



Installation Instruction for the Alternative 4442 Cart System

Note: If product is received in the U.S. Cart is fully assembled, simply remove from box and skip to step 9 in instructions.

You will need the following tools and materials to assemble the 4442:

This package contains three assemblies:

- A. H-frame cart.
- B. Control unit.
- C. Economy vacuum package

- ◆ 3/4" box-end wrench.
- ◆ 3/32" hex key.
- ◆ Level.

The H-frame cart assembly contains the following items:

- ◆ One H-frame with caster fittings pre-installed.
- ◆ A separate box containing:
 - One telescoping post assembly.
 - One height adjustment collar.
 - One post mounting bolt (1/2" x 13).
- ◆ A hardware kit containing:
 - Four casters.
 - One height adjustment knob with threaded shaft.
 - Four 1.75" diameter plugs.
 - Two .75" diameter plugs.

- ◆ 1/4" and 1/8" sleeve tools.
- ◆ 1/4" and 1/8" sleeves.
- ◆ 5/8" hose adaptor (provided) and 5/8" tubing, if your vacuum source is 5/8".
- ◆ Large barb fitting for vacuum connection (recommended).

The control unit assembly contains the following items:

- ◆ One control unit with handpiece tubings and umbilical tubings attached.
- ◆ One standard syringe.
- ◆ One syringe kit.
- ◆ One standard foot control.
- ◆ One 3/32" ball driver.

To assemble the H-frame cart:

1. Remove all the parts from their packages and put them on a table.
2. Hold the H-frame upright on the table and thread the post mounting bolt through the hole in the cross-piece. Thread the mounting bolt into the threaded hole in the bottom of the telescoping post assembly. Tighten the bolt snugly (40-50 ft-lbs) with a 3/4" box-end wrench. (*Figure 1*)

The economy vacuum package assembly contains the following items:

- ◆ One vacuum canister, with removable screen.
- ◆ One saliva ejector valve.
- ◆ Two HVE valves.
- ◆ Saliva ejector and HVE's are connected to vacuum canister with six foot tubing.
- ◆ One 1/2" drain tube, connected to the canister.
- ◆ One 5/8" hose adaptor.

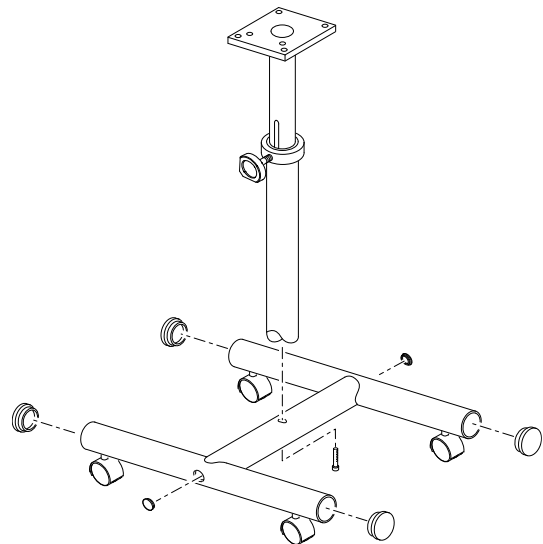


Figure 1

3. Press the casters into the fittings on the bottom of the H-frame. The clip rings on the casters provide a friction fit.
4. Press the four 1.75" diameter plugs into the ends of the H-frame tubes. Press the .75" diameter plugs into the holes in the cross-piece (*Figure 1*). Set the cart frame on the floor.
5. Thread the height adjust knob into the height adjust collar. Slide this assembly over the telescoping post assembly, and position it so that the end of the knob is over the hole in the outer post. Thread the knob into the hole, just far enough to allow the collar to stay in place. (*Figure 1*)
6. Lift the inner post about four inches and rotate it. You will see a 3/8" slot in the post. Rotate the inner post until the slot is aligned with the height adjustment knob. Thread the knob through the slot to the opposite wall of the inner post (*Figure 1*).

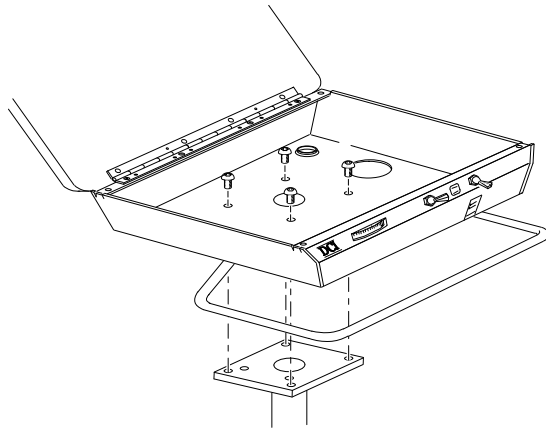


Figure 2

7. To adjust the height of the post:
 - a. Loosen the knob.
 - b. Raise the inner post to the desired height. The slot in the inner post provides a minimum and maximum stop height for the post assembly.
 - c. Tighten the knob against the inner post.
8. To assemble the control head to the cart:
 - a. The post mounting plate is attached to the base of the control head assembly. The plate has a round fitting with four set screws for the post. Position the fitting over the inner post on the cart.
 - b. Level the control head and tighten the set screws using a 3/32" hex key. (*Figure 2*)

9. To install the vacuum package:
 - a. Route the saliva ejector, the two HVE's, and the drain tube through the 2" diameter hole in the base of the control unit (*Figure 3*).
 - b. Press the bracket on the vacuum canister into the mounting bracket next to the 2" diameter hole. The canister fits over the hole (*Figure 3*).
 - c. Place the SE and the HVE's in their holders.
10. To make utility connections:
 - a. Route the 1/2" drain tube from the vacuum package to the utility center and connect it to the vacuum source.
 - b. Route the 3/4" umbilical to the utility center. Connect:
 - 1/8" red to regulated water.
 - 1/4" gray to regulated air.
 - c. Open the manual shut-off valves in the utility center. Adjust regulated air to 80 p.s.i. and regulated water to 40 p.s.i. The mini-regulators are non-relieving. When adjusting for a lower pressure, make the knob adjustment, then press the syringe button to relieve pressure and give an accurate gauge reading.
 - d. The handpiece pressure gauge is on the left side of the faceplate. The water coolant on-off toggle is on the right. Water coolant flow control knobs are on the underside of the control head.

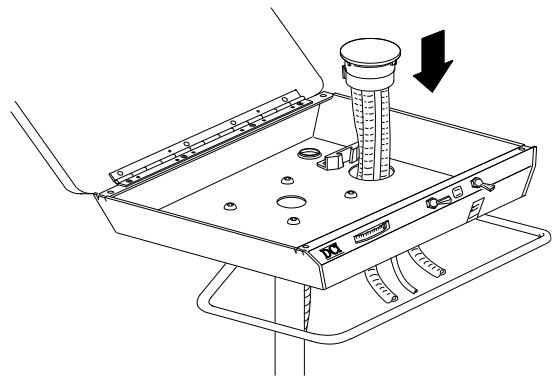


Figure 3

- e. Adjustment screws for the handpieces and the syringe can be reached through holes in the base of the control head. Use the 3/32" ball driver to adjust handpiece pressures to the manufacturer's recommendation.
- f. Handpiece selection is automatic when the lockout toggles on the holders are positioned toward the red dot.