

## 11. VORSETZER REPRODUCER INSTALLATION

This Section details the installation procedures for the Model P-200 PIANOCORDER Vorsetzer reproducer. Follow each Step in sequence and read each Step and related CAUTION or NOTE (if any) THOROUGHLY before doing it so you will fully understand what is required and to avoid costly mistakes. This will ensure proper installation of the system.

### STEP 11-1

Unpack the unit from the shipping carton by following these procedures:

- A. SLOWLY tip the carton up on end (see FIGURE 11-1), and open the BOTTOM of the carton as shown in the Figure.
- B. Fold ALL Bottom Flaps flat against the side of the carton as indicated by the arrows in FIGURE 11-1.
- C. Grip the top two legs of the Vorsetzer and gently lower them until the unit is sitting upright on the floor.
- D. CAREFULLY lift the carton up off the Vorsetzer and turn it upside down.
- E. Remove the hardware package and other assembly parts from the pocket in the top of the carton, then move the carton and packing material away from the work space.
- F. Unpack the following assembly parts and inspect them for damage as you do so:

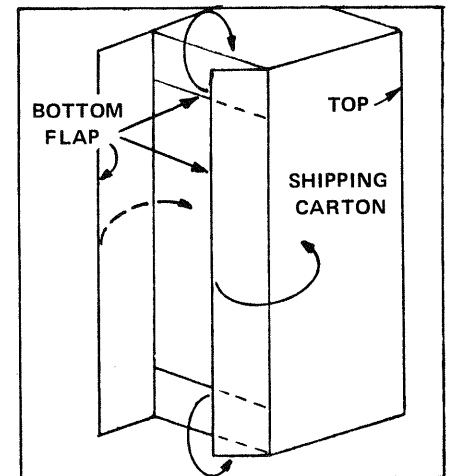


FIGURE 11-1 Tip the carton on end.

- |  |                 |
|--|-----------------|
| 1 ea. Centering Shaft -----                | PN 100-01B052-1 |
| 1 ea. Pedal Actuator Assembly (SUS.) ----- | PN 100-01C021-1 |
| 1 ea. Pedal Actuator Assembly (SOFT) ----- | PN 100-01C021-3 |
| 4 ea. Casters -----                        | PN None         |
| 1 ea. Hardware Kit containing:             |                 |
| 1 ea. Clamp Pad -----                      | PN 100-02B006-1 |
| 3 ea. #4 x 1/2" Clamp Pad Screws -----     | PN None         |
| 1 ea. Dashpot Spring -----                 | PN 100-02B149-3 |
| 2 ea. Depth Adjustment Stops -----         | PN 100-01B015-1 |

### STEP 11-2

Carefully inspect the Upper and Lower Cabinets and legs of the Vorsetzer for physical damage such as scratches, nicks, and dents.

### STEP 11-3

Carefully inspect each Solenoid plunger for missing tips, tips missing felt pads, and for bent shafts. Replace missing or defective parts at this time.

NOTE: Several of the following Steps are most easily done with the assistance of another person, therefore, if you have a helper, have him assist you.

STEP 11-4

Place padding on the floor in back of the Vorsetzer, then lay the unit over on its back on the padding.

STEP 11-5

Get the four (4) Casters and insert one in each of the legs. Seat them in the legs by giving them a firm tap with a rubber mallet, then lift the unit up on its feet.

STEP 11-6

Remove the Screws holding the Lower Assembly Guard, remove the Guard and set it aside.

STEP 11-7

Install the Pedal Actuators (PN 100-01C021-1 and PN 100-01C021-3) in the Lever Arms as shown in FIGURE 11-2.

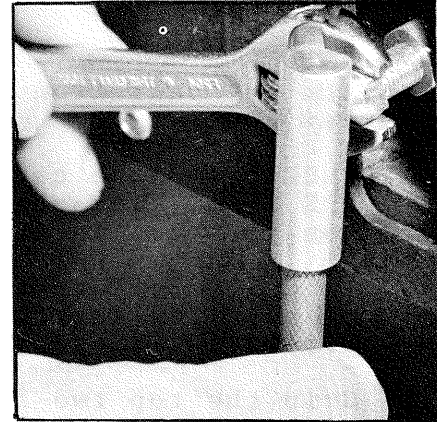


FIGURE 11-2 Install the Actuators.

STEP 11-8

Install the Depth Adjustment Stops at each end of the Vorsetzer in the position shown in FIGURE 11-3 below.

STEP 11-9

Roll the Vorsetzer up to the piano until it is a couple of inches in front of the Keyboard. See FIGURE 11-3 and the NOTE below.

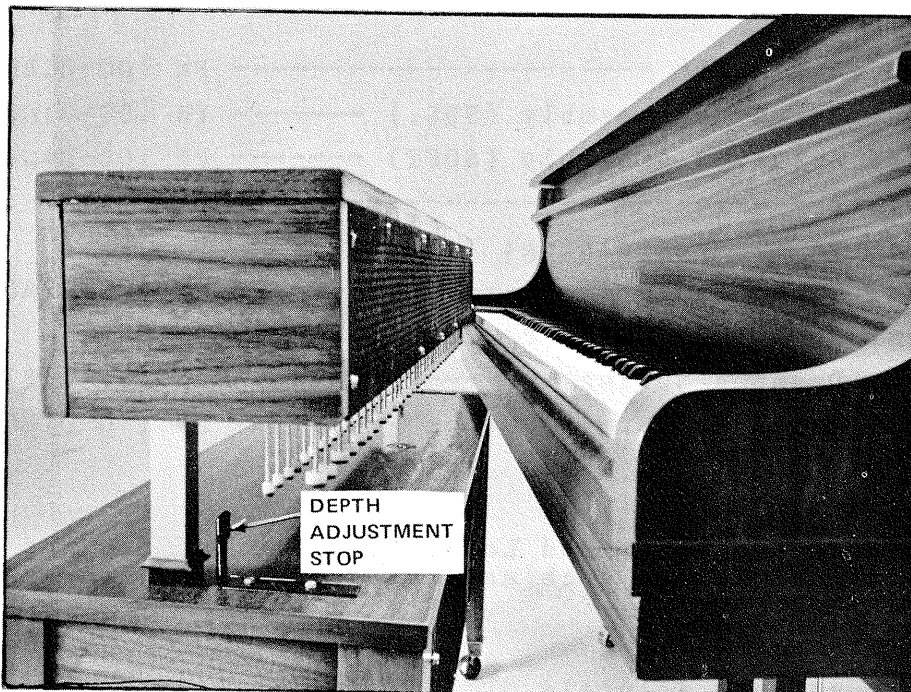


FIGURE 11-3 Roll the Vorsetzer up to the piano.

NOTE:

STEPS 11-10 and 11-11 are most easily done with the assistance of another person, therefore, if you have a helper, have him assist you.

CAUTION:

BEFORE AND DURING ADJUSTMENT OF THE UPPER CABINET ASSEMBLY HEIGHT, HOLD THE UPPER CABINET SUPPORT FIRMLY SO THAT THE UPPER CABINET CANNOT DROP AND DAMAGE THE KEY SOLENOID PLUNGERS.

STEP 11-10

Insert a Common Screwdriver into the holes in the end of the Vorsetzer (see FIGURE 11-4), grasp the Upper Cabinet Support FIRMLY near its base, and loosen the Height Adjustment Screws.

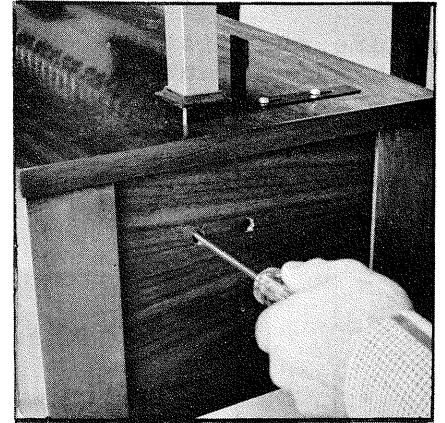


FIGURE 11-4 Insert the screwdriver in the hole.

STEP 11-11

Work the Upper Cabinet up until the Solenoid plungers are approximately 1" above the Keys, then snug down the Height Adjustment Screws.

STEP 11-12

Roll the Vorsetzer up to the piano, roughly center it on the Keyboard, and adjust its position forward or back until the wide Solenoid pads are positioned approximately at the front edge but fully over the BLACK Keys, then find the Middle C plunger and adjust the position of the Vorsetzer so that the Middle C plunger is centered on the Middle C Key.

STEP 11-13

Grasp the Upper Cabinet Support FIRMLY, loosen the Height Adjustment Screws, and GENTLY lower the Upper Cabinet until the plungers just touch the Keys as shown in FIGURE 11-5 below. Tighten the Height Adjustment Screws. See the CAUTION below.

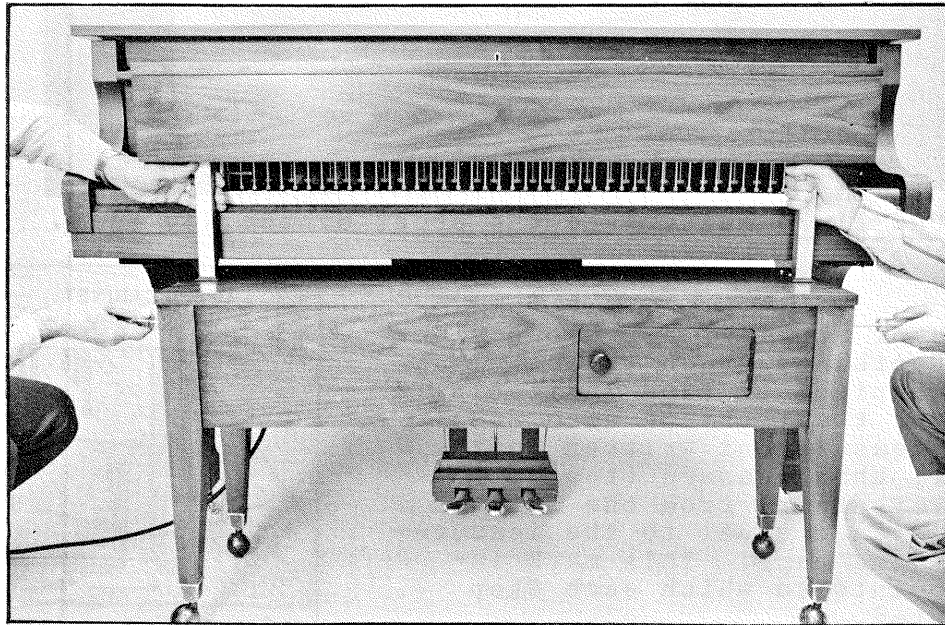


FIGURE 11-5 Lower the plungers to the Keys.

CAUTION:

HOLD THE UPPER CABINET SUPPORT FIRMLY SO THE UPPER CABINET ASSEMBLY DOES NOT DROP AND DAMAGE THE SOLENOIDS.

STEP 11-14

CAREFULLY readjust the position of the Vorsetzer until ALL the BLACK Key plunger Pads are sitting at the front edge but fully on the Black Keys as shown in FIGURE 11-6. Also make sure that the Middle C plunger is centered on Middle C.

STEP 11-15

Measure the distance from the FRONT of the Depth Adjustment Stops (located in front of the Upper Cabinet Supports) and the front of the Key Slip as shown in FIGURE 11-7. Write the measurement on a slip of paper for later reference.

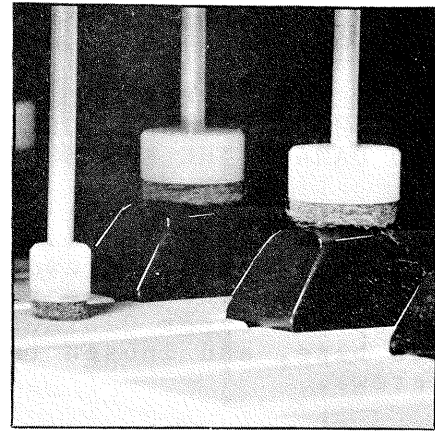


FIGURE 11-6 Plungers at the front of Black Keys.

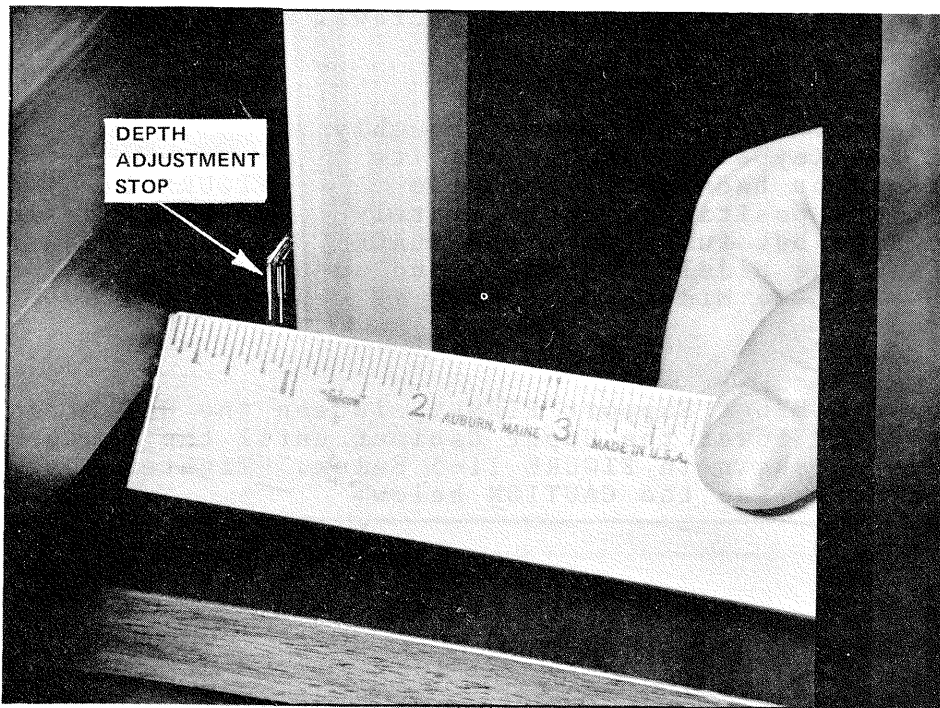


FIGURE 11-7 Measure to the front of the Key Slip.

STEP 11-16

Place a piece of masking tape along side each of the Depth Adjustment Stops. Make a mark on each piece of tape indicating the location of the front of each Stop. Refer to the measurement written on the slip of paper, then measure (toward the rear of the Vorsetzer) from the mark on the tape a distance equal to the measurement and mark the tape. This mark indicates the points to which each Stop must be adjusted.

CAUTION:

BEFORE MOVING THE UNIT IN THE NEXT STEP, MAKE SURE THE UPPER CABINET ASSEMBLY IS LOCKED IN THE UP POSITION.

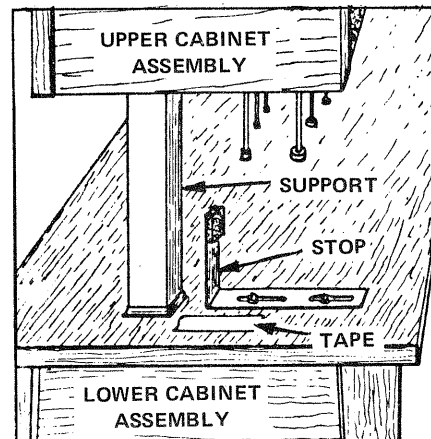


FIGURE 11-8 Place the tape along side each bracket.

STEP 11-17

Unlock the Upper Cabinet Assembly, tilt it back, and lock it in the UP position. Roll the Vorsetzer away from the piano to give yourself access to the Depth Adjustment Stop Screws, loosen the Stop Screws and adjust the Stops to the marks on the tape as shown in FIGURE 11-9, then tighten down the Stops Screws and remove the pieces of tape.

STEP 11-18

Roll the unit back to the piano and adjust its position until the Middle C plunger is centered over Middle C. Support the Upper Cabinet with one hand, unlatch it, and gently Lower it until it locks in the down (play) position.

STEP 11-19

Carefully adjust the position of the Vorsetzer until the Middle C plunger is centered on Middle C as shown in FIGURE 11-10.

STEP 11-20

If you are installing the unit on a grand piano, depress the SOFT Pedal to ensure that the plunger pads will still actuate the Keys after they are shifted. If necessary, adjust the position of the Vorsetzer so that all the plungers strike their Keys properly. See the NOTE below.

NOTE:

The spacing and position of the plungers and Pads has been calculated to allow the piano to play even when the Keys are shifted. It should be noted that the Pads will NOT be evenly aligned on all the Keys either before or after they are shifted.

STEP 11-21

Get the Centering Shaft (PN 100-01B052-1) insert it through the hole in the center of the Bottom Panel of the Vorsetzer (see FIGURE 11-11), screw it into the plate in the top of the Lower Cabinet Assembly until about 3/8" of the Shaft protrudes above the top of the Lower Cabinet Assembly.

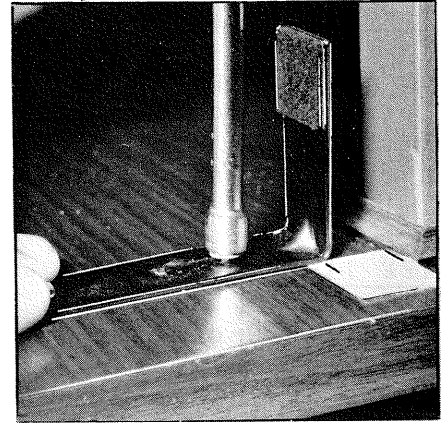


FIGURE 11-9 Adjust the Brackets to the marks on the tape.

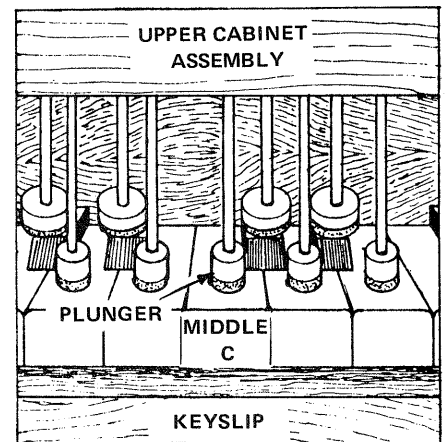


FIGURE 11-10 Plunger centered on Middle C.

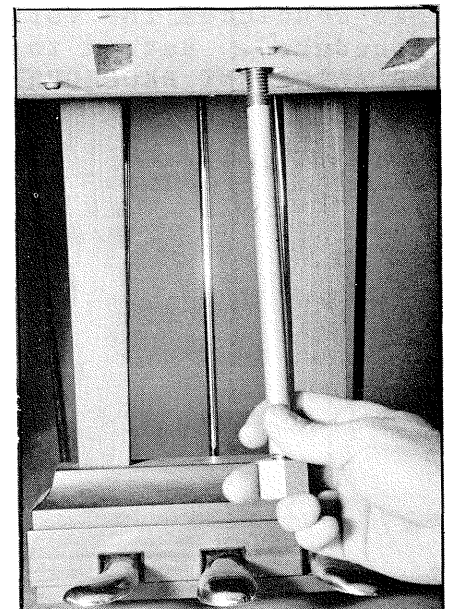


FIGURE 11-11 Insert the Shaft through the hole.

STEP 11-22

Get the Clamp Pad (PN 100-02B006-1), place a piece of Double-sided tape on the bottom of the Clamp Pad, then place the Clamp Pad on the Centering Shaft as shown in FIGURE 11-12.

STEP 11-23

Raise the Centering Shaft by turning it CLOCKWISE until the Clamp Pad is pressed firmly against the underside of the Keybed. Lower the Centering Shaft and the Clamp Pad should stick to the Keybed.

STEP 11-24

Unlock the Upper Cabinet and tilt it back until it locks in the UP position, then move the Vorsetzer away from the piano.

STEP 11-25

Insert a 1/16" bit in your electric drill, wrap a small piece of masking tape around it 3/8" from the tip, then drill 3/8" deep holes in the Keybed at the centers of the three (3) mounting holes in the Clamp Pad.

STEP 11-26

Secure the Clamp Pad to the Keybed with the three mounting Screws as shown in FIGURE 11-14.

This concludes the Vorsetzer installation procedures. Return to Section 9, TEST AND ALIGNMENT PROCEDURES, to align the system.

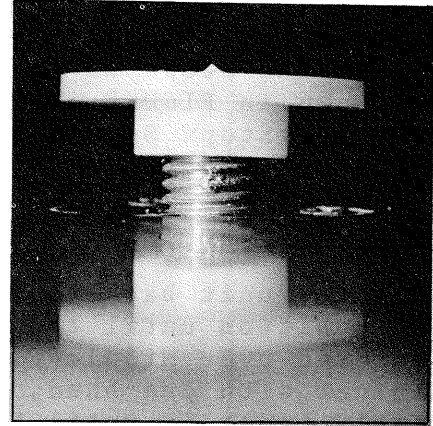


FIGURE 11-13 Place the Clamp Pad on the Shaft.

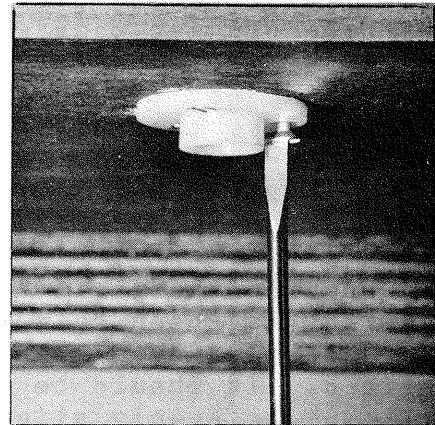


FIGURE 11-14 Secure the Clamp Pad to the Keybed.