Your new Aseptico ADC-02 portable hydraulic dental chair provides patient seating for field dentistry and is engineered to provide years of reliable service. Please read the instructions provided in this manual to receive the best service from your Aseptico equipment.

**FEATURES**
- Easy and quick set-up
- Hands-free hydraulic operation; no external power required
- Chair height and backrest adjustable with patient in chair
- 300 lb (136 kg) load capacity
- Wheels allow chair to be easily moved
- Chair folds down into a compact package
- Quality vinyl upholstery and adjustable pillow headrest
- High-strength steel frame and corrosion-resistant hardware

**ITEMS FURNISHED**
- Portable hydraulic dental chair [PN ADC-02]
- Operation/maintenance manual & parts list [PN 421064]

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SETUP AND OPERATION

1. **UNPACKING:** Using two people, lift the chair A from the shipping box and set it on the floor.

2. **MOVING INTO POSITION:**
   Pull out the stabilizer A and use it as a handle to tilt the chair up onto its wheels B, then roll the chair to where it will be used.

   **WARNING:** The backrest strap C must always be securely fastened when tilting the chair upright to prevent injury or damage caused by the backrest suddenly opening.

3. **CHAIR PREPARATION:** Set the chair down with its feet on the floor. Make sure that the stabilizer A is fully extended. Adjust the leveling foot B as needed to compensate for an uneven floor. Remove the backrest strap C from the chair and save for reuse.

   **WARNING:** The stabilizer must be fully extended and the leveling foot properly adjusted to reduce chair tipping hazard. The floor under the chair must be hard and level.

4. **SELECTOR LEVER LABELS:** Locate the 2 selector lever labels A on opposite sides of the chair base. These labels show the selector lever positions for lifting and lowering the seat and the backrest.

   ![Selector Lever Labels](image1)

   The selector lever can be operated hands-free from either side of the chair.

5. **SEAT LIFT:** Rotate the selector lever A to the SEAT LIFT position (as shown on the label B) then pump the lift lever C with your foot until the chair reaches the desired height.

   ![Seat Lift](image2)

6. **SEAT LOWER:** Press down and hold the selector lever A in the SEAT LOWER position (as shown on the label B) to lower the chair.

   ![Seat Lower](image3)

**EXTENDING THE SELECTOR LEVERS**

The selector levers can be extended outward to make them easier to reach. Depress the locking button A on the selector lever tube, then slide the selector lever out until the locking button pops out of the second hole B on the tube.

![Extending Selector Levers](image4)
SETUP AND OPERATION (Continued)

7. CONNECTING BACKREST CYLINDER: Lift the backrest \( A \) upright while simultaneously guiding the clevis pin \( B \) on the end of the backrest cylinder into the latch \( C \) on the backrest frame, until they have securely latched \( D \).

**WARNING:** Make sure the clevis pin is centered in the latch and not off to one side. Both ends of the clevis pin must be securely latched.

8. BACKREST LIFT: Rotate the selector lever \( A \) to the BACKREST LIFT position (as shown on the label \( B \)) then pump the lift lever \( C \) with your foot until the backrest reaches the desired height.

**WARNING:** Never attempt to raise the backrest by lifting up on the backrest manually, as this may pull air into the hydraulic system! Only use the lift lever to raise the backrest.

9. BACKREST LOWER: Press down and hold the selector lever \( A \) in the BACKREST LOWER position (as shown on the label \( B \)) to lower the backrest; it may be necessary to manually push down on the backrest to help it recline.

10. CHAIR PANELS: Unfold the leg panel \( A \) and foot panel \( B \).

**WARNING:** The leg and foot panels must not be used for seating to reduce chair tipping hazard. Patients must only be seated on the main seat panel.

11. ARM SLINGS: Fold out the hand grips \( A \) on the arm posts, then insert the hand grips into the ends of the arm slings \( B \).

**NOTE:** The arm slings \( C \) can be folded up to make it easier to get in and out of the chair.

12. PILLOW: Adjust the height of the pillow \( A \) as needed by adjusting the pillow straps \( B \) on the rear of the backrest.

**NOTE:** CLEARING HYDRAULIC LOCKUPS

Rotate the selector lever back and forth to clear a lockup. A lockup may occur while lowering the seat if the backrest frame comes into contact with the lift lever, causing a conflict between simultaneous lifting and lowering hydraulic operations.
CLEANING AND MAINTENANCE

CLEANING

Clean the upholstery by wiping with a soft cloth moistened with a mild detergent. Although not recommended, bleach diluted to <10% with water can be used but must be wiped dry immediately. The use of solvents or other solutions may cause damage and void the warranty.

The use of barrier covers will greatly extend the life of the chair upholstery.

PURGING AIR FROM THE HYDRAULIC SYSTEM

If the hydraulic operation of the ADC-02CF feels soft or jerky, the system may need to be purged of air.

With normal use, small amounts of air can enter the hydraulic system. Air may be in the pump, seat or backrest cylinders. Since air will always rise to the top of contained hydraulic oil and there are no bleeder valves, special procedures are required to purge air from the cylinders:

1. QUICK PURGE: Put the selector lever (Fig. 1 A) in the SEAT LIFT position and pump the lift lever (Fig. 1 B) with several brisk full strokes. This may simply resolve the problem. If the hydraulic operation is still not satisfactory, proceed to step 2.

2a. PUMP CYLINDER PURGE: Put the selector lever (Fig. 2 A) in the SEAT LIFT position and hold it there so you can access the rubber bump stop (Fig. 2 C). Remove the rubber bump stop by twisting and pulling on it.

2b. The object now is to force the pump piston all the way into the pump cylinder to purge any trapped air. You will need a flat-blade screwdriver with shaft diameter of 3/8” or larger. Push the lift lever all the way down with one hand and with the other hand, place the tip of the screwdriver (Fig. 3 A) between the pump roller (Fig. 3 B) and pump piston (Fig. 3 C). As you allow the lift lever to come up, wedge the screwdriver further down between the pump roller and pump piston. It may take a couple of strokes to wedge the screwdriver in far enough until the lift lever stops where the pump piston has “bottomed out” and all the air has been purged.

If the seat reaches full height before you are able to push the pump piston all the way in, you will need to lower the seat part way to continue.

Complete this operation by reinstalling the rubber bump stop removed in step 2a. If the hydraulic operation is still not satisfactory, proceed to step 3a.

3a. SEAT CYLINDER PURGE: Raise the seat (Fig. 4 A) and the backrest (Fig. 4 B) all the way up. Tie the arm slings (Fig. 4 C) loosely over the pillow. Fully extend the stabilizer (Fig. 4 D).
3b. Using the stabilizer (Fig. 5 A) as a handle, tilt the chair up on its wheels until the lift lever (Fig. 5 B) touches the floor; use your foot to keep the base of the chair (Fig. 5 C) from suddenly rolling towards you. Hold the chair in this position and note that the hose end of the seat cylinder (Fig. 5 D) is now oriented up so that any air in the cylinder will be near the hose fitting.

3c. While holding the chair in this position, press and hold the selector lever (Fig. 6 A) in the SEAT LOWER position. The seat will move towards the base, compressing the seat cylinder and draining oil and any air out of the seat cylinder. As the seat (Fig. 6 B) moves toward the base, the backrest will approach the floor. Tilt the chair towards yourself just enough to keep the backrest off the floor so the seat can continue compressing. When the seat has compressed most of the way, this operation is complete. Tilt the chair down with its base on the floor, then test the hydraulic operation.

If the hydraulic operation still feels soft or jerky, it may be necessary to perform steps 1 and 2 (page 5) one last time to firm up the action of the lift lever. If that doesn’t resolve the issue, proceed to step 4a.

4a. BACKREST CYLINDER PURGE: If the backrest hydraulics feel soft or jerky, this step may be desired. Start with the backrest (Fig. 7 A) fully up, the seat (Fig. 7 B) halfway up, and the stabilizer (Fig. 7 C) fully extended.

4b. Lift the stabilizer and place it on an elevated surface such as a stool (Fig. 8 A) so that the chair is tilted at approximately 30°. Note that the hose end of the backrest cylinder (Fig. 8 B) is now oriented up so that any air in the cylinder will be near the hose fitting. Place one hand on the seat and push down with your other hand on the backrest (Fig. 8 C) while simultaneously holding the selector lever (Fig. 8 D) in the BACKREST LOWER position with your foot. The backrest will recline. When the backrest is completely down, this operation is done. Put the chair down with its base on the floor, then test the hydraulic operation.

If the hydraulic operation still feels soft or jerky, it may be necessary to perform steps 1 and 2 (page 5) one last time to firm up the action of the lift lever. If that doesn’t resolve the issue, proceed to the next section and check the hydraulic oil level.
ADDING OIL TO THE HYDRAULIC SYSTEM

With prolonged use, small amounts of oil may leak out of the hydraulic system and need to be replenished. Check the oil level if:

- The hydraulics begin to feel sluggish or jerky and purging air out of the system (page 5) does not resolve the issue.
- The seat or backrest do not reach their maximum height when being raised.

1. Press down and hold the selector lever in the BACKREST LOWER position (Fig. 9 A) while simultaneously pushing down on the backrest (Fig. 9 B) until it is fully reclined.

2. Disconnect the backrest latch from the backrest cylinder and fold the backrest forward, over the seat.

3. Using a 1/4” Allen wrench, remove the oil FILL plug (Fig. 10 A) from the pump cylinder.

   Do not remove the other two plugs on the pump—doing so will introduce air into the hydraulic lines.

4. Press down and hold the selector lever in the SEAT LOWER position until the seat is fully lowered. This will cause the hydraulic oil to rise to its maximum level inside the reservoir.

5. Using a small mirror and a flashlight, look down into the oil fill port and observe the oil level. The oil (yellow-green) should come up to the bottom of the threads (Fig. 11 A). If not, top off with a premium quality, medium-grade hydraulic oil (ISO VG 46, SAE 15), such as Mobil DTE 25.

7. Reinstall the oil fill plug while the chair is still collapsed.

   Whenever hydraulic oil has been added to the system, the system should be purged of any air that might have infiltrated the system (see Purging Air From the Hydraulic System, page 5). Confirm that the hydraulics work properly before resuming patient procedures.
REPACKING THE CHAIR

In the event that your chair requires service or repair, please call the Aseptico customer service department at (800) 426-5913 –or– (425) 487-3157 to arrange for shipment and obtain a Return Authorization number. If you do not have the original shipping container and packaging materials, please request these items from customer service before attempting to repackage chair.

1. Remove the arm slings from the ends of the arm posts, then tuck the arm slings into the frame on the rear of the backrest.

2. Rotate the arm posts down just below the seat frame, then fold in the hand grips (Fig. 12 A).

Make sure the hand grips are positioned below the seat frame before proceeding or damage to the upholstery may occur when folding the leg and foot panels closed.

3. Place a piece of foam (Fig. 13 A) overlapping the seat and backrest panels. Tie two small pieces of foam (Fig. 13 B) around the arm post pivots. Fold the foot and leg panels closed onto the seat panel.

4. Flip the pillow (Fig. 14 A) over to the rear side of the backrest. Detach the backrest latch from the cylinder, then fold the backrest down onto the seat panel.

5. Retract selector levers (if extended) then press and hold selector lever in the SEAT LOWER position until the seat frame touches the floor. If the seat frame won't lower all the way, press down on the lift lever and selector lever simultaneously.

6. Tuck the pillow down between the chair framework. Guide the backrest strap (Fig. 15 A) under the main lever frame and over the top of the backrest, then fasten the strap securely. Fully retract the stabilizer bar.

7. Place the box base (with yellow straps) on the floor, then place the two cardboard cushion strips (Fig. 16 A) in the base in line with the yellow straps.

8. Position the chair (Fig. 17 A) in the box base.

9. Strap both ends of the chair frame to the box base using the yellow straps (Fig. 18 A).

10. Install the box walls (Fig. 19 A) inside the box base, then lay the nylon chair cover (Fig. 19 B) on top of the chair.

11. Install the box top around the box walls, then secure the box with two shipping straps (Fig. 20 A).

12. Write the Return Authorization number (RA#) clearly on the outside of the cardboard shipping box, then ship to:

Aseptico Inc.
8333 216th Street S.E.
Woodinville, WA 98072

CAUTION

• WHEN TRANSPORTING CHAIR, DO NOT PLACE HEAVY OBJECTS ON TOP OF THE BOX.
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REAR VIEW

See “PARTS LIST” on page 9
### HYDRAULIC ASSEMBLY (PN 330629) PARTS LIST

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See “PARTS LIST” on page 9
SPECIFICATIONS

Chair Dimensions:
- Chair, Folded: \(34'' \times 22'' \times 18''\) (86.4 x 55.9 x 45.7 cm)
- Chair, Extended: \(76'' \times 24'' \times 36''\) (193 x 60.9 x 91.4 cm)

Range of Chair Positions:
- Minimum Seat Height: \(11''\) (27.9 cm)
- Maximum Seat Height: \(33''\) (83.8 cm)
- Backrest: Adjustable from upright (vertical) to supine (horizontal) positions

Chair Weight:
- Chair only: \(69\) lb (31.3 kg)
- Maximum Load Capacity: Approx. \(300\) lb (136 kg)

Shipping Box Dimensions:
- Box Size: \(27'' \times 42'' \times 21''\) (69 cm x 107 cm x 54 cm)

Shipping Box Weight:
- Box only: \(27\) lb (12.3 kg)
- Fully Loaded: Approx. \(96\) lb (43.6 kg)

Hydraulic Oil:
- Industrial premium-quality, medium-grade oil (ISO VG 46, SAE 15), such as Mobil DTE 25 or equivalent.

SYMBOL DEFINITIONS

WARNING – Serious damage, injury or death may result if ignored.

CAUTION – Damage to property, the environment, or injury may result if ignored.

Manufacturer

Serial number

Do not sit on leg panel or foot panel.

Information – Useful tips or hints.

Authorized European Representative

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Manufacturer

Aseptico Inc
8333 216 St SE
Woodinville,
WA, 98072 USA

Autorized European Representative

Advena Ltd
Tower Business Centre, 2nd Flr,
Tower Street, Swatar, BKR 4013
Malta
# Troubleshooting Guide

**Seat or backrest locks up and cannot be raised or lowered:**
- Refer to [Clearing Hydraulic Lockups](#) on page 4.

**When preparing the chair for shipping, the frame posts won’t lower all the way to the floor:**
- Press down and hold the selector lever in the SEAT LOWER position and press and hold down the lift lever simultaneously.

**Chair’s hydraulics feel sluggish or jerky when raising or lowering the seat or backrest:**
- Refer to [Purging Air from the Hydraulic System](#) on page 5.
- Refer to [Adding Oil to the Hydraulic System](#) on page 7.

**Oil is leaking from the hydraulic system:**
- NOTE: Small amounts of oil leaking after prolonged use are normal.
- Tighten all hydraulic hose fittings and port plugs on the hydraulic pump. If leakage persists, contact Aseptico customer service about returning the hydraulic assembly for repairs.

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# Warranty

Aseptico warrants this product against defects in material or workmanship for a period of two (2) years, from date of original invoice. Aseptico’s sole obligation under product warranty is (at its sole option and discretion) to repair or replace any defective component or product in part or whole. Aseptico shall be the sole arbiter of such action.

In the event of alleged defect under warranty, the purchaser is to notify Aseptico’s customer service department promptly. Customer service will provide instructions, usually directing that the product be returned for service. Shipment to Aseptico and the cost thereof is always the responsibility of the purchaser.

Accidental misuse, inappropriate installation, or failure to perform directed maintenance voids the warranty. Deliberately defacing, modifying, or removing the serial number voids the warranty.

Aseptico does not assume, under this warranty, any risks or liabilities arising from the clinical use of its products, whether or not such use involves coincidental utilization of products manufactured by others.

# Repairs

Aseptico repairs carry a ninety (90) day limited warranty against defects in material and workmanship. This warranty pertains only to the specific repair. Any new and different defect in materials or workmanship will be treated as a new repair. If the product is not covered under warranty, Aseptico offers repair services for a fee.