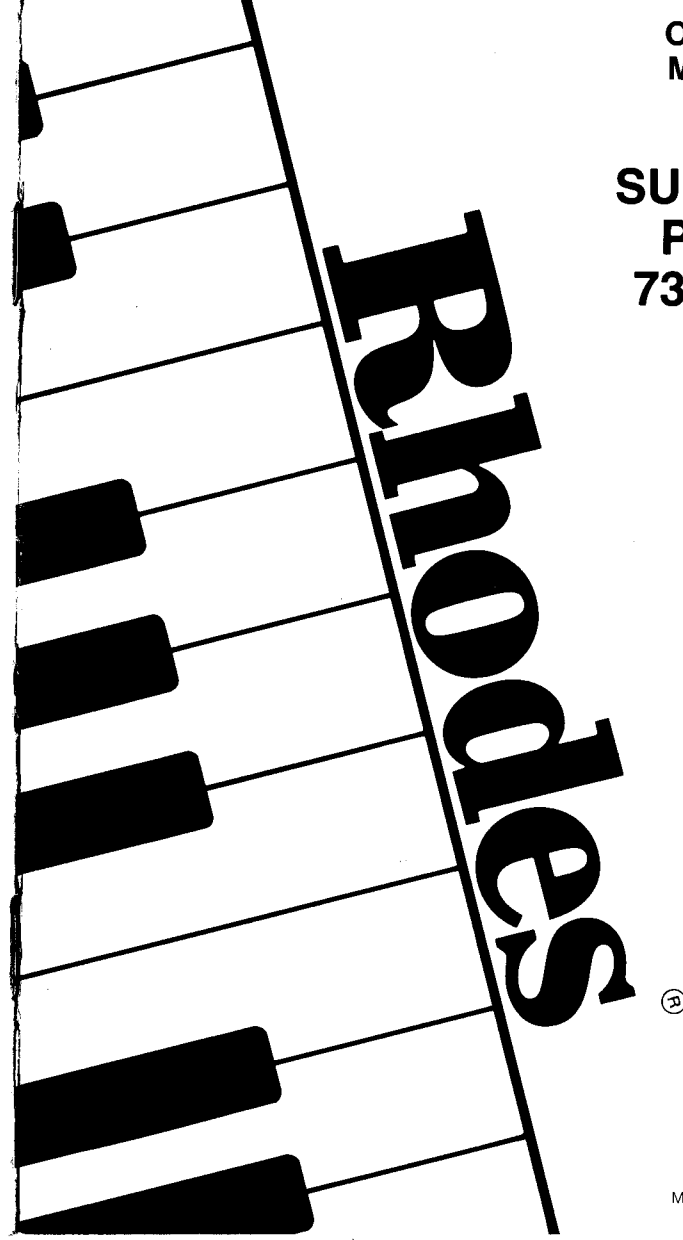


NOTE:
SEE ACCOMPANYING LIMITED WARRANTY
REGISTRATION SHEET

Rhodes[®]
KEYBOARD INSTRUMENTS

**OWNERS
MANUAL**

**SUITCASE
PIANO
73 and 88**



FEATURES:

- Dynamic touch keyboard action.
- Tone produced by tuning fork principle, no reeds to break, no strings to go out of tune.
- Volume, Treble, Bass, and Stereo Vibrato Controls.
- Two 50 watt Amplifier Channels.
- Sustain Pedal.
- Heavy duty fabric reinforced black vinyl covering.
- Two rugged suitcase enclosures for easy portability.



GETTING READY TO PLAY

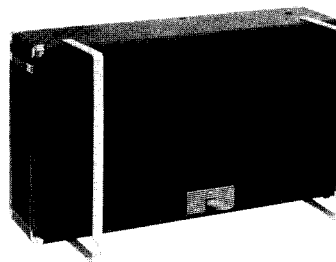


FIGURE 1

1. Set the Speaker Enclosure upright on the floor (Fig. 1). Rotate the legs so that they are perpendicular to the case. Lower the end of the Sustain Pedal parallel to the floor so it is in the normal playing position.

2. There are two metal furniture glides on the bottom of the Keyboard Case. Place the Keyboard Case on the Speaker Enclosure (Fig. 2), carefully aligning it so that the two glides will fit into the two recessed plastic cups in the top of the Speaker Enclosure. If the alignment is correct, the Sustain Pedal will work freely.

3. Unfasten the snap lock at each end of the Keyboard Case. Rotate the top cover up and back. The hinges at the back of the Keyboard Case cover are the disconnecting type. When the top is rotated back, it can be lifted off the Keyboard Case (Fig. 3).

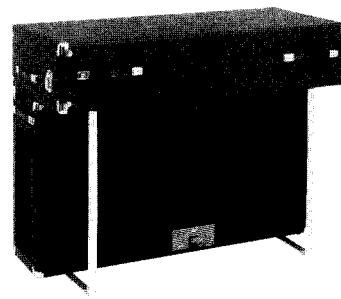


FIGURE 2

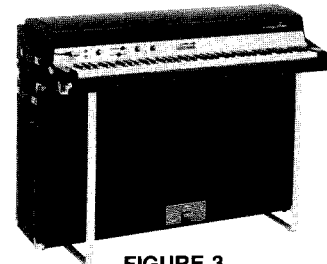


FIGURE 3

4. The Pre Amp to Power Amp Signal Cable is packed in a compartment inside the Keyboard Case Top. The AC Power Cord is packed separately in the Speaker Enclosure Carton. Connect the Signal Cable to the Piano Keyboard Control Panel (Power Amp Cable Socket, Figs. 3 and 4). Also connect the Signal Cable to the Speaker Enclosure Panel located on the left side of the Speaker Enclosure (Pre-amp Cable Socket, Figs. 3 and 5). Connect the AC Power Cord to the Speaker Enclosure Panel (Power Supply Socket, Fig. 5). Then plug it into a 120 volt 60 Hz AC source.

PIANO CONTROL PANEL

Located above Keyboard to Left

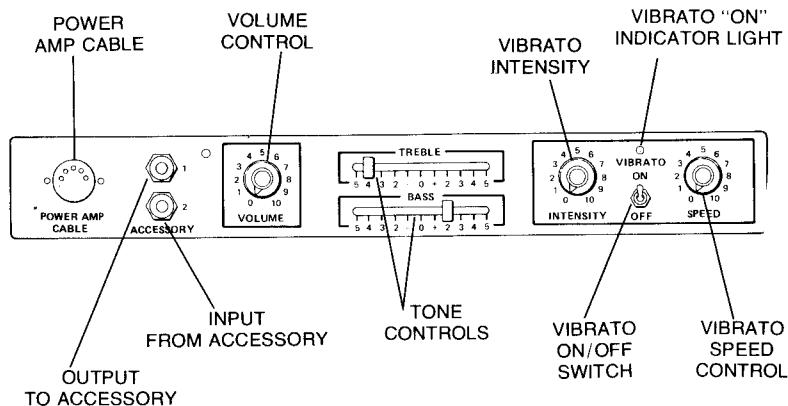


FIGURE 4

- **POWER AMP CABLE**
Accepts female end of interconnecting cable.
- **ACCESSORY JACKS**
Accept a non-stereo special effects accessory, (phase shifter, fuzz, etc.). Input of special effects accessory plugs into Jack 1, Output plugs into Jack 2.
- **VOLUME KNOB**
Controls the volume.
- **TOE CONTROLS**
(Bass & Treble) When the knobs are set at "0" position (center) the response is normal. Moving the knobs to the right increases the response, to the left reduces the response.
- **VIBRATO**
The on-off switch activates the vibrato effect and the vibrato indicator light which flashes on and off at the same speed as the vibrato. The intensity knob controls the intensity of vibrato and the speed knob controls the speed.

SPEAKER ENCLOSURE PANEL

Located on left side of speaker enclosure

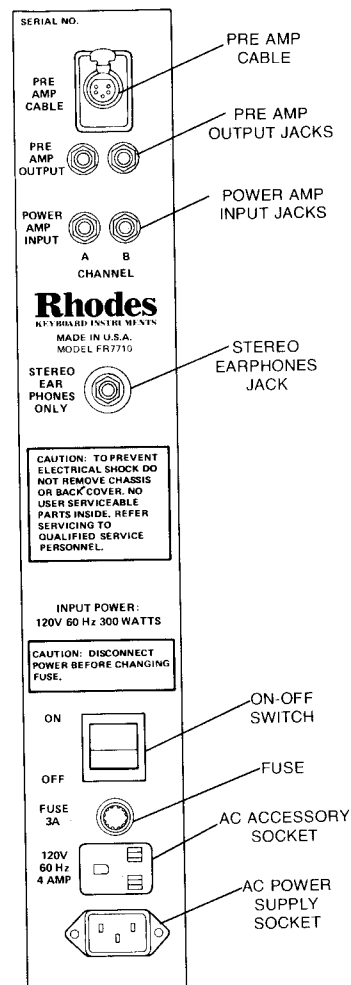


FIGURE 5

- **PRE AMP CABLE**
Accepts male end of interconnecting cable.
- **PRE AMP OUTPUT JACKS**
- **POWER AMP INPUT JACKS**
Accept stereo special effects accessories (phaser), etc. Special effect accessory inputs are plugged into Pre Amp Output Jacks, outputs are plugged into Power Amp Input Jacks.
- **STEREO EARPHONES JACK**
Accepts stereo earphones, 600 ohm impedance. The attachment of earphones to this connection will automatically channel the sound exclusively into the earphones.
- **ON-OFF SWITCH**
Turns AC power on and off.
- **FUSE-3 AMP**
Replace only with similar type.
- **AC ACCESSORY SOCKET**
Accepts any 120 volt, 60 Hz AC Accessory which draws not more than 450 watts.
- **POWER SOCKET**
Accepts female end of AC power cord.

SPECIAL EFFECTS DEVICES

The power amp input jacks are provided to allow use of various special effects devices. When these jacks are used, the signal from the Keyboard is disconnected internally from the power amplifier. The power amplifier input must now come from whatever you plug into this jack. To help you understand this feature, a block diagram of the system is shown (Fig. 6):

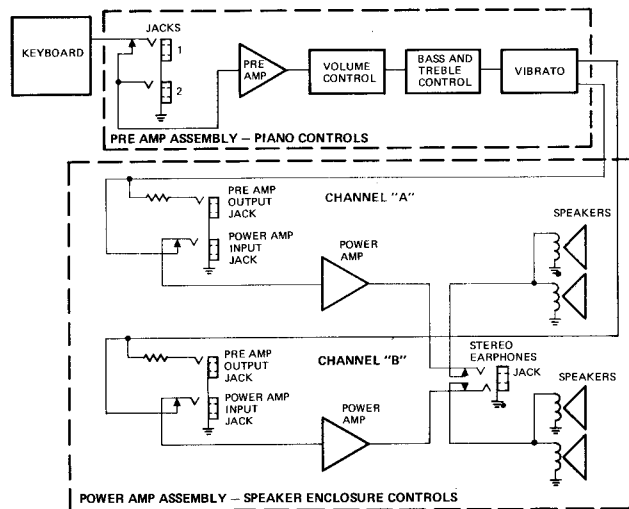


FIGURE 6

For example, a Stereo Phaser would be connected as follows: (Fig. 7)

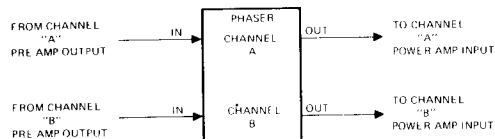


FIGURE 7

THE ACTION

The ACTION in your Piano consists of three major components:

The Key, the Hammer, and the Damper.

The HARP consists of two components:

The Tone Bar Assembly and the Pickup.

Figure 8 shows a view of the Piano Action with the Key at rest.

THE ACTION (Cont.)

The lower cam curve of the Hammer is resting in the rear pedestal of the Key (Fig. 8-25). The HAMMER ASSEMBLY is composed of a Hammer (Fig. 8-24), a Flange Comb (Fig. 8-14) and a Hammer Head Tip (Fig. 8-8). The DAMPER ASSEMBLY (Fig. 8-9 and 11) is connected to the Hammer by means of a Bridle Strap (Fig. 8-13). In the rest position, the felt Damper pad (Fig. 8-9) bears on the Tine (Fig. 8-7). The TONE BAR ASSEMBLY (Fig. 8-5, 6, 7, 10 and 12) is actually a modified tuning fork, the two legs of which are the Tine and Tuning Spring (Fig. 8-7 and 12) and the Tone Bar (Fig. 8-10). The PICKUP ASSEMBLY (Fig. 8-15) consists of a coil mounted to an adjustable arm.

The act of striking the Key causes the back pedestal to rise, which in turn rolls the Hammer up to a striking position relative to the Tone Generator Assembly. At the same time, the Bridle Strap pulls downward, thus releasing the Damper Felt from contact with the Tine. The Hammer blow causes the Tine to vibrate across the Pickup, creating a small voltage signal which is sensed by the amplifier and is converted into sound through the speaker system. The Damper Release Bar (Fig. 8-17), when activated by the Foot Pedal, automatically disengages all Damper Arms, thus allowing all Tines to vibrate freely (sustain).

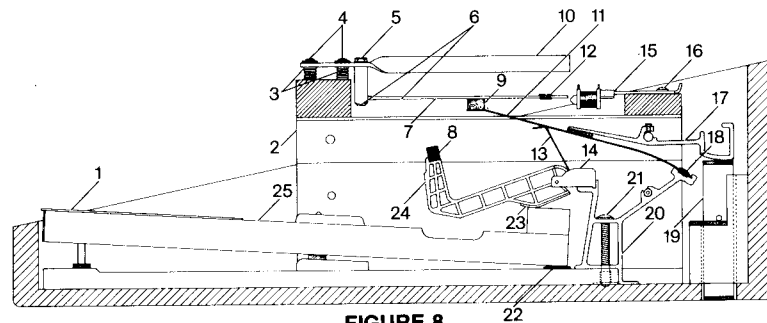


FIGURE 8

Rhodes® Action Assembly

- | | |
|---|----------------------------------|
| 1. Key Cap | 12. Tuning Spring |
| 2. Harp Support | 13. Bridle Strap |
| 3. Tone Bar Assembly Mounting Springs | 14. Hammer Comb |
| 4. Tone Bar Assembly Adjustment Screws | 15. Pickup Assembly |
| 5. Tone Generator Mounting Screw | 16. Pickup Adjustment Screw |
| 6. Tone Generator Assembly | 17. Damper Release Bar |
| 7. Tine (Part of Tone Generator Assembly) | 18. Damper Module Mounting Screw |
| 8. Hammer Tip | 19. Push Rod Assembly |
| 9. Damper Felt | 20. Action Rail |
| 10. Tone Bar | 21. Action Rail Mounting Screw |
| 11. Damper Module Assembly | 22. Keybed Felt |
| | 23. Hammer Butt Felt |
| | 24. Hammer Assembly |
| | 25. Key |

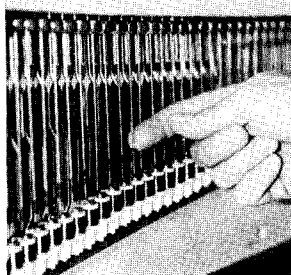


FIGURE 9

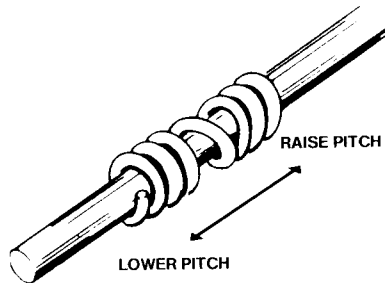


FIGURE 10

ADJUSTMENT FEATURES

The Rhodes piano seldom requires tuning. If it should be necessary to tune a note, it may be easily accomplished by following the steps listed below. 1. Remove the black Harp Cover over the Harp Assembly by lifting it up from the rear. 2. Remove the four Screws, two located on each end of the Harp Assembly. 3. Rotate the Harp Assembly up: it will pivot on the Harp Pivot Links located on each end. The Harp Assembly will stand free on its back edge (Fig. 9). 4. The out-of-tune Tine may be tuned by plucking it and the Tine of the same note in the next octave to compare the pitch. To raise the pitch, push the Tine Spring upward. To lower the pitch, pull the Spring down toward the end of the Tine (Fig. 10). Continue to adjust the position of the Spring and compare the notes until the Tine is in tune. 5. Replace the Harp and Harp Cover in their original positions.

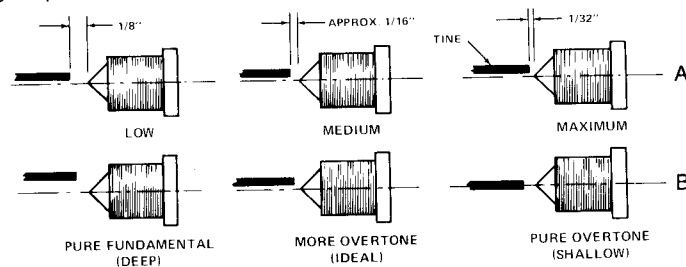


FIGURE 11

INDIVIDUAL NOTE VOLUME AND DYNAMIC RESPONSE

VOLUME DYNAMICS

Individual note volume dynamics are controlled by loosening the Pickup Adjustment Screw (Fig. 8-16), and then sliding the Pickup Assembly (Fig. 8-15), forward or backward thus increasing the distance between the Pickup and the Tine (Fig. 11-A). To reach the desired volume, strike the note while sliding the Pickup Assembly.

TIMBRE

Tone coloring (Timbre) may be altered to suit the individual taste by rotating the Tone Bar Assembly Adjustment Screws (Fig. 8-4).

This operation results in an increase or decrease in overtone component. The Tine is moved in relation to the center of the Pickup (Fig. 11-B). To hear the different tone colorings possible, strike a note while moving the Adjustment Screws.

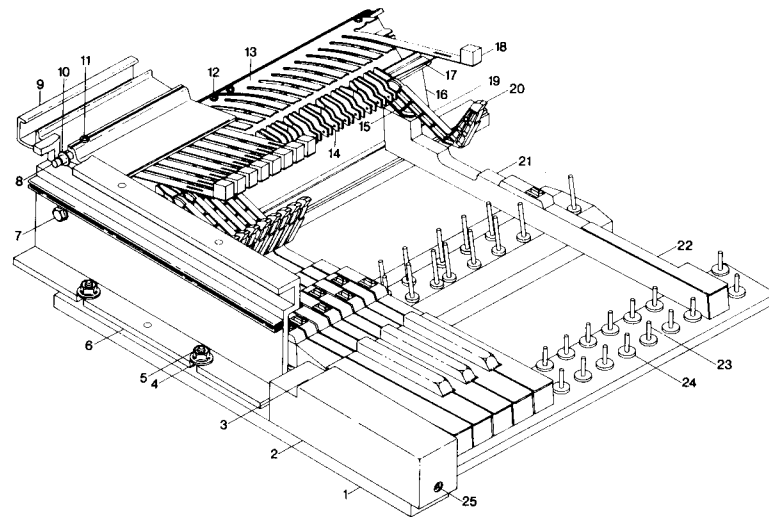
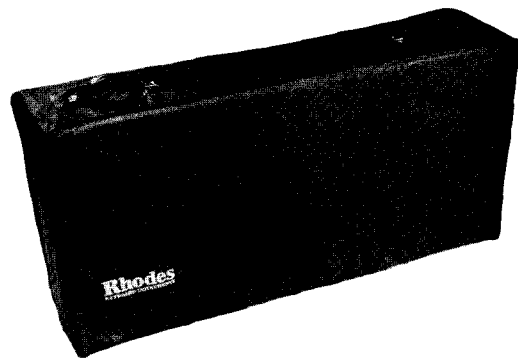


FIGURE 12

Rhodes® Action Assembly

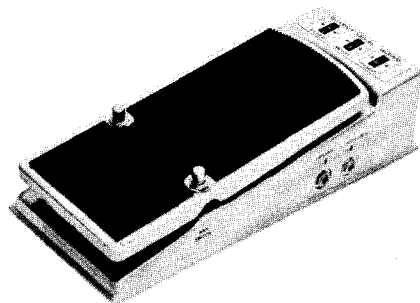
- | | |
|---|--------------------------------------|
| 1. Keybed | 13. Damper Module |
| 2. Cheek Block | 14. Hammer Comb |
| 3. Cheek Block Rear Mounting Screw | 15. Hammer Butt Felt |
| 4. Captive-Washer Mounting Nut | 16. Action Rail |
| 5. Harp Support Mounting Screw | 17. Bridle Strap |
| 6. Harp Support | 18. Damper Felt |
| 7. Harp Support to Action Rail Mounting Screw | 19. Hammer |
| 8. Damper Release Bar Pivot | 20. Hammer Tip |
| 9. Damper Release Bar | 21. Key |
| 10. Nylon Pivot Bushing | 22. Key Cap |
| 11. Pivot Mounting Screw | 23. Guide Pin |
| 12. Damper Module Mounting Screw | 24. Guide Pin Felt |
| | 25. Cheek Block Front Mounting Screw |

RHODES ACCESSORIES AND COMPLEMENTARY UNITS



COVERS

Slip on, waterproof, tear and abrasion resistant vinyl covers for Suitcase Piano Top and Speaker Enclosure.



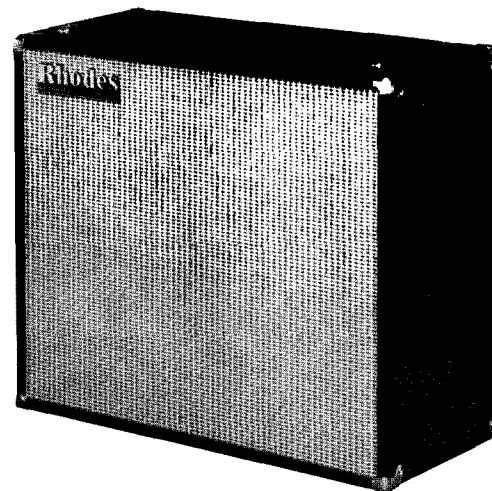
FUZZ WAH VOLUME PEDAL

Rugged up and down pedal, controls wah or volume. Finger tip controls for volume balance of wah and fuzz. Separate control for the amount of fuzz.



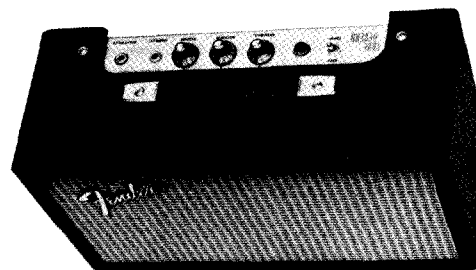
BLENDER

Compact fuzz and sustain unit for sound modification. Blends and sustains tone to any preset level.



SUPER SATELLITE SLAVE SPEAKERS

One for additional 100 watts RMS power or two for 200 watts with stereo vibrato effect.



FENDER TUBE REVERB

The original Fender long spring reverb unit. A perfect way to add reverb to your Rhodes Piano.