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# AEU-14CF

## Emergency Field Dental Unit

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### Expedition



**OPERATION MANUAL  
& PARTS LIST**



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To prevent injury to people and damage to property, please heed relevant warnings and remarks. They are marked as follows:

**WARNING:** Serious injury or death may result if ignored.

**CAUTION:** Damage to property or the environment may result if ignored.

**NOTE:** Important additional information and hints.



MEDICAL EQUIPMENT WITH RESPECT TO ELECTRIC SHOCK, FIRE AND MECHANICAL HAZARDS ONLY IN ACCORDANCE WITH UL 2601-1 CAN/CSA C22.2 No. 601.1

Equipment not suitable for use in the presence of a flammable anaesthetic mixture with air or with oxygen or nitrous oxide.

This device has been tested and found to comply with the emissions requirements of IEC 60601-1-2:2001-09. These requirements provide reasonable protection against harmful electromagnetic interference in a typical medical installation. However, high levels of radio-frequency (RF) emissions from electrical devices, such as cellular phones, may disrupt the performance of this device. To mitigate disruptive electromagnetic interference, position this device away from RF transmitters and other sources of electromagnetic energy.

## SPECIFICATIONS:

Case Dimensions: 17.5 in x 11.6 in x 6.9 in  
(44.5 cm X 29.5 cm X 17.5 cm)

Weight: 27 lbs. (12.25 kg.)

Volume: 0.81 ft<sup>3</sup> (0.23 m<sup>3</sup>)

Power Source: AC dual voltage  
120V/230V at 50Hz/60Hz  
12V/24V vehicle battery  
27.6V battery pack (x 2)

Water Reservoir: 16 fl. oz. (0.423 liter)

Air Reservoir: 25.8 in<sup>3</sup>. (423 cc)

Noise Level: 64dBa @ 1 meter

Fuses: 120V: 1.25A, 250V slo-blo fuse  
(Installed at Factory)

230V: 0.6A, 250V slo-blo fuse

Fuse size: 5 x 20mm

Duty Cycle for AE-200-30 Motor:

Intermittent use:

1 minute On / 3 minutes Off

Mains Current Ratings: 120V: 1.25A, 230V: 0.6A

**NOTE:** The appliance inlet is the mains disconnect means.

Environmental Conditions:

Operating Temperature: 2° to 49° C (35° to 120° F)

Transport/Storage Temperature:

-20° to 60° C (-4° to 140° F)

Relative Humidity: 5 to 95% non-condensing

Altitude: 0 to 2591 meters (0 to 8,500 feet)

**NOTE:** Air pressure instruments are set to 2591 meters (8,500 ft) elevation. Refer to Service Manual when adjusting system pressure.

If the integrity of the protective earth ground is in doubt, only use battery pack or vehicle battery power for operation.

- Type of Protection Against Electric Shock:
  - Class I when system is powered by mains power source.
  - Class II when system is powered by Vehicle Battery power source.
  - Internally Powered Equipment for Battery Pack power source.
- Degree of Protection Against Electric Shock:
  - Type B Applied Part
- Degree of Protection Against Ingress of Water:
  - Ordinary Equipment
- Model of Operation: - Continuous

Your new Aseptico Expedition Emergency Field Dental Unit is the most compact, full-featured portable electric dental system available. The AEU-14CF Expedition features an “E” type autoclavable 30,000 RPM brushless micromotor with 1/1 ratio straight handpiece and 5/1 increaser contra-angle with fiberoptic light & water, a 3-way air/water syringe, a self contained water system, and oil-less air compressor. The light weight dual voltage system comes in a sturdy case for maximum portability.

## *Congratulations!*

This system is engineered to provide many years of reliable service. Please read the instructions provided in this manual to receive the best and longest service from your Aseptico equipment.

Separate manuals may be provided to cover the operation and maintenance of handpieces or other accessories for your unit.

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### **PACKAGE CONTENTS:**

- AE-200-30 Autoclavable 30K brushless micromotor
- AHP-64 Autoclavable 1/1 straight handpiece
- AHP-72MBFO Autoclavable 5/1 increaser contra-angle with fiber-optic & irrigation
- TA-90D Three-way air/water syringe with tips
- Air supply bottle
- Water supply bottle with filter
- AE-7P On/Off foot switch
- Power cord
- Vehicle battery cable
- Two 27.6V battery packs
- Two Operation & Maintenance Manuals
- Two Service Manuals / Parts Lists



## SETTING UP THE UNIT:

(REFER TO FIGURES 1, 2, AND 3)

1. Unpack the chassis case.

**Note:** Be sure the correct fuse is used for each voltage.

**120V:** 1.25A, 250V slo-blo fuse  
(Installed at factory)

**230V:** 0.6A, 250V slo-blo fuse

**Fuse size:** 5 x 20mm

**NOTE:** This system is designed to operate with all power systems attached, and to draw power from the highest source. It is not advised to operate off all sources at one time. The AEU-14CF Expedition circuitry allows the unit to operate while using an AC power source that is either 120V or 230V, and either 50Hz or 60 Hz.

2. For AC power, attach the power cord to the right side of the chassis (*Fig. 3*) and plug into a grounded electrical receptacle.
3. For vehicle battery power, place vehicle battery cable into the appropriate connector (*Fig. 3*). Securely connect the red positive (+) clamp to the corresponding positive (+) terminal of the vehicle's battery. Securely connect the black negative (-) clamp to the corresponding negative (-) terminal of your vehicle's battery.
4. For battery pack power, attach one end of the battery pack cable assembly to the chassis, and the other end to the desired pack (*Fig. 2*). Ensure correct pin alignment when connecting cable to chassis socket. It is recommended that the battery packs be charged before each use (Refer to Page 10).
5. Connect the motor to the connector on the lower front panel of the chassis (*Fig. 3*). Align connector to socket pins and screw

2.

FIG. 1a - MOTOR CONNECTION (Bulb Cover Removed)

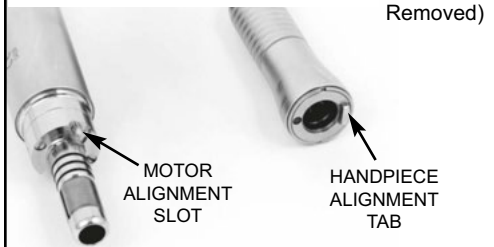


FIG. 1b - HANDPIECE ALIGNMENT (Bulb Cover Removed)



FIG. 1c - MOTOR BULB COVER

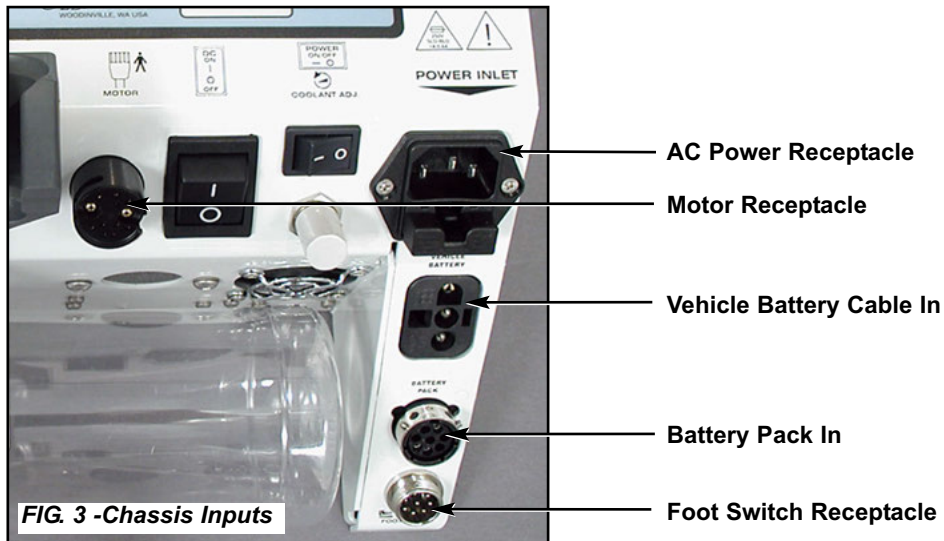
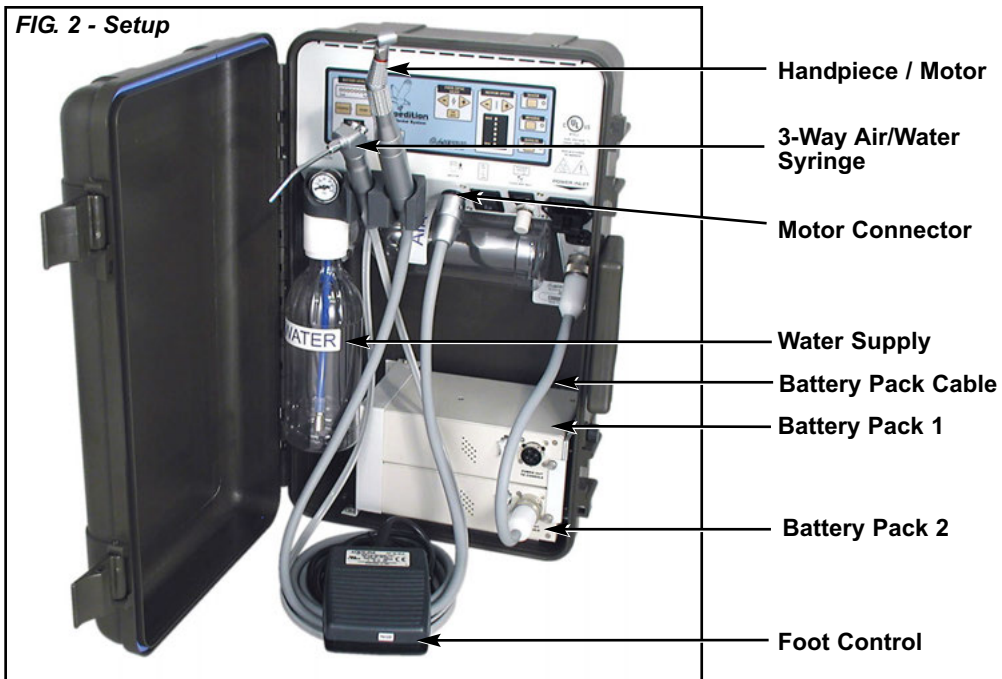


collar into place. Attach the appropriate "E" type handpiece to the motor (*Figs. 1a, 1b, & 1c*).

(*Fig. 2*). Place motor in holder on the right of the motor/syringe holder.

6. Remove syringe (*Fig. 2*). Place a sterilized tip into syringe and place back into motor/syringe holder
7. Attach the supplied AE-7P On/Off Foot Switch to the connector on the right side of the unit marked "Foot Switch" (*Fig. 3*).
8. Fill the clear Water Supply Bottle with clean water and connect to unit. A cap has been provided to transport with water (*Fig. 2*).

**FIG. 2 - Setup**



**FIG. 3 -Chassis Inputs**

# OPERATION FUNCTIONS - REFER TO FIGURE 4

- 1. Power On/Off Switch** – Controls power on/off to chassis from 120V/220V AC source. When DC power is turned on, with AC power, the AC will override the DC power.
- 2. Battery On/Off Switch** – Controls power on/off to chassis from the battery pack or vehicle battery DC sources (chassis should light up when turned on). NOTE: AC power switch does not have to be on to run from DC power sources,.

- 3. Motor Speed** - Controls the motor/handpiece speed. Press the up(+) or down(-) button until the desired speed is obtained.
  - 1/1 Ratio Handpiece:  
Each push of up/down button will increase/decrease speed by 2,600 RPM. The LED speed display indicates relative speed from 4,000 RPM minimum to 30,000 RPM maximum. Each LED indicates a 5,200 RPM increment.

- 5/1 Ratio Handpiece:  
Each push of up/down button will increase/decrease speed by 13,000 RPM. The LED speed display indicates relative speed from 20,000 RPM minimum to 150,000 RPM maximum. Each LED indicates a 26,000 RPM increment.
- 4. Fiber Optic Light** – Controls light On/Off to the handpiece and enables adjustment of light intensity. When fiber optic light 'On' button is pressed, the LED lights up and the handpiece light turns on for thirteen seconds to allow adjustment of the light intensity. Press the positive(+) or negative (-) button several times to increase or decrease intensity to desired level (five different levels to choose from). The new intensity setting is retained in memory until readjusted/changed. When the dental motor/handpiece is activated, either manually or via the foot switch, the handpiece light will automatically turn on at

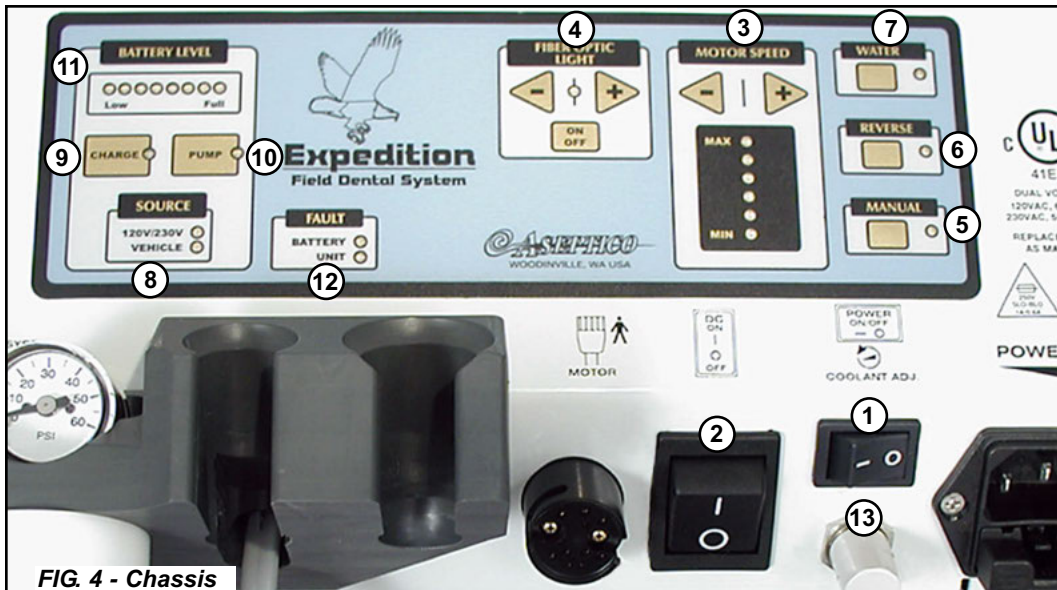


FIG. 4 - Chassis



the previously used intensity level (fiber optic light switch must be 'On') . When the dental motor/handpiece is turned off, the handpiece light will stay on for thirteen seconds before timing out.

5. **Manual** – Selects hand/foot control mode of dental motor. When LED is lit, motor can be hand activated; when LED is off, motor can be activated via the foot switch.
6. **Reverse** – Selects clockwise or counterclockwise rotation of the motor handpiece bur. When the LED light is on, the direction of the bur is counterclockwise. When the LED is off, the bur is turning clockwise.
7. **Water** – Controls the availability of water to the handpieces. When LED is lit, water is available to the handpiece.
8. **Source** – Indicates power source. If 120V or 230V is powering the system, the LED will light up. If vehicle 12V/24V is powering the system, the vehicle LED will light up. If only battery pack power is applied to the unit, neither light will be on.
9. **Charge** – Allows the system to charge the battery pack from a 120V/230V AC source or vehicle battery when the LED is on. A drained battery pack takes less than 4 hours to fully charge. The unit is designed to charge the battery pack while operating off 120V/220V AC power or vehicle 12V/24V power.
10. **Pump** – When LED is on, power is applied to the pump to allow for air and water pressure. When LED is off, power is disengaged from the pump to allow for water bottle removal without shutting power off to the chassis or battery charger.
11. **Battery Level** – Indicates level of charge for the battery pack that is connected to the chassis. "FULL" is 32V, with a drop of 1V per LED.
12. **Fault** – Battery light indicates problem with connected battery pack. Unit light indicates problem with the system. (Refer to Troubleshooting Section, page 13.)
13. **Coolant Adj.** – Controls the amount of water flow to the handpiece - turn clockwise to increase flow.
14. **Foot Switch** – When either, or both, of the power switches are in the on position, the foot switch (see Fig. 6) provides on/off operation of the dental motor and water coolant (when water LED is on) to the handpiece .
15. **Three-way Air/Water Syringe (Fig. 6)** - Pressing the left button dispenses water. Pressing the right button dispenses air. Pressing both buttons simultaneously dispenses an air/water mist.
16. **Water Supply Bottle (Fig. 6)** - The AEU-14CF Expedition incorporates a self-contained pressurized water system. This consists of a 16 ounce clear bottle dispensing water through the 3-way Air/Water Syringe and Handpiece Coolant. The Water Supply Bottle attaches to the threaded reservoir connector, located below the pressure gauge.

**To refill the Water Supply Bottle:**

1. Disengage pump.
2. Unscrew bottle.
3. Fill with water.
4. Screw bottle onto reservoir connector.
5. Re-engage pump

# OPERATION:

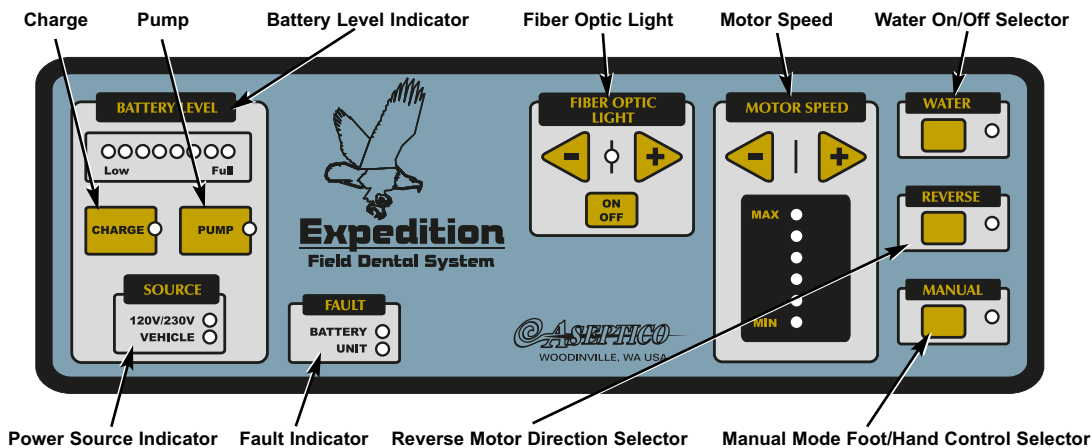
REFER TO FIGURES 5 & 6

After the unit has been set up and you have made yourself familiar with the operation functions, you are ready for operation as follows:

1. Attach a sterile handpiece to the motor.
2. Turn the appropriate power switch to the "ON" position. The Front panel display will light and the compressor will charge the system with air if the pump LED is on.
3. Set the Manual or Foot Control Selector and Motor Direction Selector as desired.
4. When Manual LED is on, dental motor will begin operation. When Manual LED is off, press down on the Foot Control to begin handpiece operation.
5. Press the Motor Speed Increase or Decrease until the desired operating speed is shown on the Speed Display.
6. Set "WATER" switch to "ON" (indicated with lit LED) for irrigation flow to the handpiece. Adjust the Handpiece Coolant Flow knob to desired setting.
7. Use the 3-Way Air/Water Syringe as necessary for irrigation or drying. Use a sterile syringe tip for each operation.
8. Press the Foot Control to activate motor and handpiece coolant when Manual LED is off.

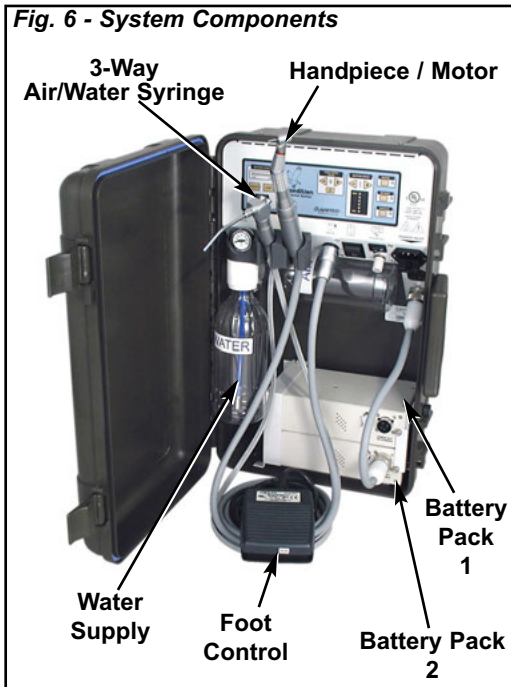
**Note:** When operating from a vehicle battery as a power source, the patient and the operator must be at least 6 feet away from the vehicle with no electrical contact with the chassis of the vehicle. If the patient and/or the operator must be in contact with the vehicle, the AEU-14CF Expedition can be safely powered by way of an inverter through the AC power connection of the system with no connection to the DC power input.

**Fig. 5 - Chassis Control Console**





9. When the fiber optic light LED is on, the light on the motor will turn on when either the manual mode selector switch or foot control is depressed. The motor light will remain on for 13 seconds after the manual switch or foot control is turned off.



## **BATTERY PACK REMOVAL & INSTALLATION:**

1. Remove shoulder screws from the front bracket.
2. Remove nuts from side of the bracket.
3. Slide the battery back to the left and lift to the front. NOTE: Battery pack is retained in key slots in the rear of the case.
4. Reassemble in reverse order.


# STERILIZATION AND MAINTENANCE:

- 1. CHASSIS** - The exterior of the chassis may be cleaned by wiping with a soft cloth moistened with mild detergent or disinfecting solution.
- 2. HANDPIECES** - Thorough cleaning and lubrication of handpieces after each use and before sterilization is very important to ensure proper operation and service life of the handpiece. Follow the instructions provided with the handpiece for complete maintenance and sterilization procedures.
- 3. MOTORS** - The AE-200-30 motor is fully autoclavable. Detach the motor from motor cord by unscrewing the metal motor to cable connector by turning counterclockwise (see photo below). Steam autoclave the motor at 132° C (275° F) for ten minutes. Wipe down the motor cable with disinfecting solution. We recommend also sleeving the cable between each patient.


WHEN THE MOTOR CORD MUST BE AUTOCLAVED, AUTOCLAVE CORD AND MOTOR JOINED - DO NOT SEPARATE THE CORD FROM MOTOR.

Note: Extensive autoclaving will shorten the life of the motor cord.

**AUTOCLAVABLE MOTOR CORD**



- When autoclaving, loosely coil the motor cord.
- Avoid sharply bending the cord when autoclaving.




## WARNING


Failure to comply with any of the following instructions may void your warranty

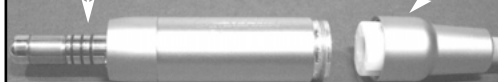
- Do not attempt to disassemble the motor.
- Do not oil or lubricate the motor.
- Do not attach a handpiece to the motor while the motor is running.
- Do not bend motor cord sharply.
- Do not submerge in any solutions.
- Do not use ultrasonic cleaners.

O-rings  
*(Replace if worn or damaged)*




Motor-to-cord connector



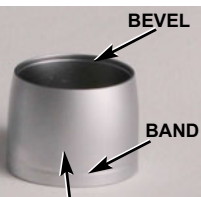


To autoclave motor only, without cord, detach the motor from motor cord by unscrewing the metal motor-to-cord connector counter-clockwise.

**FIG. 7 - BULB COVER**




**BULB COVER**  
For BIEN AIR / KAVO  
HANDPIECE  
(Shipped with Unit)



**BULB COVER**  
For NSK  
HANDPIECE

**FIG. 8 - BULB REMOVAL**



Tool Guide Hole

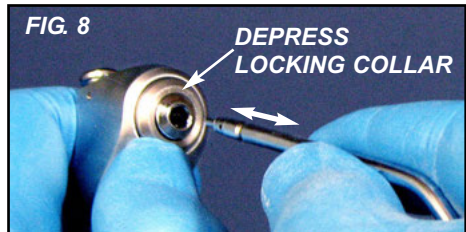
4. **MOTOR BULB** - The motor light bulb may become dirty in the autoclave and require cleaning or replacement. **NOTE:** Do Not Handle Bulb With Bare Fingers. To remove bulb, unscrew bulb cover from end of motor housing (Fig. 7). **Note:** Unit comes with Bien Air / KaVo bulb cover installed. Insert dental pick or other small pointed instrument into guide hole at base of bulb (Fig. 8). Slide bulb forward until disconnected from socket in motor housing. Wipe bulb with clean soft cloth. Reinstall bulb with guide hole facing outward. Carefully guide the bulb's contact pins back into their respective socket holes.
5. **MOTOR O-RINGS** - Replace motor O-rings when worn or damaged (see photo below). Gently peel old O-ring out of groove and replace with new ring (PN 520069). Occasionally apply rubber compatible lubricant to O-rings to maintain flexibility.
6. **WATER LINES** - Disinfect the water lines weekly. Prepare a 1:10 bleach solution (1 part household bleach to 10 parts water). Remove water reservoir and discard residual water. Replace empty water supply tank and air purge all waterlines. Fill water supply tank with bleach solution. Run bleach solution through all lines. Allow bleach solution to stand in lines for 10 minutes. Remove water supply tank and discard bleach. Flush water supply tank and all lines thoroughly with clean water. Air purge and leave lines dry until next clinical use.

7. **SYRINGE TIPS** - The Three-Way Air/Water Syringe features quick-change autoclavable tips: To remove a tip, press on the locking collar surrounding the tip socket and pull the used tip straight out of the socket (see Fig. 8). To insert a new tip, press locking collar and push tip into socket as far as it will go. Release collar and gently tug on tip before using to ensure that tip is securely locked into socket.

**Syringe Tip Sterilization:**

- 1) Remove contaminated syringe tip.
- 2) Remove all visible signs of contamination before autoclaving.
- 3) Autoclave tip at 132° C (270° F) for ten minutes.
- 4) Sterilize between each patient use.

**NOTE:** Since only the tips can be autoclaved, it is recommended that the Air/Water Syringe be bagged with a disposable, single-use plastic sleeve between each patient use.



# CHARGING THE BATTERY PACKS

1. The primary method for charging the battery packs is through the built-in charger in the chassis.
2. **Charging the Pack from an AC Source or Vehicle Battery** – Attach the appropriate cable for the AC source, or vehicle power, to the chassis. Attach the battery pack cable assembly to the chassis and desired battery pack (we recommend connecting the cable to the chassis first and then to the battery pack, and disconnecting in this reverse order to avoid the possibility of shorting the pins).

**NOTE:**

**The battery fault light will illuminate if battery is not connected or if a battery fault has been detected. The battery fault will reset when a new battery is connected.**

3. **Charging from AC Source** – The system does not automatically charge with the power cord plugged in. To charge the pack, turn on the power switch (the unit will light up and charge the system with air if the pump switch is on). The battery switch and charge button must also be turned on (indicated when the LED lights up). The system is designed to charge while the instrument is in use. The system will automatically stop charging when the pack is charged (the LED at the charge button will go out). **See IMPORTANT Note on this Page.**

4. **Charging From Vehicle Battery** - The system is designed to charge from a vehicle battery, provided the vehicle battery has 11V and sufficient amperage. If battery is detected and the measured voltage is less than 23 VDC, the system will automatically charge (the charge button LED will come on). To manually start a system charge from a vehicle battery, depress the charge button and the LED will come on. If the LED button fails to turn on, the vehicle battery will not charge the pack. The system will automatically stop charging when the pack is charged (the charge LED will go out). **See IMPORTANT Note on this Page.**

**NOTE:** When operating the system from a vehicle battery, only the battery switch on the chassis needs to be turned on. It is not necessary to turn on the chassis power switch.

**NOTE:** When not powering the system from a battery pack or charging a battery pack, it is recommended that the operator disconnect the battery pack cable assembly from the pack.

**IMPORTANT:** The Battery Packs include a built-in thermal cutoff to protect the Packs from overheating when charging. If the battery charger shuts Off before a Pack is fully charged, allow 15 minutes for the Pack to cool down, prior to recharging. When charging both Packs, allow 30 minutes of instrument cooling time between Packs.

## RE-PACKING UNIT:

1. Remove all accessories from the unit.
2. Remove water bottle and attach cap provided with unit when transporting with water.
3. Position syringe so that it stands vertically to the left of the water cap. Lay tube in vicinity of the air bottle.
4. Place handpieces in container and place next to battery case.
5. Place power cable between handpieces and air bottle.
6. Place water bottle on top of handpieces, to right side of battery case as shown.
7. Place vehicle battery cable and battery pack cable in small pouch. Place pouch on top of console as shown.
8. Place power cord, syringe tips, and motor in large pouch. Place on top of battery case as shown.



## CHANGING THE FUSE:



### **WARNING**

Turn the power off and unplug the unit before following the steps below.

1. Remove the Fuse Holder from the Power Inlet connector.



2. Changing the fuse:  
Replace the fuse in the Fuse holder.

#### **Replacement Fuses:**

120V: 1.25A, 250V slo-blo fuse  
230V: 0.6A, 250V slo-blo fuse  
(Fuse size: 5 x 20mm)

3. Reinstall the Fuse Holder.

#### **NOTE:**

The AEU-14CF is manufactured with 250V (1.25A rated) fuses installed, if operating with a 230V power source, change to the 0.6A rated fuses before operation.

## SAFETY PRECAUTIONS:

Aseptico accepts no liability for direct or consequential injury or damage resulting from improper use, arising in particular through the non-observance of the operating instructions, or improper preparation and maintenance.

**WARNING:** Sterilize before first and all uses. Clean, disinfect, and sterilize new or repaired handpieces and instruments before first use. Only use sterilized handpieces and instruments during treatment. Non-sterile handpieces and instruments may cause bacterial or viral infections. Always sterilize handpieces and instruments after operation.

**CAUTION:** Always examine unit components for damage before commencing treatment. Damaged components must not be used and must be replaced.

**WARNING:** When operating with power from vehicle battery:

1. Patient must be six feet minimum from vehicle chassis.
2. All other devices on the system should be unpowered or disconnected from battery to prevent electronic interference.







**WARNING:** Use for intended purposes only. Failure to observe the operating instructions may result in the patient or user suffering serious injury or the the product being damaged, possibly beyond repair. Before using this product, make sure that you have studied and understood the operating instructions.

**WARNING:** For use by qualified and trained personnel only.

**WARNING:** Do not install where there is a risk of an explosion. The AEU-14CF is not intended for operation in the presence of flammable anesthetics or gases.

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## SYMBOL DEFINITIONS:

	Type B Equipment		Alternating current
	Attention, consult accompanying documents		Protective earth (ground)
	Dangerous Voltage	<b>IPX1</b>	Protect Against Dripping Water
	Do Not Throw Into Trash		



## TROUBLESHOOTING:

Problem:	Correction:
Chassis does not light when turned on:	<p>Check chassis to power connection.</p> <p>Check that voltage is proper voltage.</p> <p>Check fuse. If blown, replace with 1.25A/250V slo-blo fuse for 120V operation, &amp; 0.6A/250V slo-blo fuse for 230V operation.</p>
Chassis lights when turned on, but handpiece does not turn:	<p>Check motor plug connection.</p> <p>Check foot switch connection.</p> <p>Depress foot switch.</p> <p>Increase RPM.</p> <p>Check that an instrument is properly seated in the handpiece and the collet is closed.</p>
Chassis does not light when 12V/24V power is applied:	<p>Check 12A fuse inside chassis (blue fuse wired to the vehicle battery connector). Refer to Service Manual.</p>
Chassis does not light when battery pack is applied:	<p>Check connections at the battery pack, chassis, and cable.</p> <p>Check voltage of the battery pack</p> <p>Check the 5A fuse inside the chassis (amber fuse wired to the battery pack connector). Refer to Service Manual</p>
Motor slowing down or sluggish:	<p>Dirty, under-lubricated handpiece.</p> <p>Handpiece lubricant is running into motor.</p> <p>After lubricating, set handpiece with head down to let excess lubricant drain out.</p>
Pressure fails to stabilize:	<p>Check that air and water bottles are tight. Check line and fittings for air leaks.</p>
Pressure fails to turn off at approximately 20 PSI:	<p>Check for broken cable to pressure switch.</p> <p>Check pressure settings.</p>
Unit fails to build pressure:	<p>Check that bottles are tight. Check wires for breaks to solenoid switch.</p>
Battery fault light on:	<p>Battery not connected, or charging error observed. Allow battery pack to cool below 35°C for 30 minutes before attempting charge. If battery fault light is on for two consecutive charging attempts, replace battery pack.</p>
Unit fault light on:	<p>Unit operational error observed. Remove all power from unit for 30 minutes before attempting to use the system again. If unit fault light is on during two consecutive attempts to operate the system, return system for repair.</p>
AC / DC Source lights flash On/Off:	<p>Unit operational error. Return system for repair.</p>

# WARRANTY

Aseptico warrants its products against defects in material or workmanship for a period of two (2) years, from date of original invoice. Some handpieces are warranted for one year under the same conditions. Other handpieces and expendable components, such as air turbines and light bulbs, are covered by shorter warranty periods, or have no warranty. 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.



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06/2013

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