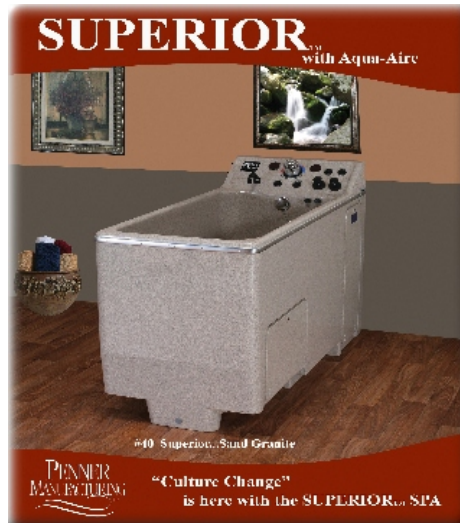


PENNER MANUFACTURING

Aqua-Aire
Sit-Bath System 6300
Installation / Assembly
Instructions



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Introduction:

These instructions are for the installation of a Superior Sit-Bath System 6300 Tub, the Penner-Lift, and the Penner-Transfer/Seat.

Terminology and Symbols Meanings:

When the terms “left” or “right” are used with reference to the tub, this means left or right as you look at the control panel from the seat end of the tub.



Meaning: Safety warning. Failure to understand and obey this warning may result in injury to you or to others.



Meaning: Failure to follow these instructions may cause damage to parts or systems.



Meaning: This is important information for proper use of this system or equipment.

Refer to the “Superior Tub Controls” section of this manual for the location of any of the controls referenced.

Space Requirements:

See Fig. 1 for “minimum space” required and Fig. 2 for “preferred space” requirements.

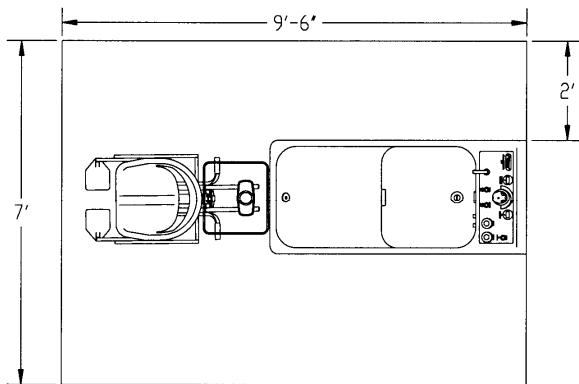


Figure 1
Minimum Space Required

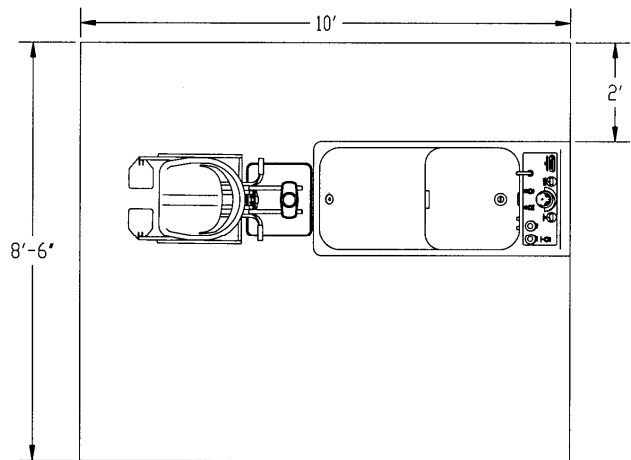


Figure 2
Preferred Space

Rough-In Requirements

Drain requirements: 2" drain – See Fig 3 or 4 for location.

Hot and cold water supply requirements:

3/4" supply lines with on/off valves with 3/4" NPT female threads. We recommend 3/4" ball valve with 3/4" NPT female ports. Valves supplied by others. See figure 3 or 4 for recommended locations.

For optimum performance, dynamic pressures should be nominally equal.

Maximum static supply pressure: 145 PSI.

Maximum dynamic/maintained supply pressure: 81 PSI.

Maximum supply Hot water temperature: Consult local requirements for maximum allowed supply temperatures. (Not recommended over 120°F)

Electrical requirements:

Codes in most locations require that circuits in "Wet" locations be provided with ground fault protection.

The Aqua-Air tub (rated at 13.3 amps at 120 Volts) a 15 amp GFCI breaker will work. See Fig 9 for location of field wiring connection point.

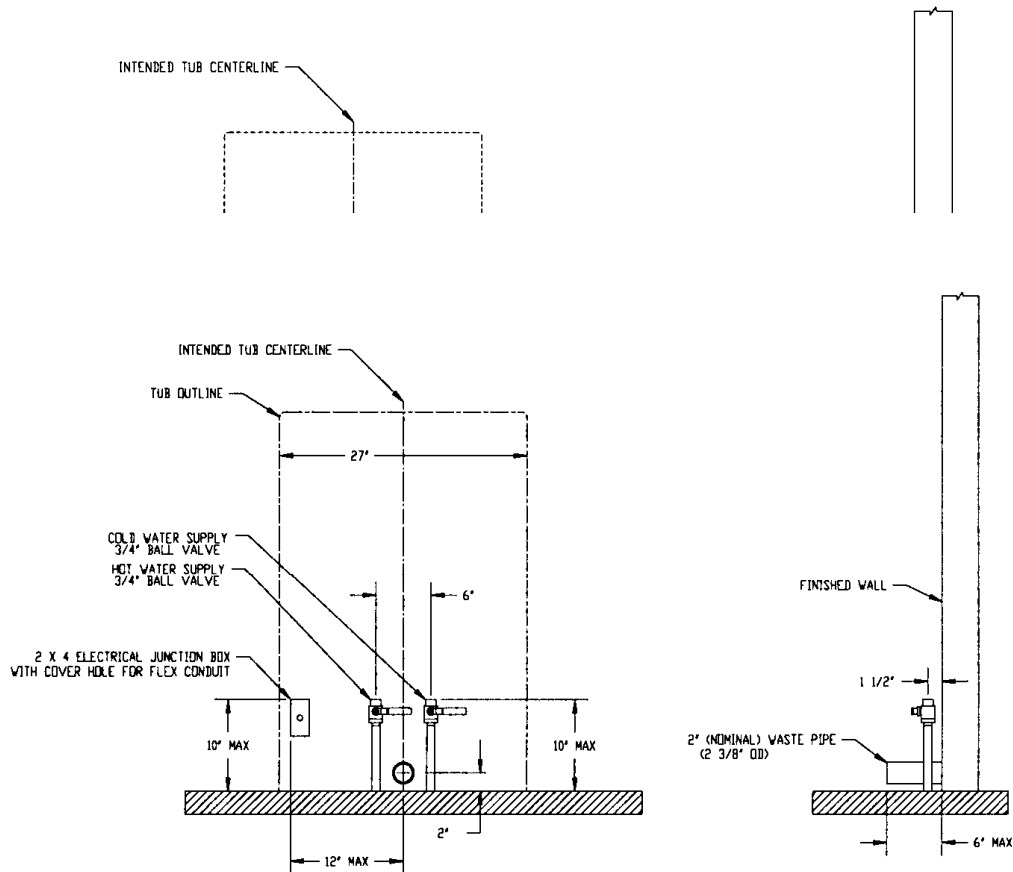


Fig 4

Rough-in with water supply coming from the floor and wall drain.

Note: A floor drain can be used with the water supply coming from the floor and a wall drain can be used with the water supply coming from the wall.

Unpacking the Superior tub

1. Remove the tub from the box or crate.

Unpacking the Penner-Lift

2. Unpack the Penner-Lift from the shipping carton by first removing the band at the bottom of the carton.
3. Open the top of the carton, remove and save for later use, the “lift base template”. (All other packing materials can be discarded)
4. Remove the outer carton by lifting it up and off of the Penner-Lift.
5. Remove the (two) screws holding the lift base cover. Remove the base cover escutcheon. Raise the base cover, rotate it and set it back down so you can get to the shipping bolts and nuts in two of the corners of the base.
6. Remove shipping bolts and nuts from the plywood used to protect the base during shipping. Discard the plywood and shipping bolts. Retain the mounting kit (Rockite box) packaged with the lift.

Anchoring the tub

These instructions for anchoring the tub are written with the assumption that the installation is being done on a concrete floor. If this is not the case, the tub can be anchored with simple lag screws (not provided). There are three anchoring holes for anchoring the tub. See figure 5.

7. Position the tub in the intended installed location.
8. Mark the anchor hole locations on the floor. See figure 5.
9. Remove the tub and drill three 5/16” diameter x 1 1/2 inches deep holes in the floor at the marked locations. A masonry drill will be required.
10. Clean the drilled holes and tap the provided anchor studs into the holes. Ensure that you do not tap the studs in too deep.
11. Remove anchor nuts and washers.

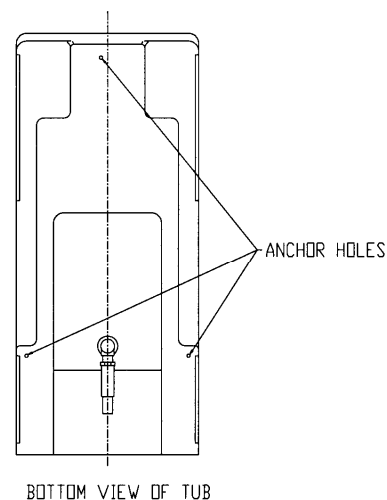


Figure 5
Tub anchor hole locations

12. Place the tub back into position, over the anchors. This may require more than one person.
13. Replace washers and nuts onto the anchor stud and tighten down.

Anchoring the Penner-Lift:



These instructions for anchoring the Penner-Lift are written with the assumption that the installation is being done on a concrete floor. If this is not the case, the anchoring system of the lift will have to be specified by an architect for the floor involved.

14. Position the provided lift base template in position as shown in figure 6. The template must be centered and against the end of the tub.
15. Tape the template to the floor and mark the anchor locations on the floor. Remove the template.
16. Drill 1" diameter holes 2 7/8" deep with masonry drill. Vacuum all loose materials from the holes and the work area.
17. Assemble the anchors to the bottom side of the template, with the provided 7/16 x 3/4 inch hex bolts in the four corner holes. Place the template with anchors into the drilled holes to ensure a proper alignment and depth.
18. Mix Rockite cement according to instructions in the kit. Pour the mixture into the holes to within 1 inch of the top of the holes (to provide for displacement by the anchors).
19. With the anchors still attached to the template, push them into the holes immediately. Make sure each anchor is firmly pushed in enough so that the template is flush on the floor. Let set for 30 minutes, then remove the bolts, template, and excess Rockite from the floor. (Discard the 7/16 x 3/4-inch hex bolts and template.)
20. Screw the conduit assembly into the lift base. See figure 7.
21. Carefully move the lift into position while inserting the end of the conduit assembly into the hole at the end of the tub. Align the anchoring holes in the base over the anchors.

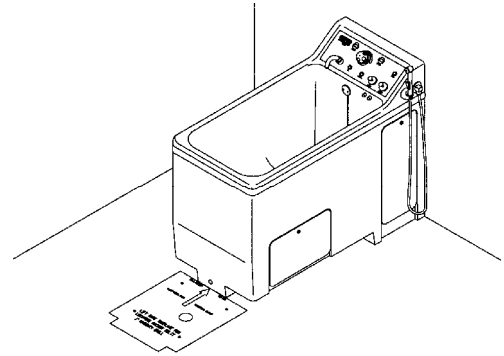


Figure 6
Positioning of lift base template.

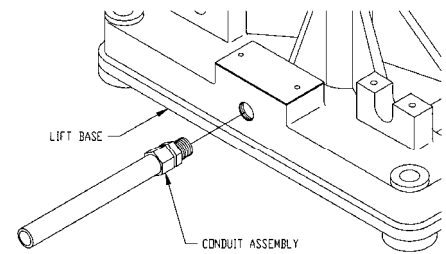


Figure 7
Conduit assembly

22. If the floor is not level, use the 7/16-inch flat washers provided as shims to level the base so the lift column is plumb. See figure 8. Install the provided anchor bolts using minimum torque until you are sure that the lift is plumb. Then tighten the bolts until the hex portion of the bolt twists off. (This ensures the bolts are properly torqued)

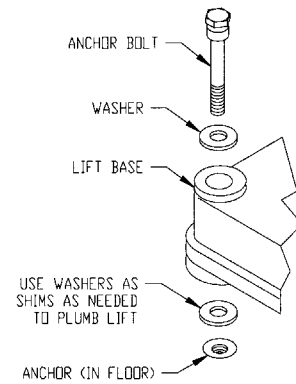


Figure 8
Shimming the Lift Base.

Electrical Connection of the Penner-Lift



This unit is to be connected only by a licensed electrician.

23. Remove the 2" x 4" cover from the junction box of the lift base.
24. With the small doors removed from the tub, find the power cord for the lift. It will be taped to the tub end wall near the point where the conduit enters the tub. Feed the cord through the conduit and into the junction box of the lift.
25. Connect the power cord per the instructions on the Penner-Lift electrical box cover.
26. Replace the base cover and escutcheon. Install the base cover screws.

Electrical Connection of the Superior



This unit is to be connected only by a licensed electrician.

The Aqua-Air tub is rated at 13.3 amps at 120 volts. So a minimum of 15 amp GFCI circuit is required.

27. Remove the tall door on the left side of the tub. Remove the cover of the electrical enclosure. Inside will be a female disconnect terminal connected to the circuit breaker at the locations labeled "L". This is to be used for making the field connection to the circuit breaker. The neutral wire is to be connected to the neutral bar labeled "N". The "protective earth" (ground) block is also labeled. See figure 10.
28. Find the facility's electrical junction box meant for powering the tub. Remove the cover and check that there is no power to this circuit.

29. Run flexible conduit and the proper size wires, from the facility's junction box to the connecting point of the tubs electrical enclosure. See figure 9.

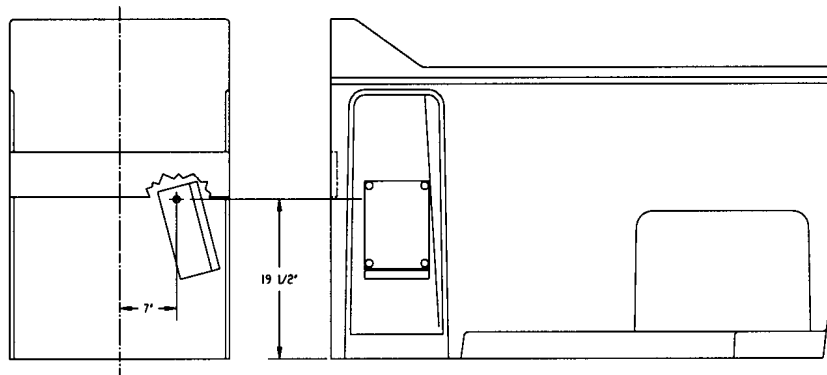


Fig 9
Electrical Enclosure Location

30. Connect the ground to the “protective earth” (ground) block.
31. Use the provided female disconnect wire terminals to connect the “line” wire to the circuit breaker tab marked “L” and the “neutral” wire to the “neutral bar” marked “N”.
32. Replace the electrical enclosure cover. With the tub's circuit breaker switch in the “OFF” position, turn “ON” the circuit to the tub.

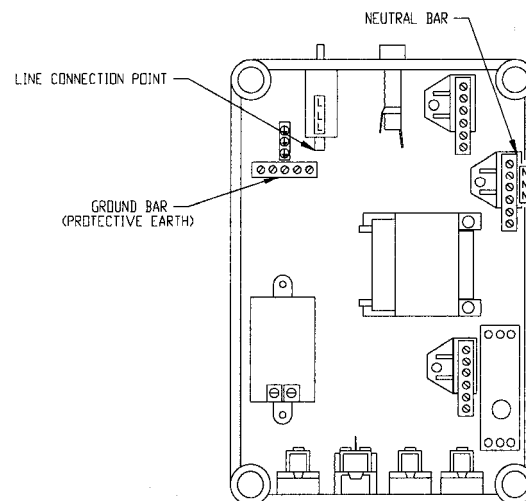


Fig. 10

33. Switch the tub's circuit breaker to the “ON” position. The temperature gauges should now display a temperature reading.
34. Check that the Penner-Lift is operable by depressing the “UP” pedal. The lift column should rise while the “UP” pedal is depressed.

Plumbing Connections

A qualified plumber should make all the plumbing connections. This would include the hot and cold water supplies and the drain connection.

35. Flexible connecting hoses with stainless steel reinforcement have been provided for connecting the hot and cold water supplies. Connect the rigid end of the connecting hoses to the facility supply valves. Then connect the swivel end to the appropriate tub connections. Be sure to use the sealing washers provided with the hoses.
36. The drain pipe is 2" nominal PVC pipe size (2 3/8" actual outside diameter). It can be connected from the horizontal position or pointed down (vertical position) if connecting to a floor drain pipe. See fig. 11

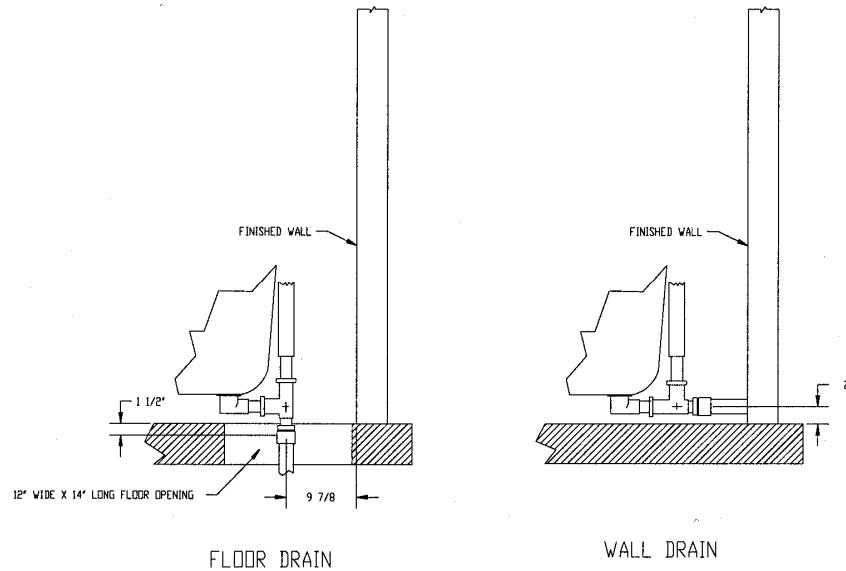


Fig. 11
Drain connection options.

37. Once all the plumbing connections have been made, open the facility's supply valves to the tub and check for leaks. If no leaks are found, check the entire plumbing system for any leaks. Look for leaks while each of the following systems are running: "Tub fill", "Shower", and "Disinfecting". (Also "Rinse" on Aqua-air tubs.)

Penner-Transfer Assembly

38. Remove the Penner-Transfer frame and parts from the shipping carton.
39. Place right and left arms on the wheel frame assembly as shown in figure 11. Secure the arms with 1/4-inch x 1 3/4-inch screws and acorn nuts. Tighten securely.
40. Attach the seat bumper assemblies with screws and acorn nut as shown in Figure 12 and tighten securely.
41. Remove the seat from the shipping carton.
42. Assemble the transfer plate as shown in figure 13, leaving the screws loose.
43. Place the seat on the Penner-Transfer and engage the safety latches.

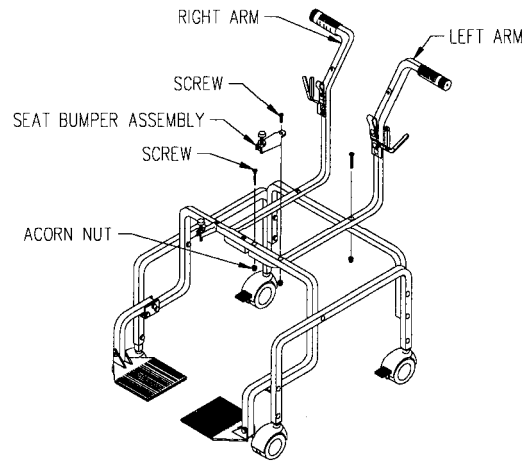


Fig. 12

If you are installing a scale, follow the instructions provided with the scale, and continue with step 47.

44. Remove the safety screw from the upper arm. Reference Fig 14.
45. Loosen the set screws and slide the upper arm out of the column clamp.
46. Replace the upper arm into the column clamp. Slide it in just far enough to re-install the safety screw. Continue with step 51.

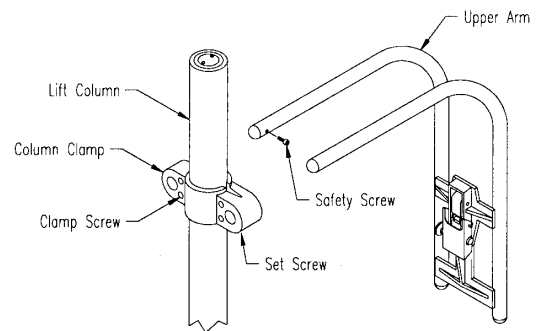
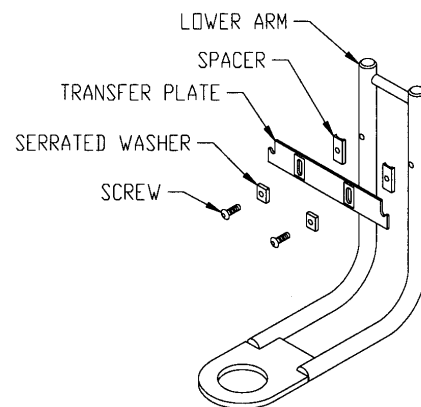


Fig 14
Upper Arm/Column Clamp

Scale Installation

47. Open the scale carton. Remove only the column clamp-load cell-arm assembly.



Warning! This assembly weighs approximately 55 pounds. Have someone help in handling and supporting it while adjustments are made.

48. With the lift in the lowest position, place the arm assembly over the column and slide it down with the arm in the tub. Set it at a position so that it is 1/2 inch above the tub rim.
49. Tighten four clamp screws enough to support the weight itself and the weight of the seat. Raise the lift and swing the arm assembly out of the tub. Lower the lift to a point that the inverted hooks are approximately 1" above the height of the cross bar of the seat lower arm.

50. Back the Penner-Transfer with seat into the hook up position as shown in the center illustration in fig 17.

51. Use the seat bumpers adjustment and the transfer plate slots, to adjust the alignment of the lower arm (on the seat) to the upper arm (on the lift) so that they are parallel "front to back" (see fig 16) and "side to side". Adjust the Penner-Transfer and seat for perfect alignment of the lower arm to the upper arm. It is best to make the final adjustments with at least 150 lbs of weight or a person sitting in the seat.

NOTE

This adjustment is very important for the easy "hook-up" of the seat to the lift.

52. Once the adjustments to align the upper to the lower arms have been made, hook the lower arm to the lift by doing the following.

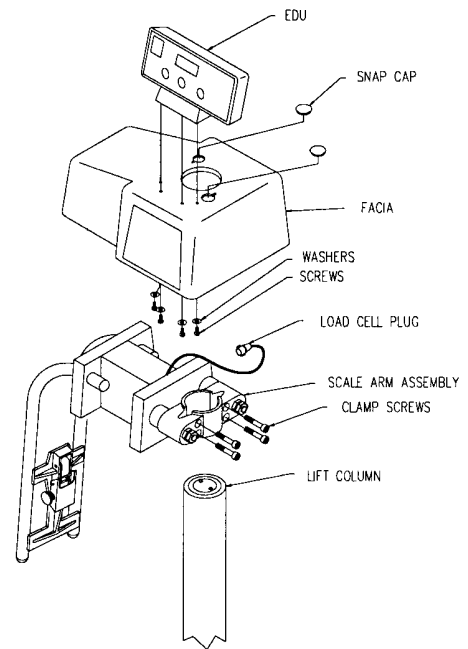


Fig 15
Scale Assembly

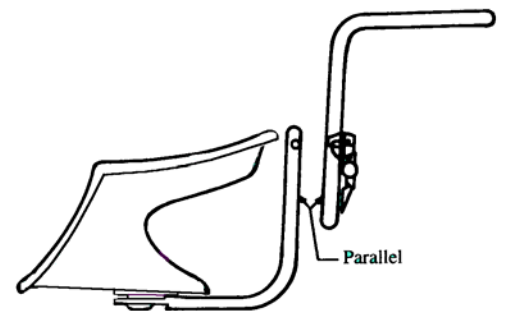
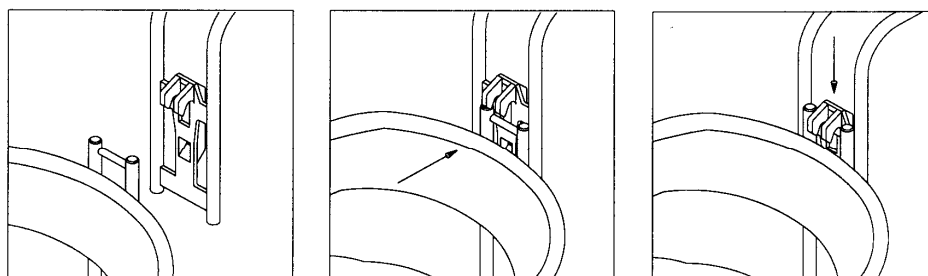


Fig 16

53. Ensure that the latch is in the open position. Open the locking mechanism of the upper arm by sliding the lock pin (marked “PUSH”) to the open position (red ring showing). Open the green cover and pull the small tang to open the latch. You can then allow the green cover to close.

Hooking the Seat to the Lift



Start

Back in
Figure 17

Lower Lift

54. Back up the Penner-Transfer with seat to the upper arm. (See figure 17) Lower the lift so that the inverted hooks of the upper arm come down over the cross bar of the lower arm until the mechanism locks. Push in the locking pin marked “PUSH” (green ring will show).
55. Release the safety locks (red handles), and raise the seat up to the maximum height for the lift. (The lift will make a different sound when it hits the top). Release the up pedal. Momentarily press the down pedal. Rotate the seat over the tub. Depress the down pedal and lower the seat into the tub until the lift stops – the lowest position for the lift.
56. Slide the upper arm/seat back toward the column clamp until the clearance between the green plastic latch and the inside wall of the tub is about 1 inch.
57. With the lift in the lowest position, check the clearance between the lowest part of the seat (bottom of the lower arm) and the seat of the tub. There should be 3/4 to 1 1/4” clearance. If there is not enough clearance or too much clearance, it will be necessary to adjust the position of the column clamp on the column.

CAUTION

Failure to ensure this clearance could result in damage to the tub.

Adjustment of Upper Arm:

58. To adjust the height of the column clamp (or scale arm assembly), loosen the four clamp screws. A hex key was provided with the lift anchor kit.



The column clamp, upper arm, and seat are very heavy. While loosening and adjusting the height of the column clamp, have another person helping to support the weight.

59. Re-tighten the four clamp screws and recheck the seat to tub clearance. If the proper clearance is there, torque the clamp screws to 40 ft lbs. Raise the lift high enough to rotate the seat out of the tub. Lower the lift and place the seat on the Penner-Transfer. Ensure that the transfer plate has engaged properly onto the pins properly. Secure the safety latches.

60. Release the seat from the lift by moving the slide lock pin (marked "PUSH") to the open position (red ring showing). Opening the green latch cover and pulling the small tang that opens the latch. While holding the latch open, raise the lift by about two inches. Release the latch and latch cover. Roll the Penner-Transfer and seat away from the lift.

(Standard Arms only)

61. Raise the lift and rotate the upper arm into the tub. Lower the lift to its lowest position.

62. Slide the upper arm toward the column clamp until the clearance between the green latch cover and the tub wall is about 1".

63. Tighten the column clamp set screws.

(Scales only)

64. Fasten the electronic display unit to the facia with the screws and washers provided.

65. Slide the facia assembly down over the column of the lift. As the facia is being lowered into position, feed the load cell cable through the opening in the facia. Check that the cable is not going to interfere with snapping the facia in place. Snap the facia into place on the load cell support arms.

66. Install the load cell plug into the socket on the back of the electronic display unit. Ensure that the connector-coupling ring is fully locked into position. Place the snap cap in the opening on the facia.

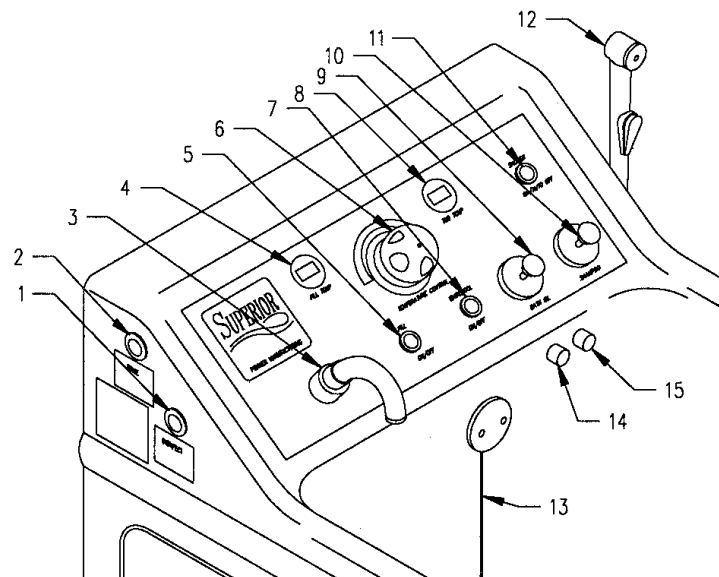
The installation of the Superior tub and Penner-Lift is now complete.



Warning!

Do not attempt to operate this equipment before an authorized Penner Representative inspects it and selected personnel are trained in the operation of the equipment. The use of this equipment before inspection, adjustment, and training by the Penner Representative could result in damage to the equipment or injury to the operator and resident. Please call 1-866-736-6377 or 1-800-732-0717

Tub Controls



- 1 Disinfect button
- 2 Rinse button (Aqua-Air tubs only)
- 3 Filling spout
- 4 Fill / Shower water temperature readout
- 5 Tub fill ON/OFF button
- 6 Mixing valve – Temperature control
- 7 Aqua-Air ON/OFF button
- 8 Tub water temperature readout
- 9 Bath oil dispensing pump plunger
- 10 Shampoo dispensing pump plunger
- 11 Shower ON button (The unit has an adjustable time automatic shut-off)
- 12 Hand shower sprayer
- 13 Drain plug cable
- 14 Bath oil dispensing spout
- 15 Shampoo dispensing spout

For your nearest distributor, contact:

PENNER PATIENT CARE, INC
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