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# **AEU-525**

## **Portable Dental System**

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### **Transport III**



**OPERATION &  
MAINTENANCE MANUAL**



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### Classifications in accordance with UL-60601-1:

- Class I
- Types B and BF Applied Parts
- Ordinary Protection
- Not suitable for use in the presence of a flammable anesthetic mixture with air, oxygen, or nitrous oxide.

**Note:** For reliable grounding, connect to receptacle marked "Hospital Grade".

## INDICATIONS FOR USE:

The AEU-525 Transport III is a portable self-contained dental system that is used for endodontic and general dentistry applications.

**RX: FEDERAL LAW RESTRICTS THIS DEVICE TO SALE BY OR ON THE ORDER OF A DENTIST**



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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.

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.



**MEDICAL -- GENERAL MEDICAL EQUIPMENT AS TO ELECTRICAL SHOCK, FIRE AND MECHANICAL HAZARDS ONLY, IN ACCORDANCE WITH:**  
UL 60601-1: First Edition - Medical Electrical Equipment, Part 1: General Requirements for Safety, ANSI/AAMI ES60601-1:2005/(R)2012 and A1:2012, C1:2009/(R)2012 and A2:2010/(R)2012 - Medical electrical equipment—Part 1: General requirements for basic safety and essential performance.  
CAN/CSA C22.2 NO. 60601-1-08 (2013) - Medical Electrical Equipment - Part 1: General Requirements for Basic Safety and Essential Performance (Adopted IEC 60601-1:2005, third edition, 2005-12), Includes Corrigendum 1:2011.

Your new Aseptico AEU-525 Transport III System is the finest portable electric dental system available. The System features a high-torque brushless micro motor with digital controls for the handpiece ratios, speed, torque, motor direction, and LED illumination. The dual-voltage system includes a 3-way air/water syringe, HVE and saliva ejector vacuum systems, a self contained water system, self contained waste system with a near-full level warning and vacuum pump safety shutoff, oilless air compressor, and vacuum pump. An optional ultrasonic scaler is also available. The system comes in a case with built-in wheels and a handle for maximum portability.

## *Congratulations!*

This Transport III 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 other accessories for your unit.

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### **PACKAGE CONTENTS:**

- Portable Case with Electronic Control, Compressor, and Vacuum Pump
- Electric Motor Control Console includes an Autoclavable 40K Brushless Micro Motor with ISO E-type coupling and LED light source
- TA-90D 3-Way Air/Water Syringe
- HVE and Saliva Ejector Vacuum Hoses with Valves
- Water Supply and Air Reserve Bottles
- AE-7PM On/Off Foot Control
- Power Cords (One each U.S. and Euro)
- Operation & Maintenance Manual
- Handpiece (Purchased separately - see below)

### **OPTIONAL EQUIPMENT:**

- Optional Air Electric Module with Ultrasonic Scaler Assy (PN: 330597)
- Optional Water Supply Adapter Assembly (PN: 330607)
- Optional Auxiliary Water Outlet Fitting (PN: AA-60)

### **HANDPIECES PURCHASED SEPARATELY:**

- **AHP-72S-FO** Highspeed 1:5 Increaser Contra-Angle Handpiece with Fiber Optic
- **AHP-63NAK** Lowspeed 1:1 Contra-Angle Handpiece
- **AHP-101** Lowspeed 1:1 Straight Handpiece for Prophy
- **AHP-64** Lowspeed 1:1 Straight Handpiece
- **AHP-88MN** 8:1 Reduction Latch-Head Contra-Angle Endo Handpiece
- **AHP-88MNP** 8:1 Reduction Push-Button Head Contra-Angle Endo Handpiece

***NOTE:** A List of Replacement Parts is Provided on Page 24.*



## 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.

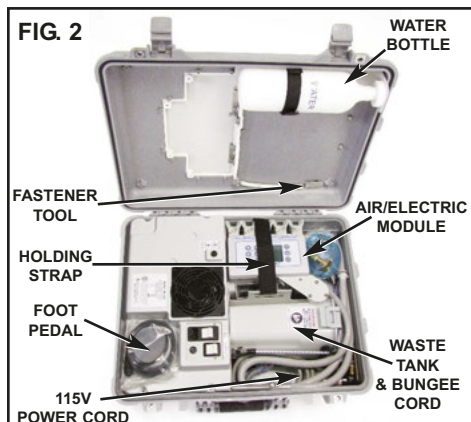
- WARNING:** Clean, disinfect, and sterilize new or repaired handpieces and instruments before first use and between each patient use. Only use sterilized handpieces and instruments during treatment. Non-sterilized handpieces and instruments may cause bacterial or viral infections. Always sterilize handpieces 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:** Use for intended purposes only. Failure to observe the operating instructions may result in the patient or user suffering serious injury or the product being damaged, possibly beyond repair. Before using this product, make sure that you have studied and understood the operating instructions.
- WARNING:** Do not install where there is a risk of an explosion. The 525 Transport III System is not intended for operation in the presence of flammable anesthetics or gases.
- WARNING:** Always operate a high-speed handpiece with water coolant. Operating a high-speed handpiece without water coolant can cause thermal injury to the patient.
- CAUTION:** The lens for the electric motor LED is soft and can be damaged. If the lens needs to be cleaned, use a lint-free swab and isopropyl alcohol - do not use other solvents as they might adversely react with the LED assembly.
- CAUTION:** The AEU-525 Transport electric motor is not recommended for use with endodontic files that have torque limit requirements less than 100 g-cm.
- WARNING:** Do not use this device for dental implant procedures.
- CAUTION:** Do not run saline solutions through the water system -- saline will rust the water filters.
- WARNING:** For use by qualified and trained personnel only.
- WARNING:** CONTRAINDICATIONS  
Ultrasonic oscillations emitted by the optional Ultrasonic Scaler may prevent the proper function of cardiac pacemakers. Therefore, Aseptico recommends that patients with a cardiac pacemaker should not be treated with the Ultrasonic Scaler component of the AEU-525 Transport III System.
- WARNING:** The optional Ultrasonic Scaler instrument tips oscillate at high frequency and can fracture during operation. To help prevent the tips from fracturing and possibly injuring the patient, always follow the scaler manufacturer's operating instructions and recommended ultrasonic power settings.
- WARNING:** Do not use the optional Ultrasonic Scaler dry. If used dry, the Instrument Tip will heat immediately. This may cause thermal injury to the tooth. Ensure that adequate liquid coolant is always available.
- CAUTION:** Never use the optional Ultrasonic Scaler on metal or porcelain restorations. The high frequency ultrasonic oscillations may loosen the restoration.
- CAUTION:** Operating the AEU-525 without using the High or Low Volume Evacuation can cause the compressor motor to cycle on/off, possibly affecting other electrically powered equipment sharing the same circuit.
- CAUTION:** Dispose of electronic waste and waste containing amalgam in accordance with local regulations.

## SETTING UP THE UNIT(\*):

1. Unpack the AEU-525 Transport III System from its shipping carton (Fig. 1). (Save cardboard carton and all packing materials in case the unit needs to be shipped again.)



2. Lay Transport III case flat on floor with case lid facing upward (Fig. 2). Open lid.

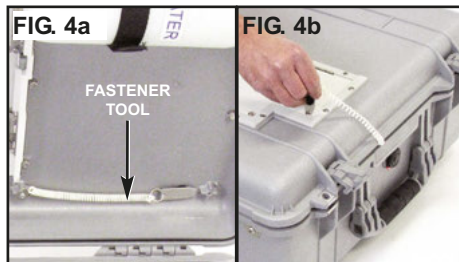


3. Remove accessories and place them aside for assembly later (Fig. 3).
4. Remove System components from case and place aside temporarily (Fig. 3):



- a. Loosen water-bottle holding strap on inside of lid and remove water bottle.
- b. Unhook waste-bottle bungee cord and remove waste bottle.
- c. Loosen air/electric-module holding strap and remove air/electric module assembly.

5. Detach fastener tool from inside case lid (Fig. 4a). Use the tool to loosen the four fasteners on the outside of the rear metal door (Fig. 4b). Turn fastener counter-



clockwise 1/4 turn, to loosen. Stand unit upright. Use the fastener tool to loosen the two fasteners on the small metal door located on the top of the case (Fig. 4c).



Open case lid and reattach fastener tool to its Velcro® mounting pad, then close and lock case lid. **NOTE:** This fastener tool can also be used to loosen the air/electric module hold-down screw shown in Figure 13b, page 5.

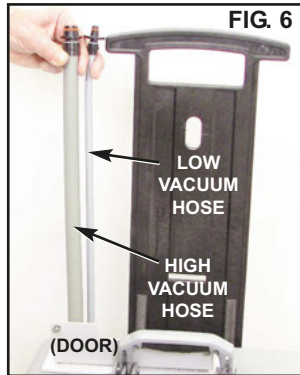
6. On front (handle) side of unit, pull handle locking tab outward while raising the handle (Fig. 5a). Lift handle all the way up until the locking tab engages the bottom slot (Fig. 5b).



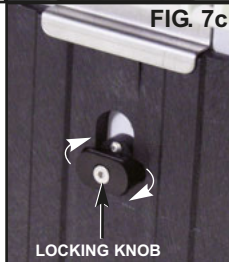
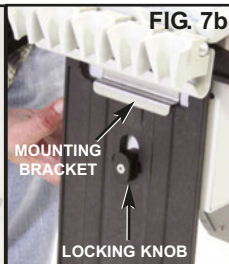
(\*) Also refer to the Asepticco Transport III video at [www.asepticco.com](http://www.asepticco.com) for basic setup instructions.

## SETTING UP THE UNIT - *Cont'd*

7. Open the small metal door on the top of the case and locate the high and low vacuum hose connectors in the recess under the door. Pull both hoses all the way out of the recess so they extend to the top of the handle as shown in Fig. 6.



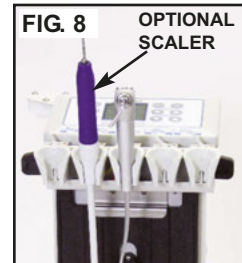
8. (NOTE: The user may choose to interchange Step 8 with Step 9, to facilitate easier setup of the syringe and optional



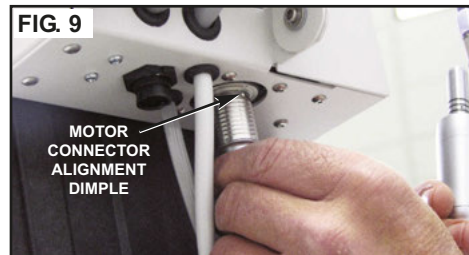
scaler.) On the back side of the unit, position the air/electric module assembly over the top of the handle as shown in Figure 7a, then lower the assembly so its mounting bracket rests on the opening in the handle (Fig. 7b). Rotate the bottom of the assembly forward so that its locking knob aligns with and engages the vertical slot in the handle (Fig. 7b). Rotate the locking knob 90° to secure the air/electric assembly to the handle (Fig. 7c).

9. (NOTE: The user might have chosen to interchange Step 9 with Step 8, for easier setup of the syringe and optional scaler.)

Place air/water syringe and optional scaler into their respective instrument holders on the air/electric module (refer to the location-ID label on top of the module). (See Fig. 8)

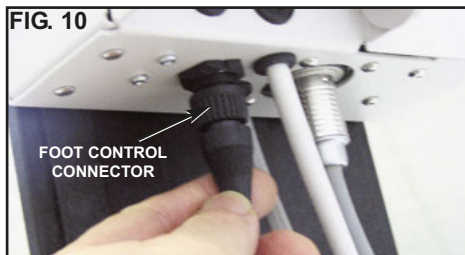


10. Install electric motor connector into receptacle located on bottom of air/electric module (Fig. 9). Align the round dimple on the motor cord connector with the mark on the receptacle and push cord straight into receptacle. To remove motor/cord, pull motor cord connector straight out of receptacle. Place motor into its instrument holder on the module and attach appropriate E-Type handpiece.



11. Install foot control connector into receptacle located on bottom of air/electric module (Fig. 10). Once the connector pins are properly engaged, tighten the outer sleeve to lock into place. Place foot control on floor.





12. Fill the water-supply bottle with clean water or other suitable irrigation fluid and attach to the water bottle cap on the left side of the air/electric module (Fig. 11a).

**Optional Water-Supply Adapter** - Attach the optional water-supply adapter (PN 330607) to the end of the water bottle filter tube (Fig. 11b). Attach the opposite end of the Adapter to the water supply. Toggle the water bottle purge switch to the purge position.

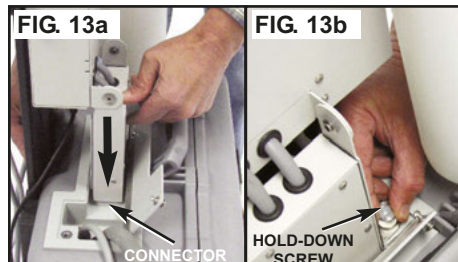


13. On the back side of the air/electric module, rotate the rear housing downward 180° (Fig. 12). (Note the connector block in the recess directly below the rear housing.)

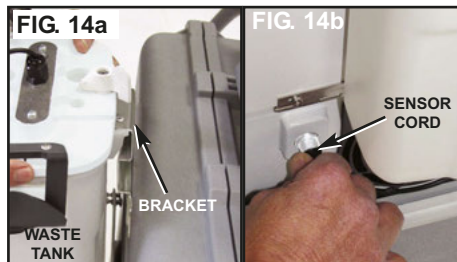


14. Disengage the locking tab on the handle. Slowly and carefully lower the air/electric module down until the rear housing engages the connector block in the recess below (Fig 13a). (**NOTE:** Ensure that the three O-rings on the housing are lubricated with an appropriate lubricant, preferably containing PTFE. Dry O-rings will damage

the seals, resulting in poor performance.) Lock the module into place by hand-tightening the hold-down thumb-screw on the housing, until snug (Fig 13b).

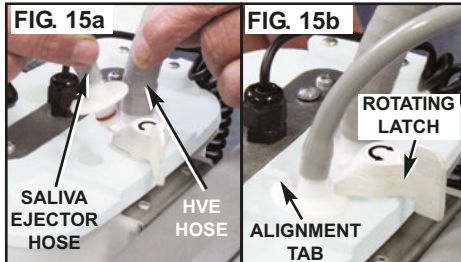


15. Ensure that the lid on the waste container is securely latched onto the container. Hang the container onto the bracket located on the back side of case lid (Fig. 14a). Plug the level-sensor cord connector into the socket located on the motor housing (Fig. 14b). The connector plug and the socket are keyed and fit only in one position. Gently press the connector against the socket and rotate until the connector aligns with and enters the socket. **NOTE:** If the sensor is accidentally unplugged, a warning beep will sound and the compressor will automatically shut off.



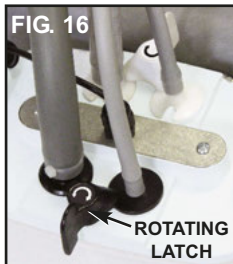
16. Attach the HVE and saliva ejector hose connectors (white) to their respective ports on the top of the waste tank (Fig. 15a, page 6). Note that the notches in the hose connectors align to the white tabs on the tank. Rotate the white locking latch over the top of the two hose connectors to secure them into position (Fig. 15b, page 6).

## SETTING UP THE UNIT - *Cont'd*

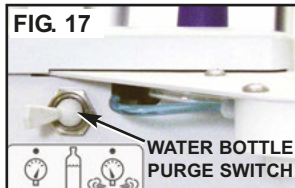


Place the HVE and saliva ejector valves into their respective instrument holders on the air/electric module (refer to the location-ID label on top of the module). Attach the desired evacuator/saliva ejector tips into the valves.

17. Attach the HVE and saliva ejector hose connectors (black) from Step # 6, page 3, to their respective ports on the top of the waste tank (Fig. 16). Rotate the black locking latch overtop the two hose connectors to secure them in place.

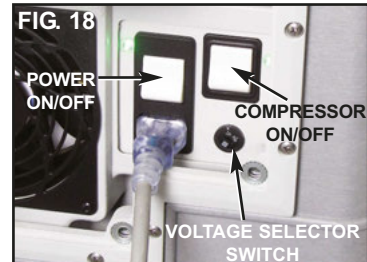


18. Toggle the water-bottle purge switch located on the back side of the air/electric module to the "PRESSURE" position (Fig. 17).



19. Verify that the voltage-selector switch located on the motor housing is set to the proper 115V or 230V power source (Fig. 18). Attach the power cord to the power inlet receptacle and plug into a grounded electrical outlet. **NOTE:** Ensure that the power cord is correct for the voltage source in the country of use. Turn both rocker switches on the motor

housing to the 'ON' (I) position. The left-hand switch turns the unit power On/Off and also acts as a circuit

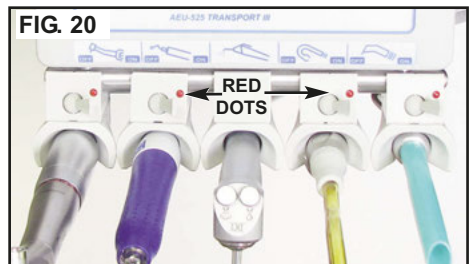


breaker for the whole unit. The right-hand switch acts as a circuit breaker for the compressor. Electrical overloads will trip the two switches. If either switch is found in a neutral position (midway between 'ON' and 'OFF'), check for overload causes and correct the problem. Then, place the switch in the 'ON' position. Green LED's adjacent to each switch illuminate when the switches are On. **NOTE:** When the unit is in use, it's compressor motor will occasionally turn On and Off, to maintain proper pressure.

20. Ensure that the system operating pressure is maintained at 45-55 PSI (3.10-3.79 bar). The pressure gauge is located on the side of the air/electric module (Fig. 19).

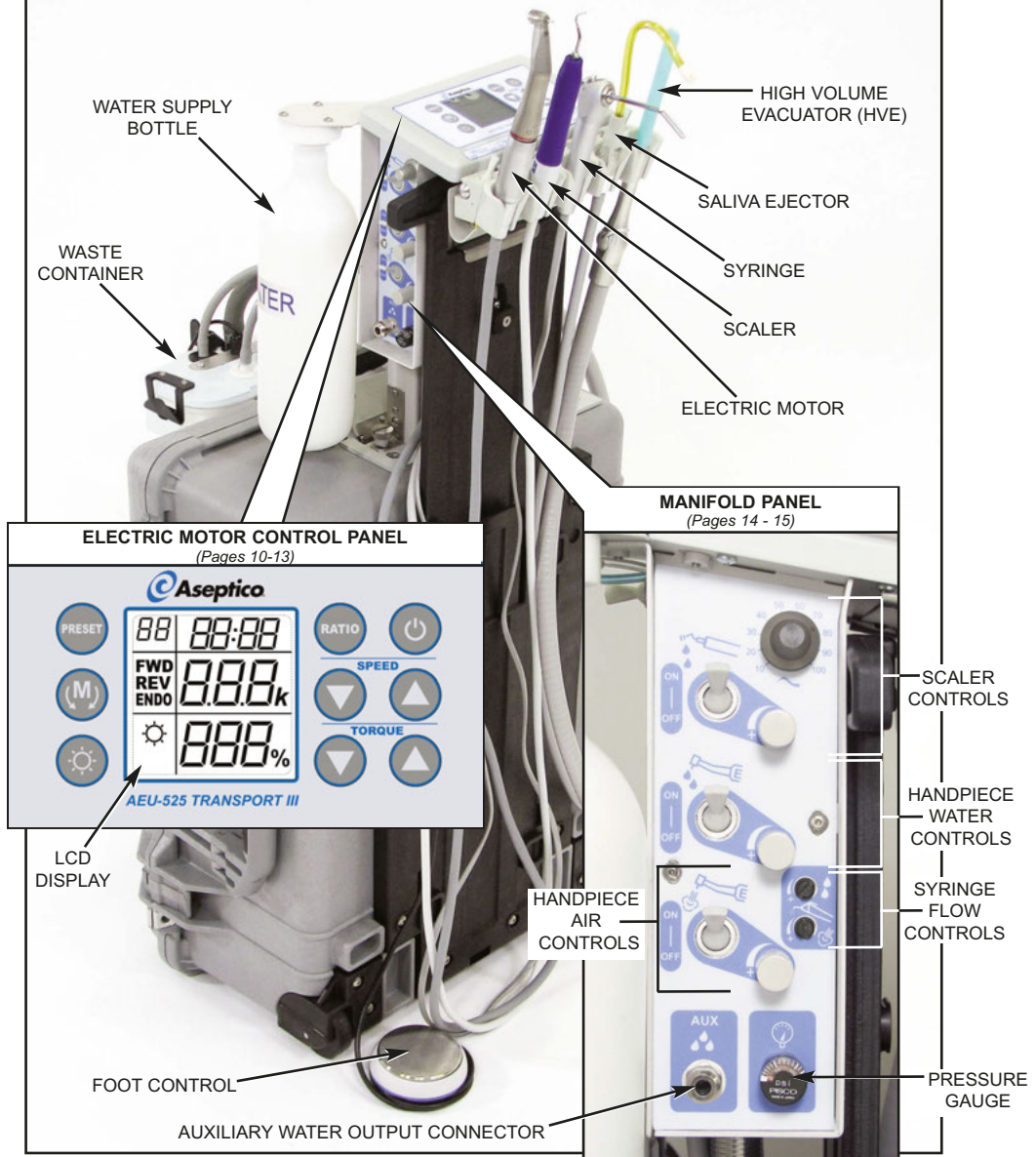


21. Turn all instrument holder and manifold control panel toggle switches to the 'ON' position: toggle the instrument holders toward the red dot (see Fig. 20); toggle the manifold panel switches to the UP position (see Fig. 19). **NOTE:** If the vacuum comes on, reseal the vacuum handpieces in their holders.

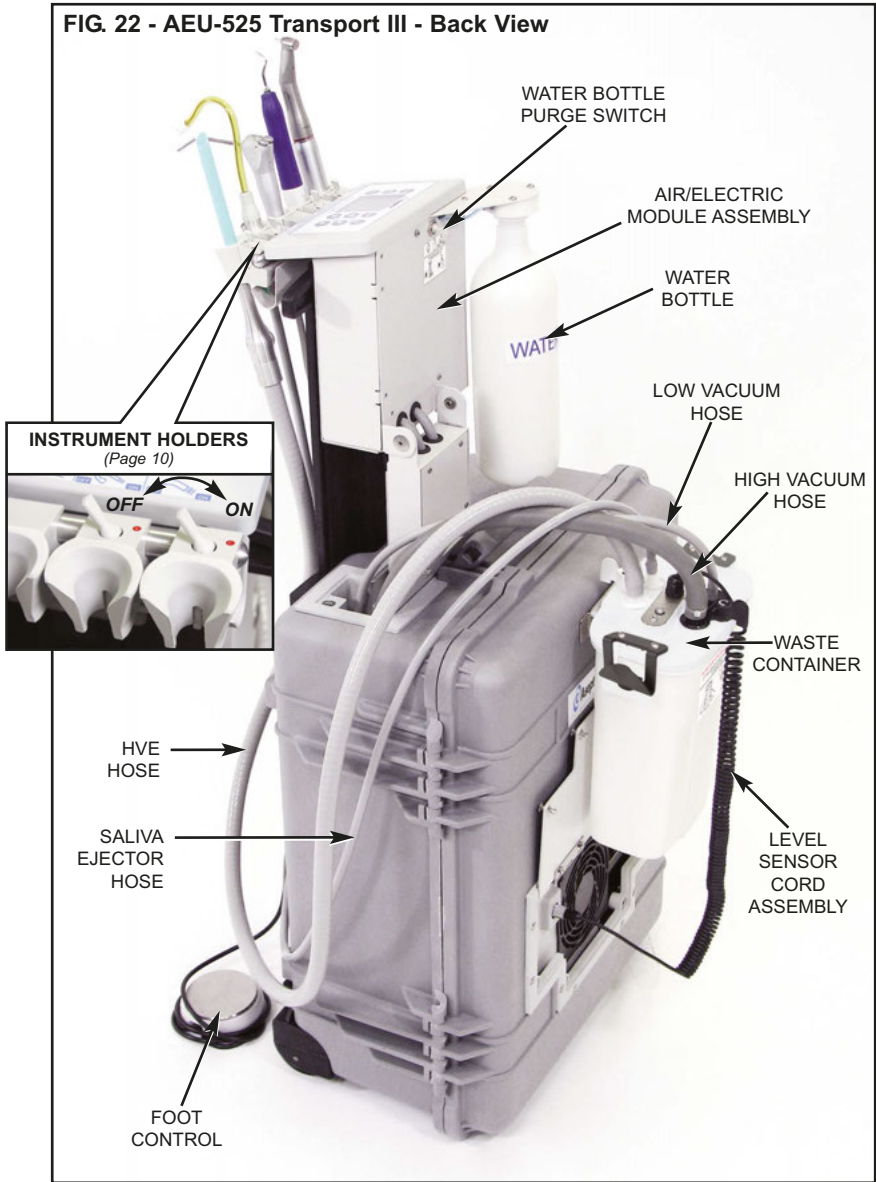




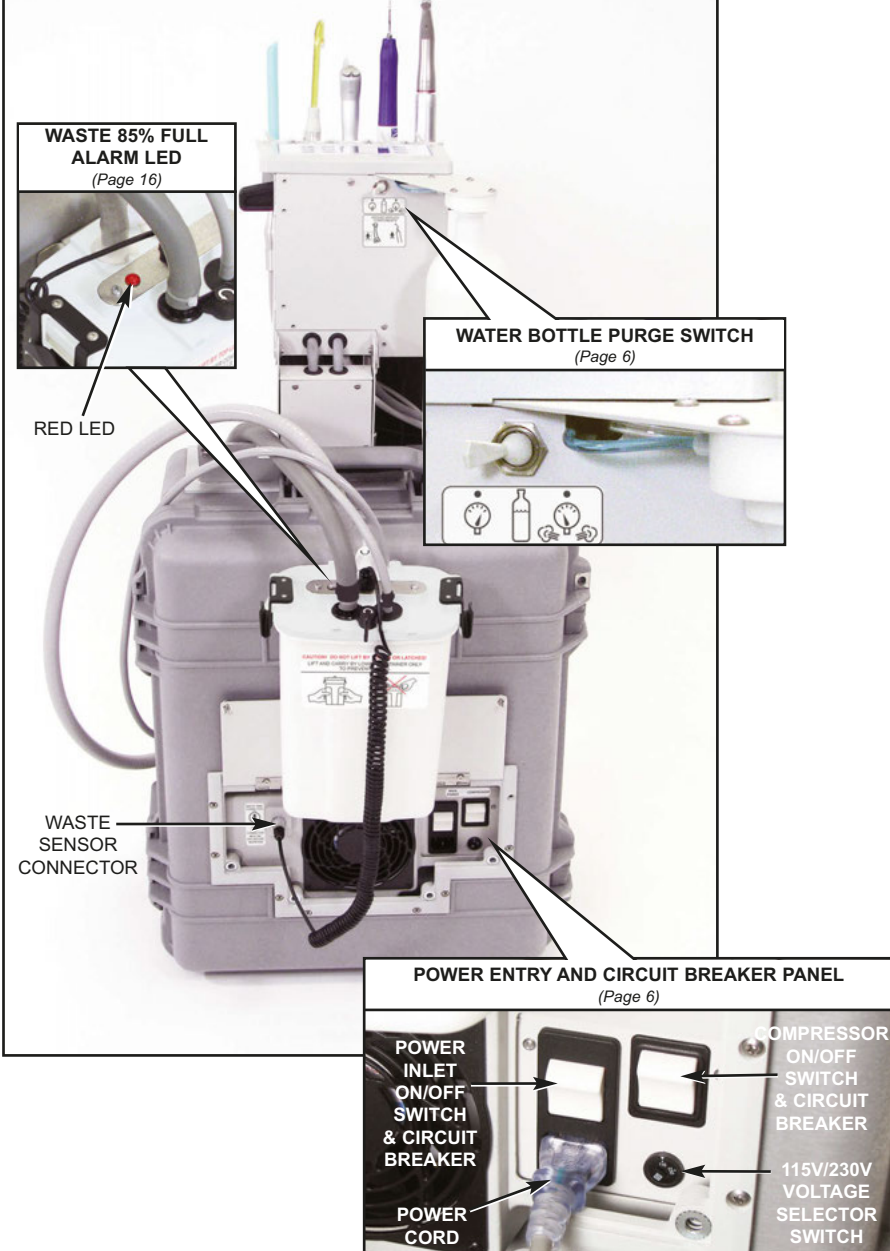
**FIG. 21 - AEU-525 Transport III - Front View**



**SETTING UP THE UNIT- *Cont'd***

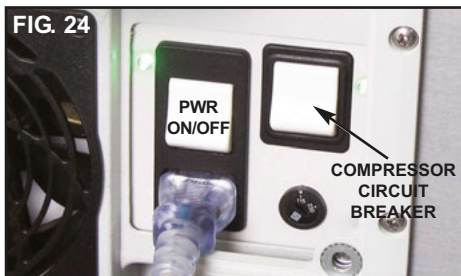


**FIG. 23 - AEU-525 Transport III - Back View**



## OPERATION FUNCTIONS:

1. **ON/OFF POWER SWITCH & CIRCUIT BREAKER** (Fig. 24) - Controls power On/Off to the Transport III. When the unit is turned On, the green LED next to the power switch will illuminate.
2. **COMPRESSOR CIRCUIT BREAKER SWITCH** (Fig. 24) When the switch is On (circuit closed/continuity complete), the compressor will start and the green LED next to the switch will illuminate. When the switch trips open (continuity interrupted) due to a compressor overload, the switch and LED turn Off. Simply turn the switch back On to reset breaker. **NOTE:** If switch is found in a neutral position (midway between On and Off), find and correct the fault then turn the switch to the On position. **IMPORTANT:** The switch should be left in the On position when not in use.

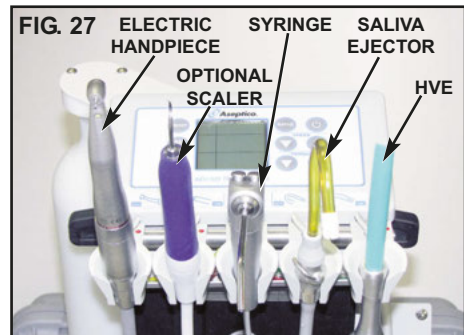
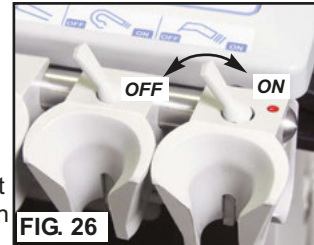


3. **ON/OFF FOOT CONTROL** (Fig. 25) – The Foot Control provides On/Off operation to the motor, water, and air coolant to the handpiece, and the handpiece light, when the electric motor is removed from its holder and its water & air toggle switches are toggled 'ON'. The Foot Control also provides On/Off operation to the optional ultrasonic scaler and water coolant to the scaler when the scaler is removed from its holder and the water toggle switch is toggled 'ON'. For instrument operation, apply foot pressure to any part of the disk. The instrument holder toggle must



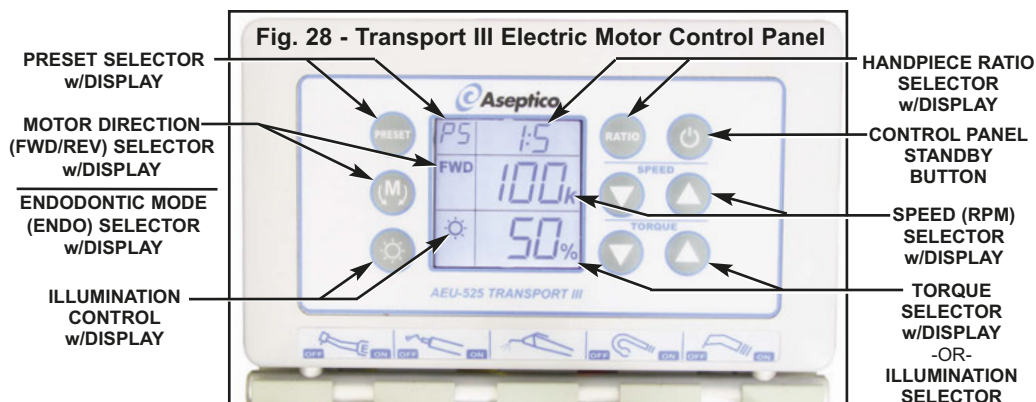
be 'On' and the instrument removed from its holder before operation can begin. **NOTE:** The HVE and saliva ejector are not controlled by the Foot Control - they will automatically start when removed from their holders and their toggle switches are On.

4. **INSTRUMENT CONTROLS** (Figs 26 & 27) The Transport III includes controls for the motor, vacuum valve holders, and optional scaler. These holders include an On/Off toggle switch (Fig. 26) which when turned 'Off' (toggle to the left), keeps the instrument off, even when removed from its holder. When the toggle switch is turned 'On' (toggle toward the red dot), the instrument will automatically activate when removed from its holder.



5. **ELECTRIC MOTOR AND CONTROL PANEL** (Fig. 28) - There are two different control modes that can be used to operate the Transport III electric motor: Manual Mode using the console buttons, or Preset Mode using the preprogrammed Presets:

**A. MANUAL OPERATION** - When the electric motor is not running, the user can adjust its ratio, speed, torque, motor direction, and motor LED settings using the control panel keypad (The Preset indicator in upper left of LCD display will blink on and off, indicating the change):



1) Depress the Standby button to turn electric motor control panel on or off. If the console was turned off using the Standby button, the Display will darken and all the buttons, except the Standby button, will become inoperative. Press the Standby button again to turn on the control panel and return the motor to its last used settings.



2) Press the **RATIO** button repeatedly to select the ratio that matches the handpiece being used. Available ratios are: 1:5, 1:2, 1:1, 5:1, and 8:1.



**NOTE:** The user can reprogram the unit to display only a preferred set of ratio(s) from the five available options. Refer to page 12 for complete instructions on Customizing Ratios.

3) Press the **SPEED** Up/Down buttons to select the desired operating speed for the handpiece being used. See Figure 29 for handpiece speed ranges.



4) Press the **TORQUE** Up/Down buttons to select the desired operating torque percent-age.



**Fig. 29 - Transport III Speed Ranges**

1:5	10,000 - 200,000	RPM
1:2	4,000 - 80,000	RPM
1:1	2,000 - 40,000	RPM
5:1	400 - 8,000	RPM
8:1*	280 - 5,000	RPM

\*280 - 1300 RPM in ENDO Mode

5) Press **MOTOR DIRECTION** button repeatedly to cycle through and select the Forward (FWD) or Reverse (REV) settings. An audible beep indicates reverse direction when the motor is running.



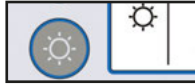
6) To switch the electric motor to Endodontic operating mode, first select the 8:1 handpiece ratio, then press the **MOTOR DIRECTION** button repeatedly until the word "ENDO" appears in the Motor Direction window. Next, select the desired Torque level using the UP/DOWN Torque buttons. The unit is then ready to operate in ENDO mode - the rotation of the handpiece will automatically alternate between forward and reverse when the selected torque is reached (in order to free the instrument).





## OPERATION FUNCTIONS - *Cont'd*:

7) Press and release the **ILLUMINATION** button to turn the handpiece LED On/Off. To activate the handpiece



and LED, remove the handpiece from its holder, turn the Illumination button 'On', and press the foot pedal to operate the motor. When the foot pedal is released and the motor has stopped, the light will turn off after approximately 20 seconds.

Press and hold the Illumination button for three seconds to enter the LED intensity adjustment mode. When in this mode, press the Torque Up/Down buttons to select the desired illumination in 10% increments, from 10% to 100%. The handpiece LED will automatically turn on and change intensity as the adjustments are made. The display icon will also blink as the adjustments are made. To exit the adjustment mode, press and release the Illumination button.

**B. PRESET OPERATION** - The Transport III electric motor module is shipped with five preprogrammed factory Presets for each ratio (see Fig. 31, page 13). This allows the user to instantly access a wide range of settings. After the handpiece ratio has been selected, press the Preset Button repeatedly to cycle through five different Presets (P1 - P5). When the desired Preset is displayed, its operating parameters are automatically activated. Each Preset can store the following parameters:



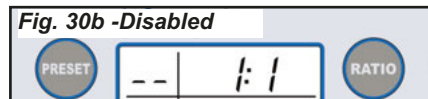
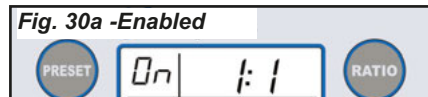
- Bur/Drill Speed
- Motor Direction
- Torque Setting
- LED Light 'On' or 'Off'
- Endo Mode Activation (8:1 handpiece ratio only)

**NOTE:** The electric motor is programmed at the factory to initially start up with Ratio 1:5 and Preset No.1 active. Subsequently, when the System power is turned on, the last settings used will be activated.

## CUSTOMIZING RATIOS:

The user can enable or disable individual handpiece ratio options, so that only preferred or commonly used ratios are displayed during the ratio selection process. Follow these steps to reprogram the unit with customized ratio options:

1. Press and hold the Ratio button to enter the Ratio Customization Mode.
2. Press the Ratio button repeatedly to switch between the available ratio options. Each Ratio displays in the Ratio window as the user cycles through the five options.
3. When the desired ratio is displayed, press the Preset button to toggle the ratio to either enabled or disabled status. The word "On" will appear in the Preset display window when enabled, and two dashes "--" will appear when disabled (see Figs. 30a & 30b).



4. Repeat Step 3 above for the remaining four ratio options until only the desired ratios are enabled.
5. Press and hold the Ratio button to exit the Ratio Customization Mode. Only the enabled ratios will be displayed when selecting Ratio options; any ratio that has been disabled will not be displayed (unless you re-enable it).

**NOTE:** The system must always have at least one ratio option enabled. If the user attempts to disable the last operational ratio, the system will emit a beep sound and ignore the user's command to disable this remaining option.

**NOTE:** If the factory defaults are restored, all customized Ratio option settings will be overwritten.

**Figure 31 - Factory Default Presets**

RATIO	PRESET NO.	SPEED (RPM)	DIRECTION	TORQUE	ENDO MODE (8:1 Ratio Only)	HANDPC LED
1:5	1	200,000	FWD	100 %	—	On
	2	150,000	FWD	100 %	—	On
	3	150,000	FWD	50 % Torque Limit	—	On
	4	100,000	FWD	100 %	—	On
	5	100,000	FWD	50 % Torque Limit	—	On
1:2	1	80,000	FWD	100 %	—	Off
	2	60,000	FWD	100 %	—	Off
	3	60,000	FWD	50 % Torque Limit	—	Off
	4	40,000	FWD	100 %	—	Off
	5	40,000	FWD	50 % Torque Limit	—	Off
1:1	1	40,000	FWD	100 %	—	On
	2	40,000	FWD	50 % Torque Limit	—	On
	3	20,000	FWD	100 %	—	On
	4	10,000	FWD	100 %	—	On
	5	8,000	FWD	100 %	—	On
5:1	1	2,000	FWD	100 %	—	On
	2	1,500	FWD	100 %	—	On
	3	1,200	FWD	100 %	—	On
	4	800	FWD	100 %	—	On
	5	400	FWD	100 %	—	On
8:1 (ENDO MODE)	1	300	FWD	100%	YES	Off
	2	300	FWD	70%	YES	Off
	3	300	FWD	50%	YES	Off
	4	300	FWD	30%	YES	Off
	5	300	FWD	10%	YES	Off

### CUSTOMIZING PRESETS:

Each Preset can be customized by the user with its own unique set of operating parameters:

- 1) First select the Ratio, then select the Preset number of the Preset you wish to customize.
- 2) Adjust the Preset's speed, torque, handpiece illumination, and motor direction as desired. **NOTE:** The ENDO Mode feature can only be enabled when an 8:1 ratio is selected. The Preset indicator will blink on and off, indicating a change is in process.
- 3) Press and hold the Preset button to

save its new settings (a beep will sound).

- 4) Press the foot pedal to activate the motor and begin operation.

**FACTORY DEFAULTS:** The electric motor module will retain the factory default settings (Fig. 31) in memory until changed by the user. To recall the original factory defaults, press and hold the PRESET and RATIO buttons simultaneously for approximately 3 seconds. **IMPORTANT:** When factory defaults are recalled, all user-customized Ratio and Preset settings will be overwritten.

## OPERATION FUNCTIONS - *Cont'd*:

### SLEEP MODE:

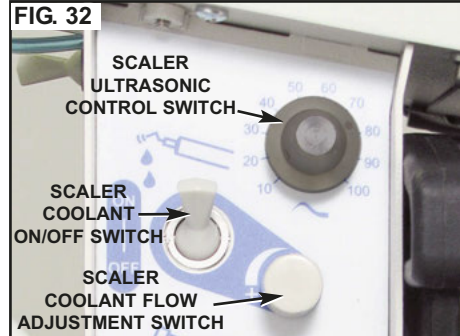
After 20 minutes of motor inactivity, the electric motor module automatically enables an energy-saving Sleep Mode which turns off the display. When in this mode, three square symbols will blink consecutively across the darkened LCD.

To turn the unit on again and light up the display, the user can either press the standby button on the control panel or remove the handpiece from its holder and then press on the foot pedal. The last used settings will be restored.

6. **OPTIONAL SCALER** (Fig. 32) – The Transport III can be equipped with an optional piezoelectric scaler system that provides adjustable ultrasonic levels and a water coolant system. The scaler includes 3 instrument tips: The #37 instrument is specially developed for subgingival scaling, furcations, supragingival fine scaling and spot removal. The #38 tip is used for lingual and buccal subgingival scaling and furcations. The #39 tip is used for universal lingual and buccal supragingival scaling.

The scaler is controlled by the scaler ultrasonic setting adjustment knob which is located on the left side of the optional air/electric module, on the manifold control panel (see Fig. 32). The ultrasonic intensity can be adjusted by turning the control knob clockwise to maximum or counterclockwise to minimum. When scaling, follow the tip manufacturer's recommended ultrasonic settings for each tip.

The coolant level is controlled by the scaler water On/Off toggle switch and the coolant flow adjustment knob, located just below the ultrasonic adjustment knob (see Fig. 32). Turn knob counter-clockwise to increase coolant flow; or clockwise to decrease coolant flow.



Verify that the optional scaler's coolant flow of no less than 20ml/min is available at the tip.

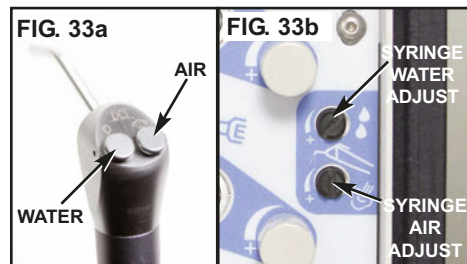
SEE ACCOMPANYING SCALER DOCUMENTS



### WARNING:

Ensure proper coolant flow before using the optional scaler on a patient. Heat emitted by the scaler may damage teeth if coolant water is not atomized at the scaler tip.

7. **3-WAY AIR/WATER SYRINGE** (Fig. 33a)
- Pressing the left button dispenses water.
  - Pressing the right button dispenses air.
  - Pressing both buttons simultaneously dispenses an air/water mist. This mist can be adjusted with the two syringe flow control knobs located on the manifold control panel (see Fig. 32b). The top knob adjusts the water flow and the bottom knob adjusts the air flow. Turn the knobs clockwise to decrease the flow or counterclockwise to increase the flow.

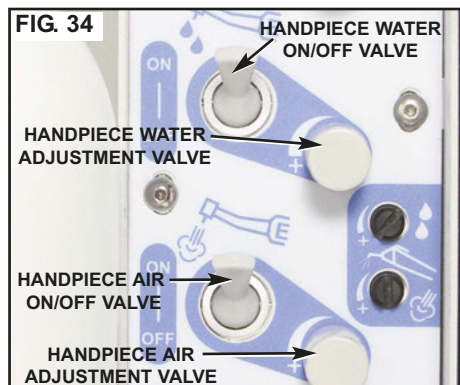


## 8. HANDPIECE CONTROLS:

**Water** - The handpiece water toggle valve allows water to flow to the working handpiece when the foot pedal is depressed. The toggle valve is located on the manifold control panel (see Fig. 34). Place the toggle in the upward position to turn handpiece water On or downward to turn it Off.

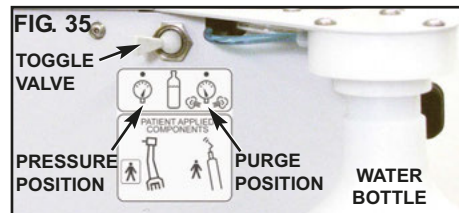
A water control valve is also provided to adjust the volume of water flow to the handpiece. This valve is located next to the toggle valve (Fig. 34).

**Air** - The handpiece air toggle valve allows air to flow to the working handpiece when the foot pedal is depressed. The toggle valve is located on the manifold control panel (see Fig. 34). Place the toggle in the upward position to turn handpiece air On or downward to turn it Off. An air flow control valve is also provided to adjust the volume of air to the handpiece. This valve is located next to the toggle valve (Fig. 34).



9. **WATER SUPPLY BOTTLE** (Fig. 35) - The Transport III incorporates a self-contained pressurized water system. The system consists of one 1-liter bottle with a pressure release toggle valve that allows pressure to be released from the bottle while maintaining system pressure. To refill the water supply bottle:

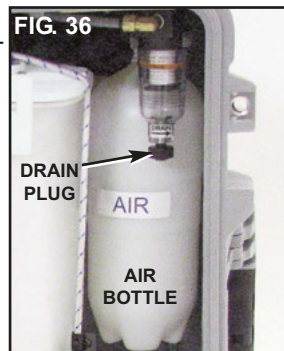
- a.) Toggle the bottle pressure relief valve to "PURGE" (see Fig. 35) to remove pressure from the water bottle.
- b.) Unscrew the bottle from its cap.
- c.) Fill bottle with water or other non-saline solution.
- d.) Screw bottle back into its cap.
- e.) Toggle the pressure relief valve back to "PRESSURE" to repressurize the bottle.



### WARNING:

Before removing the Water Supply Bottle, toggle the water pressure relief valve to the "PURGE" position, allowing pressure to release.

10. **AIR BOTTLE** (Fig. 36) - The 750ml air bottle is located inside the upper right corner of the case and stores pressurized air for the 3-way air/water syringe. The bottle includes a filter equipped with a drain plug that allows condensation to be removed. To drain condensation, place a container or towel or below the filter and use pliers to carefully loosen the black knob on the bottom of the filter.



### IMPORTANT:

To open the drain, turn the black knob clockwise (follow arrow on "DRAIN →" label); to close drain, turn the knob counter-clockwise. Do not overtighten.

## OPERATION FUNCTIONS - *Cont'd*:

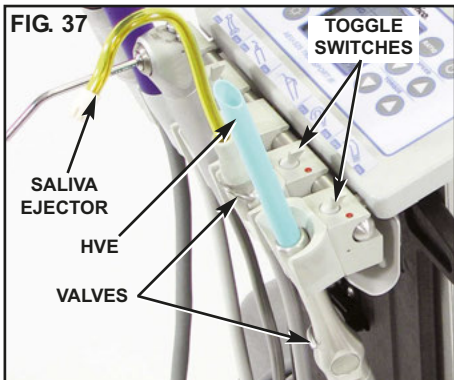


### **WARNING:**

Before removing the Air Bottle, vent all reserve air pressure in the bottle. Press the right (Air) button on the 3-Way Air/ Water Syringe, or turn either the HVE or LVE toggle switches 'On' with unit power off, to depressurize the air.

### 11. HVE AND SALIVA EJECTOR VACUUMS

The unit is equipped with a high volume evacuator (HVE) and low volume saliva ejector system (Fig. 37). Both high and low volume systems can operate simultaneously. When the vacuum holder toggle switches are toggled Off (to left side), the vacuum system will stay off, even when the vacuum valves are removed from their holders. When the vacuum holder toggle switches are toggled On (toward the red dot), the vacuum will start automatically when the vacuum valves are removed from their holders.



12. **WASTE CONTAINER** -- When the HVE or saliva ejector instruments are in use, the vacuum pump will run and waste from the vacuum system will collect in the 1.8 liter plastic waste container located on the back side of the unit (Fig. 38). The container provides two separate waste compartments: one for HVE and the other for the saliva ejector. (The HVE compartment contains a vacuum-intake screen for collecting large debris.) Each compartment includes its own 85%-full sensor. When either one of these sensors reaches the 85%-full level, an audible alarm will start to

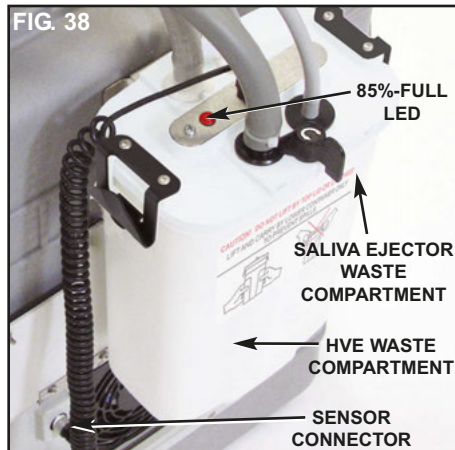
### **IMPORTANT:**

To prevent the HVE and Low Volume (Saliva Ejector) compressor system from running excessively, ensure that the vacuum heads are firmly cradled in their holders after each use and that their control levers are toggled 'Off'.

beep and a red LED on the tank lid will flash (see Fig. 38). If both compartments continue to fill, the compressor/cacuum pump will automatically shut down before either compartment reaches 100% full. The alarm will sound until the container is emptied - **To empty Waste Container:**

1. Disconnect vacuum hoses and level sensor wire connector.
2. Detach waste container assembly from unit and carry container and contents to proper waste disposal location.
3. Unsnap lid and empty both container compartments (side-pour out), then rinse out container.
4. Replace lid, reattach container assembly to unit, and reconnect hoses and level sensor.

FIG. 38



13. **AUXILIARY WATER OUTPUT** (Fig. 21)-- Water or other solutions placed in the water bottle can be withdrawn through the auxiliary water output using an Asepticco fitting (PN AA-60) attached to tubing. The output has an auto shutoff to prevent leakage.



## OPERATION:

1. After the Transport III unit has been set up and you have made yourself familiar with the operation functions, you are ready for operation as follows:
2. Turn the power and circuit breaker switches on the rear of the case to the 'On' (I) position. The green LEDs next to the switches and the electric motor control panel display will light up, and the unit will pressurize. **NOTE:** If electric motor control panel doesn't illuminate, press the Standby Button to turn the panel On.
3. Toggle the instrument holder toggle switch of the instrument to be used to the 'On' position (pointed toward the red dot).
4. Check the pressure gauge on the side of the air/electric module and ensure that the system operating pressure is within the acceptable 45 - 55 PSI range.
5. **Using the Electric Motor:**
  - a. Attach the proper sterile E-type handpiece to the motor and set the RATIO Selector to match the gear ratio of the handpiece being used (i.e. 1:5 for a 1:5 increaser handpiece, or 8:1 for a 8:1 reduction handpiece).
  - b. Select the desired preprogrammed PRESET on the display panel, OR, manually adjust the speed, torque, motor direction, electric motor LED, or ENDO settings using the panel keypad:

**SPEED** - Adjust the up/down SPEED arrows on the display to the desired RPM.  
**NOTE:** When selecting the SPEED, ensure that the Ratio Selector matches the handpiece ratio. The RPM display will indicate bur speed when the Ratio Selector is set to the proper gear ratio.

**TORQUE** - Adjust the up/down TORQUE arrows on the display to the desired torque.

**MOTOR DIRECTION** - Select either forward (FWD) or reverse (REV) direction on the display.

**ILLUMINATION** - If using a handpiece with LED illumination, turn the LED button on the display On or Off.

**ENDO MODE** - To select endodontic operating mode (8:1 handpiece ratio must first be selected) press the Motor Direction button repeatedly until "ENDO" appears in the Motor Direction window.

### 6. Handpiece Water/Air:

Toggle the handpiece water and air toggle valves, located on the side of the air/electric module, to the On position (pointing upward). Adjust the handpiece water and air flow control knobs to the desired settings. (Turn clockwise to decrease flow, counterclockwise to increase.)

**NOTE:** Some compressed air is used to cool the motor and handpiece. This air vents around the LED and axially through the E-coupling to the handpiece.

### IMPORTANT:

Turn Off the handpiece water and air when using handpieces that do not support internal irrigation.

### 7. Using the Optional Ultrasonic Scaler:

*See accompanying documents.*

- a. Toggle the Scaler Water Toggle Switch, located on the side of the optional air/electric module, to the On position (pointing upward).

## OPERATION - *Cont'd*:

**b.** Screw on a sterile Instrument Tip to the Scaler handpiece and tighten it firmly. Turn carefully backwards approximately 1mm. This will put the tip in a neutral position so it can move freely.

**IMPORTANT:** Rinse the water line before attaching tip by pressing the foot switch and allowing the water to flow for 30 seconds.

**c.** Turn the Scaler Water Flow Control knob to the desired setting (clockwise to decrease flow, counterclockwise to increase). The water should create a mist around the Scaler tip.

**d.** Adjust the Scaler Ultrasonic Setting knob to the desired setting.



### **WARNING:**

Ensure proper coolant flow before using the optional Scaler on a patient. Heat emitted by the Scaler may damage teeth if coolant water is not atomized at the Scaler tip.

### **8. Using the 3-Way Air/Water Syringe:**

**a.** Use the syringe as necessary for irrigation or drying. Press left button for water, right button for air, or both buttons simultaneously for a mist. **IMPORTANT:** A plastic dental barrier sheath made for the 3-way syringe must be used on syringes that have not been autoclaved.

**b.** Adjust the water and air flow by using a screwdriver to turn the two small adjustment screws located on the side of the air/electric module. Upper screw controls water, lower screw controls air. Turn screws clockwise to decrease flows, counterclock-wise to increase flows.

### **9. Using the HVE and Saliva Ejector Vacuums:**

Adjust the vacuum pressure on the HVE (high vacuum) and saliva ejector (low vacuum) by moving the control levers on their respective valve heads.

**10.** Remove the instrument to be used from its holder.

**11.** Press the foot control to activate motor or scaler and begin operation.

**12.** Empty the waste container when the 85%-full alarm sounds or when the red LED located on the container lid flashes.

**NOTE:** The unit's vacuum system will automatically shut down if the waste tank is not promptly emptied. The audible alarm will also continue to sound until the container is emptied.

## STERILIZATION AND MAINTENANCE:

Because of its simple design, the Aseptico AEU-525 Transport III System requires very little maintenance. Any maintenance that is needed can be performed in minutes.

### PURGING THE SYSTEM:

If the unit will not be used for an extended period of time, or if the unit might be subjected to freezing conditions, the user should purge the system of all water. Simply empty the contents of the water bottle and install it back into its cap, then operate the air/water syringe, scaler, and handpiece with water coolant 'ON' until only air comes through the water lines. Pack the unit and store as normal.

### HANDPIECES:

Thorough cleaning and lubrication of E-type 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 instructions. When sterilizing

**IMPORTANT!** Protect motor from excess oil draining from handpieces. After lubricating and before autoclaving, stand handpiece on its base, on a paper towel, and allow excess oil to drain (see Fig. 39).



### ELECTRIC MOTOR & CORD ASSEMBLY:

The entire Electric Motor and Cord Assembly is fully autoclavable (Fig. 40). Steam autoclave motor/cord assembly at 132° C (270° F) for ten minutes. Loosely coil the motor cord when autoclaving. Avoid sharply bending the cord when autoclaving. Alternatively, wipe down the motor cord with disinfecting solution, and/or sleeve the cord between each patient.

### ELECTRIC MOTOR O-RINGS:

Replace electric motor O-rings when worn

**Fig. 40 - MOTOR & CORD STERILIZATION**



### WARNING

- Do not attempt to disassemble the motor or motor connector.
- 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.

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

### CAUTION:

The Electric Motor is sensitive to shock. Do not drop or impact motor against a hard surface.

### CAUTION FOR ALL STERILIZATION:

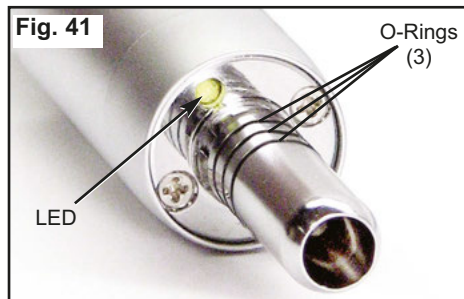
- Do not exceed 135° C or 275° F
- Do not submerge in any solutions
- Do not use ultrasonic cleaners

or damaged (see Fig. 41, page 20). Gently peel old O-rings out of grooves and replace with new rings (PN 520069). Occasionally apply non-toxic lubricant (preferably containing PTFE) to O-rings to maintain flexibility.

### LARGE O-RINGS (On Air/Electric Module and High/Low Vacuum Lines):

Keep all O-rings lubricated with PTFE lubricant. Periodically inspect rings for damage or excessive wear -- damaged or worn O-rings will create vacuum leaks, degrading system performance.

## STERILIZATION AND MAINTENANCE - *Cont'd:*



### MOTOR LED LENS CLEANING:

The lens of the LED light on the motor (see Fig. 33) is soft and can be damaged. It should not be exposed to dust and debris. Excessive dust and debris may cause a drastic decrease in optical output. In the event that the light requires cleaning, first try a gentle swabbing, using a lint-free swab. If needed, use a lint-free swab and isopropyl alcohol to gently remove dirt from the lens. **Do not use other solvents** as they may adversely react with the LED assembly.

### GENERAL CLEANING:

The external surfaces of the chassis should be cleaned using a soft cloth moistened with a mild detergent solution. Any external surfaces of the unit that are contacted during use should be wiped down with a soft cloth moistened with a disinfectant at the beginning of each day and between each patient use.

### WATER LINES:

Disinfect the water lines weekly. Prepare a 1:10 bleach solution (1 part household bleach to 9 parts water). Remove water bottle and discard residual water. Replace empty water bottle and air purge all waterlines. Fill water bottle with bleach solution. Run bleach solution through all lines. Allow bleach solution to stand in lines for 10 minutes. Remove water bottle and discard bleach. **Flush water bottle and all lines thoroughly with clean water.** Air purge and leave lines dry until next clinical use.

### CAUTION:

Do not run saline solutions through the water system -- saline will rust the water filters.

### VACUUM SYSTEM:

The HVE and low volume saliva ejector valves are fully autoclavable. Remove the valves from their hoses before autoclaving. The vacuum hoses should not be autoclaved. Clean hoses with a disinfectant solution. **CAUTION:** Use only NON-foaming cleansers in the vacuum lines.

### AIR BOTTLE FILTER:

Routinely check the air bottle filter once a day for condensation. To drain condensation, place a towel or container below the filter and use pliers to carefully loosen the black knob on the bottom of the filter. **IMPORTANT:** To open the drain, turn the black knob clockwise (follow arrow on "DRAIN →" label); to close drain, turn the knob counterclockwise. Do not overtighten.

### WASTE SYSTEM CLEANING:

Empty and clean the waste system whenever the level alarm occurs. Also empty and clean it routinely once a day or before the unit is to be shipped or stored. Follow these steps:

- 1) Empty all waste from the waste container, including any solids trapped in the HVE strainer in the waste container lid.
- 2) Prepare approximately 2/3 liter of 10% bleach/water solution in a separate container. Submerge the end of the high-vacuum ejector (HVE) into this bleach solution and pull no more than 1/3 liter of the solution through the line into the waste container. Repeat this process for the saliva ejector (low vacuum) line. **IMPORTANT:** The solution will enter the waste container at a very high rate -- Care must be taken not to overfill the container's waste compartments.
- 3) Discard bleach solution. All components of the waste container, including the lid assembly and waste container strainer, can be safely rinsed with 10% bleach solution. (**NOTE:** Take care to ensure that water is kept off the level-sensor electrical connector on the case.) Rinse and dry tanks and the lid. If unit is to be shipped or stored, hang vacuum lines vertically to allow any residual water to drain before packing.

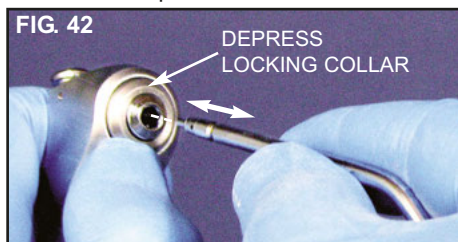
### 3-WAY AIR/WATER SYRINGE:

Depress the right button for air operation, and the left button for water operation. Depressing both buttons will create a mist. The 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 (Fig. 42). To insert a new tip, press locking collar and push tip into socket as far as it will go. Release ring 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.



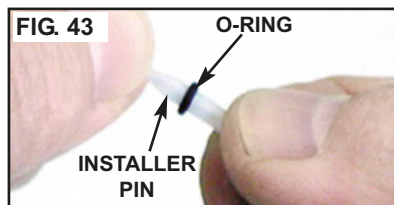
### OPTIONAL ULTRASONIC SCALER:

The optional scaler's handpiece cover and scaler tips are fully autoclavable. Disinfect and clean the cover and tips before autoclaving. Autoclave at a maximum temperature of 135° C (275° F) for 10 minutes or 120° C (248° F) for 20 minutes. Wipe off the scaler handpiece and its silicone hose with a soft cloth. Use a 45% isopropal and detergent solution. **DO NOT IMMERSE** the handpiece in any fluid or spray any fluid directly on the handpiece.

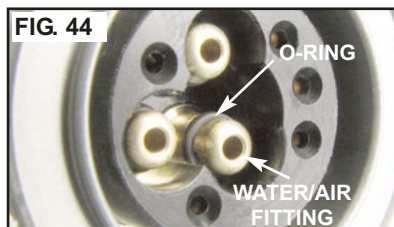
### MOTOR/CORD RECEPTACLE O-RINGS

The O-rings (PN 520081) for the three water/air ports in the motor/cord receptacle should be replaced if damaged or worn. Use the provided O-ring installer pin and sleeve to replace the O-rings:

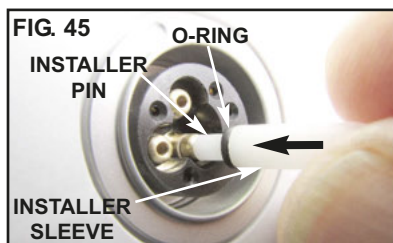
1. Remove old O-ring from water or air port fitting.
2. Slide new O-ring over pointed end of installer pin, onto the pin's shank (see Figure 43).



3. Insert pointed end of installer pin into open end of installer sleeve until O-ring stops against end of tool.
4. Position concave end of installer pin against end of water/air port fitting (see Figure 44).



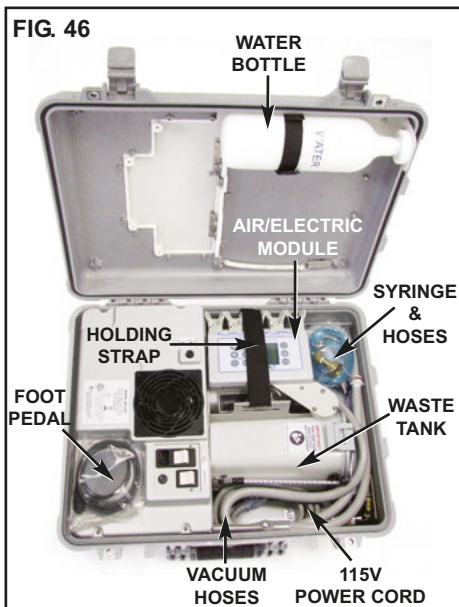
5. Push installer sleeve inward, until new O-ring seats into groove on fitting (see Figure 45).





## TRANSPORT III REPACKING INSTRUCTIONS:

1. Remove all water and liquid wastes from water bottle and/or waste container. Clean the bottle and container per the instructions found on page 20.
2. Remove all accessories (handpieces, evacuator tips, syringe tips, etc.) from the unit and pack into case.
3. Disassemble the system's components in the reverse order of the instructions provided in the Setup Section, pages 3-9.



4. Strap water bottle into place inside the case lid as shown in Fig. 46.
5. Strap air/electric module into case as shown in Fig. 46 with strap provided.
6. Secure waste tank in place with the tie-down provided. Note "This Side Out" label.
7. Coil motor and cord, put into plastic bag and place in bottom of case, just to the right of the air/electric module. Place syringe assembly on top of motor/cord.
8. Coil suction hoses from waste tank around tank as shown (Fig. 46).

9. Coil foot pedal cable around pedal, put into plastic bag and place on top of motor housing, in the recess shown in Fig. 46.
10. Coil the two power cords and position on top of the waste tank and air bottle as shown in Fig. 46.
11. Carefully close case lid, taking care not to pinch any internal components.
12. Locate the shipping carton and two foam inserts that were originally shipped with the unit. Position one foam insert into the bottom of the case with the cutout facing up. Grasp the side-handle on the unit case, align it to the cutout in the foam and carefully lower the unit into the insert (Fig. 47).
13. Align the second foam insert to the exposed side of the case and carefully lower it down onto the case. Firmly push the foam down into the cardboard carton so that it's flush with the edges of the carton (Fig. 48).



### CAUTION:

BEFORE REPACKING THE TRANSPORT III INTO ITS CASE, ALWAYS REMOVE ALL WATER AND LIQUID WASTES FROM WATER BOTTLE AND WASTE CONTAINER.

ALWAYS LIFT DENTAL UNIT USING THE HANDLES PROVIDED.

WHEN TRANSPORTING UNIT, DO NOT PLACE HEAVY OBJECTS ON TOP OF SHIPPING BOX..




























## TROUBLESHOOTING:

Problem:	Correction:
Unit will not start:	<ul style="list-style-type: none"> <li>• Check system power connection.</li> <li>• Check if both circuit breaker switches are On.</li> <li>• Check if waste container sensor is connected.</li> <li>• Check if waste container is full.</li> </ul>
Unit starts but trips circuit breaker:	<ul style="list-style-type: none"> <li>• Check source circuit to see if it is a minimum of 15A.</li> <li>• Check voltage selector switch for proper voltage.</li> </ul> <p><b>NOTE:</b> Operating the unit off an extension cord is not recommended.</p>
No water pressure:	<ul style="list-style-type: none"> <li>• Check water supply bottle water level. Verify that cap is tight and not cross-threaded.</li> <li>• Check that water supply pressure toggle is in the 'PRESSURE' position.</li> </ul>
Insufficient vacuum:	<ul style="list-style-type: none"> <li>• Check HVE and saliva ejector vacuum hose assemblies for blockage; empty the HVE strainer.</li> <li>• Check that the waste container lid is properly seated and tightly secured.</li> <li>• Check that holder toggle switch is On.</li> </ul>
Insufficient handpiece operation:	<ul style="list-style-type: none"> <li>• Check the pressure gauge on the side of the air/electric module and ensure that system pressure is sufficient.</li> <li>• Check that handpiece tubing is untangled and not crimped.</li> <li>• Check handpiece connection for missing or broken gasket.</li> </ul>
No water to handpiece:	<ul style="list-style-type: none"> <li>• Check that handpiece water toggle on side of air/electric module is 'On'.</li> <li>• Check that the water flow control valve to the handpiece is open (counterclockwise).</li> </ul>
No coolant air to handpiece:	<ul style="list-style-type: none"> <li>• Check that handpiece air toggle on side of air/electric module is 'On'.</li> <li>• Check that the air flow control valve to the handpiece is open (counterclockwise).</li> </ul>
Electric motor control panel does not light up when on:	<ul style="list-style-type: none"> <li>• Press Standby Button on control panel.</li> </ul>
Electric motor control panel lights up when turned on, but handpiece does not turn:	<ul style="list-style-type: none"> <li>• Check motor plug connection.</li> <li>• Depress foot switch.</li> <li>• Turn holder toggle switch toward red dot.</li> <li>• Increase Torque setting</li> <li>• Check that a file or bur is properly seated in the handpiece.</li> </ul>
Electric motor slowing down or sluggish:	<ul style="list-style-type: none"> <li>• Increase torque setting.</li> <li>• Check for dirty, under-lubricated handpiece.</li> <li>• Check if handpiece lubricant is draining into motor. After lubricating and before autoclaving, stand handpiece on its base to let excess lubricant drain out.</li> </ul>
Electric motor handpiece light does not turn on:	<ul style="list-style-type: none"> <li>• Confirm that handpiece is a fiberoptic illumination type.</li> <li>• Press illumination button on control panel to turn light On and/or increase light intensity</li> </ul>
Vacuum doesn't turn off when hoses are in their holders:	<ul style="list-style-type: none"> <li>• Ensure that HVE and saliva ejector vacuum valves are placed firmly in their holders.</li> <li>• Check vacuum On/Off toggles on holders.</li> </ul>
Pressure fails to stabilize:	<ul style="list-style-type: none"> <li>• Check that air and water bottles are tight. Check line and fittings for air leaks.</li> </ul>
Pressure fails to turn off at 55 PSI:	<ul style="list-style-type: none"> <li>• Check for broken cable to pressure switch.</li> </ul>
Unit fails to build pressure:	<ul style="list-style-type: none"> <li>• Check that bottles are tight. Check wires for breaks to pressure regulation switch.</li> </ul>
Red LED on the waste container is lit:	<ul style="list-style-type: none"> <li>• Empty full waste container.</li> <li>• Check waste level sensor connection. Verify that connector contacts are dry.</li> <li>• Check that floats in waste container move freely.</li> </ul>
Compressor is on, but gauge shows no increase in pressure:	<ul style="list-style-type: none"> <li>• Check unloader valve to see if the valve is switched. Check the line from the compressor to the valve for a rupture. Check the electrical connections to the valve.</li> </ul>
HVE vacuum switch is On (toward red dot), but vacuum doesn't activate when hose is removed:	<ul style="list-style-type: none"> <li>• Inspect the toggle lever on the vacuum holder to see if it is stuck. Loosen the set-screw under the switch and adjust the switch for proper operation. Check instrument control switches on the air/electric module assembly.</li> </ul>
HVE vacuum pressure seems lower:	<ul style="list-style-type: none"> <li>• Check to see if the waste container lid is properly seated and tightly secured.</li> </ul>
Saliva ejector switch is On (toward red dot), but vacuum doesn't activate when hose is removed:	<ul style="list-style-type: none"> <li>• Inspect the toggle lever on the vacuum holder to see if it is stuck. Loosen the setscrew under the switch and adjust the switch for proper operation. Check the toggling connections to the air pilot valve and pump. Check to see if the air pilot valve is functioning by removing the line to the pump and seeing if air is present.</li> </ul>

## REPLACEMENT PARTS LIST

ITEM	PART NO	QTY
WASTE TANK ASSEMBLY AEU-525	330603	1
INLINE STRAINER WASTE CONTAINER (HVE STRAINER)	462124	1
O-RING .125ID X .070CS VT70 (AIR-JUNCTION)	520025	3
O-RING .320ID X .028 CS VITON 70 (E-HEAD)	520069	3
O-RING .042ID X .142 X .050 W VITON (MTR RECEPCL)	520081	3
O-RING .208 ID X .070 CS VITON AS568-009 (AIR-JUNCTION)	520121	3
O-RING .234ID X .070 CS SILICONE 2-010 (LVE FITTING)	520100	2
O-RING .549ID X .103 CS SILICONE 2-113 (HVE FITTING)	520101	2
FILTER INLINE ONLY 35 MICRON (FOR UNLOADER)	730001	1
FILTER 10-32 THRD STNLS 100 MICRON (WATER BOTTLE)	730326	1
BOTTLE 1 LITER (32 OZ) BLOW MOLDED HDPE (WATER)	730471	1
GASKET (FOR AIR & WATER BOTTLE LID)	730473	3
FILTER AIR 1/4"NPT X 1.19 GAST (INLET FILTER)	730494	1
BOTTLE 750 ML (25 OZ) BLOW MOLDED HDPE (AIR)	730657	1
LINECORD REMOTE US 10 FT HOSP GREY 15A/125A	840049	1
LINECORD REMOTE EURO BLACK 2.5 M	840007	1
O-RING FOR AA-35/36 PKG OF 4 AUTOCLAVABLE	AA-35LR	1
O-RING FOR AA-37 SET OF 3/PKG AUTOCLAVABLE	AA-37LR	1
SCALER TIP THIN SUBGINGIVAL	ASC-10-PE37	1
SCALER TIP SLIM UNIVERSAL	ASC-10-PE38	1
SCALER TIP POWER UNIVERSAL	ASC-10-PE39	1
SYRINGE TIP AUTOCLAVABLE	TA-1	1
SYRINGE 3-WAY AIR/WATER QUICK CHANGE TIP	TA-90D	1
MOTOR/CABLE ASSY AE-240SC-40 W/SHORT CABLE	AE-240SC-40	1

## SYMBOL DEFINITIONS:

	Type B Equipment		Saliva Ejector
	Type BF Equipment		High Volume Evacuator (HVE)
	Attention, consult accompanying documents		Pressure Gauge
	Consult Instructions For Use		Motor Direction
	Manufacturer		Light Controls
	Dangerous Voltage		Footswitch
	Alternating current		On/Off Switch - Mains
	Air		Atmospheric Pressure Limitation
	Water		Temperature Limitation
	Counterclockwise to Increase/Open Clockwise to Decrease/Close		Humidity Limitation
	Electric Handpiece		Protective earth (ground)
	Syringe	<b>IPX1</b>	Protect Against Dripping Water
	Scaler	<b>SN</b>	Serial Number
	Scaler Tip Ultrasonic Control		Do Not Lift by Top Lid Or Latches
			Pressurize / Purge Water Bottle Pressure



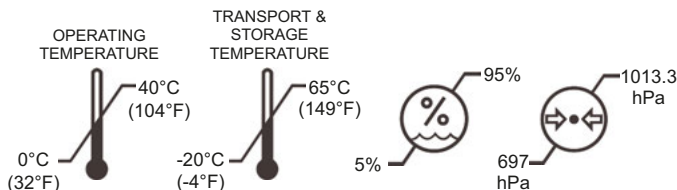
**DO NOT THROW INTO TRASH:**  
Dispose of electronic waste  
and waste containing amalgam  
in accordance with local regulations.

## SPECIFICATIONS:

Transport III Case Size:	17.93" W x 22.06" L x 10.43" H (45.5 cm x 56 cm x 26.5 cm)
525 Weight (fully loaded):	57 lbs (25.8 kg)
Power Source:	AC Manual-Switching 115/220/230 VAC at 60/60/50 Hz
Power Rating:	4.7A/4.9A at 50/60Hz, 115VAC 2.7A at 60Hz, 220VAC 2.3A/2.6A at 50/60Hz, 230VAC
Operating Pressure:	45 - 55 PSI (3.10 - 3.79 bar)
High Volume Vacuum:	5.8 SCFM @ 0" Hg (164.2 liters/min @ 0 cm Hg) 4.0 SCFM @ 4" Hg (113.3 liters/min @ 10.2 cm Hg)
Low Volume Vacuum:	1.2 SCFM @ 1.5" Hg (33.9 liters/min @ 3.8 cm Hg)
Simultaneous Vacuum:	High @ 4" Hg = 3.2 SCFM (90.6 liters/min @ 10.2 cm Hg) Low @ 1.5" Hg = 1.2 SCFM (33.9 liters/min @ 3.8 cm Hg)
Vacuum/Compressor Pump:	1.1 SCFM @ 50 PSI (31.0 liters/min @ 3.45 bar) Oilless Compressor
Water Reservoir Capacity:	33.9 fl. oz. (1.0 liters)
Air Storage Capacity:	25.4 fl. oz. (750 ml) nominal
Water Flow:	5.07 fl. oz./min (0.15 liter/min)
Waste Container Capacity:	0.48 gallon total/0.24 gal. per side (1.8 liters total/0.90 L per side) (NOTE: Capacities reflect liquid volumes up to shutoff levels.)
Noise Level:	70 dBA @ 3'4" (1 meter)
Case Duty Cycle:	Continuous
Compressor Duty Cycle:	Continuous when operating at 50/60 Hz
Electric Motor Duty Cycle:	17% (1 minute ON / 5 minutes OFF)
Environmental Conditions:	Operating Temperature: 0° to 40° C (32° to 104° F) Transport/Storage Temperature: -20° to 65° C (-4° to 149° F) Relative Humidity: 5% to 95% non-condensing Altitude: 0 to 3048 meters (0 to 10,000 feet)

### IMPORTANT

When running the AEU-525 unit at 50Hz, expect approximately 17% less vacuum and pressure volume due to slower turning of the compressor.





## 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.

**NOTES:**

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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