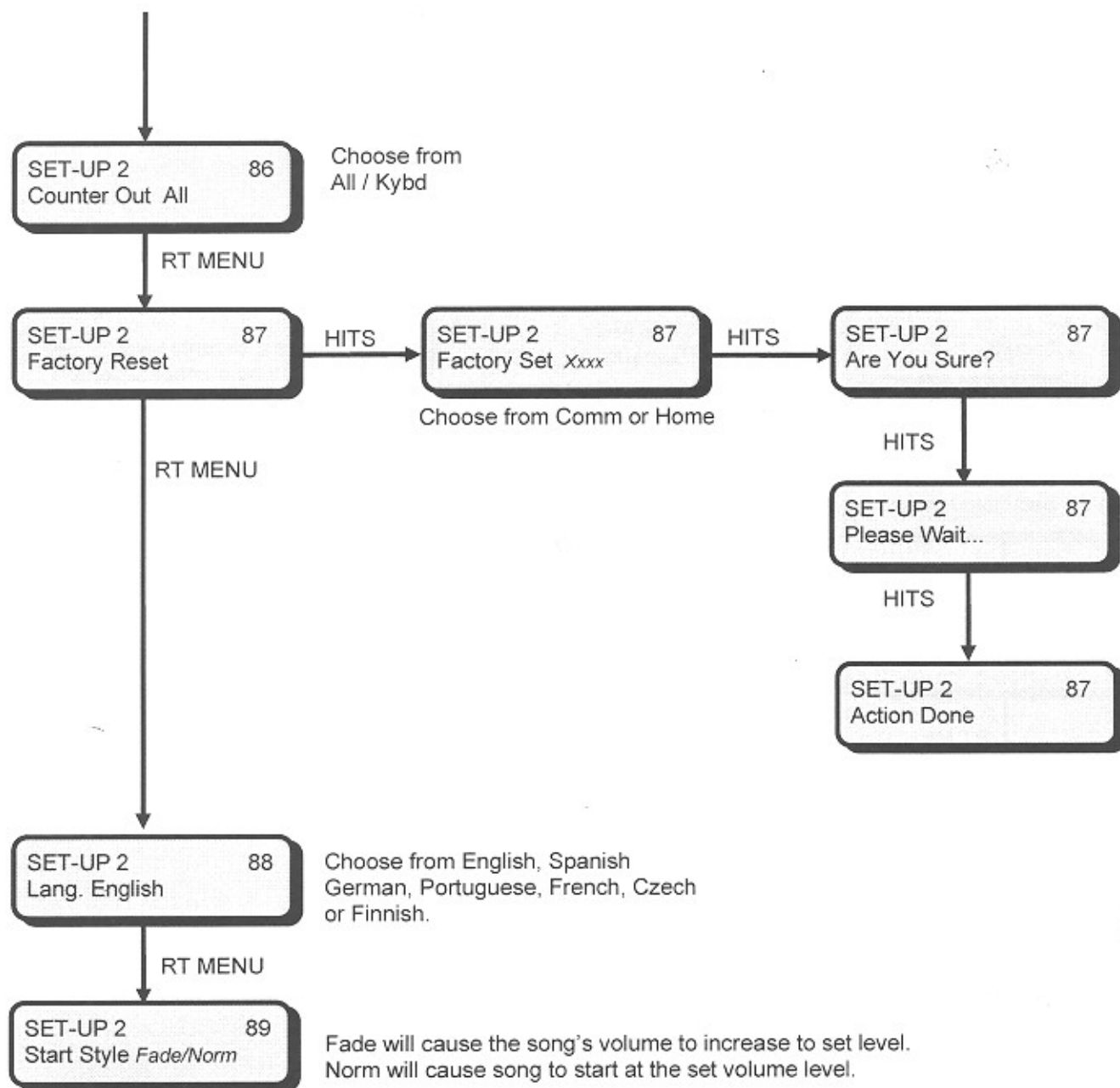




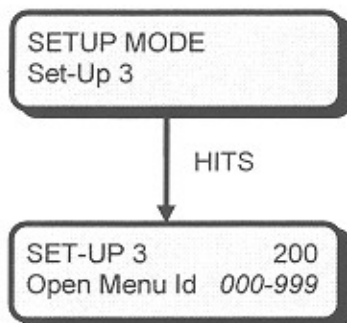


SET-UP 2



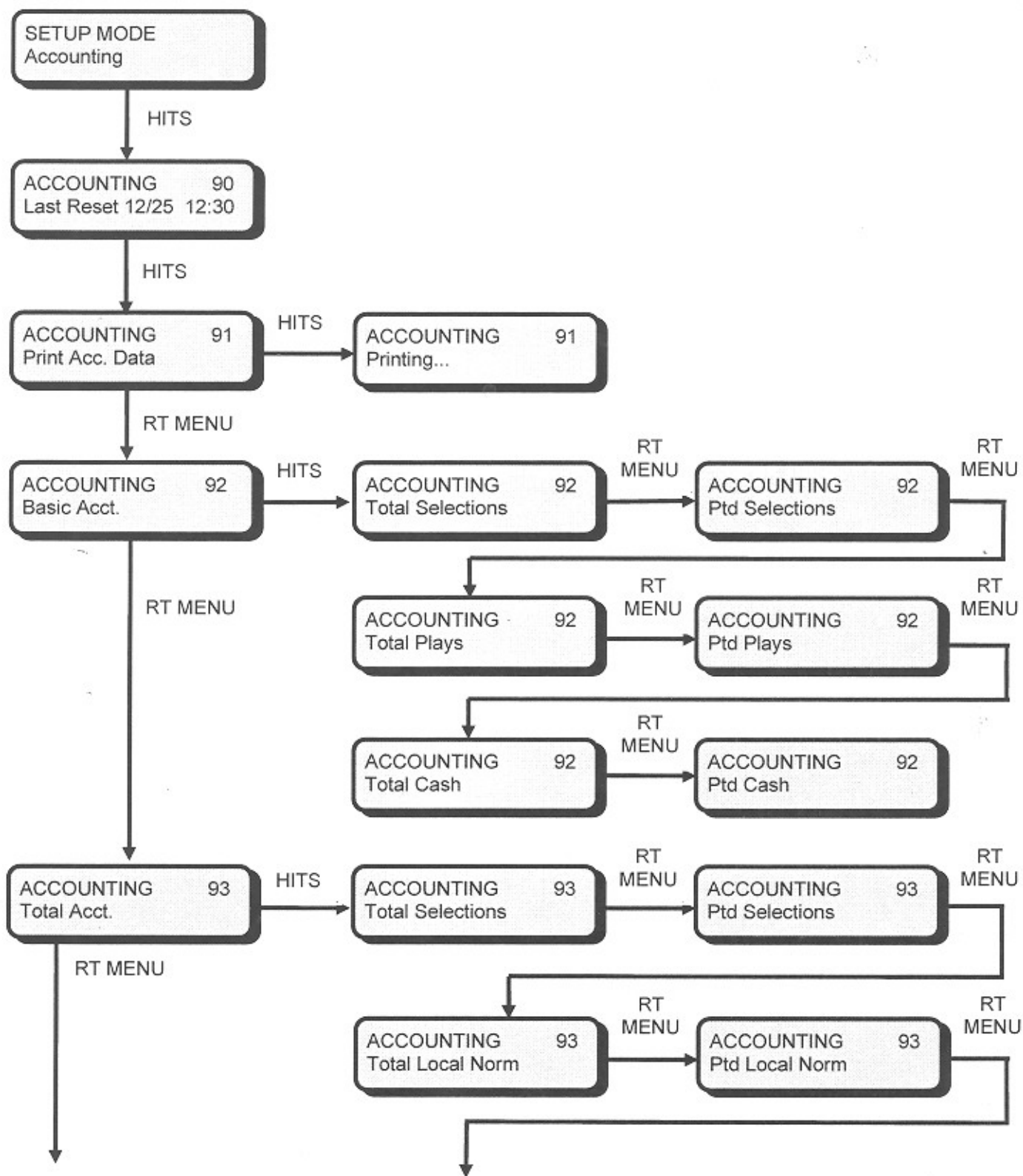


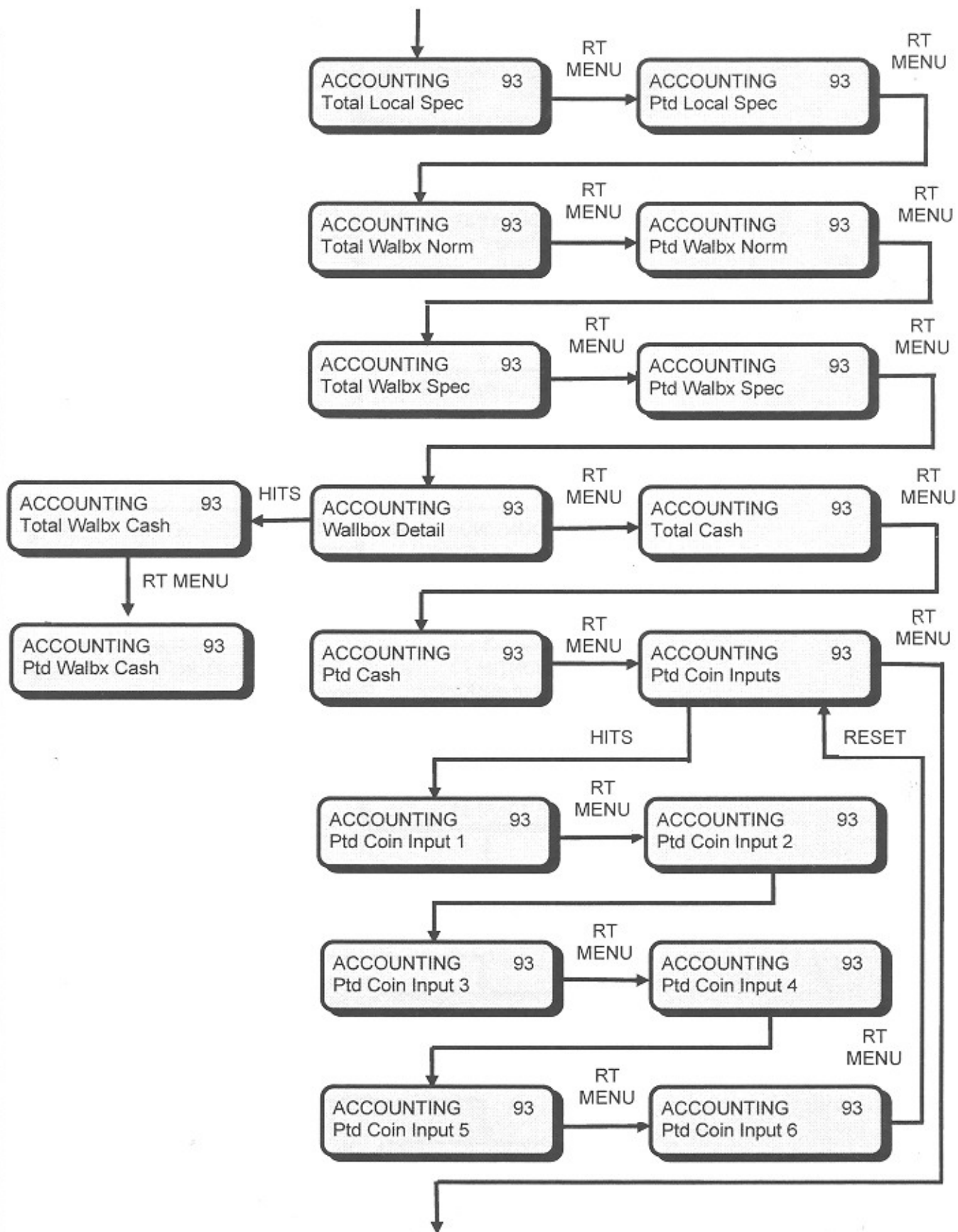
SET-UP 3

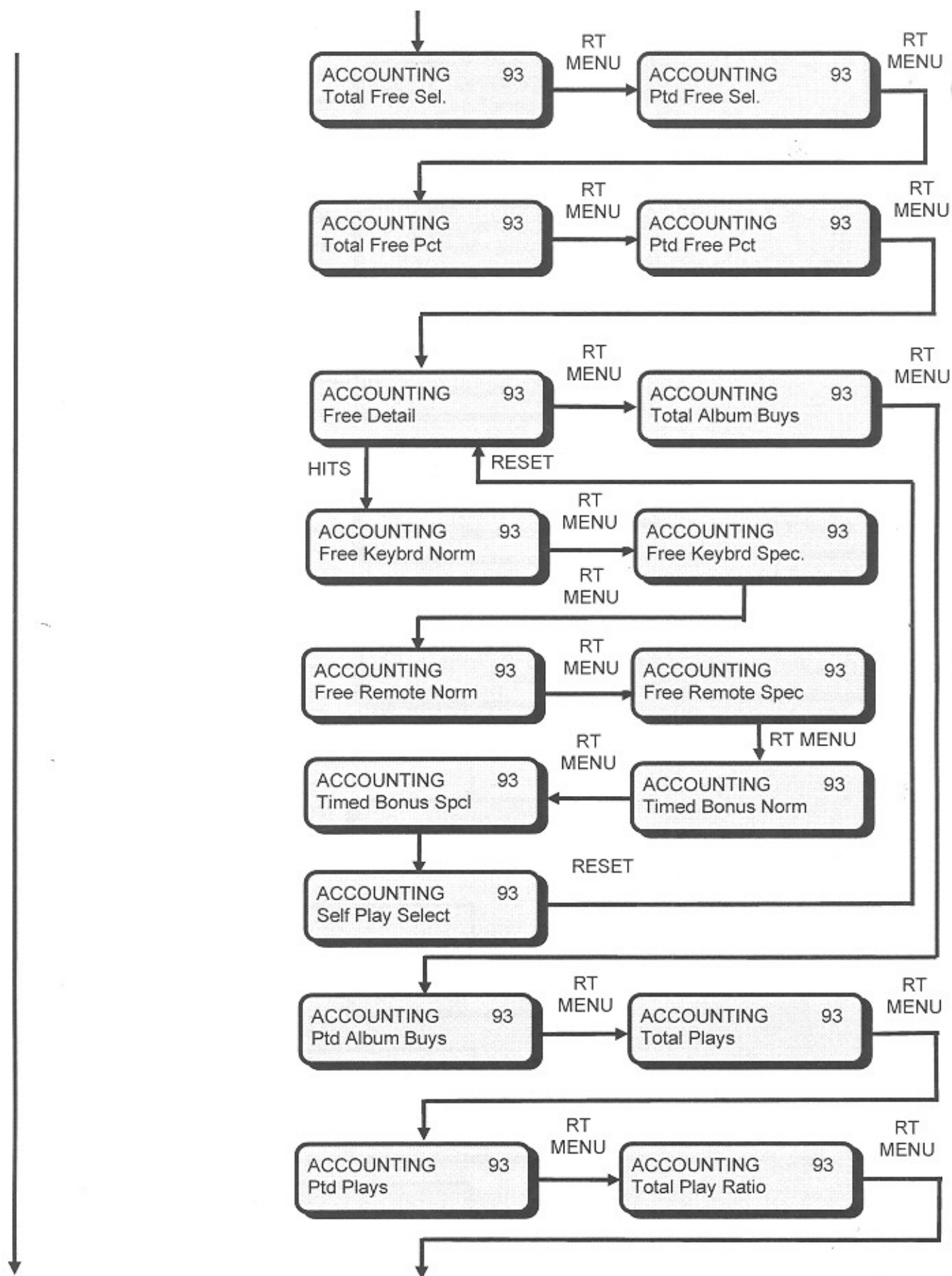


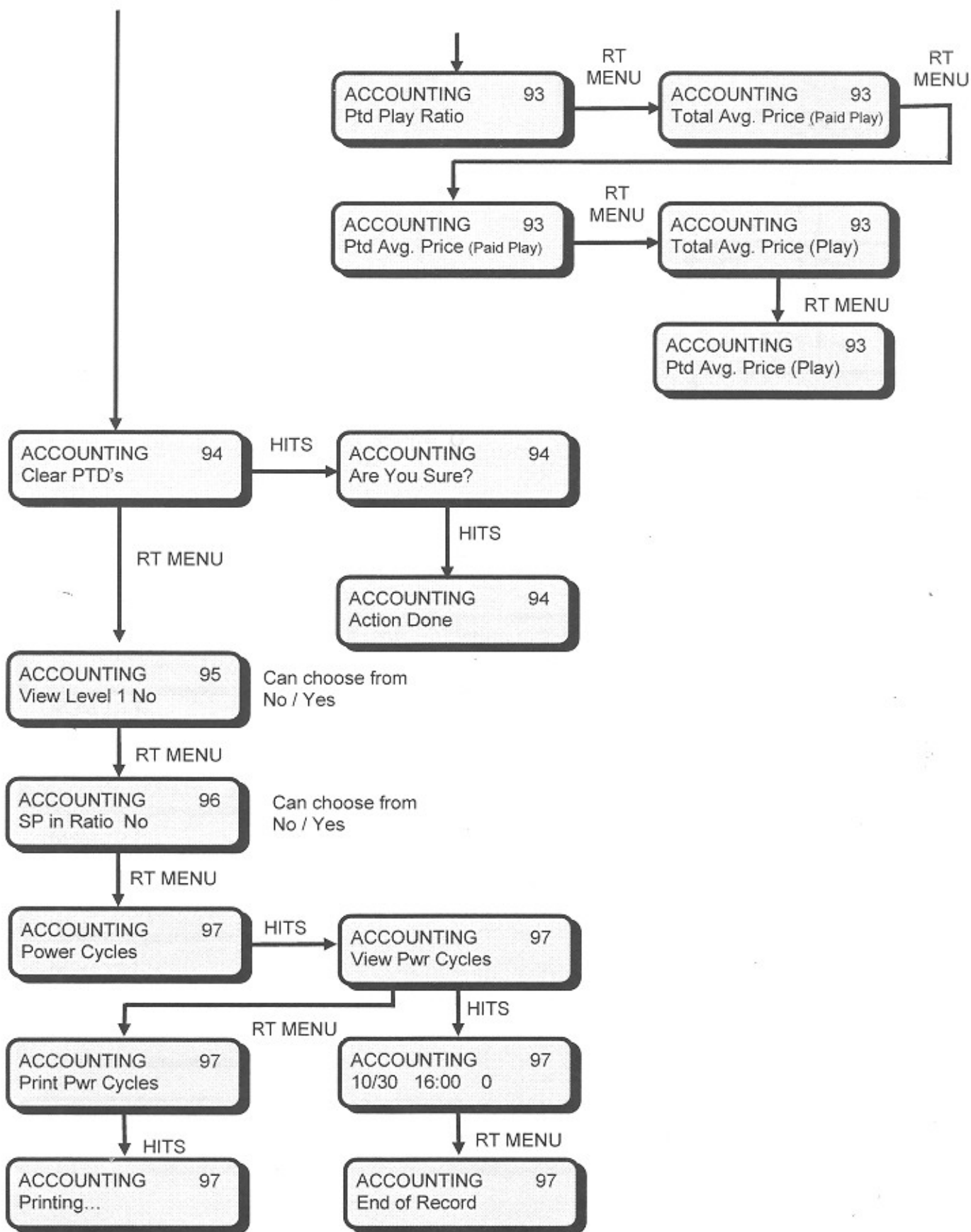
Range is 000-999. If an invalid "hotkey" is entered, menu entry will default to normal entry point: "Disc Mapping"

ACCOUNTING

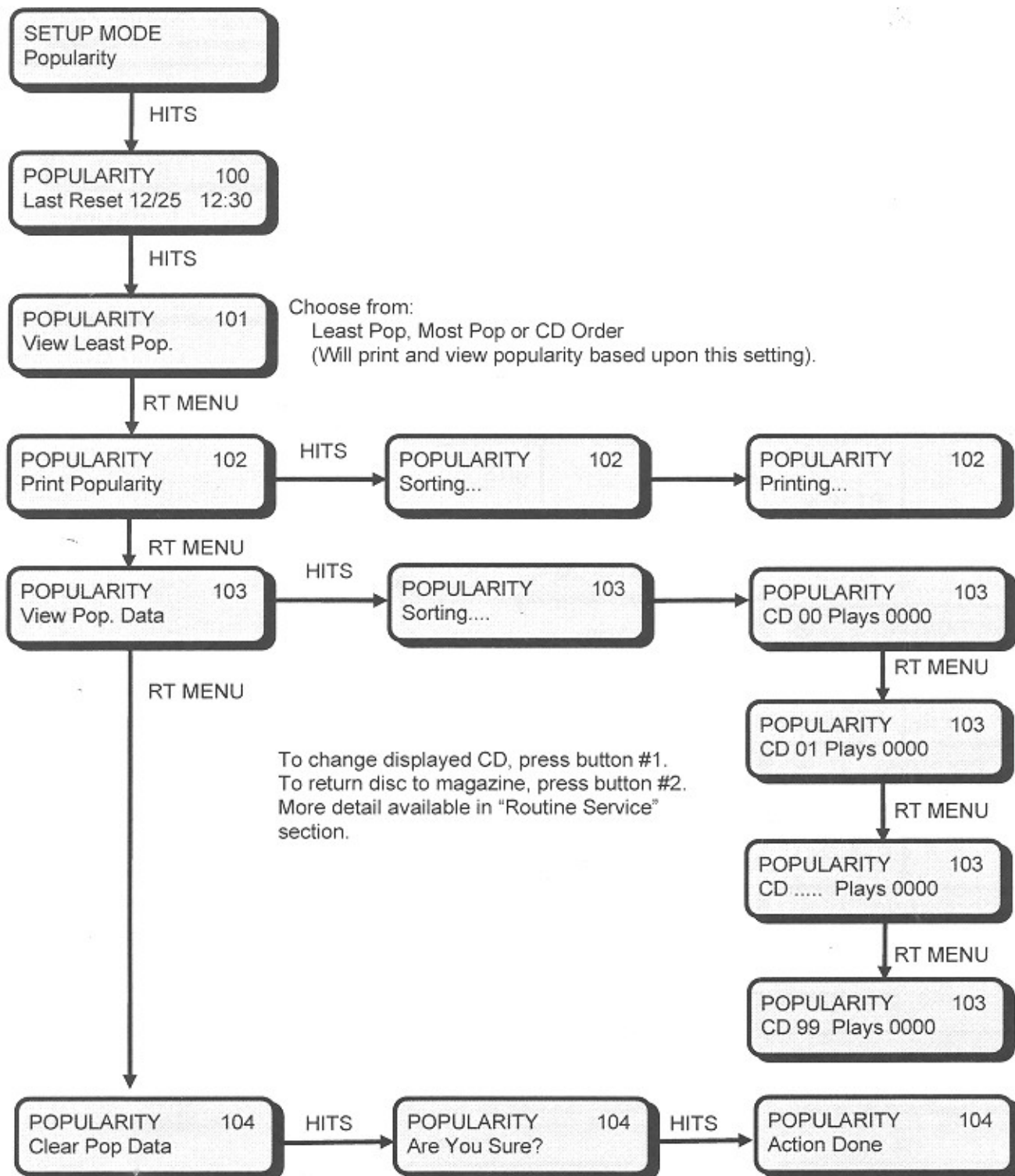




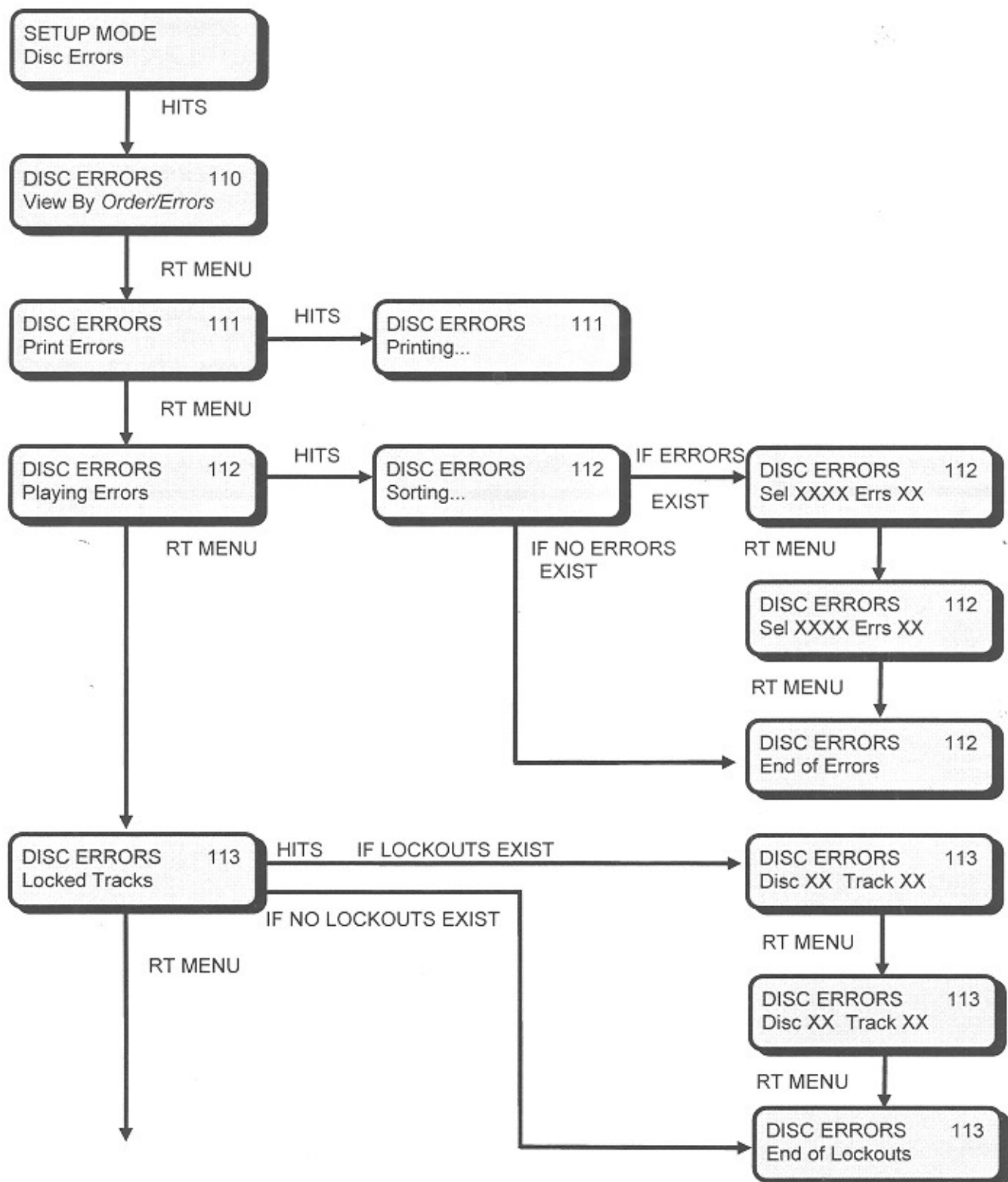


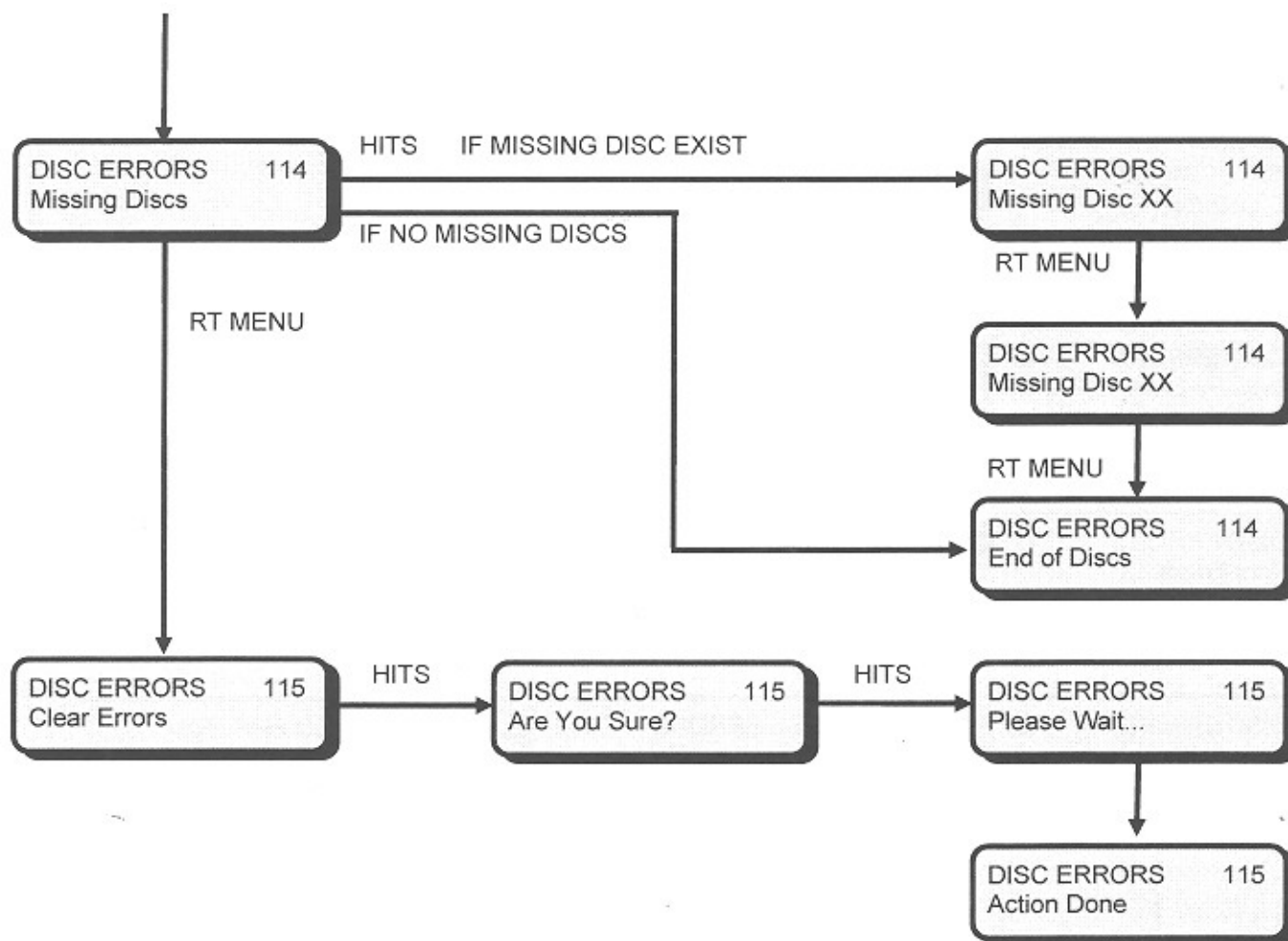


POPULARITY

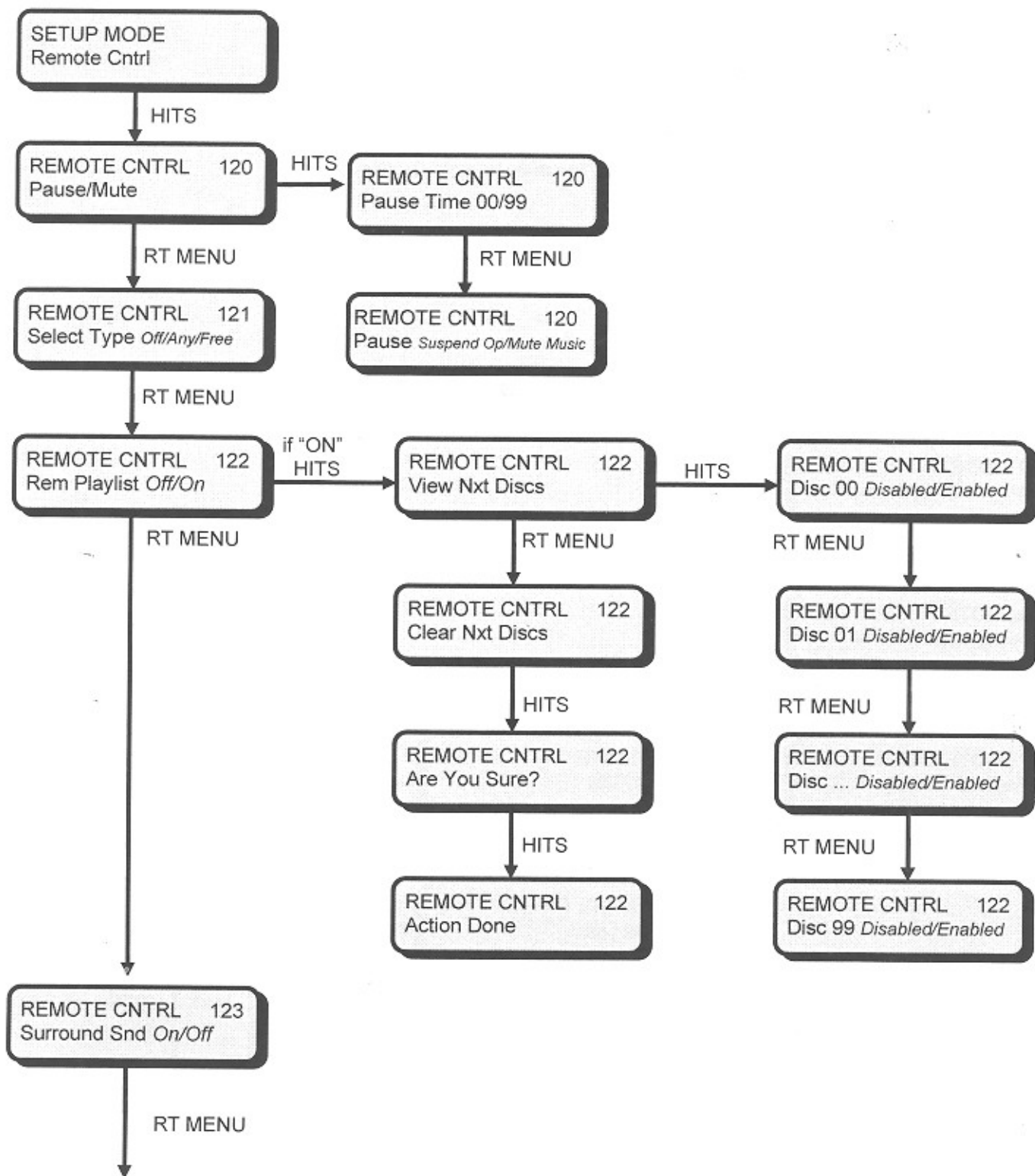


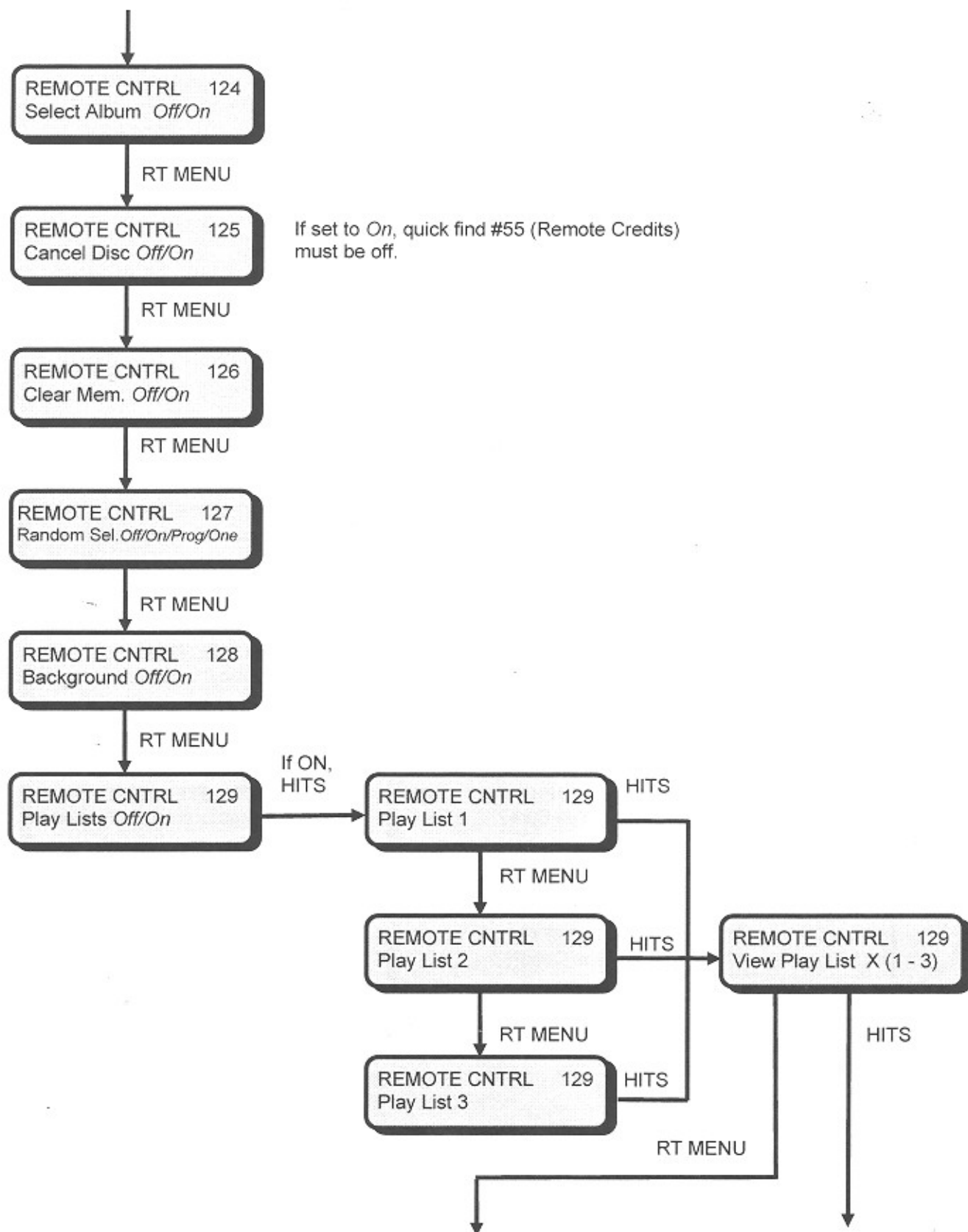
DISC ERRORS

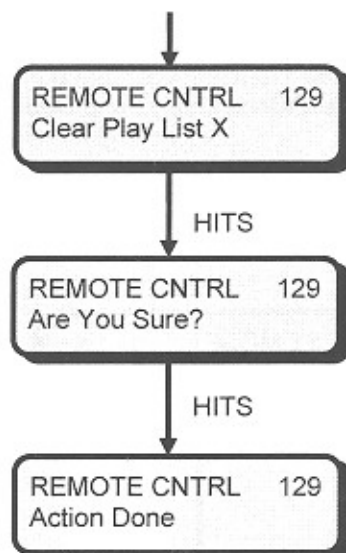




REMOTE CONTROL

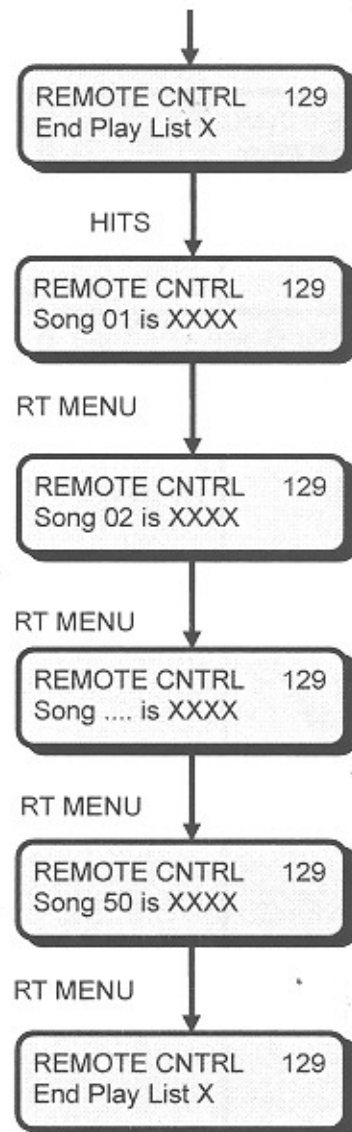






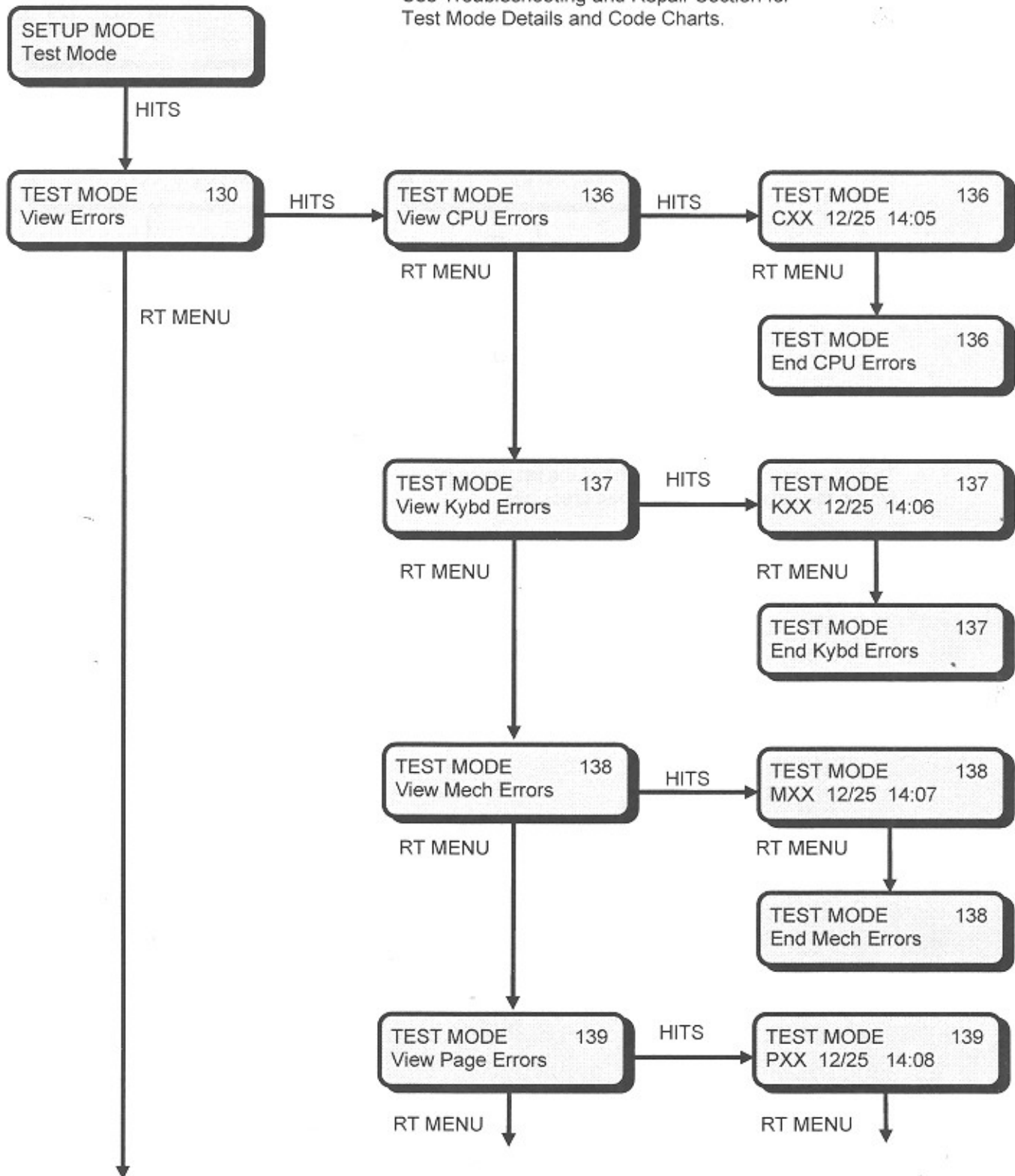
*NOTE: To change a song entry: scroll to the entry, press hits, type in the selection number, then press hits.
To add an entry: scroll to the end of the list, press hits type in the selection number, then press hits.

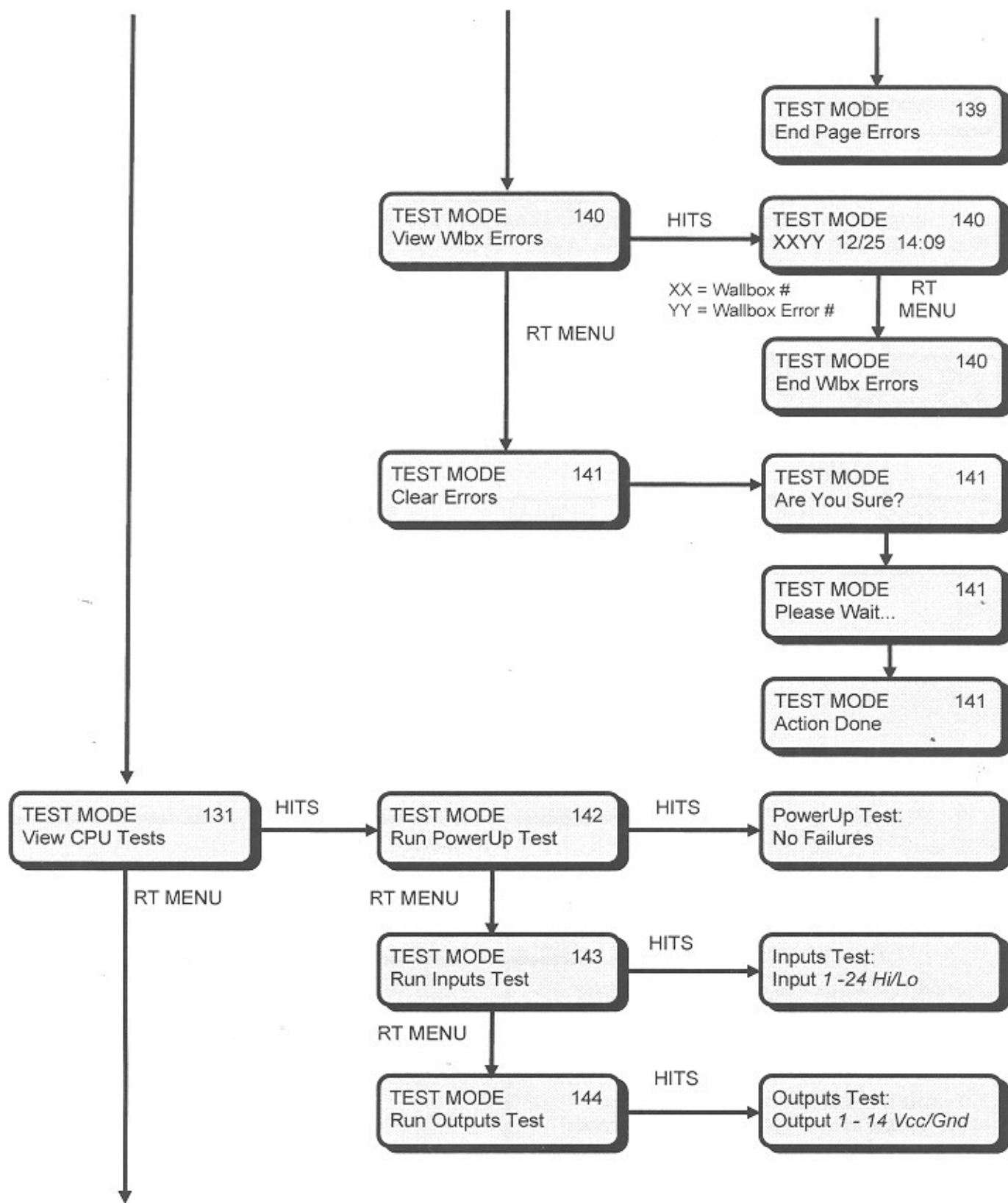
Up to 50 songs can be added to each play list.

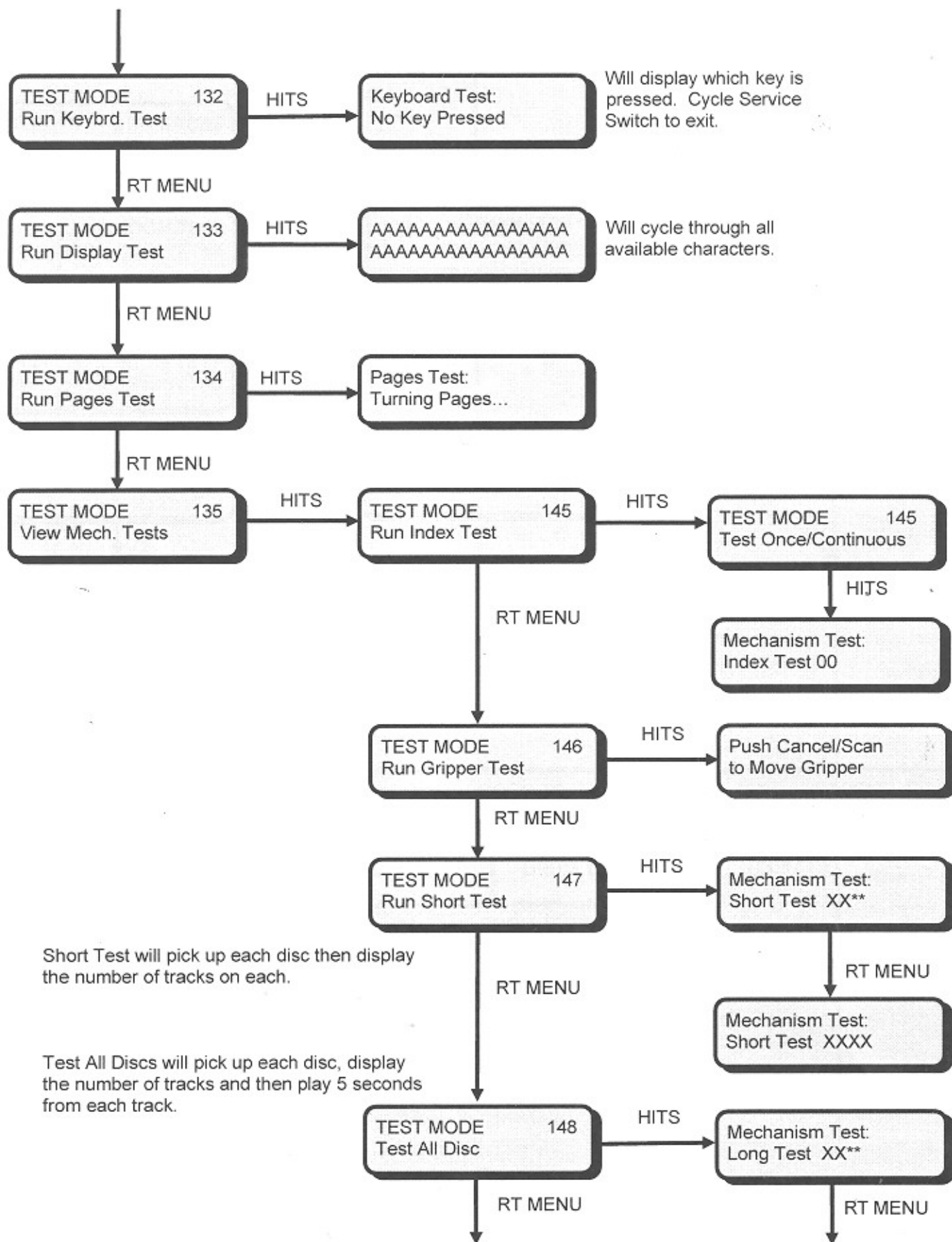


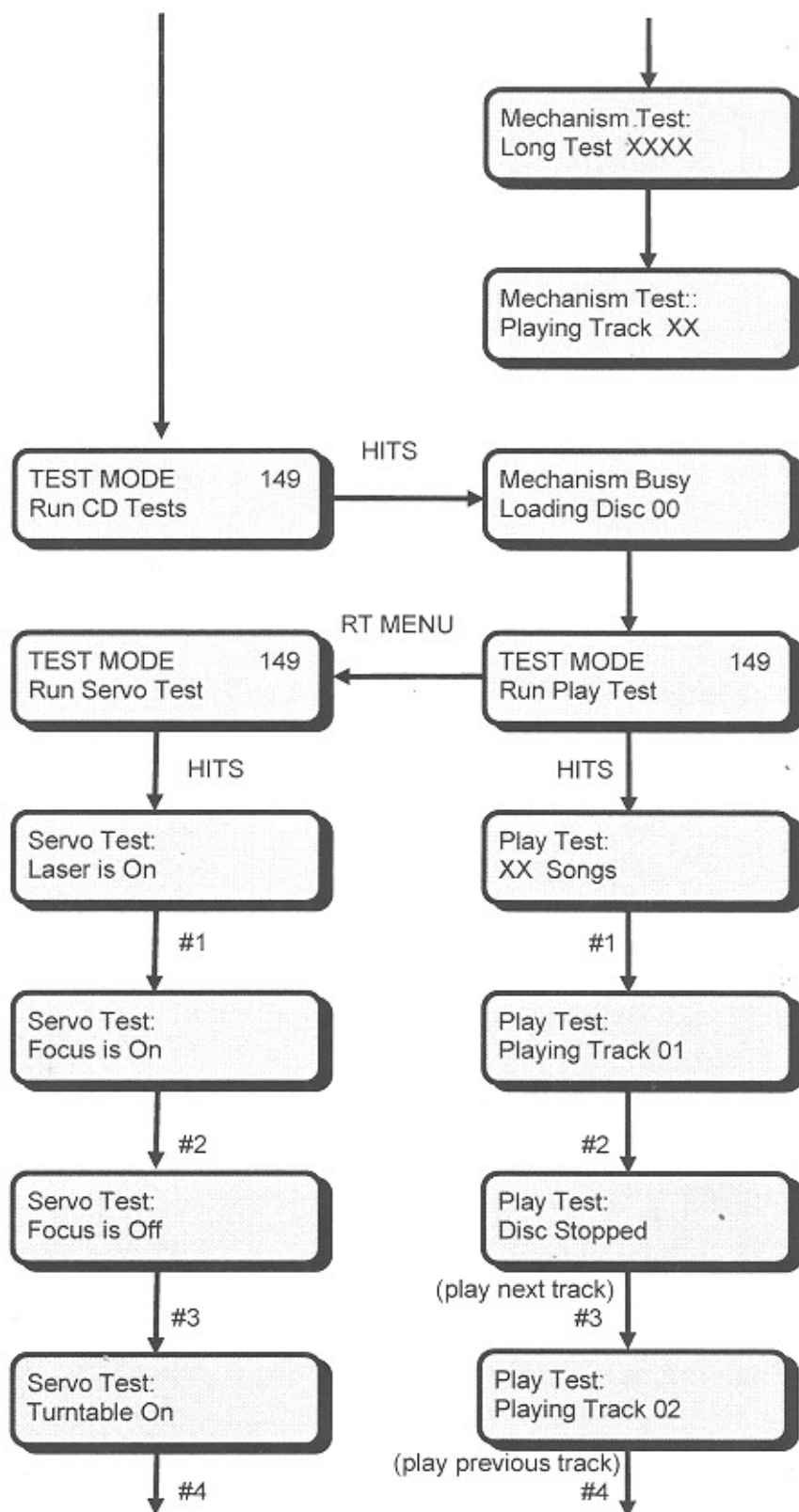
TEST MODE

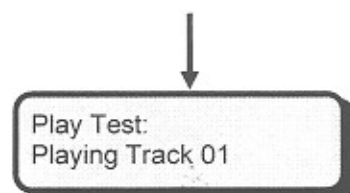
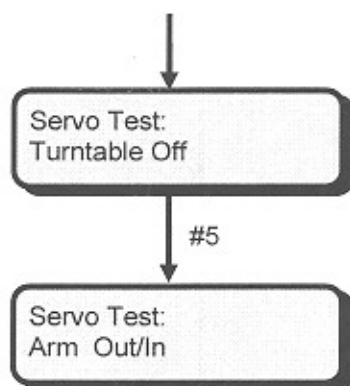
See Troubleshooting and Repair Section for
Test Mode Details and Code Charts.



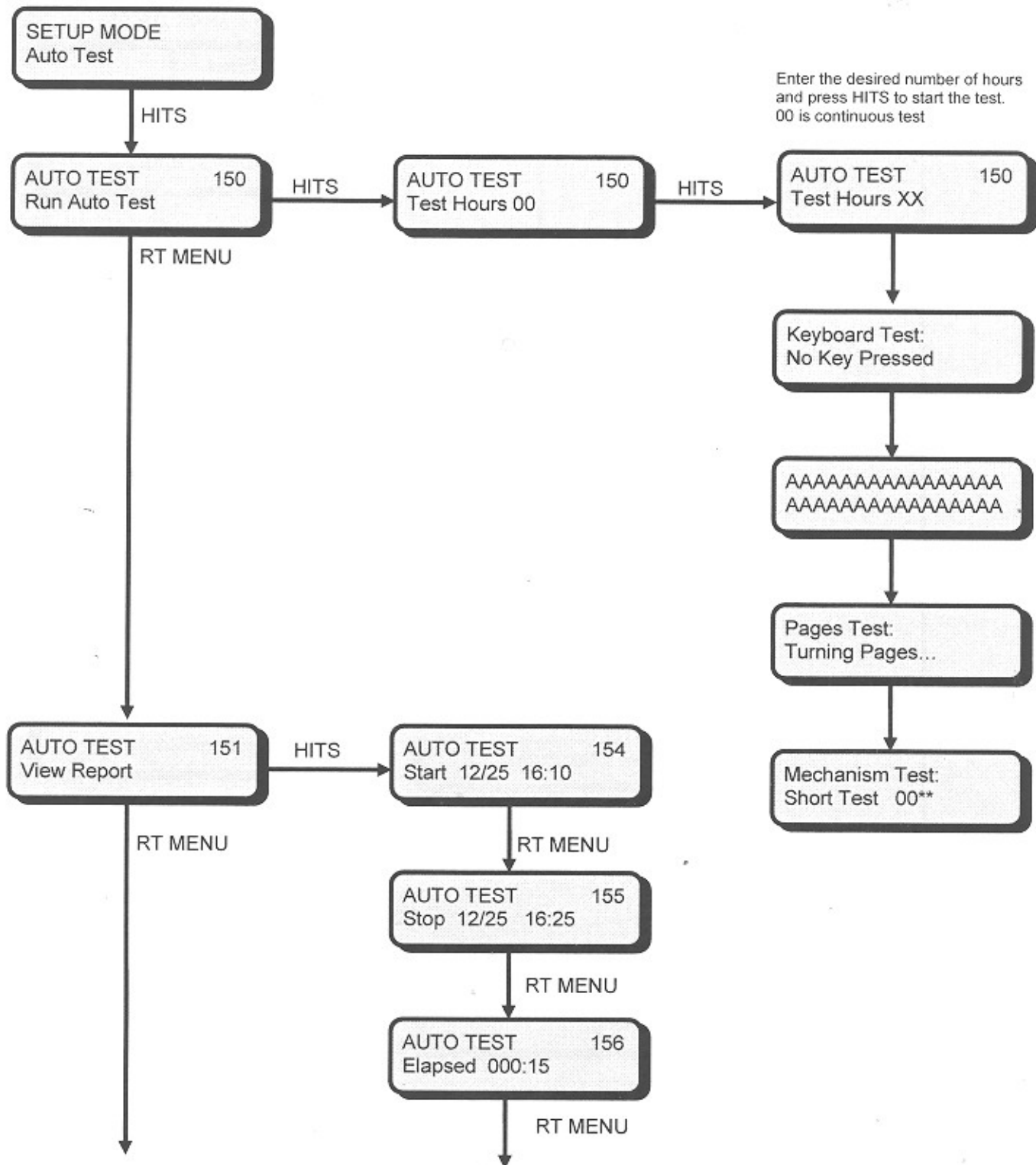


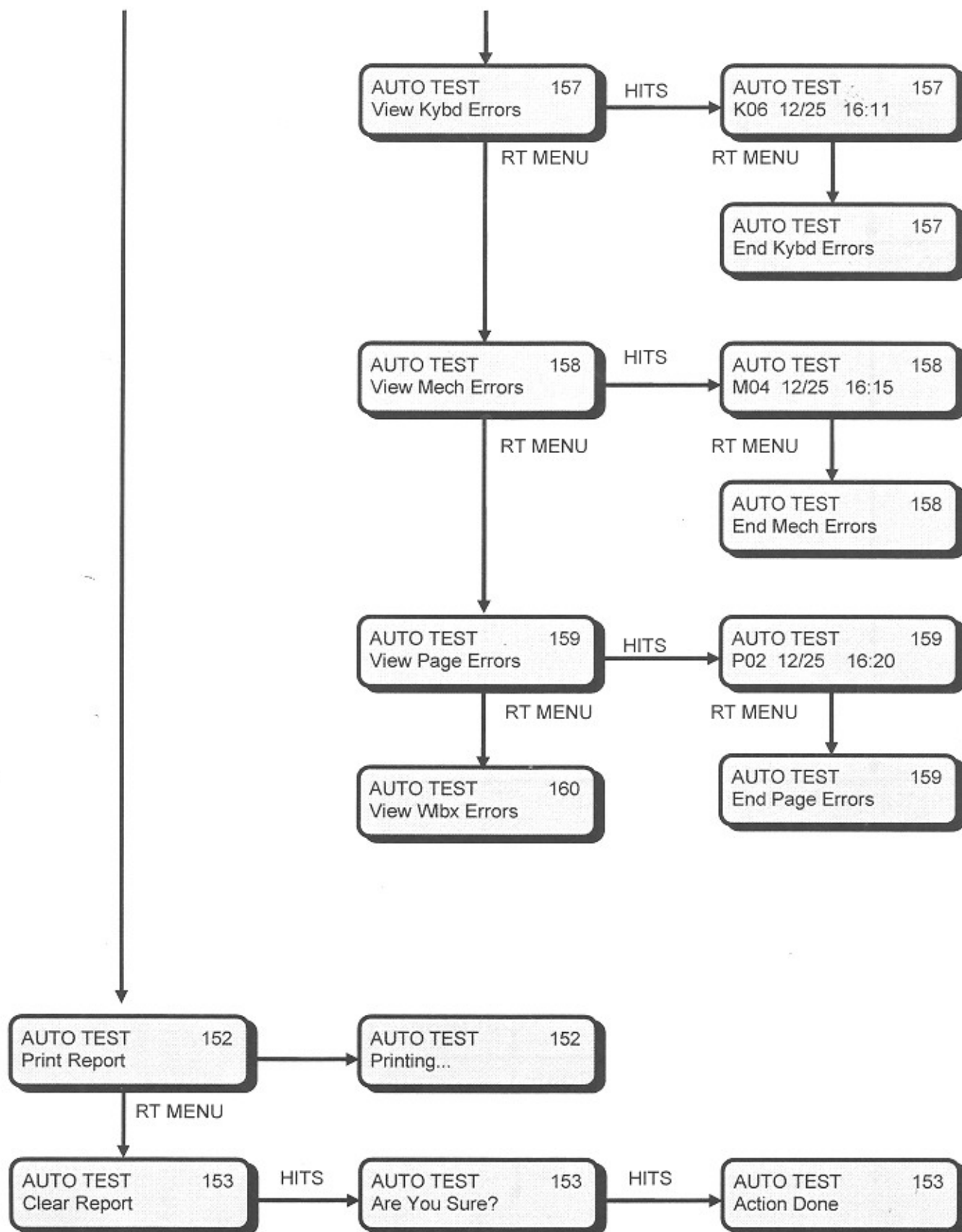




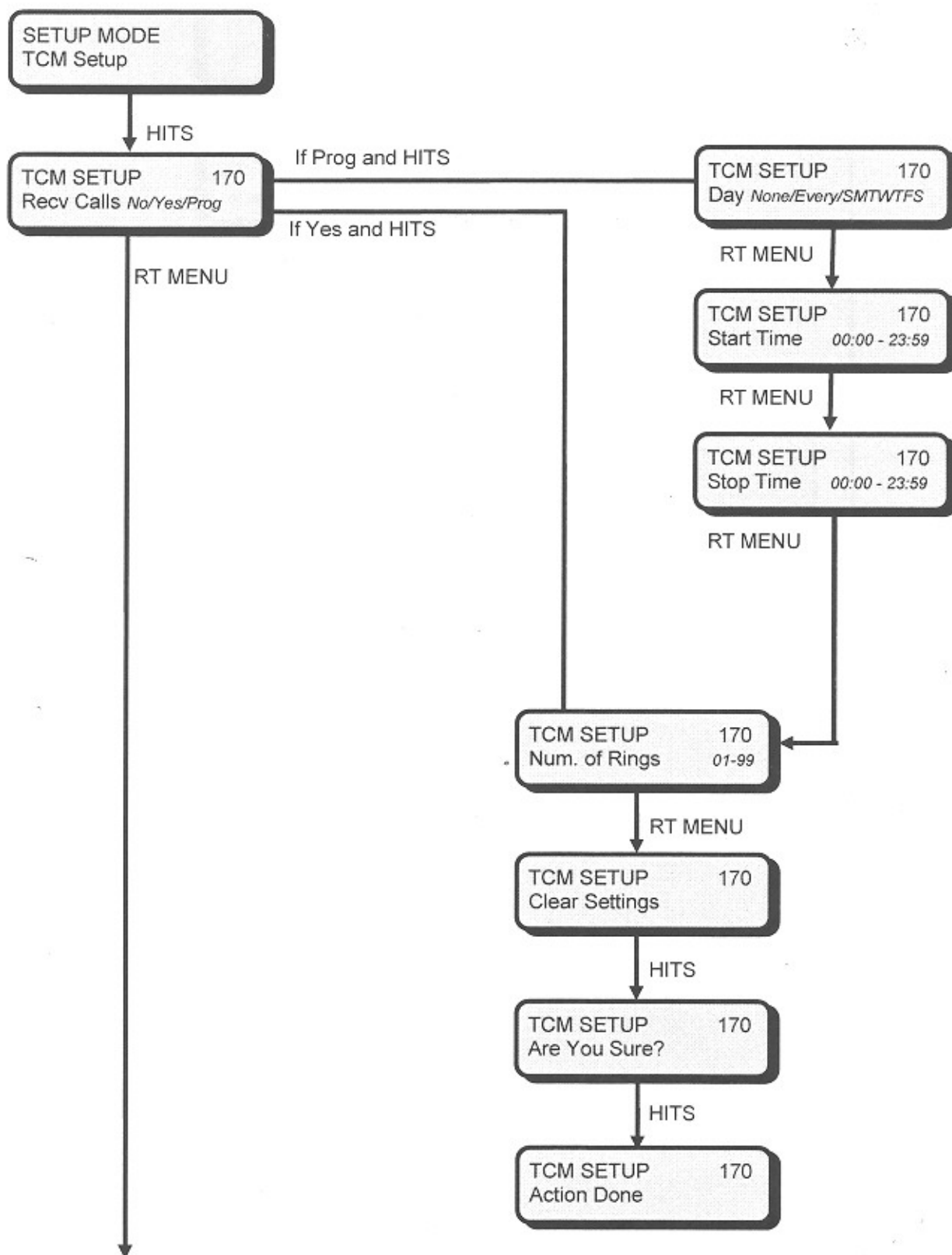


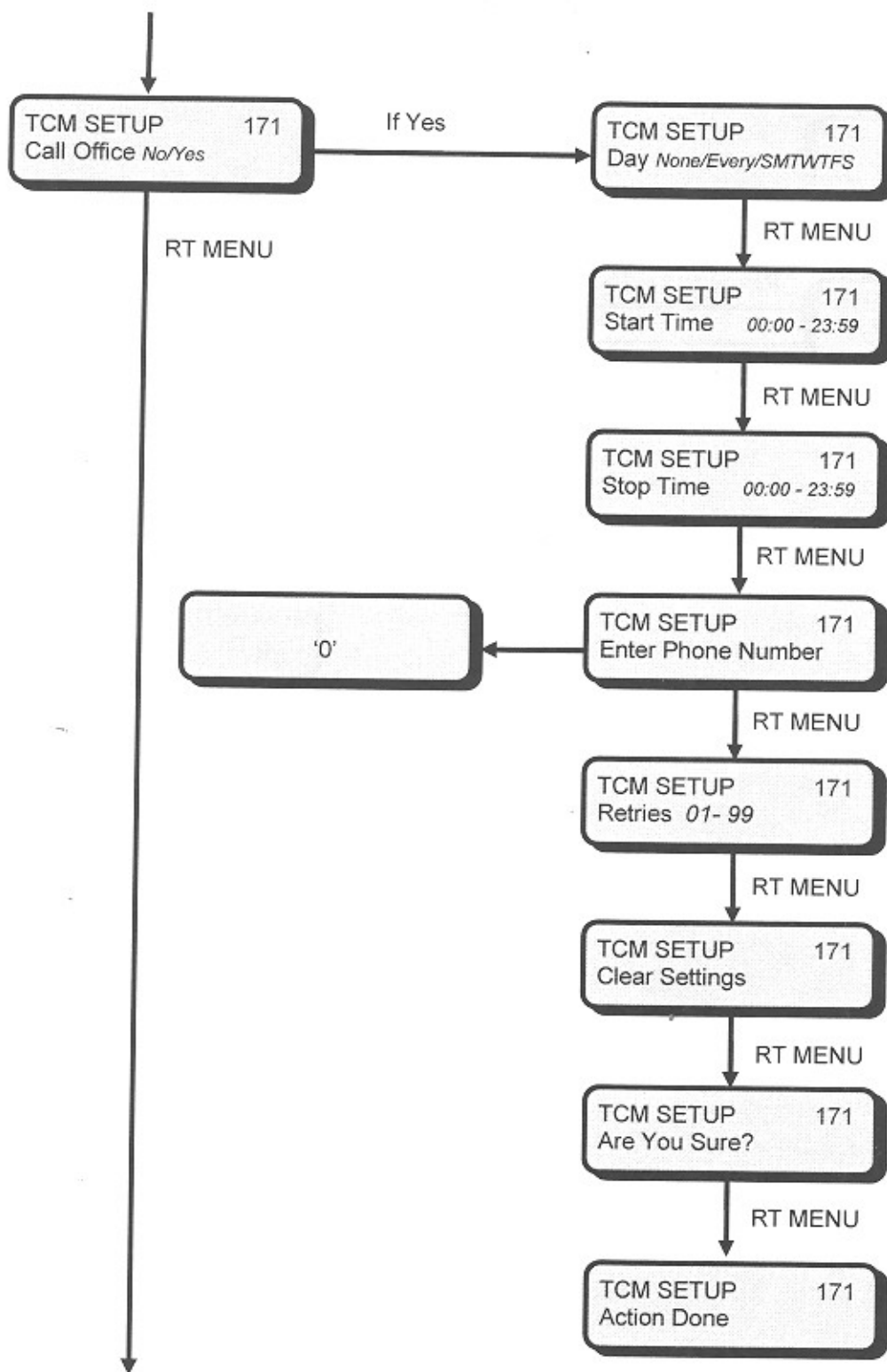
AUTO TEST

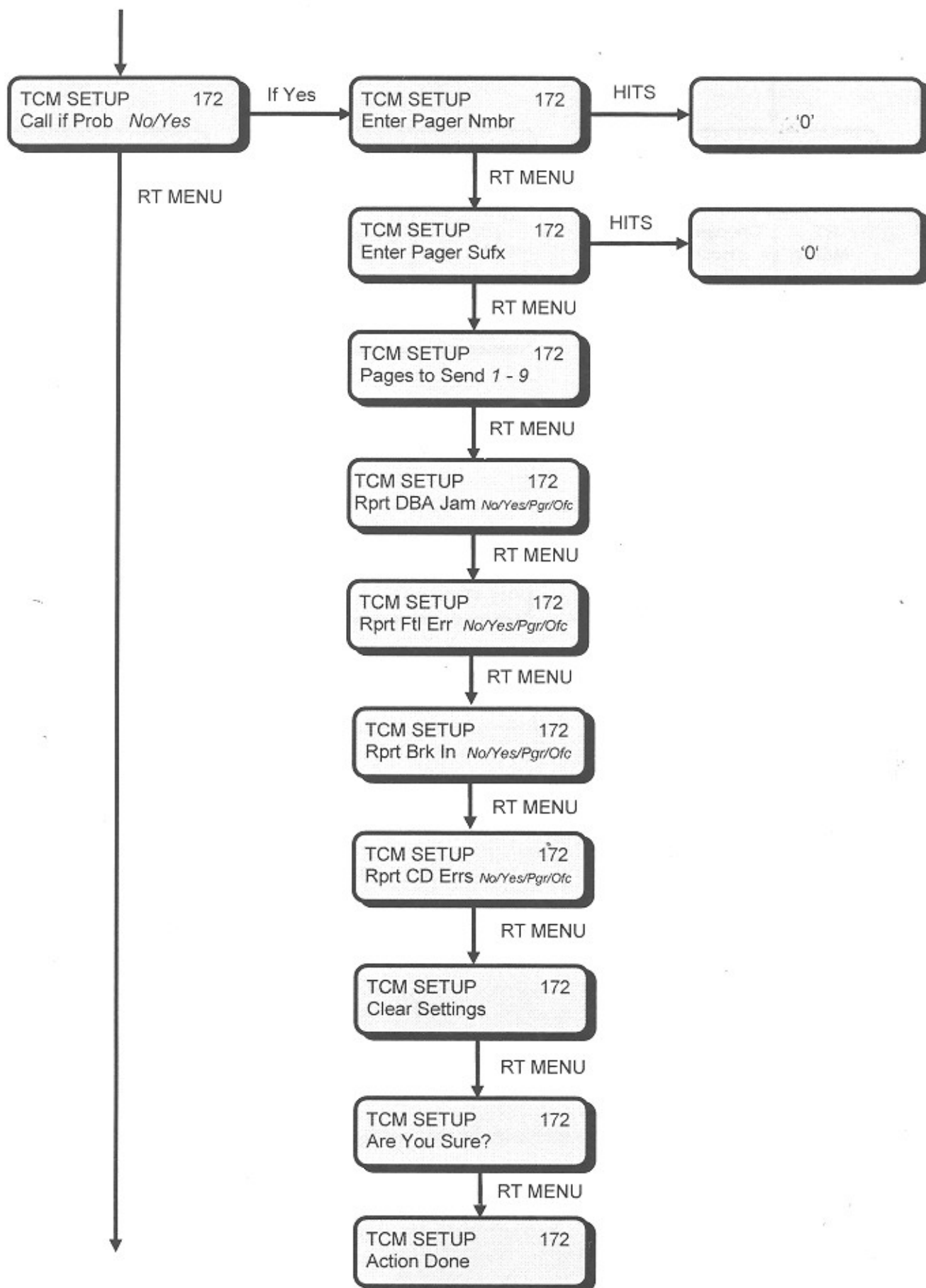




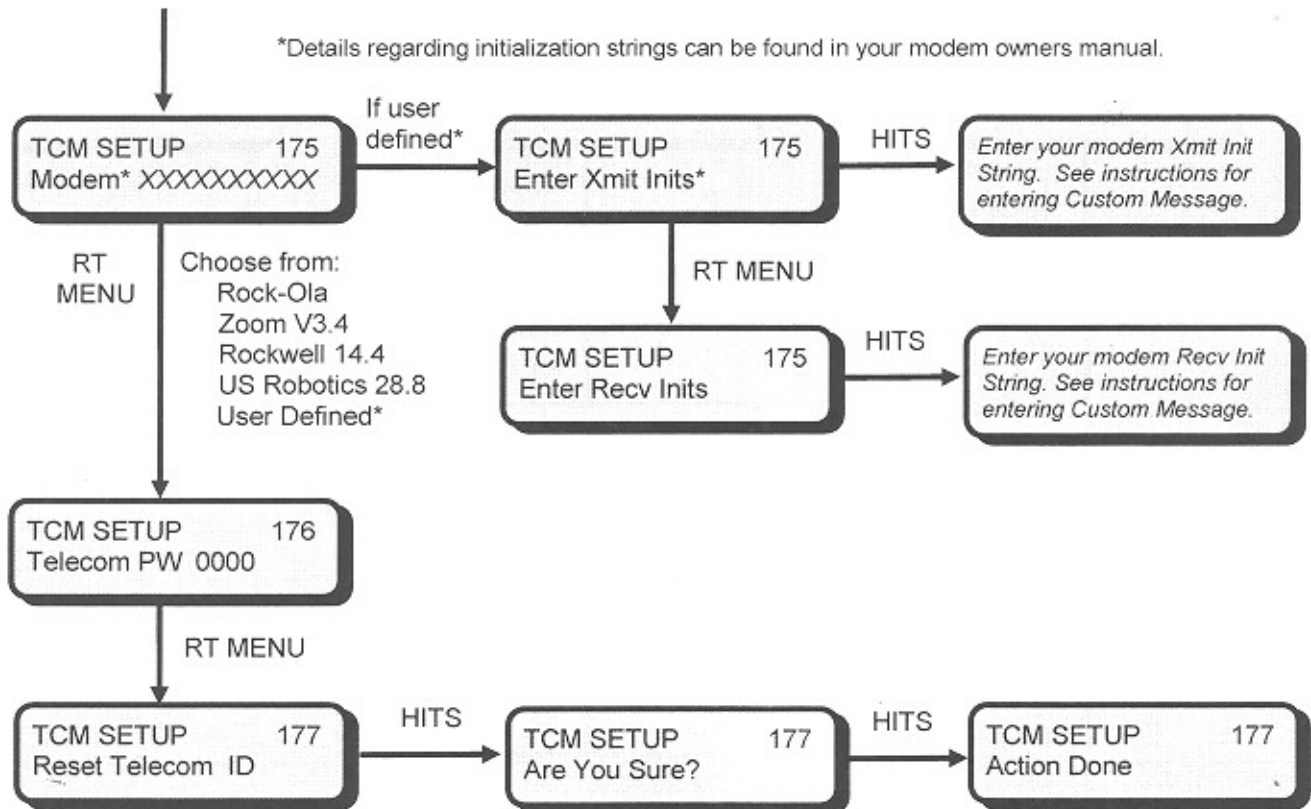
TCM SETUP





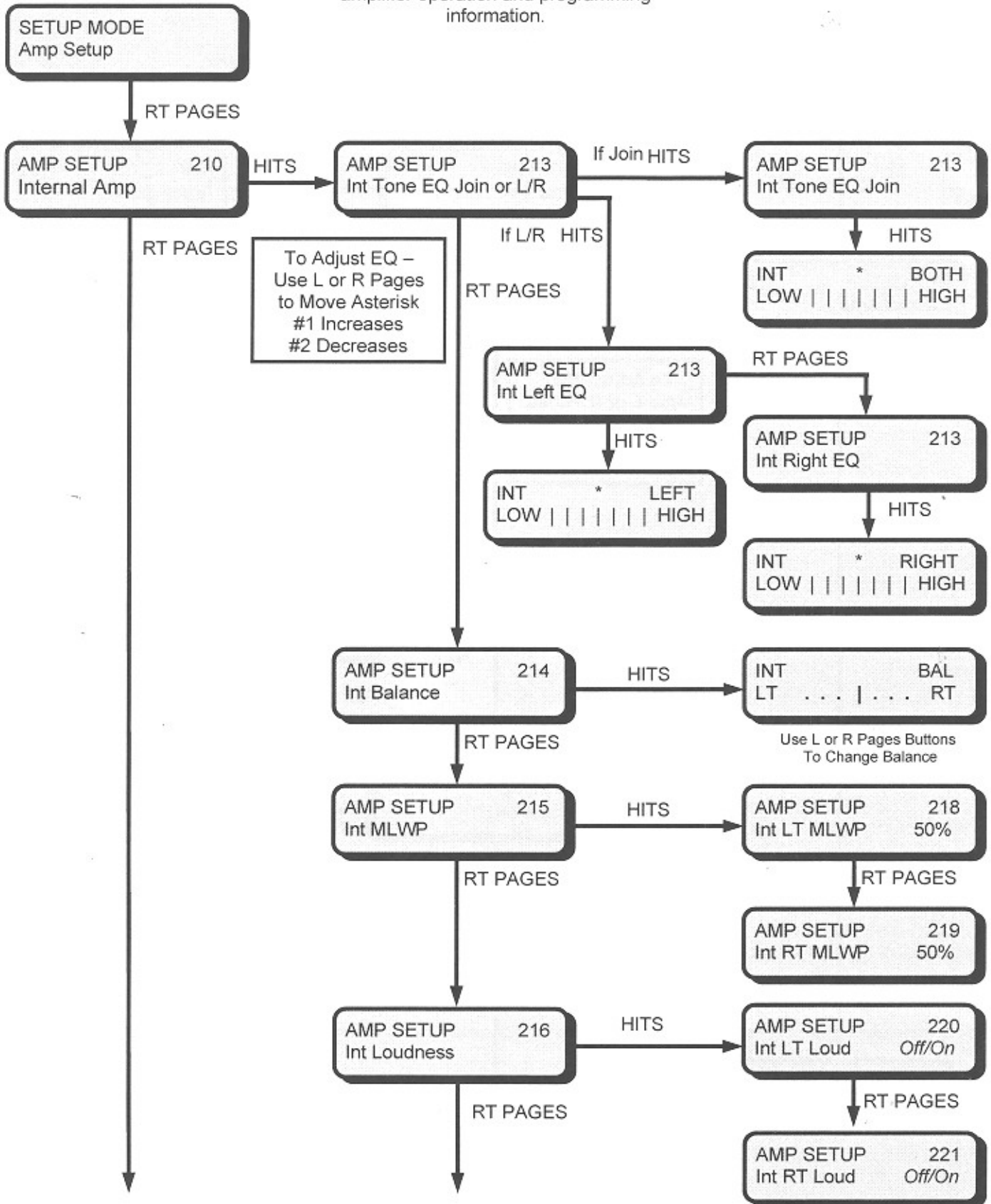


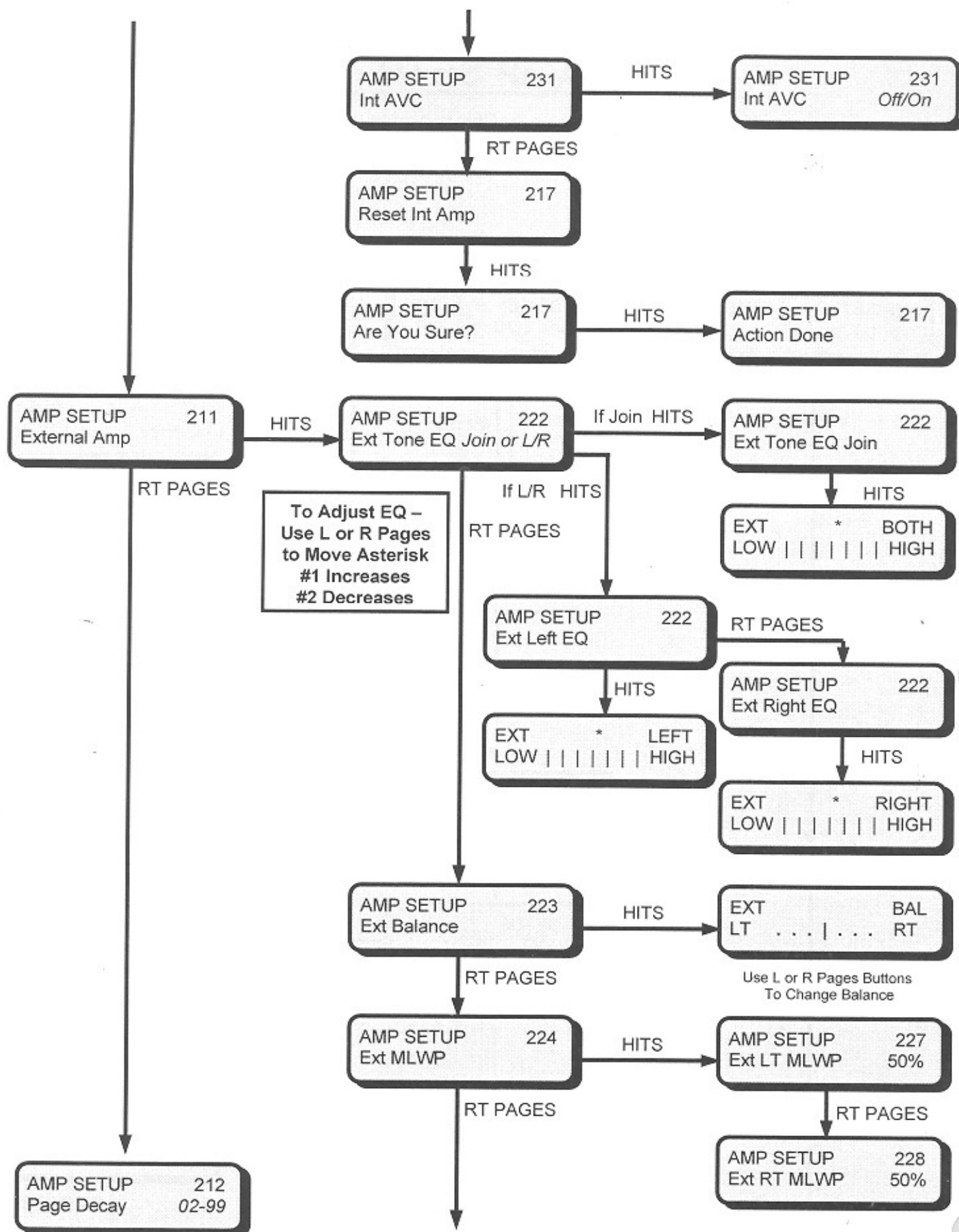
*Details regarding initialization strings can be found in your modem owners manual.

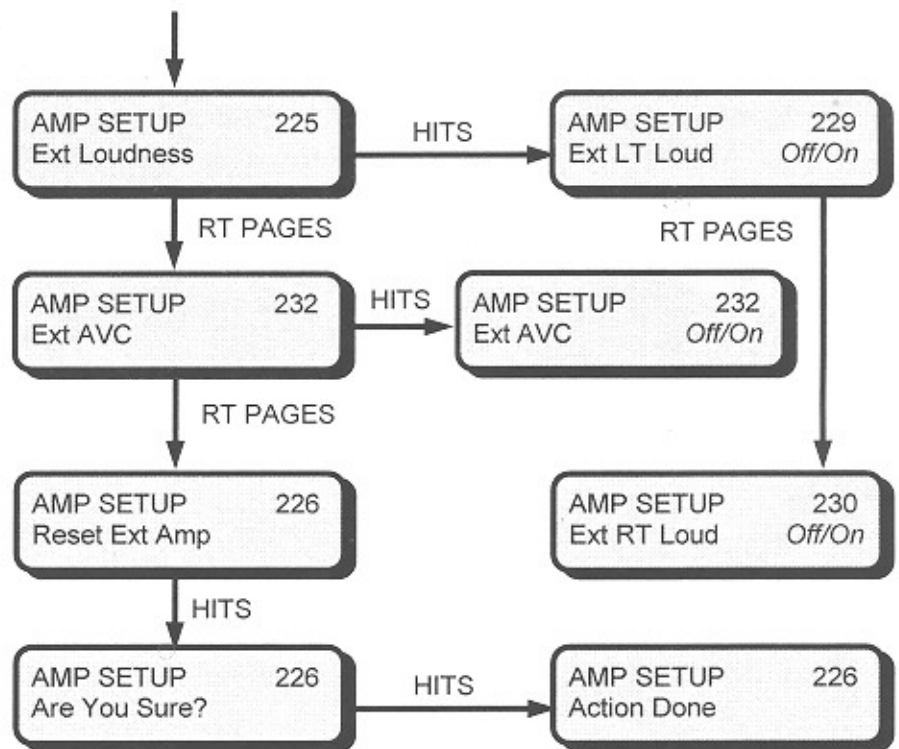


AMP SETUP

See Section D of this manual for detailed amplifier operation and programming information.









S E C T i O N

Maintenance

- General Maintenance Considerations
- Preventative Maintenance
- Mechanical Adjustments
- Coin Mechanism Cleaning
- Replacing Fluorescent Lamps

G

Maintenance

This section contains information about maintaining your Rock-Ola SyberSonic Jukebox. It covers general maintenance, preventative maintenance, mechanical adjustments, lubrication and cleaning.

We strongly recommend that you contact your Dealer/Distributors Service Department for guidance before attempting any maintenance/repair task that you are not thoroughly familiar with.

General Maintenance Considerations

Tools and Equipment

In order to properly maintain and repair the SyberSonic Jukebox, it is necessary to possess the correct tools and equipment. Following is a list of the basic tools and equipment recommended by Rock-Ola. This list contains only the items necessary to perform basic maintenance, troubleshooting and repair tasks. Other, more specialized, tools and equipment are necessary to perform more complex tasks.

- Nut Driver Set (3/16" through 1/2")
- 1/4" Slotted Screwdriver
- #2 Phillips Screwdriver
- Long Nose Pliers
- Small Diagonal Cutters
- 1/4" Open End Wrench
- 3/8" Open End Wrench
- 1/2" Open End Wrench
- 6" Adjustable Wrench
- Volt/Ohm Meter with at least 20,000 Ohms per Volt impedance

Cleaning Supplies and Lubricants

One of the most important factors in properly maintaining any equipment is keeping it clean and lubricated. The Rock-Ola SyberSonic Jukebox is no different. We recommend the following supplies be carried and used at any time the jukebox is serviced.

- Ammoniated Glass Cleaner
- Spray Furniture Wax
- Mild Detergent Solution
- Isopropanol Alcohol (25%)

- Lint Free Cotton Swabs
- Lint Free Wiping Cloth
- 1½" Paint Brush (For Dusting)
- Light Machine Oil
- White Grease

Spare Parts

Although the Rock-Ola SyberSonic Jukebox has proven to be one of the most reliable machines on the market, occasionally malfunctions do occur. Most of the time, the problem can be easily corrected with a simple adjustment or cleaning. However, the malfunction may be caused by a component which has failed. In order to prevent a loss of income due to a component failure, we recommend the following items be carried as spares. This list is recommended for 5 or more machines.

- 02451 Serviceman's Kit
Includes CPU, Amplifier Boards and Fuses
- 55941-A DC Gear Motor Assy.
- 58687-A Mech Opto Cable Assy.
- 59241-2A CD Player Assembly
- 57335 Coin Acceptor, U.S.
Quarter (Other countries, your local coin acceptor)

Preventative Maintenance

In order to keep your Rock-Ola SyberSonic Jukebox running like new for many years, an occasional preventative maintenance routine is recommended.

The frequency at which the routine needs to be performed will vary based upon your local conditions, but we recommend an interval of approximately three months. A few minutes spent on preventative maintenance will not only save many hours of "down time", it will help increase customer confidence.

This routine is basically a simple "clean up" and checking the mechanism index adjustment.

The Preventative Maintenance Routine is as follows:

- Check for errors. If any exist, investigate and correct the cause. See "Viewing Error Codes" in Section H for detailed instructions.

- Clean all dust and dirt from inside of cabinet and from mechanism.
- Clean All CDs. Several influences from the outside can make a disc dirty.
 - Easy to remove are: smoke, dust & finger prints. These can be cleaned with a soft, lint free cloth soaked in a solution of water and detergent. **Wipe from the inside toward the outside and not in a circular motion !!** Rinse well and dry up with a dry soft, lint free cloth.
 - Minor scratches can be removed with a soft, lint free cloth and a soft polish.

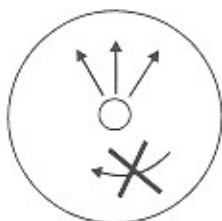


Figure 1G - Compact Disc

- Clean the laser eye.

WARNING

Actuator is very fragile. Lens is made of special material with a coating, do not scratch or damage. Clean carefully.

ADVERTENCIA

El *Actuator* es muy frágil. Su lente está hecho de un material especial cubierto por un film, no rayar ni dañar. Limpiar cuidadosamente.

AVERTISSEMENT

L'actionneur est très fragile. La lentille est fabriquée avec une matière spéciale enduite d'un revêtement. Faites attention de ne pas le rayer ou l'endommager. Nettoyez avec soin.



The CD player is extremely sensitive to static discharges. Always ground yourself before touching the player and never touch the eye. The CD player itself has no adjustments. The only maintenance required is occasional lens cleaning.

Los Toca-discos CD son extremamente sensitivos a descargas de electricidad estática. Siempre haga "tierra" antes de tocar el Toca-discos CD, y nunca toque el ojo (lente). El Toca-discos en sí,

no tiene ajustes. El único mantenimiento requerido es el limpiar el ojo ocasionalmente.

Le lecteur de disque compact est extrêmement sensible aux décharges statiques. Veuillez toujours vous mettre à la masse avant d'y toucher et ne touchez jamais à l'oeil. Le lecteur de disque compact ne présente aucun réglage. Le seul entretien nécessaire est un nettoyage régulier de la lentille.

- Moisten a clean Q-tip with a solution of 25% Isopropanol (IPA). Place the tip on the lens and press down carefully. Wipe carefully in the direction (perpendicular to the sledge direction) so that the actuator doesn't move. Dry up with a clean, dry Q-tip.

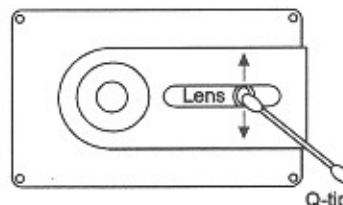


Figure 2G - CD Player

- Clean the Bill Validator (if installed) following the validator manufacturer's recommendations.
- Clean the coin acceptor using a mild detergent solution. Be sure to thoroughly dry before re-installing.
- Clean all glass inside and out. Clean and polish outside of cabinet.

Mechanical Adjustments

The mechanism adjustments are inter-related. If the magazine motor, opto sensor, or control board is replaced, the adjustments should be checked. Read the instructions carefully before attempting the adjustments.



The CD player is extremely sensitive to static discharges. Always ground yourself before touching the player and never touch the eye.

El Toca-discos CD es extremamente sensitivo a descargas de electricidad estática. Siempre toque "tierra" antes de tocar el Toca-discos, y nunca toque el ojo (lente).

Le lecteur de disque compact est extrêmement sensible aux décharges statiques. Veuillez toujours vous mettre à la masse avant d'y toucher et ne touchez jamais à l'œil.

The CD player is not user serviceable. The only maintenance required is occasional lens cleaning.

Cleaning instructions can be found in the "Preventative Maintenance" section.

Magazine Adjustments

Any adjustment made will change the settings of those following. Always check the indexing if any magazine adjustment is made.

Magazine Band Adjustment



WARNING

Adjust band with the magazine empty.

ADVERTENCIA

Ajustar banda con el magazine vacío.

AVERTISSEMENT

Ne réglez la bande que lorsque le magasin est vide.

Loosen adjustment screws to obtain approx. 1/32" gap between the magazine wire and the band. Re-tighten the screws. (Fig. 3G).

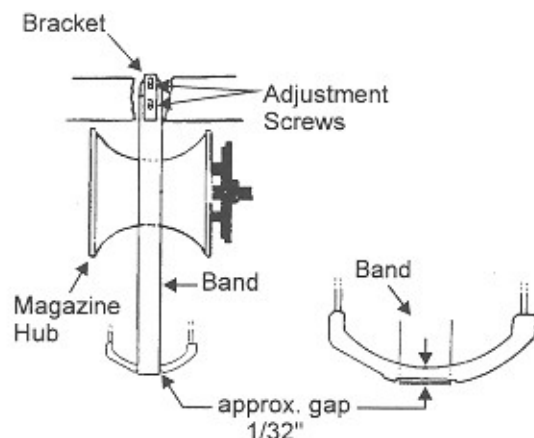


Figure 3G - Magazine Band Adjustment

Gripper Rest Adjustment

Rotate the magazine until the inner gripper "V" is centered between two magazine separator wires. Adjust the gripper rest bracket so the

gripper arm tip is centered between the wires and falls freely into the rest slot. (Fig. 4G).

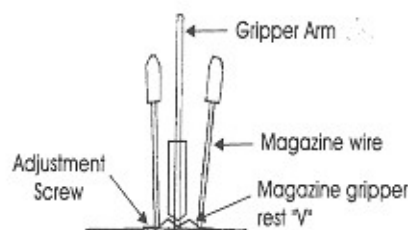


Figure 4G - Gripper Rest Adjustment

Magazine Motor Gear Mesh Adjustment

Magazine rotational play must be less than 1/16". If the play exceeds 1/16", loosen the magazine motor and slide it toward the magazine gear.

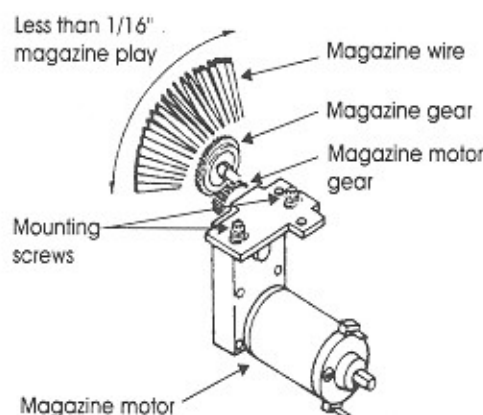


Figure 5G - Magazine Motor Gear

Magazine Indexing Adjustment



WARNING

Insert damaged discs in slots 00, 01, 49, 50, 98, 99 or leave empty.

ADVERTENCIA

Insertar discos dañados en compartimentos 00, 01, 49, 50, 98, 99 o dejar vacíos.

AVERTISSEMENT

Insérez les disques endommagés dans les fentes 00, 01, 49, 50, 98, 99 ou laissez vide.

Run Index Test (Quick Find #145): If the CD is not being gripped exactly between the magazine wires, the indexing needs to be adjusted. Loosen screw "A" and turn screw "B" clockwise

if the magazine stops too soon or counter-clockwise if it stops too late. Re-tighten screw "A" and test all 6 positions after adjusting.

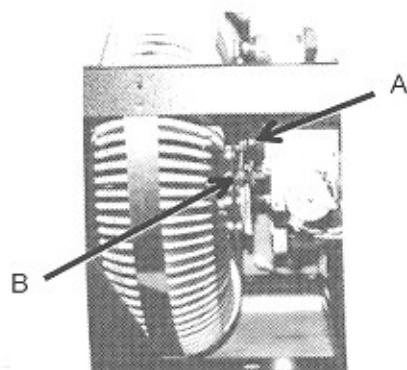


Figure 6G - Magazine Indexing Adjustment

Lubricating of Gripper Unit

1. Push on inner gripper #1 to expose pin #2.
2. Remove pin #2.
3. Remove inner gripper #1, spring #3, and reversing assembly #4.
4. Remove cam #5.
5. Scribe gear #6 and gear #7 so they can be replaced the same way.
6. Remove gear #6.
7. Wash all parts and the gripper housing in a solvent suitable for removing all old lubricant.
8. Re-lubricate all moving parts at their mating points with a light coat of white grease, Rock-Ola part number ST-09126 or equiv.
9. Re-install parts in reverse order.

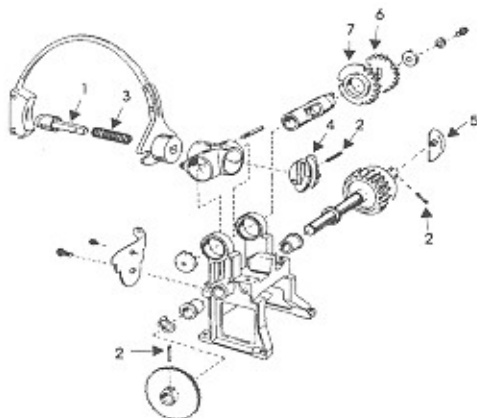


Figure 7G - Gripper Assembly

CD Player Adjustments



The CD player is extremely sensitive to static discharges. Always ground yourself before touching the player and never touch the eye. The CD player itself has no adjustments. The only maintenance required is occasional lens cleaning. There are no electronic adjustments on the CD player.

El Toca-discos CD es extremamente sensitivo a descargas de electricidad estática. Siempre toque "tierra" antes de tocar el Toca-discos y nunca toque el ojo (lente). El Toca-discos CD no tiene ajustes en sí. El único mantenimiento requerido es el limpiar el ojo ocasionalmente. El Toca-discos CD no tiene ajustes electrónicos.

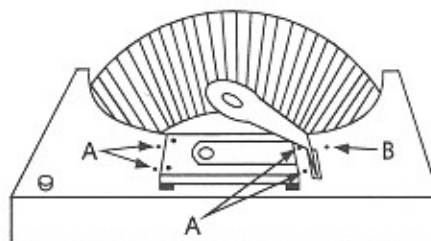
Le lecteur de disque compact est extrêmement sensible aux décharges statiques. Veuillez toujours vous mettre à la masse avant d'y toucher et ne touchez jamais à l'oeil. Le lecteur de disque compact ne présente aucun réglage. Le seul entretien nécessaire est un nettoyage régulier de la lentille. Le lecteur CD ne présente aucun réglage électronique.

CD Player Centering Adjustment

Select a disc. Turn the power switch off just before the CD is set on the turntable. If the hole in the disc is not centered over the turntable hub, loosen the 4 mounting screws (A) and reposition the player. Tighten the screws and test again.

Clamper Plate Height Adjustment

Select a disc. Turn the power switch off when the transfer cycle is finished. The magnet (shaded) should be centered within the clamper plate as shown in the diagram. Turn screw (B) as required to make the adjustment.



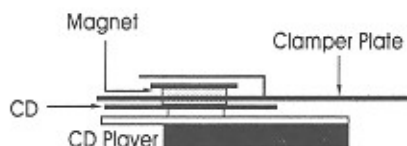


Figure 8G - CD Player and Clamper Plate

Title Display Adjustment

Rock-Ola's Legend and Rocket models utilize a title display assembly that has only one adjustment.

The opto assembly mounted at the top of the display assembly controls when the drive motor stops for each turn of the page.

Move the opto assembly (A) to the left or to the right until the pages seat against the previous one during a page turning cycle. Run the pages in both directions to ensure they seat properly.

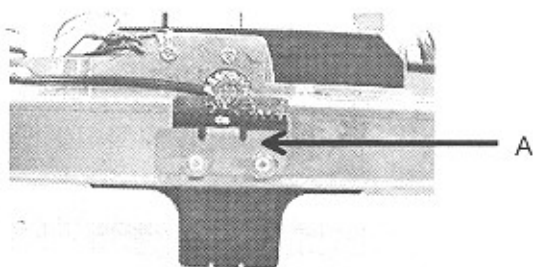


Figure 9G - Title Display

Coin Mechanism Cleaning

The coin mechanism cleaning procedure will depend on which type of coin mechanism is installed.

If an electric or electronic device is installed, follow the coin mechanism's manufacturers cleaning recommendations.

If a standard mechanical coin mechanism is installed, the following procedure can be followed.

- Remove coin acceptor from its mounting bracket.
- Using a soft brush, a mild detergent and water, thoroughly clean all surfaces of the

coin acceptor making sure to remove all dirt and deposits.

- Thoroughly rinse and dry coin acceptor.
- Install coin acceptor back into its mounting bracket and test.

Replacing Fluorescent Lamps

CAUTION



The jukebox utilizes an electronic ballast to power the lamps. Always disconnect the power to the lighting when replacing lamps. Failure to do so may result in a shock hazard and/or damage to the ballast.

PRECAUCIÓN:

La rocola utiliza un estabilizador electrónico para energizar las lámparas. Siempre desconecte la energía al sistema de iluminación cuando cambie las lámparas. Si no lo hace puede sufrir una descarga eléctrica y/o causar daños al estabilizador.

MISE EN GARDE :

Pour allumer les lumières, le juke-box fait appel à un ballast électronique. Veillez à toujours couper le courant électrique alimentant l'éclairage avant de remplacer une ampoule. Le non-respect de cette précaution pourrait présenter un risque d'électrocution ou de dommages au ballast.

- Turn the power to the jukebox off via the main switch on the power entry module (Corcom).
- Open the door and unplug the ballast from the power supply "Lighting" socket (J8).
- The lamps can be removed and replaced without tools. Squeeze the lamp in the center of the color cylinder tube and rotate 90°. Pull the lamp out of the socket ends. Slide the lamp out of the tube and replace. Insert the tube into the socket ends and rotate 90°. Be sure cylinder gears engage with the motor gear.
- Replace the ballast connector into J8 on the power supply.
- Turn the main switch back on.



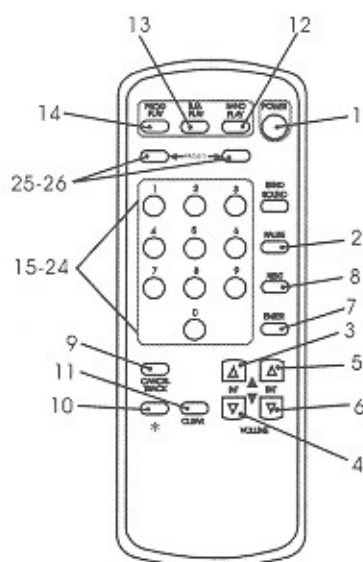
S E C T i O N

Common Accessories

This section contains information about optional accessories for all models. This information also includes installation instructions for kits along with programming instructions for the accessories which require programming.

J

Deluxe Remote Control P/N 58751-A



Remote Control Functions:

1. **Power On/Off*** - Turns the mech, lighting, CD player, and display ON and OFF. Puts the amplifier on standby. Set using Quick Find 70.
2. **Pause/Mute*** - Puts the CD player in pause mode and mutes the amplifier for programmed period of time. Set using Quick Find 120.
3. **Internal Volume Up** - Raises the output of the internal amplifier.
4. **Internal Volume Down** - Lowers the output of the internal amplifier.
5. **External Volume Up** - Raises the output of the external amplifier.
6. **External Volume Down** - Lowers the output of the external amplifier.
7. **Enter*** - Pressed after a four digit selection, the disc and track (if valid and enabled) will be added to the play queue. Quick Find 121 or 122 must be enabled.
8. **Next*** - Pressed after a four digit selection, the disc and track (if valid and enabled) will be played next. This is especially useful for "Happy Birthday" or similar selections. Quick Find 121 or 122 must be enabled.

9. **Cancel Track** - Stops the current selection. The next selection in the play queue is played.
10. *** - Programmable key.** Can be Cancel Disc which stops the current selection, and clears any remaining selections from this disc out of the play queue. Set using Quick Find 125. Can also be Remote Credits. Set using Quick Find 55.
11. **Clear*** - If enabled, completely erases the play queue. Set using Quick Find 126.
12. **Random Play*** - Activates the random play feature depending on how Quick Find 127 is configured. Set using Quick Find 127.
13. **Backgrnd Play*** - Enables/disables background auto play mode. Set using Quick Find 128.
14. **Program Play*** - Activates one of the 3 programmed play lists. Each play list plays up to 50 selections. Set using Quick Find 129.
- 15-24 **Digits 0-9** - Used for entering selections and programming.
- 25-26 **Page*** - When pressed, will cause the title pages to move one page. Set using Quick Find 29.

* These are programmable functions for the deluxe remote control. Only track cancel and volume are fixed functions.

For programming instructions, see Section E of the SyberSonic Service Manual.

QUICK FIND REFERENCE PROGRAMMING

120	Pause/Mute	125	Cancel Disc
121	Select Type	126	Clear Mem.
122	Rem Playlist	127	Random Sel.
123	Surround Snd	128	Background
124	Select Album	129	Play Lists

Microphone Kit P/N 02379-02 (Yoga)

Parts List:

QTY	P/N	Description
1	59360-A	Yoga Microphone w/ mtg brkt
1	59356-A	Cable Assembly, 75 feet
1	ST-11474	DIN Socket, 3 Pin
1	ST-11244	Header, 0.156 X 4
3	ST-11245	Pin, 0.156 Tin

Installation Instructions:

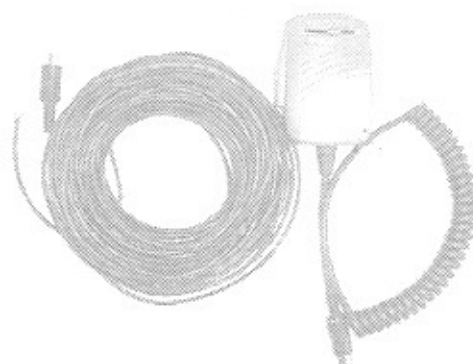
The microphone is connected to the jukebox amplifier with a 2 wire (22 AWG) shielded cable. This cable is supplied with kit.

- Install the microphone's mounting bracket on a firm surface. If possible, choose a location away from any speakers.
- Run the cable between the microphone location and phonograph. Be sure the DIN socket side of the cable is at the chosen location.
- At the microphone location, connect the microphone to DIN socket.
- At the phonograph end, run the cable into the phonograph through the cable access port in the rear. Route the cable to the amplifier being careful to not interfere with any moving parts. Plug the connector into the microphone input.

This completes the installation. Turn the phonograph on and set the jukebox amplifier per the jukebox service manual. Test the microphone by keying and speaking into it.

Important: Do not blow into the microphone. Test by tapping on the case or talking into the microphone.

Note: Microphone volume is independent of the jukebox volume and will work regardless of whether music is playing or not. If the jukebox is playing, the volume of the music will be reduced during paging. This level may be changed by adjusting the Music Level While Paging. See the jukebox service manual for setting instructions.



This kit includes the necessary connectors to utilize existing location wiring if desired. Connect cable and microphone following the below charts.

The cable wiring is as follows:

Wire Color	Function	DIN Socket	Header Socket
Red	Power	Pin 3	Pin 4
Black	Audio	Pin 1	Pin 2
Shield	Ground	Pin 2	Pin 1

The microphone wiring is as follows:

Wire Color	Function	DIN Plug
White	Power	Pin 3
Red	Audio	Pin 1
Shield	Ground	Pin 2

Hints To Avoid Feedback Howl

1. Hold the microphone close to mouth when using 1/2" to 1" is best.
2. Keep the microphone gain (volume) as low as possible consistent with coverage requirements.
3. Keep the microphone as far from the speakers as possible.

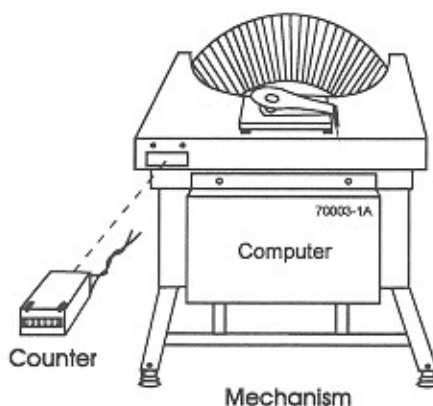
Counter Kit P/N 02410-01

Parts List:

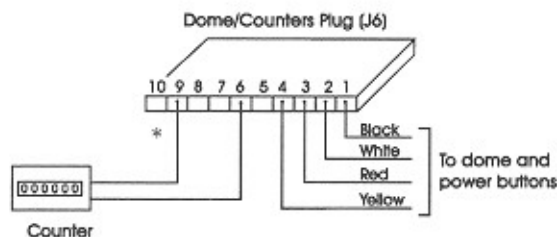
QTY	P/N	Description
1	58844	Counter with staked leads (twisted)
2	ST-02541	4-40 x 3/8 Hex Flg Machine Screw
1	ST-11308	3M Connector
1	59812	Bracket, coin counter
2	ST-04062	8 x 1/2 Phil Pan Hd Type "A" Screw
1	58899-01	Instruction Sheet

Instruction:

1. Mount the counter to the mechanism front with two (2) screws ST-02541 (4-40x3/8 Hex Flg).



2. Press wires from counter into the dome/ counters plug at pins 9 and 6 as shown:



* If J6 Pin 9 is occupied, use 3M connector ST-11308 to connect one wire from the counter to the blue/white wire at pin 7 of J1 on the computer.

Volume Accessory Unit Kit P/N 02414

The **Volume Accessory Unit (VAU)** was designed for locations that prefer rotary or slide remote volume controls or if it is not convenient to pull a new 6 wire cable.

With this kit any 3 wire potentiometer based remote volume/cancel control can be used with the new Syber Sonic electronics.

There can be one control to operate both internal and external amplifiers, or two controls (one for internal and one for external) wired to the unit.

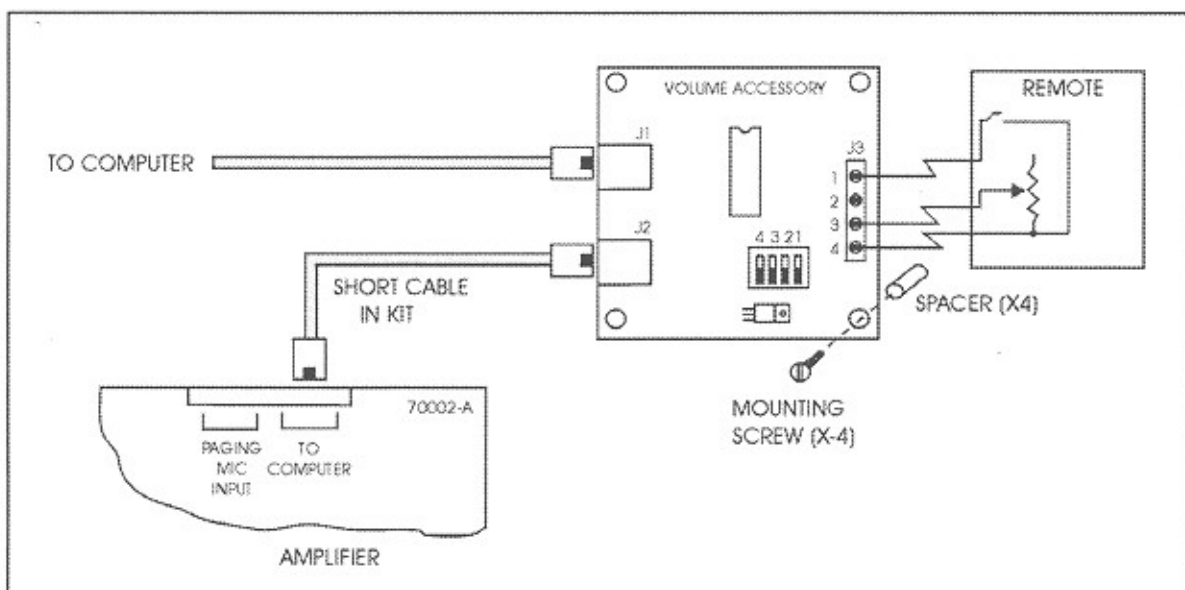
Kit Contents:

- | | |
|--------------|---------------------------|
| (1) 58809-A | VAU Printed Circuit Board |
| (1) 58876 | 12" Modular Cable |
| (4) ST-11155 | Nylon Standoffs |
| (4) ST-09716 | 6 x 1 Hex Hd Screws |
| (1) 58877 | Instruction sheet |

Installation:

1. Turn off power to the jukebox.
2. Remove the title page unit (Legend and Rocket).
3. Mount the circuit board to the back of the cabinet near the amplifier and cable access hole.
4. Unplug the communication cable going to the computer from the amplifier.
5. Plug this into one of the modular connectors on the VAU.
6. Run the 12" cable furnished with the kit from the other connector on the VAU to the amplifier.
7. Connect the remote volume control(s) as follows:

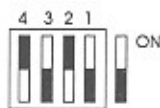
- Terminal 1 - Cancel button(s)
 Terminal 2 - Potentiometer for external amplifier control (see note).
 Terminal 3 - Potentiometer for internal amplifier control (see note).
 Terminal 4 - Common ground



Set up:

Set the dip switches as follows:

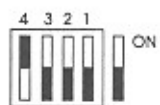
- One potentiometer connected to terminal 3 for internal amplifier control only or internal/external bridged.



- One potentiometer connected to terminal 2 for external amplifier control only.



- Two potentiometers connected one to terminal 3 for internal control and one connected to terminal 2 for external control.



The IR and push button remote volume functions are disabled for the amplifier that is using a potentiometer. The display does not readout volume settings as they are easily seen by the position of the knob. The mute and cancel track buttons will continue to operate normally.

Note: If you are using only one potentiometer to control both internal and external amplifiers, leave the VAU out of the loop until you have balanced and bridged the volume controls. Refer to your jukebox manual on setting the volume levels for the speaker systems. Connect the potentiometer to terminal 3 only and set the switches for internal control. After bridging the amplifiers, reconnect the VAU, cycle the power to initialize it and then the single potentiometer will raise and lower the levels together.

Testing:

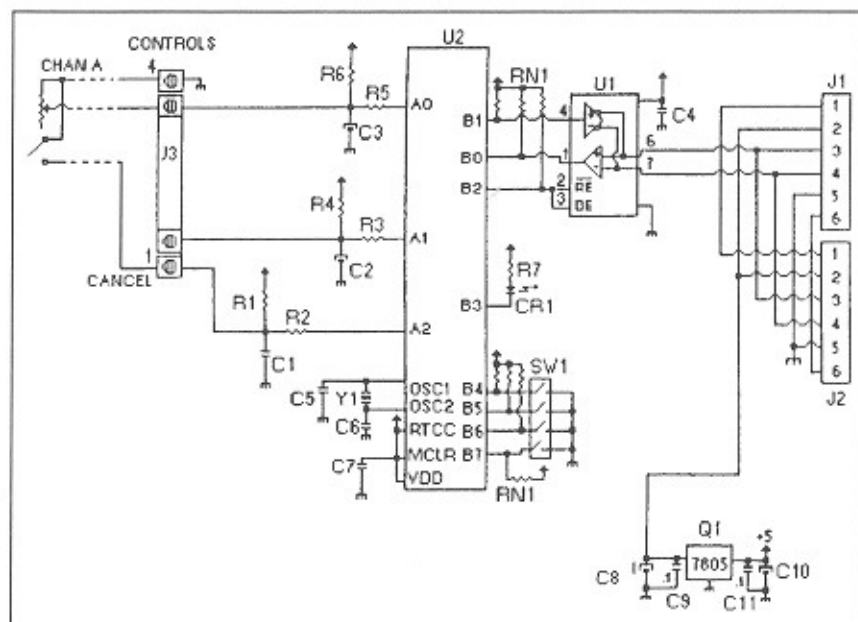
1. Apply power and look at the LED on the circuit board. It should be flashing. If it does not, see "Troubleshooting".
2. Make a selection and adjust the volume control(s).
3. If the controls work backward i.e., turning the control down raises the volume, turn power off, flip switch 3 and try again.

Using:

It is important to remember that although you are turning or sliding a control, the levels are still digitally controlled so there is a small delay in responding to a new volume setting. This is normal. The volume control will be limited by the minimums and maximums established in the set up menu of the jukebox. If the background music system is enabled, the potentiometer(s) will adjust the volume with whatever limits are established in the set up menu as well.

Troubleshooting:

On power up, the LED should come on and start flashing. A regular heartbeat of approx. 10 per second is normal. If the LED comes on and stays on, remove all power from the jukebox and then reapply. Look at the display to see what software version is installed on the jukebox. If the LED still does not flash and the software is version 2.9 or higher, check the modular cable and connections. If the LED is dark, check for 5 volt power on the board. If the volume stays all the way up or down, check connections to the potentiometer(s).

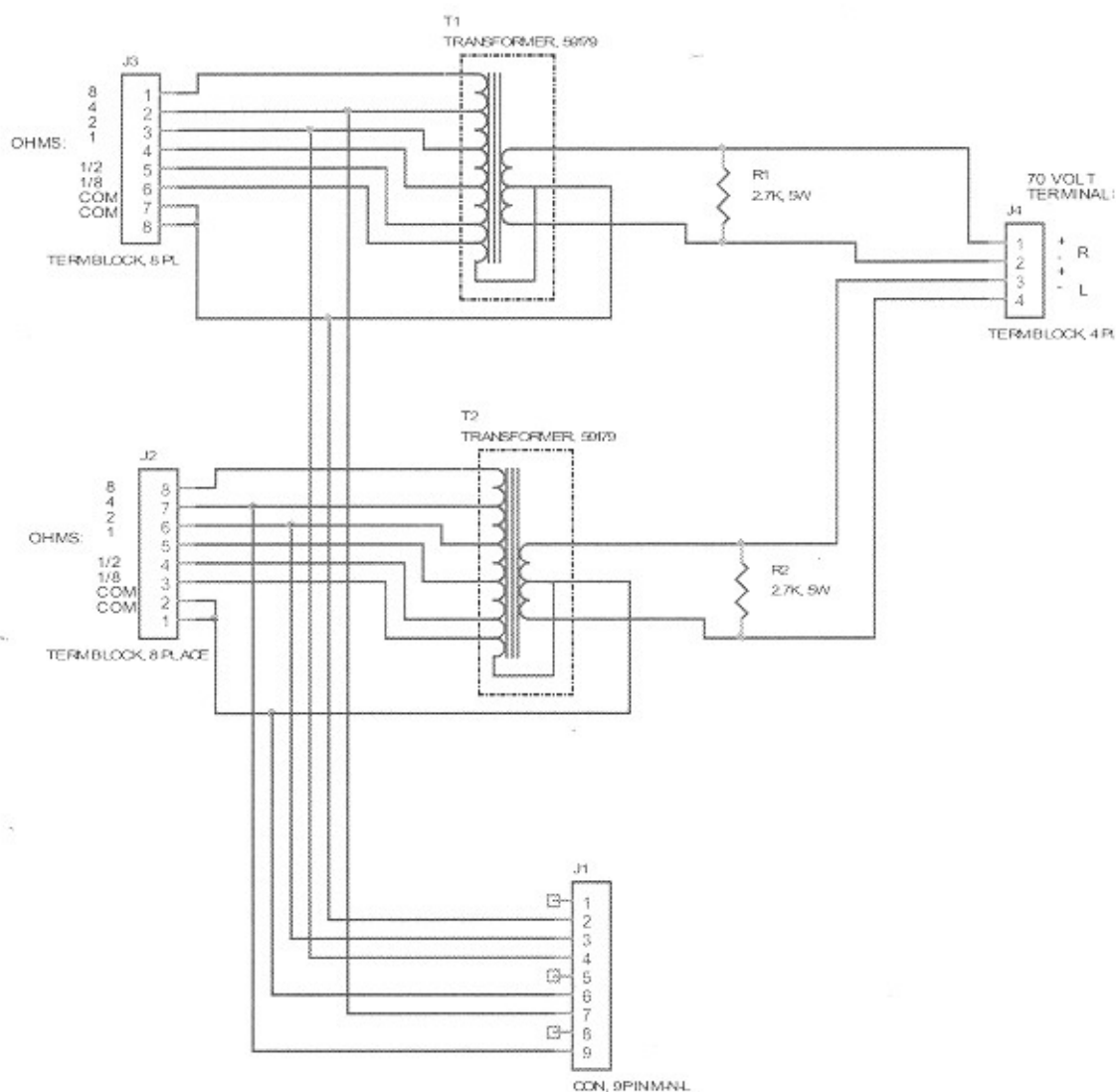


Parts List:

58809-A VAU PCB Assembly

Designator	Part No.	Description
-	58808	PCB, Raw
R1	51293	Resistor 10K, 1/4W
R2, R7	51564	Resistor 1K ohm, 1/4W
R3, R5	53888	Resistor 180 ohm, 1/4W
R4, R6	53869	Resistor 4.3K, 1/4W
C2, C3, C8	54412	Capacitor, Tantalum 1uF, 35V
C1, C4, C7, C9, C11	52675	Capacitor, Mono 0.1uF, 50V
C5, C6	58968	Capacitor, Disc 22PF
C10	48036	Capacitor, Tantalum 10uF, 16V
Q1	53702	Regulator 7805 TO-220
Y1	58879	Crystal, 4 Mhz
U1	58871	IC 75176
U2	52723	Dip Socket, 18 pin
U2	58878	Microcontroller, Programmed
SW1	G-05108	Dip Switch, 4 Place
J3	58886	Terminal Block, 4 Place
J1, J2	58880	Connector, Modular, 6 Place
CR1	51994	LED

Audio Distribution Assembly, P/N 70046-1A



Bill of Materials

Reference	Part	Rock-Ola Part No.
J1	Connector, 9 pin MNL	ST-10584
J2, J3	Terminal Block, 8 pos, .375	59176
J4	Terminal Block, 4 pos, .375	59177
R1, R2	Resistor, 2.7k, 5W, wire wound	59138
T1, T2	Output Transformer	59179
-	Base Plate with pem studs	59178-A
-	Flange Nut, 8-32	



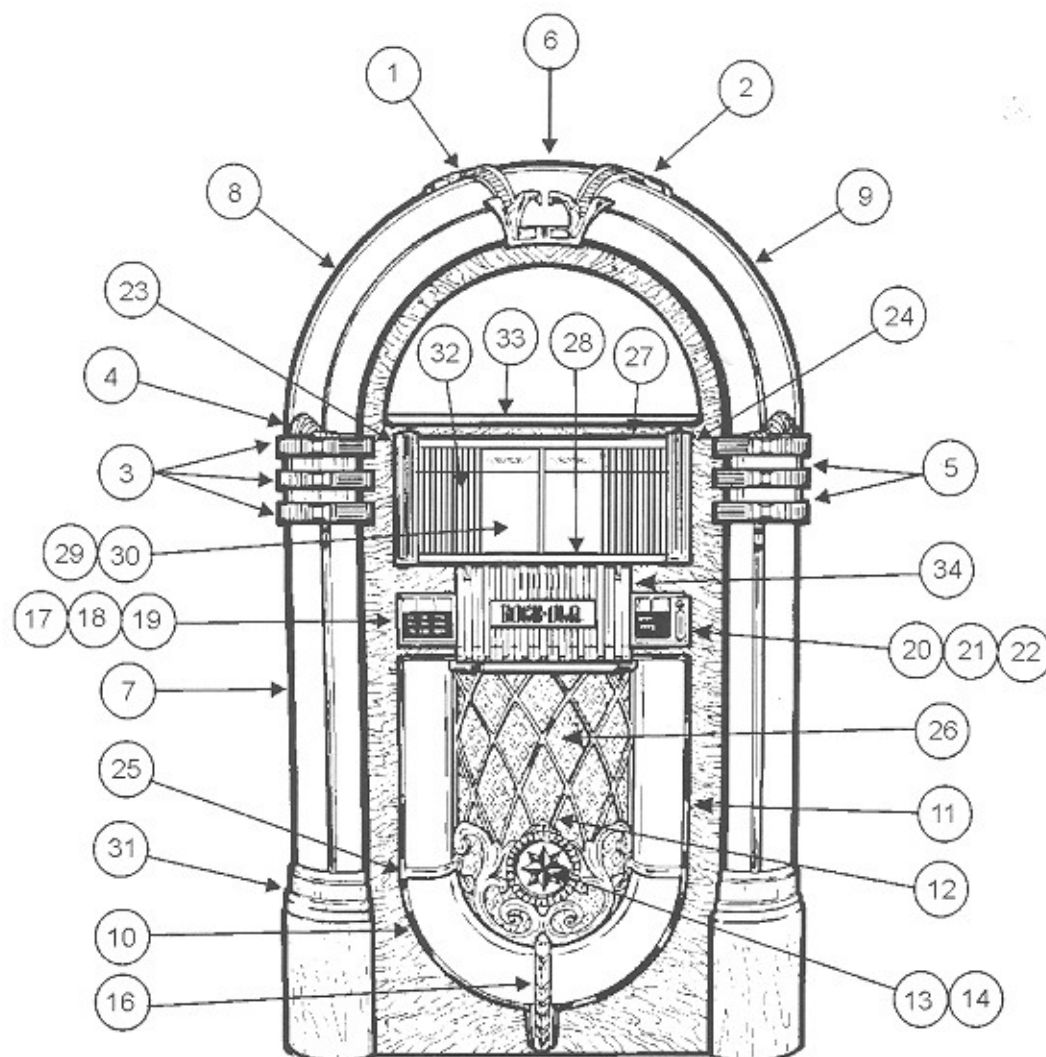
S E C T i O N

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Parts Catalog

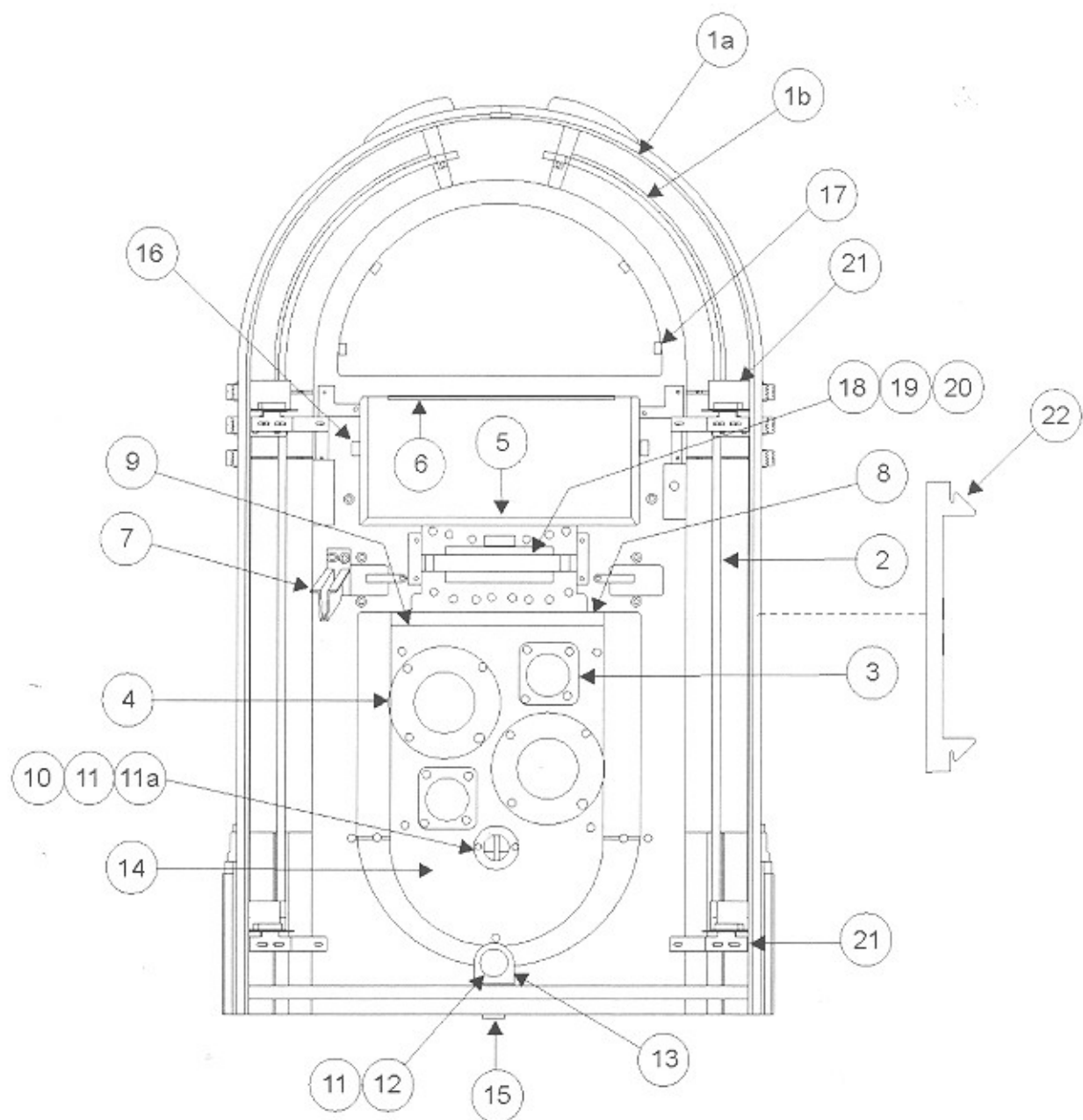
Door Assembly.....	2
Inside Door Assembly.....	3
Inside Cabinet.....	7
Outside Cabinet.....	9
Mechanism Assembly.....	11 - 12
Electronic Components.....	13 - 14
Cables.....	15 - 20
Kits and Accessories.....	21

Door Assembly (CD-8 Bubbler)



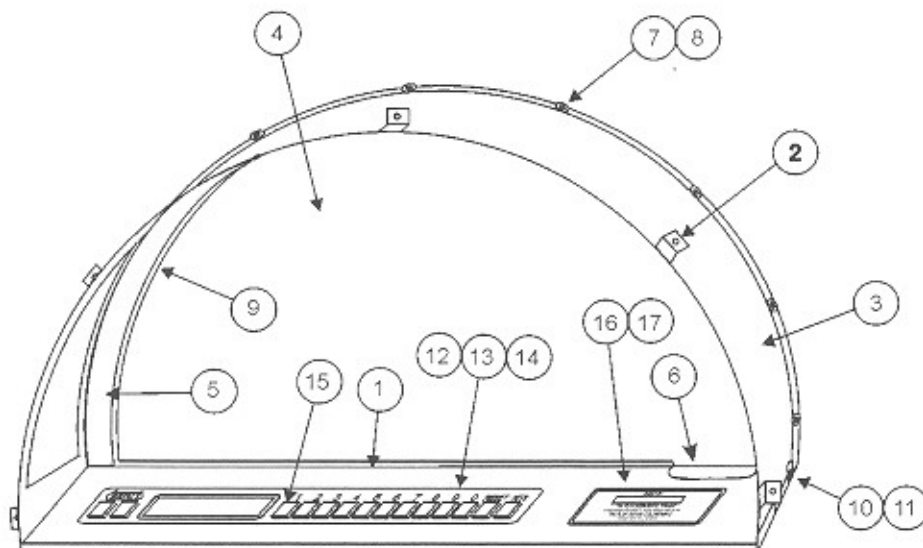
Item No.	Part No.	Description	Item No.	Part No.	Description
1	57380	Casting - Upper Trim LH	19	57456	Plastic - Bill Entry Block
2	57381	Casting - Upper Trim RH	20	57316-01	Casting - Coin Entry
3	57382	Casting - Side Trim	21	57317	Plastic - Coin Entry
4	57383	Casting - Shell Trim	22	57716	Decal 25 Cents only
5	57384	Plastic - Side Red	23	57457	Casting - Program Trim LH
6	57385	Plastic - Top Red	24	57458	Casting - Program Trim RH
7	57386-01	Plastic - Pilaster Cream	25	60202	Grill Trim
8	57387	Plastic - Upper Curve Cream LH	26	57472-	Grill Cloth Diamond Pattern
9	57388	Plastic - Upper Curve Cream RH		19250	19 1/4"
10	57452	Plastic - Inner Curve	27	SV-23826	Trim, Upper Display, Walnut
11	57453	Plastic - Inner Straight		SV-23827	" " Oak
	SV-57392-A	Large Grill Assembly	28	SV-23828	Trim, Lower Display, Walnut
12	57393	Casting - Large Grill		SV-23829	" " Oak
13	57394	Star Logo	29	57459	Program Glass
14	SV-60771-A	Grill Diffuser Plastic & Bracket Assy	30	53774-17500	Rubber Channel 17 1/2"
			31	SV-23402-A	Knee Assembly, Walnut
				SV-23415-A	Knee Assembly, Oak
16	57450	Grill Support	32	SV-58726-1A	Title Page Assembly (p. 6)
17	57454	Casting - Bill Entry	33	See page 3	Keyboard/Display Trim Assy
18	57455	Plastic - Bill Entry	34	SV-58840-A	Small Grill Assembly (p. 4)

Inside Door Assembly



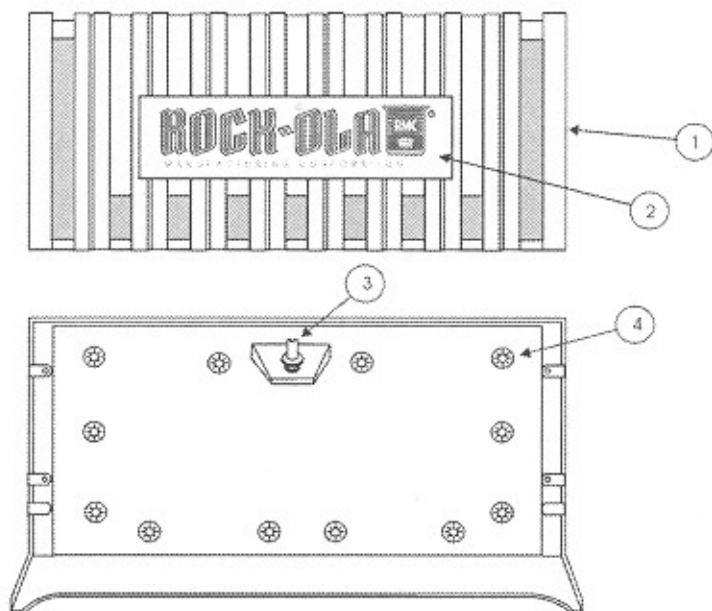
Item No.	Part No.	Description	Item No.	Part No.	Description
1a	57448	Bubble Tube, Long Curve	12	57433	Bulb 11 watt, Orange
1b	57449	Bubble Tube, Short Curve	13	57468	Lower Door Light Bracket
2	57447	Bubble Tube, Straight Long	14	SV-57469-3A	Speaker Board Assembly
3	58931	Speaker 3" Tweeter	15	57464	Kick Plate
4	56668-01	Speaker 6" Midrange	16	58251	Title Page Latch Spring
5	58252	Shroud, CD Title Page	17	57439	Light Arch Hanging Bracket
6	60756	White Plastic	18	60702	Fluorescent Light Bracket
7	SV-60764-A	Upper Coin Chute Assy	19	57673	Lampholder
8	57474	Light Diffuser Metal Frame	20	57467	Fluorescent Tube F6T5CW 9"
9	57475	Door Light Diffuser	21	SV-60764-A	Bubble Tube Heater & Mtg Assy
10	57492	Grill Light Bracket	22	58617	Dual Lock Strike
11	57431	Single Lamp Socket	23	See page 5	Light Arch Assembly (not shown)
11a	57473	Lamp (Bulb)	24	See page 5	Light Bar Assembly (not shown)

Keyboard/Display Trim Assembly



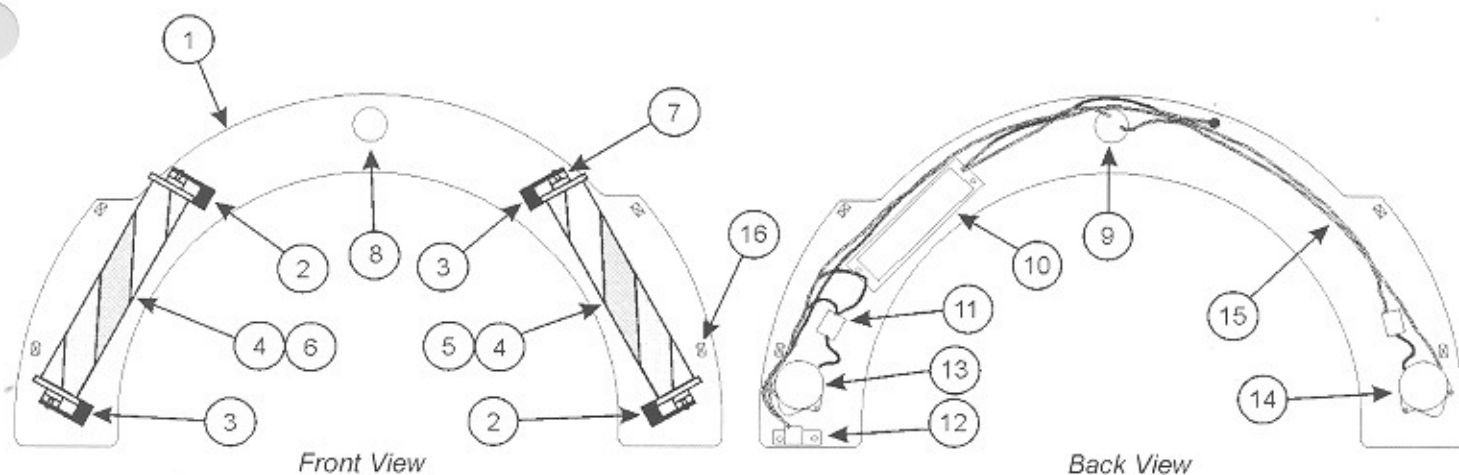
Item No.	Part No.	Description	Item No.	Part No.	Description
1	SV-23820-A	Display/Keybd Trim, Walnut	10	57512	Clamp
	SV-23821-A	Display/Keybd Trim, Oak	11	ST-04666	6x1/2 Phil Pan Hd Screw
	SV-23822-A	Display/Keybd Trim, Black	12	SV-58926-A	Keyboard/Display Assembly
2	57662	Window Arch Diffuser Frame	13	60627	Keyboard Bezel
3	58231	Arch Light Diffuser (CD-8 Bubbler)	14	59117	Keyboard Retainer Bracket
4	58210	Window Glass			(not shown)
5	57507-30000	Window Extrusion 30"	15	52242-01	Pushbutton - Orange
6	57507-20000	Window Extrusion 20"		52242-02	Pushbutton - Red
7	ST-04858	Tinnerman Nuts		52242-03	Pushbutton - Green
8	ST-09728	4-40x1/4 Phil Pan Hd Screw	16	60758	Price and Instruction Bezel
9	57508	Window Glaze	17	60686	Pricing Bezel Retainer

Small Grill Assembly #SV-58840-A (CD-8 Bubbler)



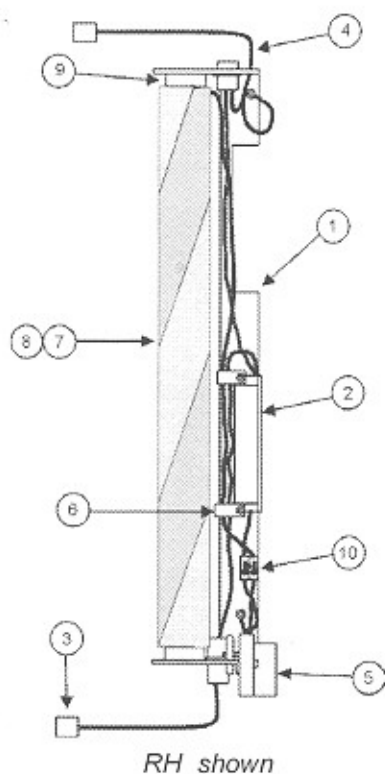
Item No.	Part No.	Description
1	58848	Small Grill Casting
2	58962	Rock-Ola Logo
3	58009	Mounting Stud
4	ST-11303	Speed Nut 3/16"

Arch Light Assembly # SV-60765-A



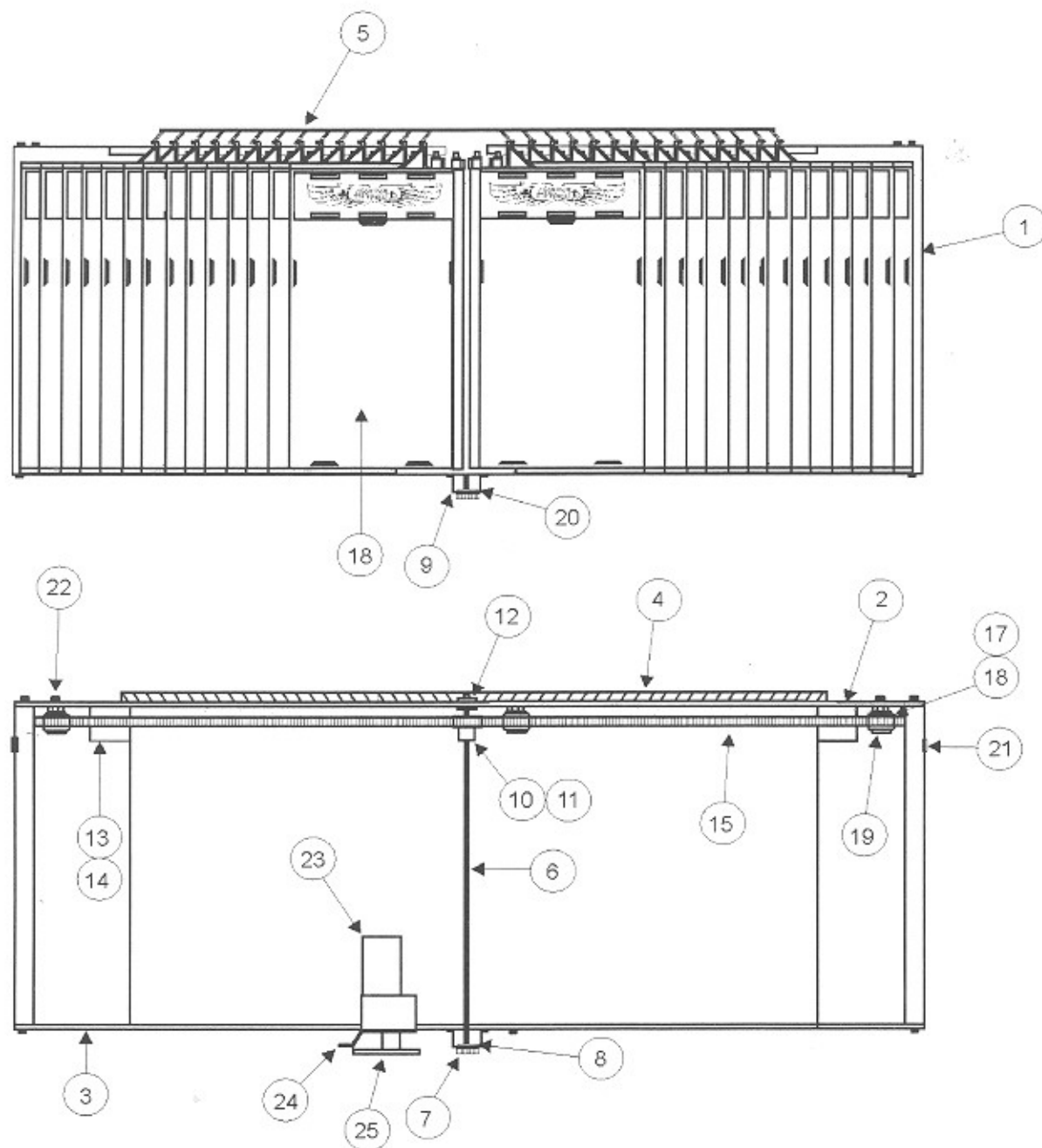
Item No.	Part No.	Description	Item No.	Part No.	Description
1	60696	Arch Light Frame	9	57431	Single Lamp Socket
2	57429	Lamp Bracket, RH	10	60207	Ballast, Workhorse 3
3	57430	Lamp Bracket, LH	11	57413	Terminal Strip, 2 pole
4	57434	Fluorescent Lamp F14T12CW	12	60739	Terminal Block
5	SV-57438-3A	Color Cylinder Assy, RH	13	SV-58046-A	Motor Assy, RH
6	SV-57435-3A	Color Cylinder Assy, LH	14	SV-58045-A	Motor Assy, LH
7	57415	Fluorescent bipin Socket	15	SV-60715-A	Arch Light Cable Assy
8	57433	Bulb 11W Orange	16	57440	Nylon Latch, 1/4 Turn

Light Bar Assembly



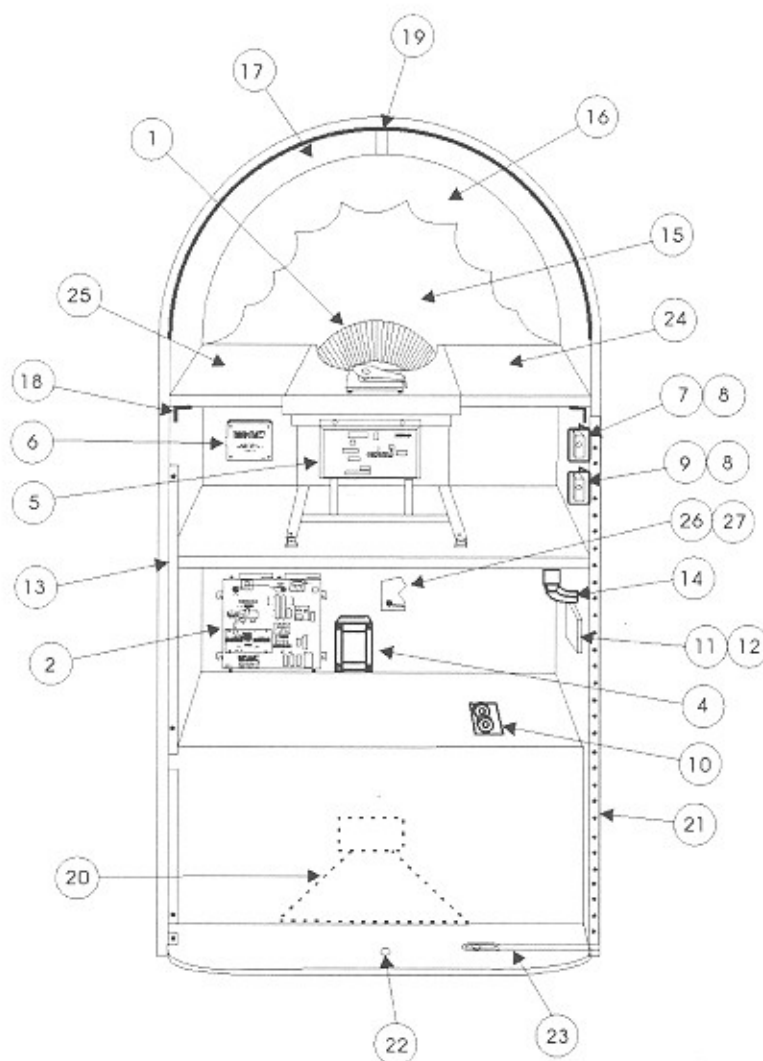
Item No.	Part No.	Description
1	60726-A	Light Bar Bracket, LH
	60727-A	" " " " RH
2	SV-60748-A	Ballast & Cable Assembly
3	SV-60708-A	Harness, Heater Power
4	SV-60714-A	Harness, Light Bar Power
5	SV-58045-A	Motor Assembly, LH
	SV-58046-A	" " " " RH
6	60739	Terminal Block
7	SV-57416-1A	Color Cylinder Assembly, LH
	SV-57425-1A	" " " " RH
8	36121	Fluorescent Lamp F20T12CW
9	57415	Fluorescent bipin socket
10	57413	Terminal Strip, 2 pole

Title Page Assembly #SV-58726-1A



Item No.	Part No.	Description	Item No.	Part No.	Description
1	57083-02	Title Page Main Frame	13	57353	Channel
2	57081-01	Top Bracket	14	57493	Slide Actuator
3	57082	Bottom Bracket	15	57354	Title Page Belt
4	57402-01	Catch Spring	16	57356	Title Page, Black Plastic
5	57347	Spring	17	57357	Standoff
			18	57358	Roller
	SV-57348-A	Drive Shaft Assembly	19	ST-09245	"C" Clip 1/4"
6	57349	Drive Shaft	20	57360	Nyliner Bearing 5/16"
7	57350-01	Brass Gear	21	57072	Nyliner Bearing 1/4"
			22	ST-08268-D	8-32x1/16 Hex Hd Screw
8	57359	Nyliner Bearing 3/16"	23	59346-A	Title Page Motor
9	57351-01	Bottom Mounting Guide	24	59682	Motor Bracket
10	57352	Nylon Gear	25	59675	Page Drive Gear
11	ST-02255	Set Screw 6-32 x 3/16	25a	ST-11460	Set Screw
12	ST-09263	"C" Clip 3/16	26	43414-01	Snap Switch

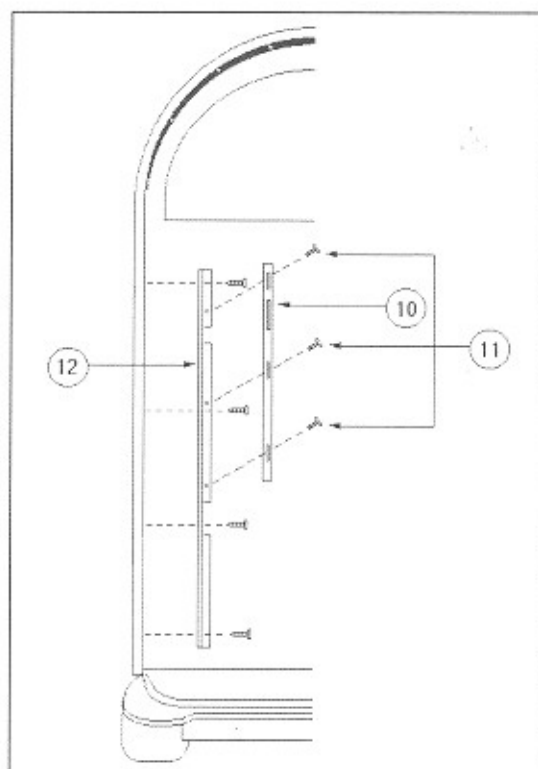
Inside Cabinet Assembly



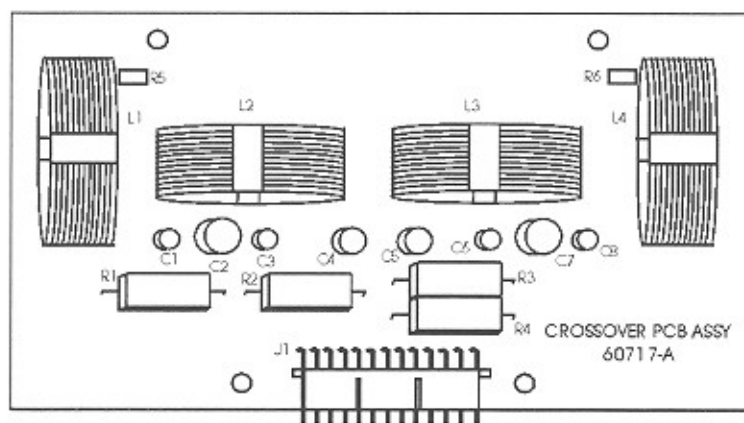
Item No.	Part No.	Description	Item No.	Part No.	Description
1	SV-58689-3A	Mechanism Assembly (p. 11)	17	57373	Gold Foil
2	SV-70135-A	Dual Digital Amplifier (p. 13)	18	57364	Mech Trim Bracket
-			19	57365	Light Block
4	60681-A	Transformer	20	57288-01	Woofer Speaker
5	SV-70003-2A	Computer (p. 14)	21	57377	Door Hinge
6	SV-70004-A	Volume Control	22	57477	Nylon Base Tack Glide
7	58602	Service Switch	23	57476	Door Support
8	58622	Switch Bracket	24	SV-23416-01	Mech Trim, RH, Walnut
9	58602	Power Cut off Switch		SV-23418	" " " Oak
10	SV-60717-A	Speaker Crossover (p. 8)		SV-23823	" " " Black
11	57335	Coin Acceptor	25	SV-23417-01	Mech Trim, LH, Walnut
12	57334-A	Coin Acceptor Mtg Frame		SV-23419	" " " Oak
13	SV-57366-A	Dual Lock Assy (p. 8)		SV-23824	" " " Black
14	SV-57336-A	Upper Coin Chute Assy	26	46956	Cable Cover
15	57374	Mural	27	ST-01352	Wing Nut
16	57375	Curtain			

Dual Lock Assembly SV- 57366-A

Item No.	Part No.	Description
10	57368	Dual Lock Side
11	57369	Shoulder Screw
12	57367	Dual Lock Guide

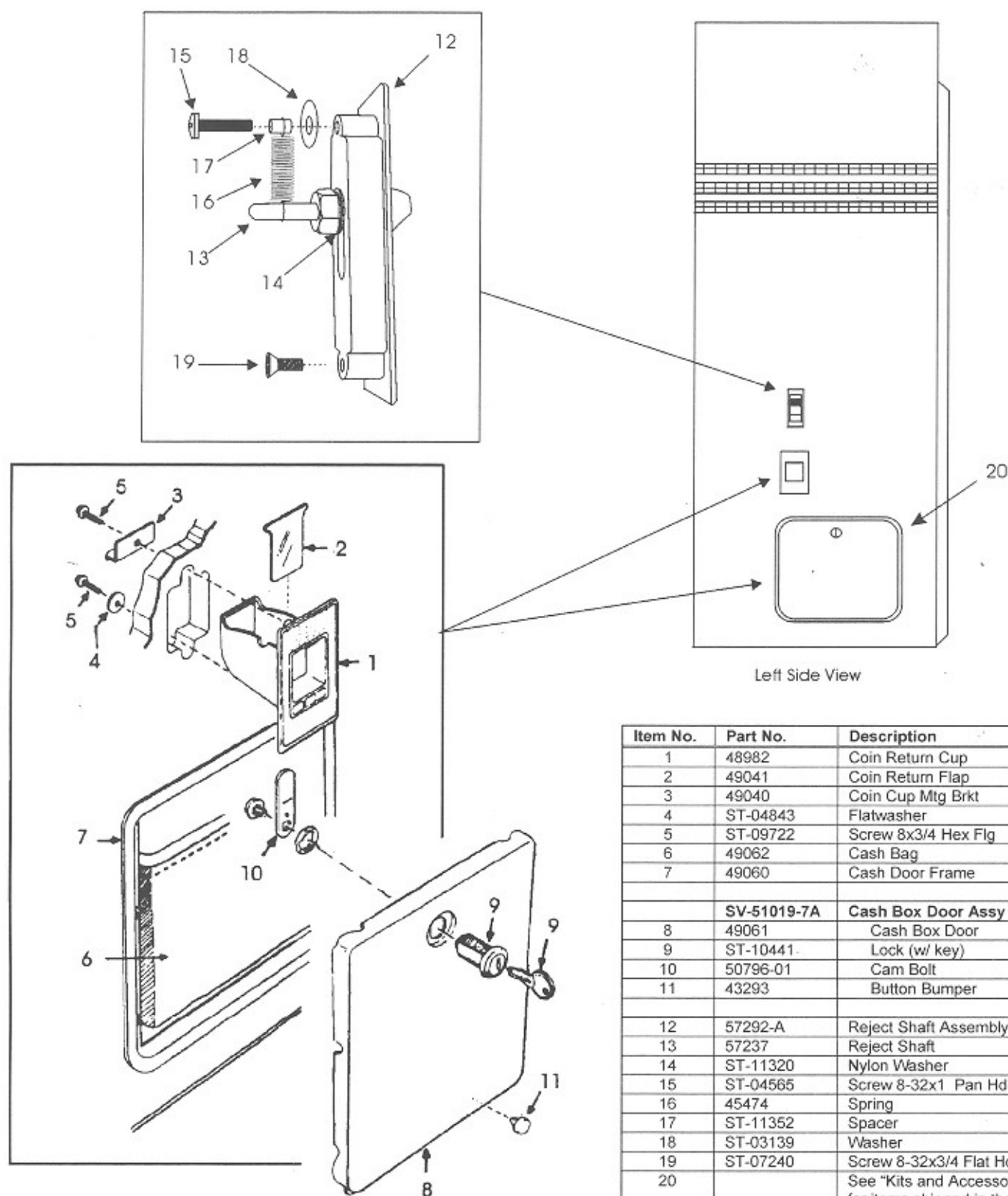


Crossover PCB Assembly SV-60717-A

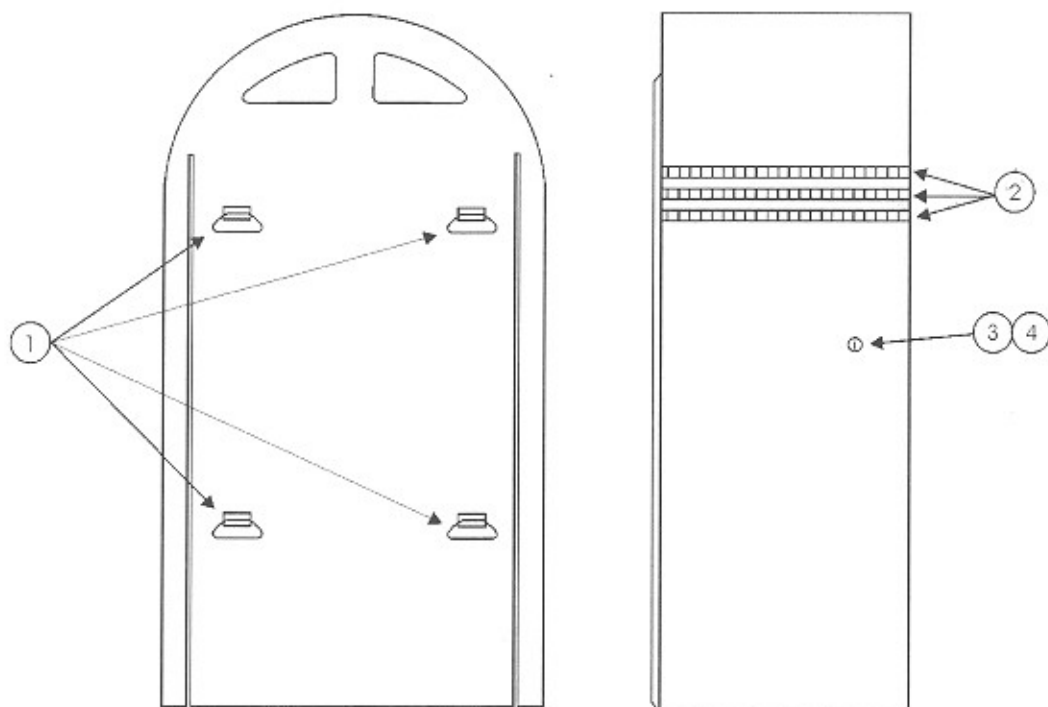


Qty	Part No.	Description	Ref. Des.
2	58942	Coil .8mH	L1, L4
2	58943	Coil 1.25mH	L2, L3
2	58948	Cap 47uf	C2, C7
2	58949	Cap 22uf	C4, C5
2	58950	Cap 5.6uf	C1, C8
2	58944	Cap 3.9uf	C3, C6
2	58933	Res 10 ohm, 5W, 10%	R2, R3
2	60767	Res 62 ohm, 5W, 10%	R1, R4
2	60766	Res 39 ohm, 5W, 10%	R5, R6
1	58947	Header 12 pin Right Angle	J1

Outside Cabinet Assembly

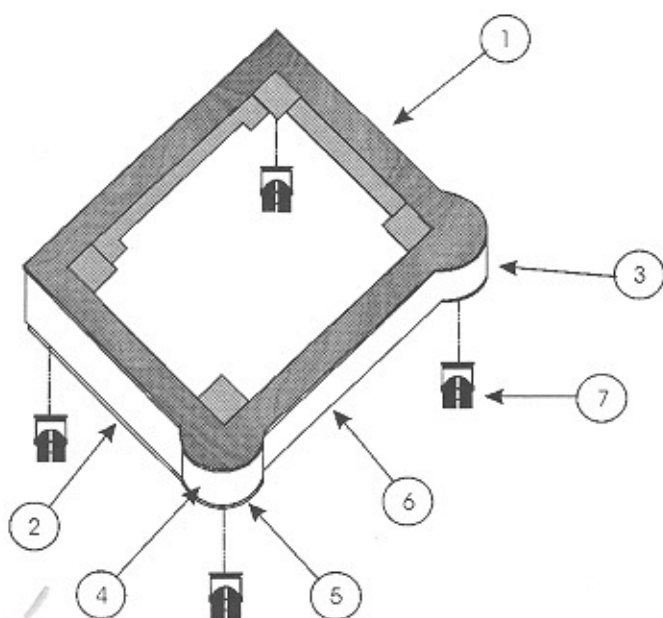


Item No.	Part No.	Description
1	48982	Coin Return Cup
2	49041	Coin Return Flap
3	49040	Coin Cup Mtg Brkt
4	ST-04843	Flatwasher
5	ST-09722	Screw 8x3/4 Hex Flg
6	49062	Cash Bag
7	49060	Cash Door Frame
SV-51019-7A		Cash Box Door Assy
8	49061	Cash Box Door
9	ST-10441	Lock (w/ key)
10	50796-01	Cam Bolt
11	43293	Button Bumper
12	57292-A	Reject Shaft Assembly
13	57237	Reject Shaft
14	ST-11320	Nylon Washer
15	ST-04565	Screw 8-32x1 Pan Hd
16	45474	Spring
17	ST-11352	Spacer
18	ST-03139	Washer
19	ST-07240	Screw 8-32x3/4 Flat Hd
20		See "Kits and Accessories" for items shipped in the cash box (page 21)



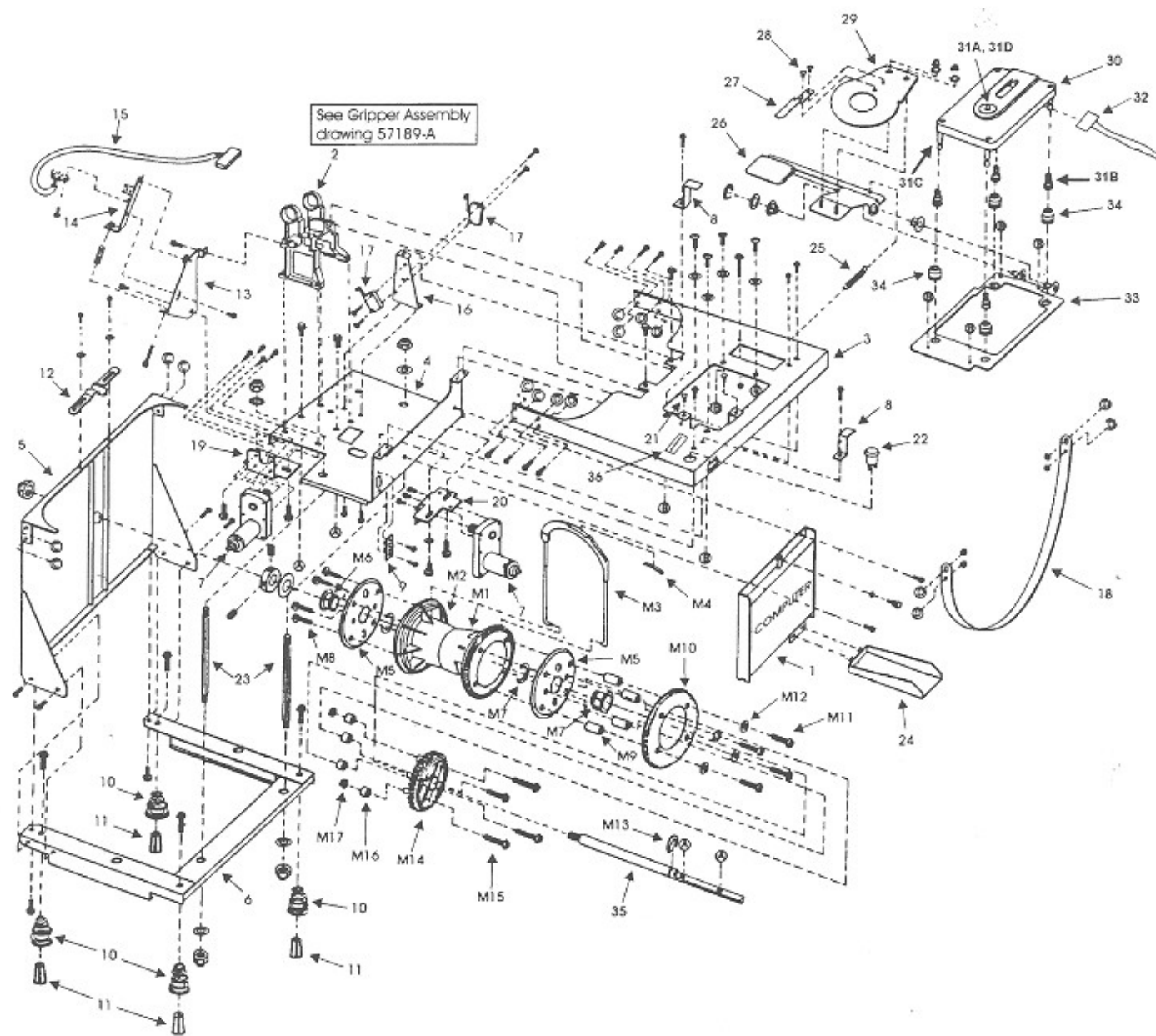
Item No.	Part No.	Description	Item No.	Part No.	Description
1	SV-49997-3A	Handle & Bracket Assy	3	ST-11296	Lock & Key
2	57376-18500	Mirror Strips 18 1/2"	4	ST-11296-K	Key only

CD-8 Bubbler Base Assembly SV-57322-A



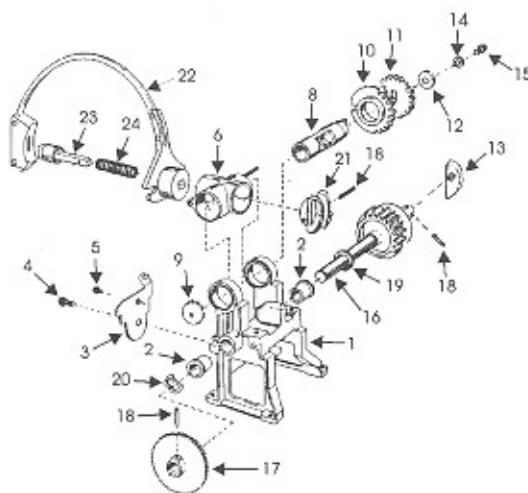
Item No.	Part No.	Description
1	58317	Side Metal RH
2	58316	Side Metal LH
3	57323	Front Corner Metal RH
4	57324	Front Corner Metal LH
5	57326	Lower Front Corner Metal
6	57325	Front Center Base Metal
7	ST-06030-04	Caster, Double Wheel

Mechanism Assembly



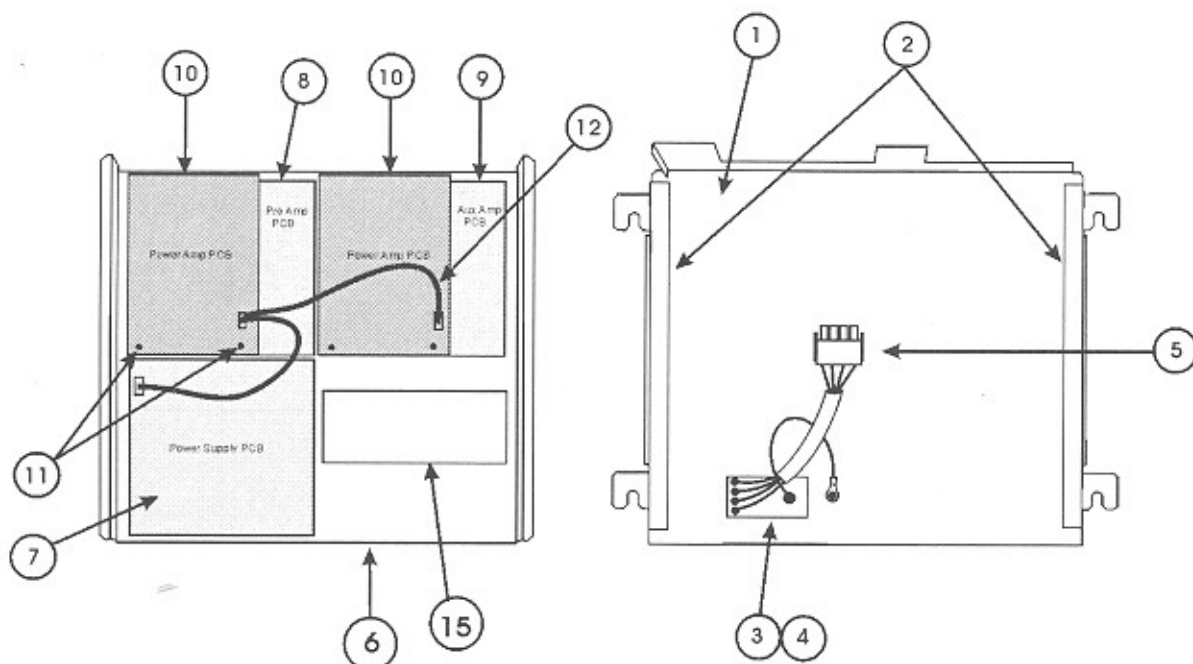
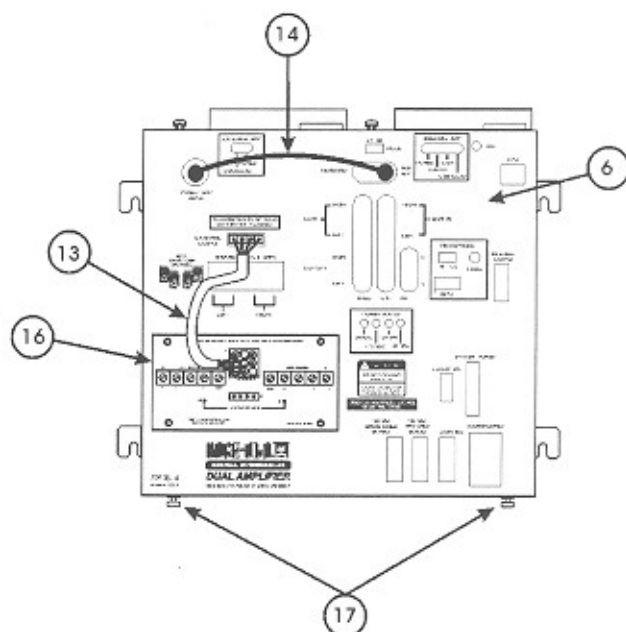
Item No.	Part No.	Description	Item No.	Part No.	Description
1	SV-70003-2A	Computer Assy (See page 14)	30	SV-59241-2A	CD Pro Player Assy
2	SV-57189-A	Gripper Assembly (See below)	31A	59954	Hub Insert
3	57062-2A	Mechanism Top Chassis Assy	31B	58639	Spring
4	58476	Main Chassis	31C	57051	Standoff
5	57161-01	Mech End Plate	31D	58929	Spider
6	58677	Mechanism Base Frame	32	58540-A	Audio to CD Player Cable
7	SV-55941-A	D.C. Gear Motor Assy	33	57063-1A	CD Player Mtg Bracket
8	57273	CD Hold Down Bracket	34	59071	Grommet
9	58544	Mounting Plate, RCA Jack	35	57156	Magazine Main Shaft
10	57167	Base Coil Spring	36	59140	Mech Warning label
11	57168	Nylon Spring Insert			
12	57157	Gripper Arm Rest Bracket		SV-57188-A	Magazine Assembly
13	57159	Opto Mounting Plate	M1	56016	Hub Front
14	57060-A	Opto Slide Bracket Assy	M2	56017	Hub Rear
15	58687-A	Mech Opto Cable Assy	M3	56348-1A	Separator Wire Assy
16	57154	Switch Mounting Bracket	M4	56283	Magazine Label
17	43414-01	Snap Switch	M5	57187-A	Cover Magazine Assy
18	57170	Steel Band	M6	50308-01	Main Bearing
19	57153	Gripper Motor Mtg Bracket	M7	ST-09264	Retaining Ring
20	55843	Mag. Motor Mtg Bracket	M8	ST-10561	10x1/2x Flg "B"
21	57071	Nylon Hole Plug	M9	57172	Spacer
22	58679	Momentary Switch	M10	55278-02	Encoder Disc
23	57165	Standoff	M11	ST-11282	10x1 1/4 Hex Flg "B"
-			M12	ST-04813	Flatwasher
25	57070	Clamper Spring	M13	ST-09194	Retaining Ring
26	57064-1A	CD Lifter Bracket Assy	M14	57293	Drive Gear
27	56076	Magnet Holder	M15	ST-02586	10-32x 1 1/2 Hex Flg MS
28	ST-00867	Rivet	M16	56114	Spacer
29	57166-02	Clamper Plate	M17	ST-08717	10-32 Hex Nut

Item No.	Part No.	Description	Item No.	Part No.	Description
	SV-57189-A	Gripper Assembly	23	56185-1A	Inner Gripper Assy
1	SV-45421-03	Gripper Housing	24	54768	Spring Gripper
2	45422	Gripper Housing Bearing			
3	52268-2A	Brkt Gripper Rev. Rivet Assy			
4	ST-09747	Screw 10-32x3/8 Hex Flg			
5	ST-09720	Screw 10-32x1/2 Hex Flg			
6	34315-07	Gripper Spider			
-					
8	34399	Trunnion Shaft			
9	34877	Trunnion Shaft Button			
10	34312-02	Gripper Turnover Gear			
11	34311-04	Gripper Release Gear			
12	ST-03150	Flatwasher			
13	57169	Cam			
14	ST-04881	Flatwasher			
15	ST-06535	Screw 8-32x5/8 Phil Pan Hd			
16	56434-A	Gripper Shaft Assy			
17	34310-01	Gripper Shaft Gear			
18	ST-00534	Spiral Pin Medium duty			
19	34929	Gripper Shaft Thrust Washer			
20	ST-04828	Spring Washer			
21	34323-8A	Cam Gripper Arm Rev. Assy			
22	56015-1A	Gripper Arm Assy			

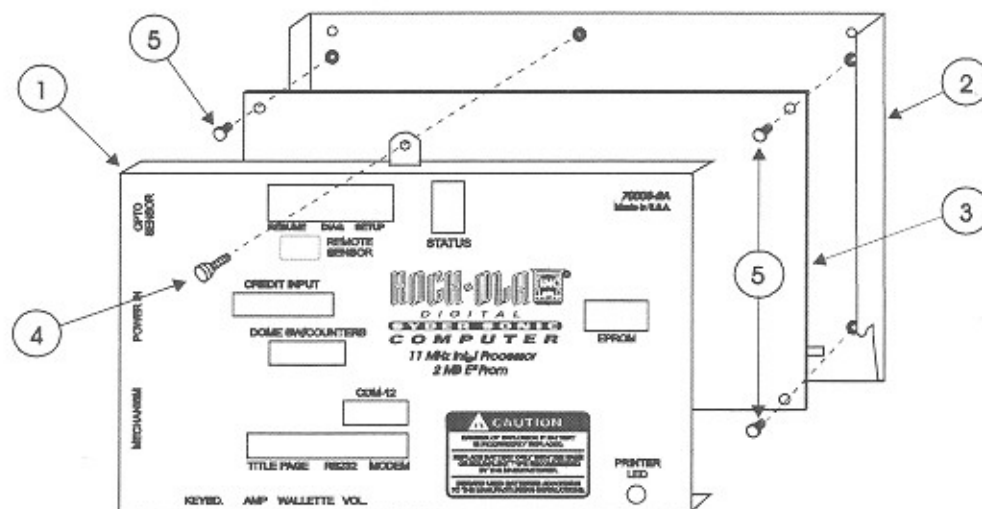


Dual Digital Amplifier SV-70135-A

Item No.	Part No.	Description
1	60621-A	Chassis, Dual Amp
2	40678-09500	Rubber Cushion 9.5"
3	58641	Switch, Corcom
4	ST-04346	Fuse, 8 Amp, 250v, fast blow (1 req) (Domestic)
	ST-11141	Fuse, 5A, 250V, fast blow (2 req) (Export)
5	60438-A	Harness, Amp Main Power
6	60622-A	Cover, Dual Amp
7	SV-60435-A	PCB, Digital Power Supply
8	SV-60441-1A	PCB, Digital Pre Amp
9	SV-60429-1A	PCB, Digital Aux Amp
10	SV-60442-A	PCB, Digital Power Amp
11	ST-11549	Standoff, 4-40 x 1/4"
12	60647-A	Harness, Power Amp
13	60648-A	Harness, Audio Output Panel
14	60649-A	Harness, Aux Amp Input
15	60643	Transformer Support Audio
16	SV-60455-A	Audio Output Panel PCB
17	ST-11429	Thumb Screw 6-32x3/8 (4 places)

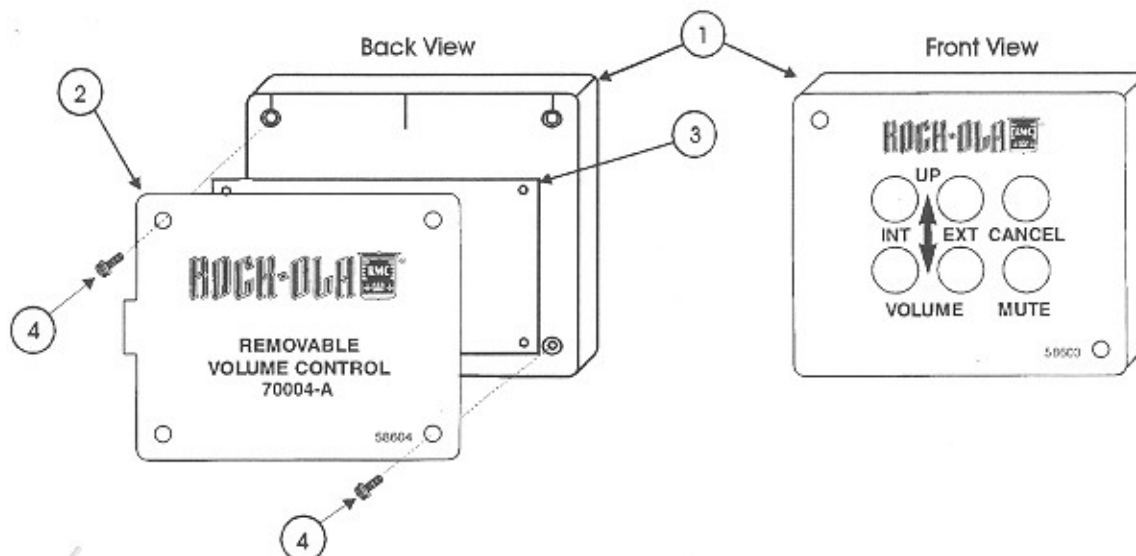


Computer Assembly SV-70003-2A



Item No.	Part No.	Description
1	58668-01	Computer Cover
2	58597	Computer Chassis
3	SV-58399-2A	Computer PC Board Assy
4	ST-11429	Thumb Screw
5	ST-02557	6-32x3/8 Hex Flg Screw

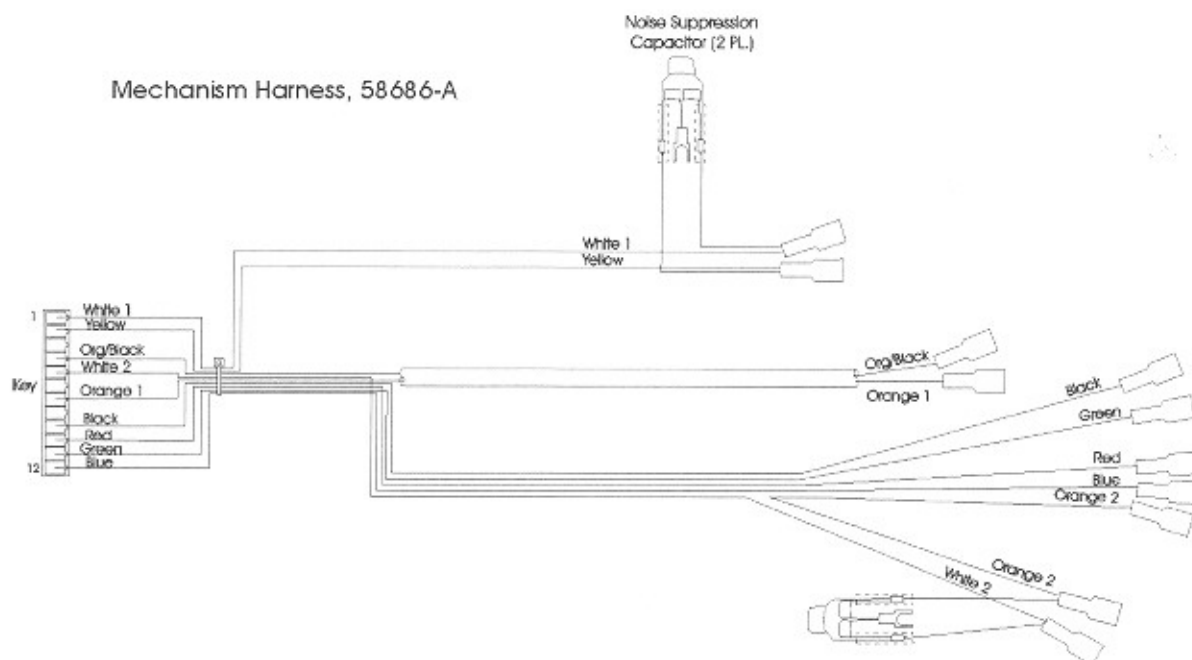
Volume Control Assembly SV-70004-A



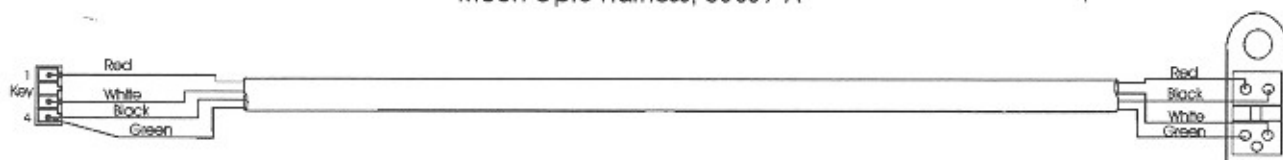
Item No.	Part No.	Description
1	58603	Volume Control Box
2	58604	Volume Control Plate
3	SV-58515-A	Volume Control PCB Assy
4	ST-04076	Tapping Screw 4 x 5/8 Pan Hd Type "B"

Cables

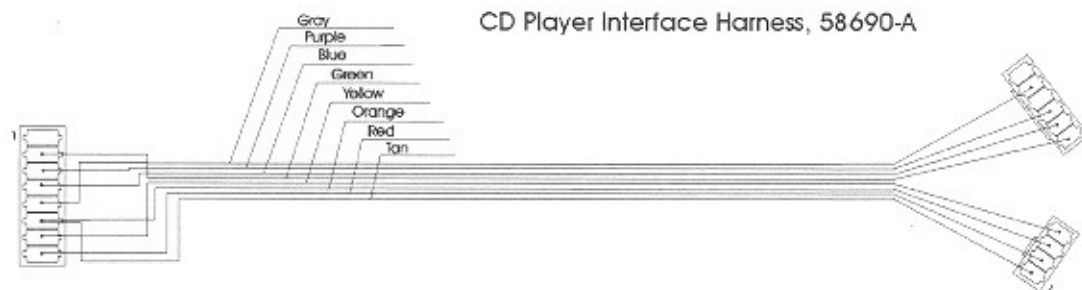
Mechanism Harness, 58686-A



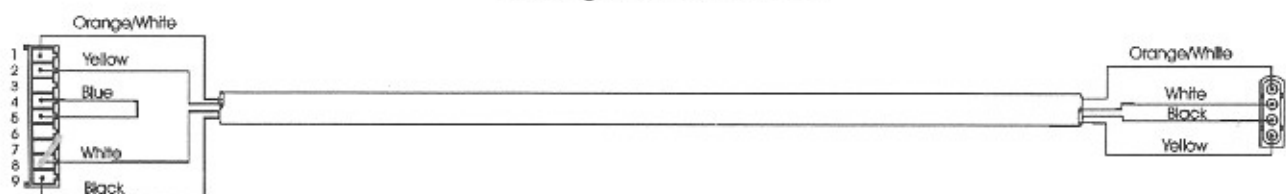
Mech Opto Harness, 58687-A



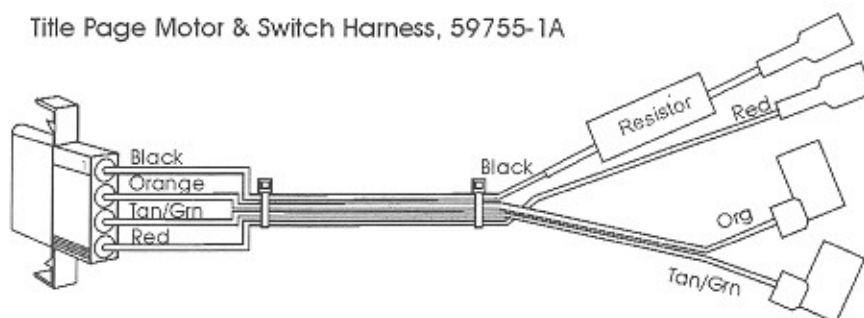
CD Player Interface Harness, 58690-A



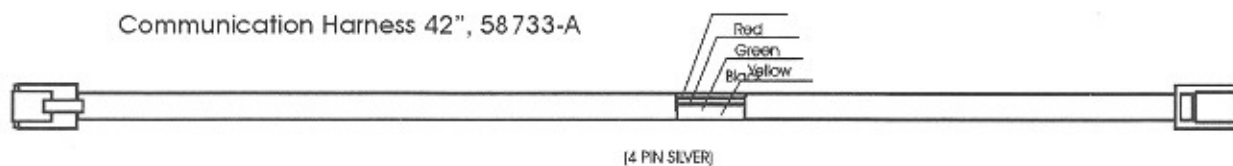
Title Page Harness, 58728-A



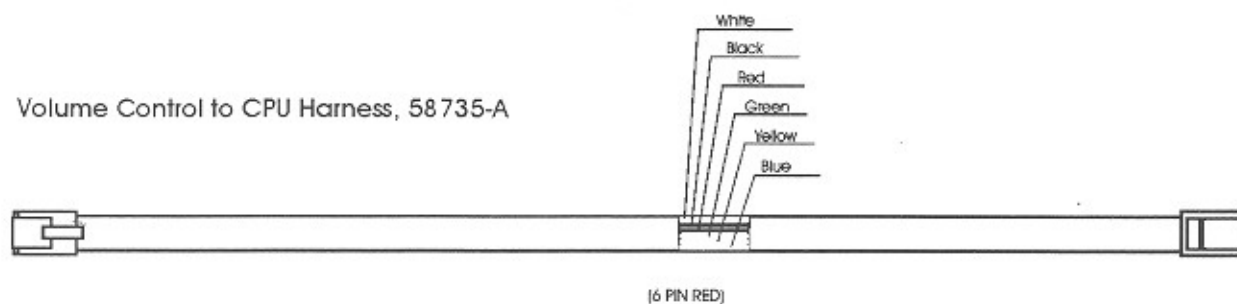
Title Page Motor & Switch Harness, 59755-1A



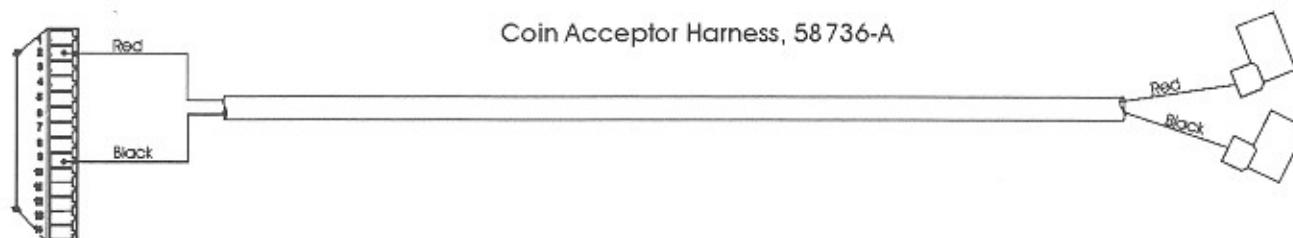
Communication Harness 42", 58733-A



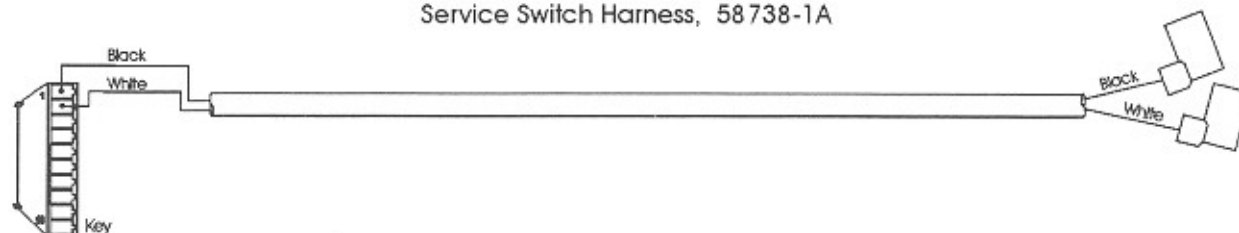
Volume Control to CPU Harness, 58735-A



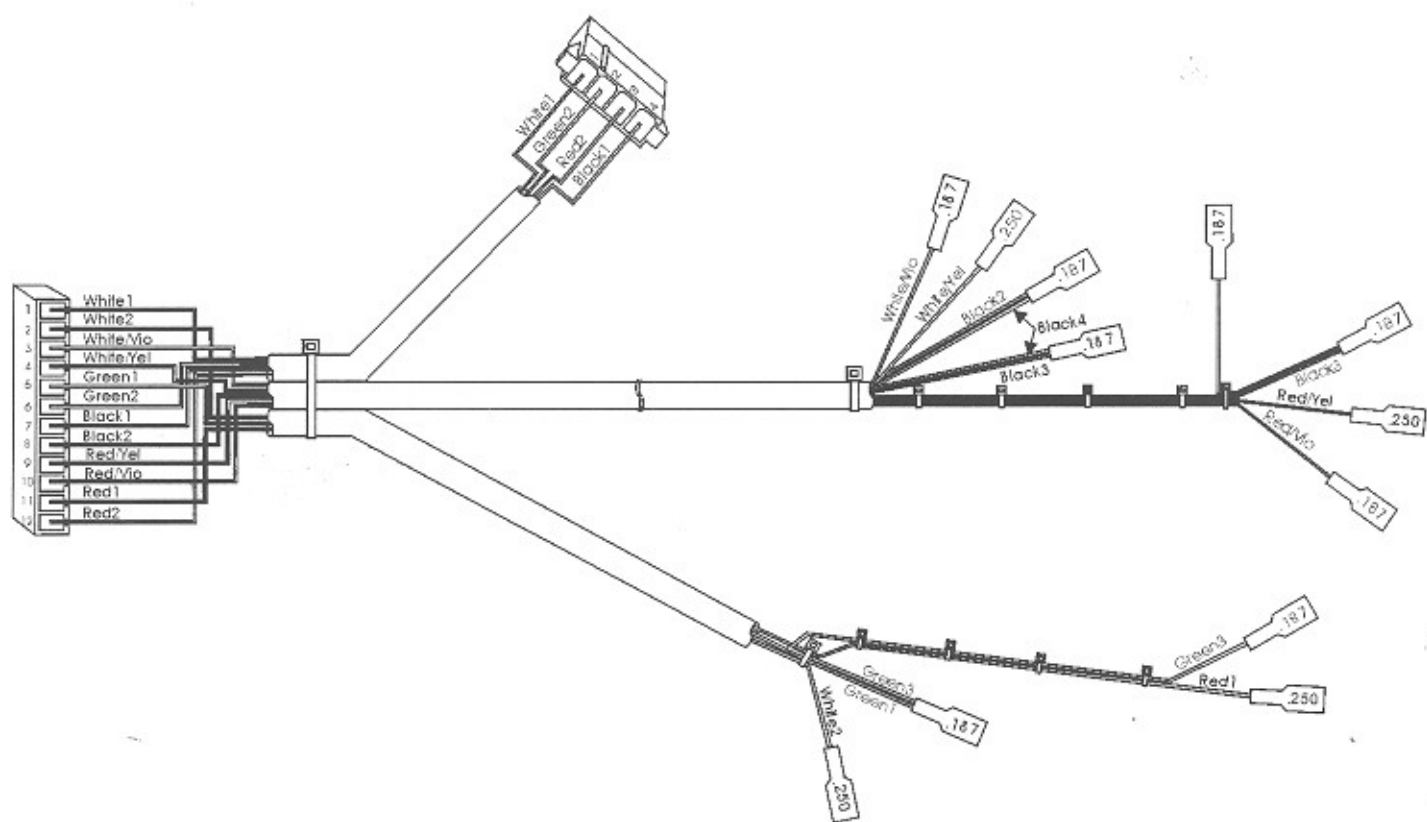
Coin Acceptor Harness, 58736-A



Service Switch Harness, 58738-1A



Universal Speaker Harness, 58932-A



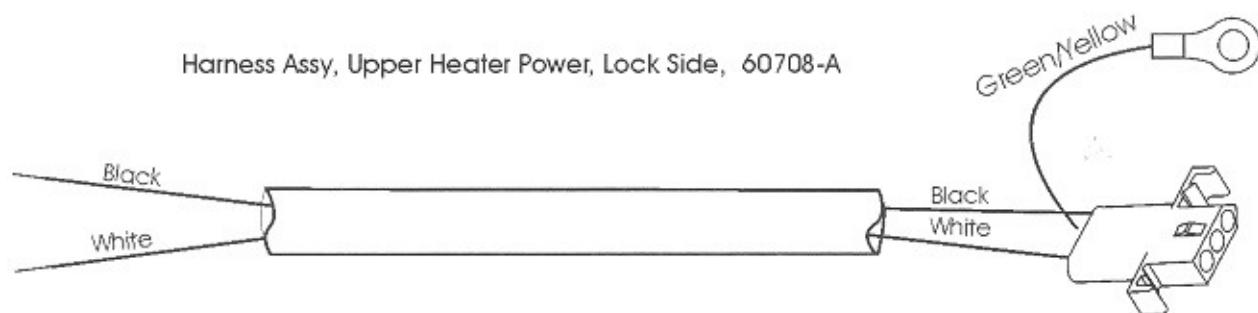
Audio Cable 48", 56670



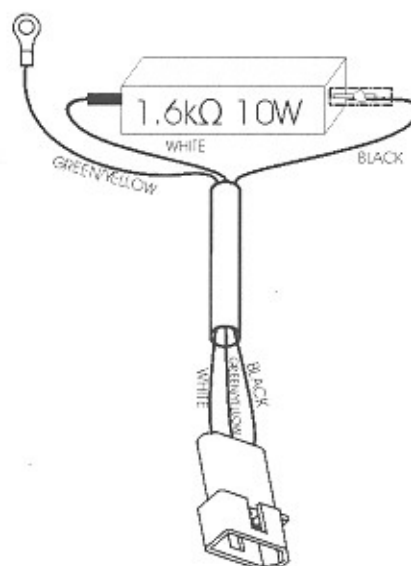
Ground Strap Harness
38" - 59511-A
4-1/2" - 60742-A



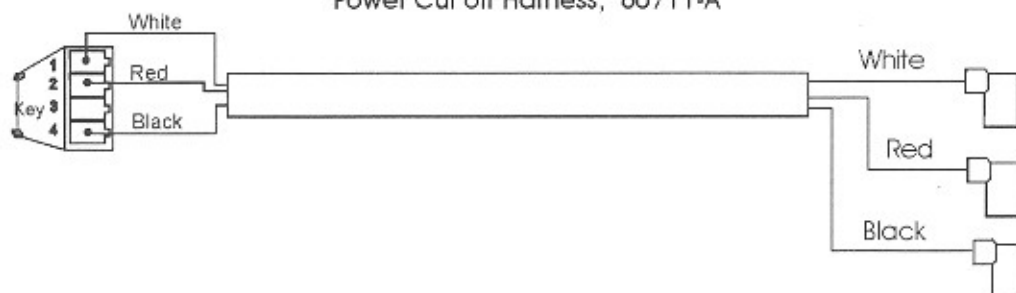
Harness Assy, Upper Heater Power, Lock Side, 60708-A



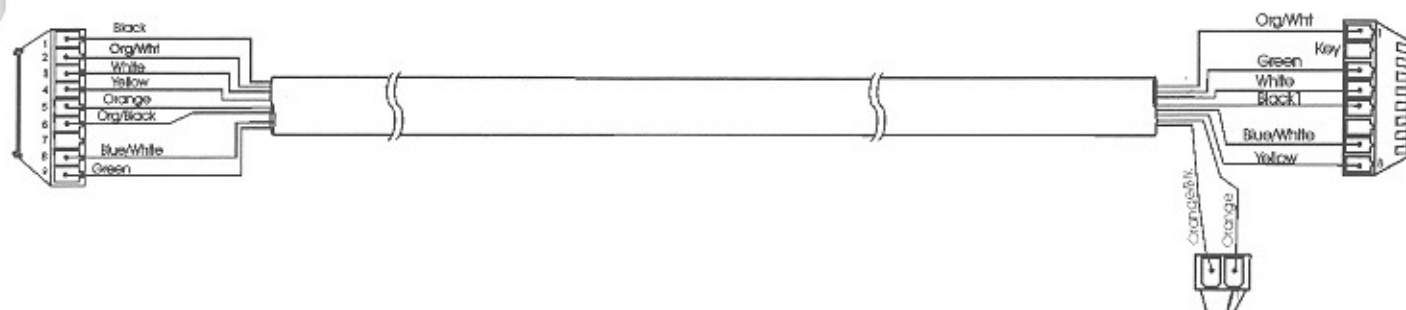
Heater Resistor Harness, 60710-A



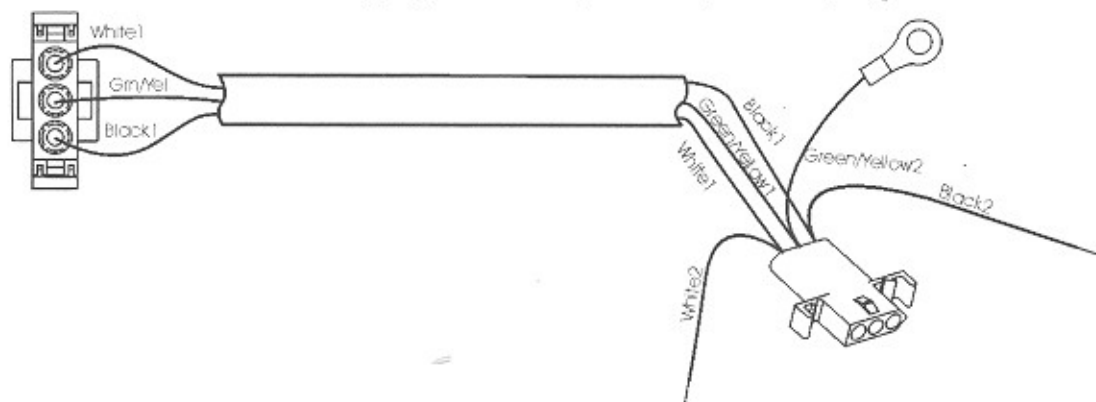
Power Cut off Harness, 60711-A



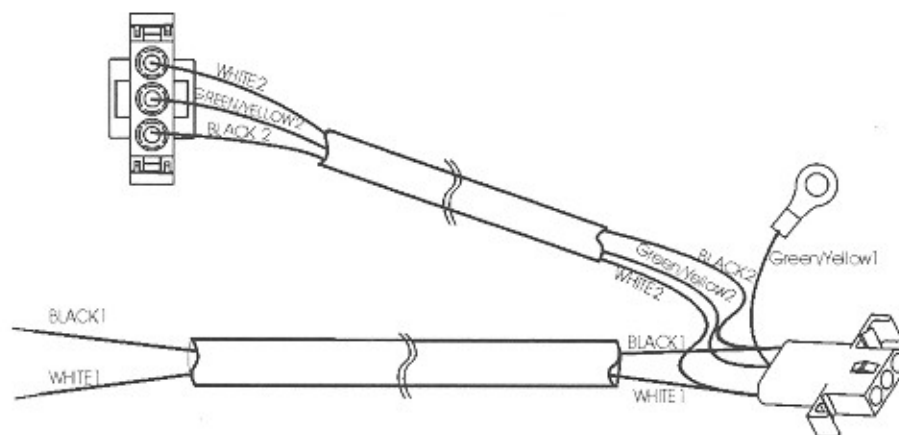
Power Supply to CPU Harness, 60712-A



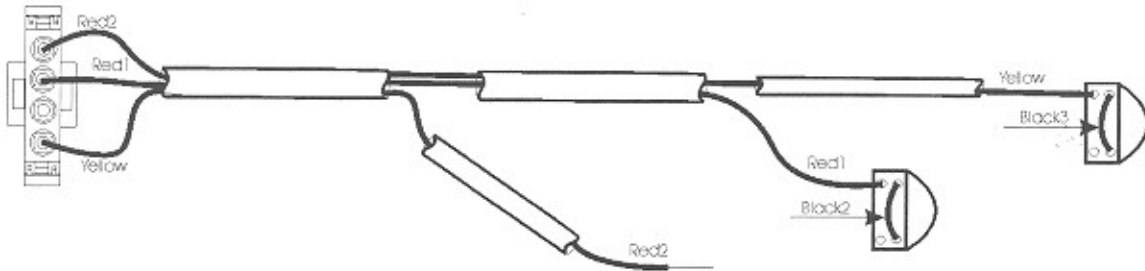
Harness Assy, Light Bar Power, Hinge Side, 60713-A (short)
 Harness Assy, Light Bar Power, Lock Side, 60714-A (Long)



Light Arch Power Harness, 60715-A



Title Page Lighting Harness, 60716-A



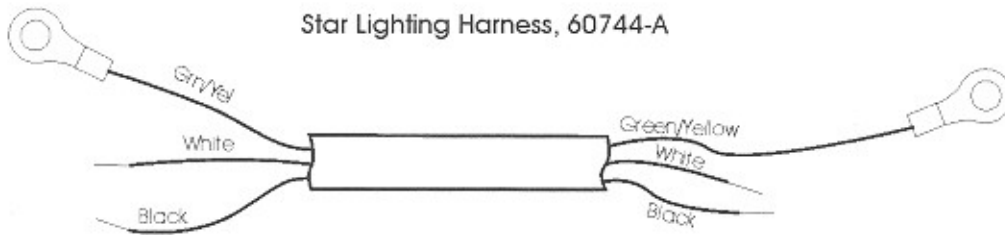
Power Supply to Junction Box Harness, 60729-A



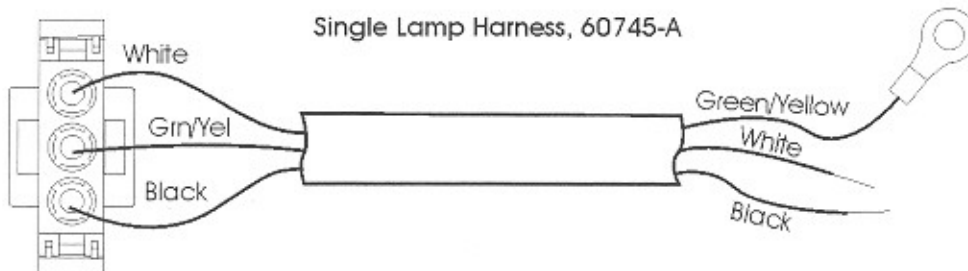
Logo Lighting Harness, 60735-A



Star Lighting Harness, 60744-A



Single Lamp Harness, 60745-A



Kits and Accessories

PART NO.	DESCRIPTION
	Items shipped in the cash box (I.R. Remote Control Package)
SV-58752-A	Standard I.R. Remote Control
SV-60046-A	Remote I.R. Receiver Assembly
SV-59891-A	I.R. Receiving Interface PCB Assembly
58810	Remote Sensor Enclosure
ST-10410	Screw, 4-40 x 3/8 Phil Pan Hd Sw.
58789-A	I.R. Remote Harness
58839-01	Instructions
	Service Envelope: (contains the following:)
56202-02	Pricing Sheet
60753	Title Strips, Single (25)
57279-02	Title Strips, Double (34)
60761	Operation & Service Manual with Parts Catalog
60511-02	Quick Find Reference Programming Sheet
60457-02	" Spanish (for Mexico)
57022-03	Warranty Card (Domestic)
58180-02	" (for Mexico)
59515	" (for Export)
55004	Application Form
58141	Number Strip
60670-01	Price Card, Blank (Domestic)
60683	Decal, DBA \$1 & \$1/2/5 (Domestic)
60685-A	Harness, Speaker Adaptor
60704-A	Terminal Kit
60685-A	Adaptor Harness
	Optional Kits:
SV-58751-A	Deluxe Remote Control
02379-02	Yoga Microphone Kit
02451	Serviceman's Kit
02410	Counter Kit
02414	Volume Accessory Unit Kit
02450	Audio Distribution Package, Digital Amp
02417-02	Telecommunications Kit
02436	Mars Dollar Bill Acceptor Kit