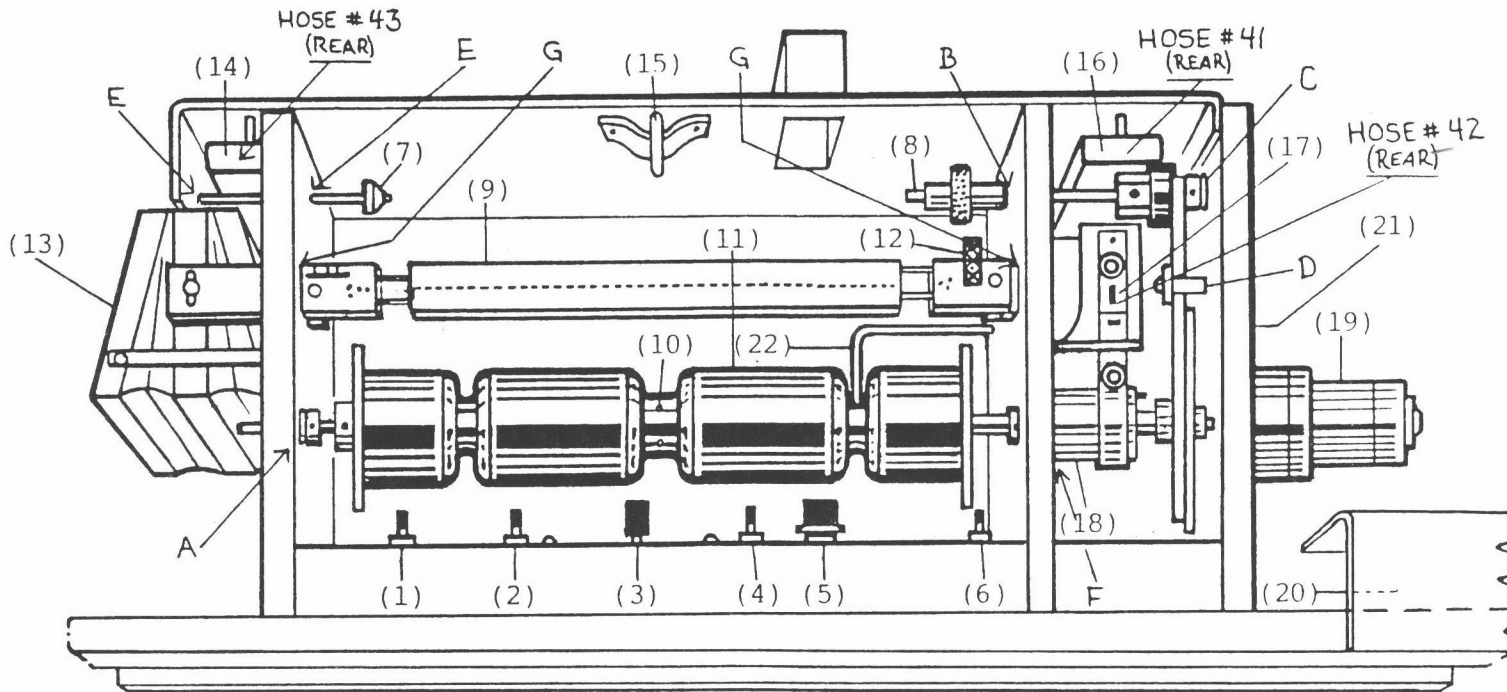


### BASIC OPERATION

#### Control Panel Functions and Spool Frame Features



THE SPOOL FRAME  
(Fig. 1)

- (1) **POWER SWITCH** - Turn the power switch to one of the "ON" positions. Choose the "Sing-A-Long" or the "Panel Lights" position.
- (2) **REROLL SWITCH** - This spring-loaded switch is for manually activating the reroll function. The piano will automatically reroll at the end of each roll. However, if you choose to quit listening to a roll at any time, simply push the switch back toward the back of the piano and release it, and the player will reroll the music roll.
- (3) **TEMPO CONTROL** - This control adjusts the speed of the music roll "Take Up Spool". The faster the Take-Up Spool goes, the faster the music plays.
- (4) **ROLL FORWARD** - This spring-loaded switch activates the spool motor, turning the Take-Up Spool and moving the roll forward. This is very useful when first putting the roll into the piano. (See "Operating the Player - Inserting the Roll.")

**BASIC OPERATION**

- (5) **ELECTRIC VOLUME** - This control adjusts the volume of the player when playing in the Electric/Automatic Mode. It has no control when foot-pumping the piano. This control actually changes the speed of the vacuum motor.
- (6) **AUTOMATIC PUMP ON/OFF** - This spring-loaded switch turns the vacuum motor on and off to start and stop the player mechanism in the automatic mode. (See "Operating the Player".)
- (7) **SPRING-LOADED, LEFT END MUSIC ROLLS SHAFT** - Simply holds the roll in place.
- (8) **KNURLED, BRASS REROLL DRIVE SHAFT** - Drives the music roll in the Reroll Mode.
- (9) **TRANSPOSING TRACKER BAR** - This is the brass bar that "reads" the holes in the paper music roll, and tells the piano which notes to play. This adjustment should be checked with every roll played to assure alignment of holes in paper to Tracker Bar.
- (10) **BRASS PINS** - Attach the end of the paper music roll here.
- (11) **MUSIC ROLL TAKE-UP SPOOL** - The paper music roll wraps around the Take Up Spool as it passes across the face of the Tracker Bar.
- (12) **TRANSPORTING THUMB WHEEL** - This thumb wheel turns up and down, moving the Tracker Bar left and right, in order to line up the holes in the Tracker Bar with the holes in the paper music roll. You can also transpose from one key to another using the thumb wheel to move the tracker bar left and right.
- (13) **AUTO-TRACKER BELLOW** - Automatically compensates for deviations in the position of the paper music roll.
- (14) **REROLL PNEUMATIC-BELLOW/VACUUM SWITCH** - Detects the reroll holes on the paper music roll (or tears or narrow spots), which activate the reroll system.
- (15) **MANDOLIN RAIL LEVER** - This lever raises and lowers the "Mandolin Rail", also known as the "Rinky Tink". By lowering the Mandolin Rail, you move a series of small metal tips between the piano's hammers and the strings, giving it the sound of a honky-tonk piano.
- (16) **PLAY PNEUMATIC-BELLOW/VACUUM SWITCH** - Detects the presence of vacuum in the system, and instructs the player mechanism to play.

### BASIC OPERATION

- (17) **PALLET VALVE ASSEMBLY** - When the piano goes into reroll, the pallet valve allows air to travel to the stack cut-out, which in turn cuts out the vacuum flow to the stack so that notes do not play during re-roll.
- (18) **CLUTCH ASSEMBLY** - The worm gear inside the clutch assembly causes the clutch to travel from the play position (left end) to the re-roll position (right end), when the drive motor reverses direction.
- (19) **SPOOL FRAME DRIVE MOTOR** - Drives the music roll take up spool and the reroll drive shaft.
- (20) **CIRCUIT BOARD** - Regulates the speed and direction of the Spool Frame Drive Motor, regulates the speed of the Vacuum Motor, monitors and regulates all of the electrical functions of the player mechanism (e.g., reroll switching, play pneumatic system, etc.)
- (21) **SPOOL FILL SWITCH** - Activated by the Spool Fill Arm (22), this switch tells the system when there is paper wrapped around the Take Up Spool; hence, telling it that it is okay to reroll. When there is no longer paper on the roll, the switch tells the system to stop rerolling.
- (22) **SPOOL FILL ARM** - Paper wrapping around the Take Up Spool lifts this arm out of the groove in the spool, activating the Spool Fill Switch.

### LUBRICATION RECOMMENDATIONS

**NOTE:** Do not oil the Spool Frame Drive Motor itself. Oiling could result in damage to the motor, and will void the warranty on the motor and any problem caused by oiling.

There are seven basic locations on the Spool Frame (See Fig. No. 1) that need to be kept adequately lubricated. We recommend that you use Murphy's brand oil soap on several of them. This can be purchased at most stores which sell cleaning products. Lightweight grease is recommended for the others. You can use any good quality lightweight grease, generally available at auto parts stores, or hardware stores. We recommend that you check these seven points at least every six months.

A, B, C, D	-	Murphy's Oil Soap
E, F, G	-	Lightweight grease

**NOTE:** The arrow labeled "F" is pointing at the face of the Clutch Assembly Set Collar (the face on which the spring-loaded pin drags while searching for its hole). You can find this collar pictured as No. 20, Fig. 6.

## BASIC OPERATION

### OPERATING THE PLAYER - AUTOMATIC MODE

- (A) Be certain that the piano is plugged into a standard 120V household A/C outlet. Set the power switch to one of the "ON" positions, choose either the "Sing-A-Long" or the "Panel Lights" position.
  
- (B) Inserting the paper music roll: The tab of the music roll should hang over the top and down the front of the roll. The left end plastic flange on the music roll is cupped so that it will seat nicely over the spring-loaded, cone-shaped shaft end (7) in the upper left corner of the Spool Frame. The right end plastic flange is machined to match the shape of the knurled, brass shaft end (8) in the upper right corner of the Spool Frame. To install the music roll, first place the left end of the roll onto the cone shaped shaft end (7). Then, allow the right end plastic flange to seat down onto the knurled, brass shaft end (8). (It may be necessary to roll a bit forward or backward to allow the flange to seat properly.) With the roll in place, pull the paper down over the Tracker Bar (9) so that the hole in the tab of the paper roll fits over one of the brass pins (10) on the Take Up Spool.
  
- (C) With the roll in place, and the hole in the tab of the paper roll over one of the brass pins on the Take Up Spool, use the "ROLL FORWARD" switch to put a turn or two of the paper onto the Take Up Spool. (As long as you hold the "ROLL FORWARD" switch forward, it will continue to roll. It is spring-loaded though, so you need only release the switch and it will quit rolling forward.)
  
- (D) Set the Tempo Control at the number indicated at the start of the roll. This number is only a recommended tempo. You may prefer a tempo that is faster or slower. You can adjust the tempo at any time you wish.
  
- (E) Adjust the Volume Control to a medium setting. If you set the volume to low to start out, the piano will have difficulty building enough vacuum to begin playing. Setting it at a medium volume will help the player mechanism get started, and then you can adjust the volume to the desired level.
  
- (F) Push the Pump ON/OFF switch to activate the vacuum motor. Once the vacuum motor begins to run, it will build up vacuum in the system and tell the player mechanism to begin playing the piano. It will take a few seconds for the vacuum to build up, so do not be alarmed when the piano does not begin to play immediately. Since this is a spring-loaded switch, you need only push it forward momentarily and release it to activate the motor. Once the motor is running, pushing the



### BASIC OPERATION

switch again will turn off the motor. When you do turn off the motor in the middle of a roll, the vacuum in the system will slowly be used up and the system will tell the player mechanism to stop turning the roll. You may start and stop the player at any time during normal play of a roll without harming the piano.

- (G) If you wish to stop the song before it would normally end, simply push the reroll switch forward momentarily and release it. The piano will then reroll.

Now just sit back and enjoy. The piano will do the rest. When the song ends, the piano will automatically reroll. If it doesn't, or if you have any other problem, consult the Trouble Shooting Guide.

### FOOT-PUMPING THE PLAYER

Follow steps (A) through (D) above. Then, slide the foot-pump access door all the way to the right, and fold out the foot pumps. Begin an easy, steady pumping action. Once you've built up a bit of vacuum in the system, the music roll will begin to roll forward. Before the holes in the roll begin to travel over the Tracker Bar, pumping will be a bit labored because there is no escape for the built up vacuum. You won't need to pump very hard at all until the holes in the roll appear and the song begins to play. Even then, you shouldn't need to pump as vigorously as you may have on other player pianos. A medium paced, steady pump should do it. Once the piano does start to play, you will find that the harder you pump, the louder it will play, the easier you pump the softer it will play. The volume control on the control panel has no function when you are foot pumping the piano. Once again, when the song comes to an end, the piano will automatically reroll. You need not continue to pump for it to reroll - in fact, the piano will shut off all vacuum when it begins to reroll.

If, while you are operating the piano electrically/automatically, you decide to foot-pump it, simply push the pump ON/OFF switch. The vacuum motor will turn off and the reserve vacuum will begin to die out. Begin to footpump the piano any time. By the same token, if you decide you'd like to operate the piano electrically while you are footpumping, simply press the pump ON/OFF switch. The vacuum motor will turn on and begin to come up to speed. You can quit footpumping at any time.

The reroll switch will work in both the electric/automatic and the foot pumping modes. The Tempo Control will also work in both modes. However, the Volume Control has no function when you're footpumping (just pump harder or easier).