SERVICE MANUAL & PARTS LIST

AEU-525CF TRANSPORT III PORTABLE DENTAL SYSTEM





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GENERAL SERVICE INFORMATION

This service and parts manual offers information and parts lists not available in the AEU-525CF Transport III Operation and Maintenance Instruction Manual. It will help you better understand the operation of the Transport III system, thereby reducing service time. A Schematic Diagram Set includes assembly drawings with individual part numbers, plumbing diagrams, and electrical schematics. The plumbing and electrical diagrams show all air, water, and wiring components as installed in the unit. Individual parts are also listed and referenced to Figures with callouts in the Parts Lists. A Detachable Parts List is also included. Use the information in the Parts Lists when ordering replacement parts.

INSPECTION & OPERATION VERIFICATION

To verify that the Transport III unit is functioning properly, first

follow the Setup procedure in the Operation and Maintenance Manual or in the 525 Setup Video presented on the Aseptico website. The System is designed to operate from 110V or 230V 50/60Hz power. A manually operated



switch located next to the power inlet cord, allows the user to select the proper voltage (Fig. 1).

Turn both rocker switches on the motor housing to the 'ON' position. The left-hand switch turns the unit power On/Off. The right-hand switch acts as a circuit breaker for the compressor. Electrical overloads will trip both switches. Simply turn the switches back On to reset. 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. IMPORTANT: The switch should be left in the On position when not in use.

Toggle the water-bottle purge switch located on the back side of the air/ electric module to the "PRESSURE" position (Fig. 2a). Turn the main power switch, to the ON position. The compressor pump should pressurize the air and water bottles and maintain the system operating pressure at 45-55 PSI (3.10-3.79 bar). Check the pressure on the gauge located on the side of the air/electric module (Fig. 2b).



The Transport III System uses a single compressor motor with a split head. The split head provides pressure on one side and vacuum on the other. The vacuum side uses venturi boosters to increase the vacuum. The system pressure is regulated by a switch located on the right wall of the motor housing assembly. This switch activates the compressor when the pressure drops to approximately 45 PSI, and it stops the compressor when the pressure builds to approximately 55 PSI.

The electric motor/handpiece, scaler, and vacuum instrument holders are air-activated holders. If the High

Vacuum Evacuator (HVE) or low-volume saliva ejector instruments (Fig. 3) are removed from their holders or if they

aren't properly seated in their holders, the compressor will run continuously, even when the system pressure is fully pressurized. If the HVE and saliva ejector instruments are seated in their



holders properly but the compressor fails to turn off, turn the unit's power switch OFF and check for air leaks in the system. If the system pressure gauge is showing pressure, the leaking sound should be detectable. Use your ear, or place a tube to your ear like a stethoscope, to locate the source of the leak. If a leak can't be heard from any air lines or fittings, check the air and water bottles for tightness and the condition of their seals, and check the three O-rings from the junction block.

Air/Water Syringe

Check the 3-Way Air/Water Syringe (Fig. 4a) by depressing the air and water syringe buttons individually then both simultaneously for air/water mist. This mist can be adjusted

with the two syringe flow control knobs located on the manifold control panel (see Fig. 4b). 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.

Water Filter

Inspect the water filter (Fig. 5) on the end of the water pick-up tube that protrudes into the water supply bottle. If the filter becomes clogged and restricts the water flow, it needs to be cleaned by reverse flushing, or replaced. CAUTION: Do not run saline



COMPRESSOR

AIR FILTER

solutions through the water system -- saline will rust the water filter.

Air Filters

The system provides a dual filtration air system. The primary filter (Fig. 5a) is installed into the door frame on the case lid and is used in dusty environments. It



uses a foam filter that can be detached and cleaned. Simply pull the foam pad off the frame studs and clean with soap and water or compressed air. The secondary air filter is a cannister-type filter that threads into the compressor head (Fig. 5b). This filter should be replaced if it becomes clogged and restricts air flow.

Vacuum System

To check the function of the vacuum system, first allow the

system to reach full pressure. Check that all four tubes to the waste tank are fully seated and locked into their fittings on the top of the waste tank (Fig. 6a). Ensure that the waste tank level sensor is plugged into the connector on the unit's compressor housing (Fig. 6b). The system will not activate the compressor if this sensor is not connected properly.



Fill a container with one liter of water. Turn the valve on the low vacuum saliva ejector

instrument to the OFF position and submerge the HVE instrument into the container. It should take approximately 6 seconds to extract the liter of water from the container using the HVE. Refill the liter of water and turn the HVE instrument OFF and the saliva ejector to ON, then submerge the saliva ejector instrument into the container. It should take approximately 42 seconds to remove one liter of water using the saliva ejector.

Instruments:

To check the functions of the electric motor/handpiece and scaler, remove each instrument from its respective holder one at a time (see Fig. 3), and test the instrument, with coolant water and/or air flow. Both instruments are activated by the foot control.

Electric Motor/Handpiece

Remove the electric motor/handpiece from its holder (Fig. 3). A handpiece water ON/OFF toggle valve is located on the manifold control panel (Fig. 7). Place this toggle in the "ON"

position and depress the foot pedal. Ensure that coolant water flows to the handpiece. A water flow adjustment valve is also provided to control the volume of water going to the handpiece. This valve is located next to the ON/OFF toggle valve (Fig. 7). Turn



this adjustment valve counterclock-wise to increase flow, then clockwise to decrease flow.

A handpiece air ON/OFF toggle valve is also located on the manifold control panel (see Fig. 7). This valve allows coolant air to flow to the electric handpiece. Depress the foot pedal and place this toggle in the "ON" position. Ensure that

coolant air flows to the handpiece. An air flow adjustment valve is located next to this ON/OFF toggle valve (Fig. 7). Turn this adjustment valve counterclockwise to increase the volume of air to the handpiece, then turn it clockwise to decrease the flow.

Return the electric handpiece to its holder when testing is complete.

<u>Scaler</u>

Remove the Scaler from its holder (Fig. 3). A scaler water ON/OFF toggle switch is located on the manifold control panel, just below the ultrasonic adjustment knob (Fig. 8). Place this toggle switch in the "ON" position and depress the foot pedal. Ensure that coolant water flows to the scaler. A water flow adjustment valve is also provided to control the volume of water going to the scaler. This valve is located next to the On/OFF toggle switch. Turn this adjustment valve counterclockwise to increase coolant flow, then clockwise to decrease coolant flow. During normal operation, adjust this valve until the water flow is no less than 20 ml/min at the tip.

A scaler ultrasonic setting control switch is also located on the manifold control panel (Fig. 8). This switch adjusts the ultrasonic intensity of the scaler. Turn the control knob

clockwise to maximum intensity, then counterclock-wise to minimum. When scaling, follow the tip manufacturer's r e c o m m e n d e d ultrasonic settings for each tip.



Return the scaler to its holder when testing is complete.

Cleaning and Lubrication:

When servicing the Transport III system, the parts of any component disassembled should be thoroughly cleaned and inspected before reassembly. A hot detergent solution is an effective cleaner on all non-electrical parts. Flush all nonelectrical parts with clear, hot water. Abrasive cleaners have the potential to damage surface finishes and should be avoided. Any wiping should be done with a soft lint-free cloth.

Electrical parts should be cleaned with an appropriate electrical parts cleaner or air.

Use a silicone base lubricating grease, such as Parker Super O-Lube, PN 490138, to lubricate O-rings and seals in the system. Before performing any reassembly of parts that contain O-rings or seals, apply a light coat of silicone grease. This will make installation easier and prevent the O-rings or seals from being damaged.

Water Lines

Disinfect the water lines weekly. Prepare a 1:10 bleach solution (1 part household bleach to 10 parts water). Remove water supply bottle and discard residual water. Replace the empty water supply bottle and air purge all waterlines. Fill water supply bottle with bleach solution. Run bleach solution through all lines. Allow bleach solution to stand in lines for 10 minutes. Remove water supply bottle and discard bleach. Flush water supply 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.

REFER TO STERILIZATION AND MAINTENANCE SECTION ON PAGE 46 FOR MORE CLEANING INSTRUCTIONS.

Adhesives

Refer to included Schematic Drawing Set, PN 420991, for proper identification and application of all adhesives.

ESD PRECAUTIONS

The following electrostatic controls must be used when working on this unit:

ESD Training and Standards:

Employees handling electronic sub-assemblies and ESD sensitive components are expected to be trained. Training should be based on IPC-A-610 or equivalent ESD standard ANSI/ESD-S-20-20 – Protection of Electrical and Electronic Parts, Assemblies and Equipment.

ESD Static Controlled Area:

Areas that are designated for handling and working on electronic sub-assemblies or their components should be marked off with signs indicating the area where ESD controls are to be enforced. These areas are to be kept clear from persons that are not trained to prevent ESD damage from occurring.

ESD Environment:

The work area is to be free of all static generating materials, such as plastic containers, water bottles, plastic bags, plastic objects, such as plastic pens, heat guns (unless made for the ESD environment).

ESD Jackets:

Clothing should be non-static generating (cotton).

Static generating clothing (e.g. wool, acrylic, nylon) must be covered with an ESD jacket that is buttoned closed.

Optional gloves:

Nitrile gloves may be used to cover the hands when working, but are not required.

Seating:

ESD Chairs should be used in place of static generating chairs (e.g. modern office seating use static generating materials).

Storage and packaging:

All circuit boards and components are to be stored on or in static dissipative or static shielding material, throughout shipping and storage.

ESD Wrist Strap and Mat Routine Checks:

The wrist strap should be checked daily using an ESD wrist strap testing station. See chart below.

ESD mats should be checked at least quarterly.

Reading from Operator Through	Maximum Tolerable Resistance	Maximum Acceptable Discharge Time
Wrist strap to ground	100 megohms	Less than 0.1 sec.
Table mat to ground	1000 megaohms	Less than 1 sec.

DISASSEMBLY

OVERVIEW: When disassembling the AEU-525CF Transport III System, it is recommended that its modular subassemblies be removed and disassembled in the order shown below:

- 1. Inlet/Outlet Air Filter Assy
- 2. Waste Tank Assy (*)
- 3. Dental Instruments
- 4. Water Bottle
- 5. Air/Electric Module Assy (*)
- 6. Air Bottle Assy
- 7. Top Shelf Components
- 8. Electrical Panel Assy
- 9. Motor Housing Left Wall Assy
- 10. Motor Housing Right Wall Assy
- 11. Venturi & Muffler Bracket Assy
- 12. Compressor/Vacuum Pump Assy
- 13. Case Assy

(*) The Waste Tank and Air/Electric Manifold Block are not customer-serviceable subassemblies and should not be disassembled in the field -- please return these items to Aseptico if repairs are necessary.

The operator control panels are located on the Air/Electric Module Assembly. The power inlets and power supplies are located on the Electrical Panel Assembly, and the compressor and its vacuum components are located on the Motor Housing Assembly.

INLET/OUTLET AIR FILTER ASSEMBLY

The socket for the Waste Tank Level Sensor Connector is located on the Electrical Panel Assemby, behind the Air Filter Assembly (see Fig. 9).

Grasp the locking collar on the Connector and pull the Connector straight out of its socket, through the plastic hole in the Air Filter Assembly. (The Connector is keyed to the

socket, so note the Figure 9 orientation of the white arrow on the locking collar, to the top center of the socket. When reinstalling the Level Sensor into its socket, simply align the arrow to the top of the socket and push the Con-



nector straight in until a click is heard. Ensure that the connector is dry and free of any moisture before reconnecting to the socket.

Swing the Connector and cord out of the way. Use either a standard flat-head screwdriver, or the fastener tool provided

on the inside of the Figure 10 Transport III case lid, to loosen the four fasteners on the Filter frame (Fig. 10). Turn the fasteners counterclockwise 1/4-turn. Lift the Filter out of the lid door frame and move to a workbench for further disassembly.





The three foam filter pads can be detached from the Filter frame for cleaning or replacement. Carefully peel the large Outer Foam Pad (PN 730685), Inner Foam Pad (PN 730684), or circular Tube Foam Pan (PN 730687) off their Mounting Studs (PN 510848) and Velcro Strips (PN 480030) (Fig. 11). Clean or replace pads as needed and then reattach to frame.

WASTE TANK ASSEMBLY

The Waste Tank is located on the back side of the Transport III, hanging from a mounting bracket on the case lid (Fig. 12). First, remove the four

gray hoses from the Figure 12 top of the waste-tank lid. Note the color match between the black and white rotating latches on the lid with their respective black or white hose SALIVA fittings. Also note that EJECTOR the HVE and salivaeiector instrument hose fittings are keyed to only fit their respective inlet ports.



Unplug the waste level sensor from its connector on the Electrical Panel Assembly (see Fig. 9). Ensure that the tank has been cleaned of all waste and residue before removing (refer to Operations Manual for instructions on emptying the Waste Tank.) Lift Tank off mounting bracket and set aside for reassembly later.

WATER BOTTLE

Release any residual pressure from the Transport III Water Bottle by toggling the Pressure Release Valve to the right (Fig. 13). Unscrew the Water Bottle from its cap and carefully

lower the botof its watersupply tube/ filter assem-Place bly. Bottle aside for reassembly later.



FOOT CONTROL

The Transport III Foot Control connector is located on the bottom of the Air/Electric Module Assembly (Fig. 14). Loosen

the outer sleeve on Figure 14 the cord connector and pull the connector straight out of its receptacle. Place the Foot Control aside for reassembly later. IMPORTANT: The Foot Control is not a customer service-



able item and should be replaced or returned to Aseptico for repairs, if necessary.

VACUUM VALVES & HOSES

Remove the HVE and saliva ejector valves from their respective holders and move to a work bench for inspection and/or repair (Fig. 15):



- Inspect hoses for cracks or leaks replace if necessary.
- Check the integrity of the HVE 'O' rings (PN 520101) and the saliva ejector 'O' ring (PN 520100) - replace if necessary.
- The anodized aluminum bodies of the HVE & saliva ejector valves (PNs AA-35LAD & AA-37LAD) can be snapped apart at their swivel connectors. The levers and Viton® O-ring spools can be disassembled without tools, for cleaning and lubrication. (Use small amount of petroleum jelly to lubricate). Ensure that the valve heads swivel freely and that the levers turn On/Off properly - replace if necessary.

ELECTRIC MOTOR & CORD ASSEMBLY

Remove the Electric Handpiece/Motor from its holder.

Detach the handpiece from the motor and set The aside. receptacle for Electric the Motor cord connector is located on the bottom of



the Air/Electric Module Assembly (Fig. 16). Pull the connector straight out of its receptacle. Set Motor/Cord aside. When reconnecting the motor connector, ensure that the round dimple on the cord connector aligns with the grooved mark on the receptacle. **IMPORTANT:** The Electric Motor & Cord Assembly is not a customer-serviceable item and should not be disassembled in the field. Return the Motor Assembly to Aseptico if repairs are necessary. Refer to the Sterilization Section in this manual for more information on motor maintenance and care. Refer to the handpiece manufacturers' instructions for information on handpiece maintenance and repair.

AIR/ELECTRIC MODULE ASSEMBLY

The Air/Electric Module Assembly (PN 330597) is the main control module for the Transport III. It provides the operator controls for the electric motor, scaler, air/water syringe, and two suction valves.

Detach the Air/Electric Module from the Transport III unit as outlined below: (Refer to the Operator's Instruction Manual for complete detailed instructions on detaching this Module.)

1. Loosen the hold-down thumbscrew that attaches the rear housing of the Module to the connector block on the case.

2. Pull the locking tab on the unit's adjustable handle out of its slot and raise the Air/Electric Module until it reaches its highest positon (the locking tab will snap into the next slot). The Module's rear housing will become detached from the connector block on the unit.

3. Locate the knob that locks the Air/Electric Module to the adjustable handle and rotate the knob 90° so that it aligns with the vertical slot in the handle.

4. Carefully rotate the bottom of the Air/Electric Module away from the handle so that the knob backs out of the slot.

5. Lift the Air/Electric Module assembly up and outward, until its mounting bracket is free of the large opening at the top of the handle.

6. Move the Module assembly to a work bench for component disassembly.

HANDPIECE TUBING GUARD

The Handpiece Tubing Guard (PN 462121) protects the tubing going to the instrument holders. It is mounted under the instrument holder bar (Fig. 17). Use a 5/64" Allen wrench



DISASSEMBLY - Cont'd

to remove the two mounting screws (PN 510037). Reassemble the Guard in the reverse order.

INSTRUMENT HOLDERS

Two Instrument Holders (PN AA-59G) with on/off toggle controls are located at each end of the Holder Bar (Fig. 17). A fifth toggle-less instrument Holder (PN-68G) is located at the center of the bar, between the other four Holders. Remove the Sleeve Clamps (PN 730015) from the tubing going to each of the Holders. Remove the colored tubing and Tee Fittings (PN 730152) going to the Holders (take note of the tubing configurations and colors to each Holder, for reassembly later). Back out the setscrews on the bottom of the Holder(s) with a 3/32" Allen wrench. Remove the Holders from the Holder Bar. Use a 5/64" Allen wrench to remove the two mounting screws (PN 510160) that attach the Holding Bar (PN 462095) to the Holding Bar Supports.

Reassemble the Instrument Holders in the reverse order. Refer to plumbing schematic for proper installation.

WATER FILTER & LUER FITTING

The Water Filter (PN 730326) and Luer Fitting (PN 730073) are located in the blue tube (PN AA-95B) that protrudes into

the water bottle (Fig. 18). Figure 18 Depressurize the water bottle and remove it from its water cap. Remove the Luer Fitting from the bottom section of the tube. Loosen the sleeve clamps (PN 730095) located at the top of the blue tube and at both ends of the Filter. Unscrew and remove the Filter. Remove the three fittings (PN 730073) and gaskets (PN 730074) from the tube sections. To clean the Filter, inject compressed air from the top end to unplug its screen, or replace the filter with a new one.

Reassemble in the reverse order, with new gaskets if necessary.

WATER CAP GASKET

The water cap gasket (PN 730473) is located on the underside of the white water bottle cap (PN 462039) (Fig. 19). Depressurize the water bottle and remove it from its water cap. Reach up into the white cap and pull the black gasket from the cap.

Reassemble in the reverse order with a new gasket.

WATER CAP

The water cap (PN 462039) is attached under the right side of the Air/Electric Module Top Panel (Fig. 19). Remove the water bottle as previously described. Remove the two sleeve clamps (PN 730015) from the two tubes, then detach the

MOUNTING SCREWS WATER (X3) CAP WATER FILTER SLEEVE CLAMP (X3) LUER FITTING



blue tube (PN AA-94B) and clear tube (PN AA-94C) from the fittings on the cap. Remove the three mounting screws (PN 510404) from the top of the panel (Fig. 18) with a 3/32" Allen wrench and remove cap. Remove the two fittings (PN 730062) and gaskets (PN 730074) from the cap, using a 1/4" open-ended wrench. Inspect and replace fittings or gaskets if necessary.

Reassemble the cap in the reverse order. Refer to the plumbing schematic for the proper installation of tubing.

ELECTRIC MOTOR CONTROL PANEL HOUSING

Locate the four mounting (PN screws 510650) on the bottom of the Air/Electric Module Top Panel (Fig 20), and remove with a #2 Phillips screwdriver.

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Disconnect the Figure 21 ELECTRIC MOTOR Wire Harness CONTROL PANEL 4-PIN (PN 875113) 'JCOMM' TOP PANEL from the 4-pin CONNECTOR 'JCOMM connector WIRE HARNESS located on the Motor Control Panel Display Board (PN 330600-C) (see Fig. 21). HOLDER BAR RUBBER Move Motor SUPPORT (X2) SEAL Control Panel BAR SUPPORT to the work-MTG SCREWS (X4) bench.

Disconnect Figure 22 CONTROL PANEL MEMBRANE Control anel Aseptico Membrane flex cable from 6-pin 'JKEYPAD connector on Display (Fig. 22). If removal DISPLAY, BOARD FLEX CABLE of the Display is required, use needlenose pliers to pinch together the MOUNTING STUD (X4) four mounting studs on the

Control Panel Housing and lift off the Board. NOTE: The Display Board is not a user-serviceable subassembly and should be returned to Aseptico if repairs are required.

The Control Panel Membrane (PN 420918) is attached to the front of the Panel Housing with an adhesive backing (see Fig. 22). Removal of the Membrane is not recommended unless absolutely necessary. If removal is required, carefully peel the Membrane out of the recess in the Housing and permanently discard the entire Membrane. (IMPORTANT: Do not reuse an old Membrane - once detached, it should always be replaced with a brand new Membrane.) To reinstall a new Membrane: 1) Insert flex cable pigtail through the slotted hole in the Top Cover; 2) Remove liner from adhesive backing on new Membrane; 3) Carefully center new Membrane in recess in Top Cover; and, 4) Press down evenly on Membrane until firmly adhered to Cover; and 5) Add 4-inches of 1-inch diameter heat Shrink around Flex Cable (Do Not Shrink).

Use a 5/64" Allen wrench to remove the four screws (PN 510037) that attach the two Holder Bar Supports (PN 462096) to the Top Panel (see Fig. 21). Place Supports aside for reassembly later.

The Rubber Seal strip (PN 520104) is taped to the Top Panel, along the Panel's back edge (Fig. 23). Peel off the Seal if necessary, and replace using double-backed adhesive tape.

AIR/ELECTRIC MODULE TOP PANEL

Use a 5/64" Allen wrench to remove the ten screws (PN

510037) that Figure 23 mount the Top Panel to the Air/Electric Module (Fig. 23). Note the two screws located on the back side of the Module. Lift Top Panel off Module and place aside for



reassembly later.

REAR WALL

Use a 5/64" Allen wrench to remove the six screws (PN

510037) that Figure 24 attach the Rear Wall to the Air/Electric Module (Fig. 24). Note that one mounting screw is located on the Manifold Assembly control panel.

Carefully disconnect the Rear Wall from Module the



and swing it to the right, noting that the tubing to the Pressure Toggle Valve (PN 730014) is still attached. Remove sleeve Clamp (PN 730015) and detach the clear tubing (PN AA-94C) from the Toggle Valve. Disconnect Rear Wall and move to work bench. Remove the two Fittings 730062) (PN gaskets and 730074) (PN



with a 1/4" open-ended wrench. Use a 9/16" wrench to remove the Toggle Valve mounting nut located on the outside of the Wall, then remove the Valve.

RIGHT SIDE WALL

Locate the two Figure 26a mounting (PN screws 510037) on the bottom of the Module that attach the Right Wall (PN 462036) to the Module (see Fig. 26a). Use a 5/64" Allen



wrench to remove both screws and set the Wall aside for reassembly later (Fig. 26b).

POWER BOARD AND INSULATORS

Use a 1/16" Allen wrench to remove the four screws (PN 510016) that attach the Power Board Insulator (PN 462117) to the Module (Fig. 27a). Remove Insulator to expose the Power Board (PN 330601) (see Fig. 27b), then place Insulator aside Figure 27a

for reassembly later. Carefully pull Power Board away from the Module until the wiring assemblies can be accessed (Fig. 28). Note the alignment of the Board's mount-



ng holes with the nylon stand-offs. Unclamp the brass Sleeve (PN 461607) from the Pressure Sensor Tube (PN 730227). Detach Tube from 'PSENS1' connector on Power Board. Disconnect the Motor Connector Wiring Assembly (PN 330598) from the 'J MOTOR' connector on the Board. Note the orientation of the Wiring Assembly's connector and wires with the locking tab and position '1' on the Board's connector. Disconnect the 3-pin, 2-pin, and 5-pin (PN's 860118, 860076, and 860019 respectively) connectors from

DISASSEMBLY - Cont'd



860118, 860076, and 860019 respectively) connectors from the 'JPWR1', 'J_SLND', and 'J_FOOTPEDAL' connectors on the Board (see Fig. 28). Note the orientation of the connectors' wiring with the Board's connectors. Remove Power Board from Module and set aside for reassembly later. **IMPORTANT:** The Power Board Assembly is not a customer-serviceable item. Return the Board Assembly to Aseptico if repairs are necessary.

Pull the inboard Insulator (PN 462113) off the four nylon mounting Standoffs (PN 462112) (see Fig. 28) and place aside for

r e a s s e m b l y later. Unscrew, by hand, the nylon Standoffs from the threaded studs on the Module's Front Wall (Fig 29). Set Standoffs aside for reassembly later. Figure 29

MANIFOLD ASSEMBLY

Locate the three mounting screws (PN 510037) for the M a n i f o I d Assembly (PN 330591) and Manifold Wall (PN 462029) (see Fig. 30) on the bottom of



the Module and on the face of the Manifold Control Panel. Use a 5/64" Allen wrench to remove all three screws.

Carefully pull the Manifold Assembly away from the Module until the plumbing connections on the inboard side are readily accessible.

SCALER-ADJUSTMENT POTENTIOMETER

The scaler potentiometer (part of PN 730654) is located on the Manifold Assembly (Fig. 31). Loosen the small setscrew

on the side of Figure 31 potentiothe meter knob with a 1/32" Allen wrench and remove knob. Remove the mounting nut on the outboard side of the Manifold Wall with 1/2" а



socket or open-ended wrench. From the inboard side of the Manifold, remove potentiometer through the hole in the Wall (see Fig. 33).

Reassemble the scaler potentiometer in the reverse order with the lock washer positioned against the inboard side of the Manifold wall and the alignment pin on the potentiometer keyed into the hole in the Wall.

MANIFOLD BLOCK

The On/Off and Air & Water Control Valves for the Scaler, Motor/Handpiece, and Syringe are located on the Manifold Block Assembly (Fig. 32).



Cut the two wires to the Scaler Disable Switch, PN 830144, located at the right top corner of the back side of the Manifold (Fig. 32) and then unscrew Switch by hand. When reassembling, note the lockwasher (part of Switch) is positioned against the Block.

Use a 9/16" open-ended wrench to detach the Scaler Activation Switch, PN 730031, from the fitting on the back side of the Manifold (Fig. 32). Then, use a 1/4" open-ended wrench to remove the Fitting, PN 730651, and nylon Washer, PN 730074, underneath.

Use diagonal cutters or needle-nose pliers to pry off all sleeve clamps from the tubing and hoses that connect to the Manifold Block (Fig. 32). The 1/16" tubing is attached with Sleeve Clamps PN 730152; the 1/8" tubing is clamped with PN 730015 Clamps or PN 730096 Uni-Clamps; and, the 1/4" tubing is attached with either large white nylon Clamps PN 730095; large brass Clamps PN 461607, or the large aluminum Clamps PN 462230.

Detach the connecting tubes and hoses from Manifold Block. **NOTE:** To simplify disassembly, at this time, only detach the tubes and hoses that are still interconnected to the Module Assembly -- leave the other tubes and hoses with loose ends attached to the Block (Fig. 33a). Take note how all tubes and hoses connect to the Block. Inspect the ends of all tubes and hoses for fraying or cracks and trim off damaged ends before re-attaching to Block. Refer to Plumbing Schematic Drawings for proper reassembly of tubes and hoses.

Move Block to work bench for further disassembly. Detach remaining sleeve clamps and tubes as necessary. Remove Water Check Valve, PN 730012. Take note of flow direction of Valve and ensure the same alignment when reinstalling. Remove Air Check Valve, PN 730428. Note flow direction arrow on Valve and ensure same alignment during reassembly.

IMPORTANT: The Manifold Block is not a customer-serviceable item. Return the Block to Aseptico if repairs are required.



JUNCTION BLOCK

The Junction Block provides an interconnecting air, water, and electrical terminal between the 525CF Control Module and the Compressor Module. The Block is located in the pivotal housing attached to the back side of the Air & Water Manifold Module (Fig. 34).



462043) (see Fig. 34 inset). Use diagonal cutters or needlenose pliers to pry off the sleeve clamps from the two tubes and

hose that connect to the Junction Block (Fig. 34). The 1/8" tubing is clamped with Clamps PN 730015 and the 1/4" hose is attached with a large white nylon Clamp (PN 730095).

FRONT

HOUSING

Use a small flat-head screwdriver to disconnect just the Junction Block wiring from the 7-position Terminal Block (PN 860283) located inside the Rear Housing (Fig. 34). Take note of the color wiring-to-terminal connections, for reassembly later. Note the wiring configuration of the Resistor (PN 810438). Refer to the electrical schematic for proper installation.

Locate the Locking Thumbscrew and Bracket (PN 462052) on the side of the Rear Housing (Fig. 44a). Depress and hold the Thumbscrew against the bracket while using a #2 Phillips screwdriver to remove the Junction Block mounting screw (PN 510790). Remove the other mounting screws (PN 510790) located on the opposite side of the Rear Housing (Fig. 44b) and on the back side of the Housing. Remove the Junction Block to the workbench for further disassembly.

DISASSEMBLY - Cont'd



At the workbench, use a flat-head screwdriver to remove the two Screws (PN 510688) that mount the Floating Block (PN 462052) to the Junction Block (Fig. 45). Move the Floating Block aside and only disassemble if necessary: Use a 5/16" open-ended wrench to remove its three large Air Junction Fittings (PN 462051). Use a 1/4" open-ended wrench to

remove its Figure 45 smaller 1/16" & LARGE 1/8" Hose (PNs Fittings 1/16" 730062 & FITTINGS (X2) 730073 respectively) and nvlon Gaskets (PN 730074). Replace the large outer Orings (PN 520099), or smaller internal



O-rings (PN 520025) as necessary. **IMPORTANT:** The 12pin Connector Plug (PN 860285) subassembly, which consists of five Wires (PN's 870304-01, -02, -03, -04, & -06) and Contact Terminals (PN 860290), Resistor (PN 810438), and two mounting Screws (PN 510766) are permanently epoxied to the Junction Block and cannot be serviced. Replace the entire epoxied Connector Plug/Junction Block subassembly if repairs are required.

NOTE: It is not necessary to disconnect any remaining wiring from the 7-Position Terminal Block (PN 860283) or the 4-Positon Block (PN 860250) (see Figs 46a & 46b), nor remove the Blocks from the unit , unless they are faulty or damaged.



SCALER CONTROL MODULES

The two Scaler Control Modules (PN 730654) are located on the upper left side of the Manifold Module Front Wall. Slide the covers of each Scaler Module to the left, to expose the wiring terminal blocks underneath (Fig. 48). Using a tiny jeweler's flat-head screwdriver, loosen the four wire contact screws on the smaller Control Module terminal block and disconnect all four Figure 48 wires (Fig. 49). When reassembling later, refer to the wiring guide imprinted on the Module's cover, or consult the System wiring schematic. On the larger Control Module. remove the entire wirina connector from the Module's 12-pin receptacle Figure 49 this



12-pin receptacle (see Fig. 49). When reattaching this connector, refer to the wiring guide imprinted on the Module cover, or refer to the System schematic. Unless damaged, there is no need to disconnect or



remove any remaining Scaler Module wiring - leave it in place for reassembly later.

Locate the two mounting screws (PN 510793) on the outboard side of the Front Wall that attach the larger Scaler Module to the Wall. Using a #1 Phillips screwdriver, remove the two Screws and then remove the Scaler Module. Set the Module aside for reassembly later. **IMPORTANT:** A later Version (Build Rev-C) of the AEU-525CF System uses a newer Scaler System - consult Aseptico for details if the Scaler Modules referenced here need to be repaired or replaced. Remove the two Locking Nuts (PN 510394) and Washers (PN 510192) that attach the smaller Scaler Module to the Front Wall (Fig. 50b). **NOTE:** The smaller Module uses

adhesive tape on its back side to adhere it to the Wall. Carefully peel the Module away from the Wall and clean off any residual tape left on the Wall. Remove



the rubber Holding Pad (PN 462115). When reattaching the Module later, use double-sided adhesive tape to affix the Module into position. Place both Scaler Modules aside for reassembly later. Reassemble the Modules in the reverse order.

TWO-WAY VALVE

The Two-Way Valve (PN 730656) and its mounting hardware is located on the Front Wall (Fig. 51).

Use diagonal cutters or needle-nose pliers to pry off the large white nylon Sleeve Clamp (PN 730095) from the 1/4"



Hose (PN AA-96) that protrudes through the large black silicone tubing from the Rear Housing. Use a 5/64" Allen wrench to remove the two Mounting Screws (PN 510037) that attach the Valve to the Mounting Bracket. Leave the Bracket (PN 462114) and Insulator (PN 462116) attached to the Front Housing. Move the Valve and its hardware to the workbench if further disassembly is required.

At the workbench, disconnect the remaining two sleeve clamps and hoses from the two Fittings (PN 730139) (Fig.

52). Use a 1/4" thin open-ended wrench to remove the three barbed Fittings (PN 730073), three Plugs (PN 730072), and eight nylon Gaskets (PN 730074). Use a 3/8" open-ended wrench to remove the two cross Fittings (PN 730139).



ELECTRIC MOTOR RECEPTACLE

The Electric Motor Receptacle Assembly (PN 330598) is mounted onto the bottom panel of the Air & Electric Module (Fig. 53a). Locate the three Mounting Screws (PN 510160)



on the bottom of the Module and remove them using a 5/64" Allen Wrench (Fig. 53b). Then use a 5/16" open-ended wrench and the Allen Wrench to remove the single Mounting Screw (PN 510036) and Anchor-Line Nut (PN 510395). **NOTE:** The Scaler Anchor Line is attached to this Anchor Line Hold-Down Nut. Move the entire R e c e p t a c l e Assembly to the workbench for further disassembly, if necessary. **NOTE:** At the workbench, take note how the Adapter Plate (PN



462069) slides into the slot on the Receptacle. Also note the hole-orientation of the Spacer (PN 462135), with the Adapter Plate and Receptacle (Fig. 57).

SYRINGE AND SYRINGE TUBING

To replace the Syringe (PN TA-90D), remove the two sleeve clamps (PN 730015) from the Syringe tube splices located

inside the bottom Figure 58 panel of the Air & Electric Module (Fig. 58). Pull the tubing down through the grommet and move Syringe and Tubing Assembly to work bench. At bench, unscrew the bottom handle from the Syringe head to access the tubing connections (Fig. 59). Remove the two sleeve clamps (PN 730015) and disconnect the tube (PN AA-85G) from the head.



Figure 59 TUBING SLEEVE CLAMPS (X2) HANDLE HEAD

To reassemble the Syringe, cut approximately 67" of the syringe tubing and attach to the Syringe head with two sleeve clamps. Place the syringe in its holder on the Air & Electric Module and adjust the length of the tubing so that it suspends off the floor. Splice the end of the tube as before and attach to the two fittings on the Manifold Block with two sleeve clamps. Verify that air comes out the syringe when the air button is depressed and that water sprays out when the water button is depressed.

SCALER WAND

The Scaler Wand (part of PN 730654) is attached inside the bottom panel of the Air & Electric Module (Fig. 60).

Remove the green ground wire and the black and white wires at the 4position connector block (PN 860250). Remove the red and blue wire from the smaller module. Cut the cable tie around the Scaler cord.



located just above the grommet. Remove the Scaler tube

DISASSEMBLY - Cont'd

Anchor Line from the hold-down Nut with a 5/16" openended wrench (see Fig. 53a). Pull the Scaler Wand cord down through the grommet in the bottom panel of the Air & Electric Module. Remove Scaler Wand. **IMPORTANT:** The Scaler Wand is not a customer-serviceable item. Return the Wand to Aseptico if repairs are required.

Reassemble the Scaler Wand in the reverse order, adjusting the length of the Wand cord to hang suspended off the floor and then trimming the excess cord and/or water line. Wrap the cable tie around the scaler cord, just above the grommet in the bottom panel of the Air & Electric Modulet. Ensure that the tie is not over-tightened and does not restrict the flow of water. Attach the anchor line to the hold-down nut. Attach the green, white, and black wires from the Wand to the matching colored wires on the 4-position terminal block. Check to ensure that scaler water flow is appropriate.

FOOTSWITCH CONNECTOR

The Footswitch Connector (PN 860212) is located on the bottom panel of the Air & Electric Module. Use a 13/16"

open-ended wrench Figure 61 to remove mounting nut on outboard side of bottom panel (Fig. 61). (NOTE: Take care to protect the panel against when scratches removing nut.) Push Connector inward through 'D' shaped Figure 62 cutout in bottom panel of the Air & Electric Module. Note that the keyway on the threaded Connector is pointing toward the right-hand side. Remove entire Connector and wire harness assembly



and set aside for reassembly later. (**NOTE:** During reassembly, ensure that the rubber gasket that is supplied with the Connector (see Fig. 62) is positioned on the inboard side of bottom panel.

AIR/ELECTRIC MODULE LOCK-KNOB & HANDLE

The Air/Electric Module Locking Knob and Handle are located on the Front Wall (Fig. 63). If the Handle (PN 462031) needs to be removed, use a 5/64" Allen wrench to remove its two mounting Screws (PN 510037). The Locking Knob consists of six different parts: Use a 1/8"

Allen wrench to remove the large shoulder Screw (PN 510767) and Spring (PN 510765) that attach the Lock Knob (PN 462033). Then, use a



CONNECTOR

W/WIRE

HARNES

5/64" Allen wrench to remove the two Screws (PN 510720) that mount the Spacer (PN 462034) to the Wall.

AIR BOTTLE ASSEMBLY

The Air Bottle Assembly is located inside the Transport III Case, in the upper right-hand corner of the top compartment (Fig. 64a). Turn the unit off and purge any residual pressure



left in the System (depress the Syringe air button to release all air pressure). Unscrew the Air Bottle (PN 730657) from its Lid (PN 462007) and set Bottle aside for reassembly later. Cut the cable tie around the two gray tubes (PN AA-95G) running to the Air Bottle Assembly (see Fig. 64b). Use a Phillips screwdriver to remove the top mounting Screw (PN 510545) which threads into the Assembly Bracket (PN 462006), through the top of the Case. Then, use a 3/32" Allen wrench to remove the other mounting Screw (PN 510309), which is accessed from the inside of the case.

Carefully pull the Assembly Figure 65 out of the Case to access its tubing (Fig. 65). At the Bottle Lid, remove the Sleeve Clamp (PN 730095) and Tube (PN AA-95G) that runs from the Assembly Compressor (see Fig. 65). At the Filter (PN 730495), locate the Tube going the to Bulkhead Manifold and use a 7/16" open-end wrench to remove it from the straight Fitting on the Filter.



Move the Bracket subassembly to the workbench. Use a 3/32" Allen wrench to remove the two mounting Screws (PN 510404) for the Lid and the two Screws (PN 510309) for the Filter (see Fig. 66).

Inspect and replace the two Bumper Pads



(PN 850067) if necessary. Clean or replace Filter (PN 730495) as necessary. Check Bottle Gasket (PN 730473) located inside the Lid (Fig. 65) for wear/leakage and replace as necessary.

DIVIDER WALL

The Divider Wall (PN 462000) is located in the top compartment of the Figure 67

Transport III Case (Fig. 67).

Use a 5/64" Allen wrench to remove the two upper mounting Screws (PN 510808) and three lower the Screws mounting (PN 510037). Remove Wall and for aside set



reassembly later. Inspect the large foam Pad (PM 462100) and replace if necessary.

STORAGE SHELF

The Storage Shelf Figure 68 462098) is (PN located in the top compartment of the Transport III Case (Fig. 68). Use a 5/64" Allen wrench to remove the two mounting Screws (PN 510037) that attach the Shelf to adjoining the Tube Vacuum Baffle. Remove



Shelf and place aside for reassembly later. To remove the Bungee Cord (PN 730370), untie the knot in the Cord and pull the Cord up through the rubber Grommet (PN 870326). Place Cord aside for reassembly later. Inspect and replace plastic Hook (PN 730371) if damaged.

VACUUM TUBE BAFFLE (PART A)

The Vacuum Tube Figure 69 Baffle - Part A (PN 4620001) is located the in top compartment of the Transport III Case (Fig. 69). Use a 5/64" Allen wrench to remove the five mounting Screws (PN 510037) that attach the Baffle to the adjoining Baffle Part B. Use а



Phillips screwdriver to remove the two mounting Screws (PN 510781) at the top of the Baffle that attach it to the Bulkhead Insert. Remove Baffle and place aside for reassembly later.

VACUUM TUBE BAFFLE (PART B)

The Vacuum Tube Baffle - Part B (PN 4620002) is located in the top compartment of the Transport III Case (Fig. 70). Use a 5/64" Allen wrench Figure 70 to remove the two mounting Screws (PN 510037) that attach the Baffle to the Compressor Top Panel. Remove Baffle and move it to workbench if further disassembly is required. At the bench, use a 3/32" Allen wrench to remove the mounting Screw (PN 510404) from



MOUNTING

SCREWS

COMPRESSOR

TOP PANEL

MOUNTING

HARDWARE

WASHER

(PN 510837

the large Mounting Clip (PN 730445). The two smaller Mounting Clips (PN 510699) are Riveted (PN 510772) to the Baffle and cannot be detached. Unhook Velcro Strap (PN 462145) and replace if necessary.

COMPRESSOR ASSEMBLY TOP PANEL

The entire Compressor Assembly can be detached and pulled out of the Transport III Case for component disassembly.

Use a 3/32" Allen wrench to remove the two mounting

(PN Figure 71a Screws 510404) located on the Compressor Top Panel (see Fig. 71a). Use a 5/32" Allen wrench to remove all the Compressor Assembly mounting Figure 71b hardware located on the bottom of the Case (see Fig. 71b). WASHER (PN 510837) SCREW (PN 510295) BUSHING BUMPER (PN 520118) Pull the High Vacuum and Low Vacuum Hoses down inside the Case top compartment. provide slack when removing the Compressor Figure 72 Assembly (see Fig. 72). Carefully pull the entire Low VAC Compressor Assembly out of the Case and place in

front of Case temporarily.

A Top Panel (PN 462063)

covers the Compressor

Assembly (Fig. 72). Use a

5/64" Allen wrench to

remove the six Screws (PN

Leave all tubing attached.

SCREW (PN 510294) BUSHING to (PN 520118 -HIGH VAC HOSE HOSE TOP PANEI

COMPRESSOR ASSY

DISASSEMBLY - Cont'd

510037) that mount the Figure 73 Panel to the Compressor. Remove Panel (see Fig. 73) and place aside for reassembly later. If the Handle (PN 850075) on the Panel needs replacment, use a 4mm Allen wrench to remove the two mounting Screws (PN 510717) and Lockwashers (PN 510420).

VACUUM HOSE FITTINGS

Locate the Air/ Electric Door on top of the Case. Open Door to access the High and Low Vacuum Hose end Fittings inside the Bulkhead Insert BULKHEAD (Fig. 74a). Use adjustable channel lock pliers to pry off the Ferrule 462138) and then Fitting (PN the 462021) on the larger High Vacuum Hose (PN AA-259)





(see Fig. 73b). Inspect O-Ring (PN 520101) for wear and replace if necessary. Next, remove Ferrule (PN 462139) and

Fitting (PN 462022) Figure 75 on the Low Vacuum Hose (PN 730489) (Fig. 73b). Inspect O-Ring (PN 520100) for wear and replace if necessary. Pull both Vacuum Hoses



ends down through the Bulkhead Insert. Leave opposite ends attached to the Compressor Assembly (Fig. 75).

BULKHEAD INSERT TUBE GUARD

Locate the Bulkhead Insert Tube Guard (PN 462147), which

is located inside the Figure 76a Case, mounted to the bottom side of the Insert (see Fig. 76a). Use a Phillips screwdriver to remove the two mounting Screws |Figure 76b 510781). (PN Remove the Guard and set aside for reassembly later. Use diagonal cutters to pry off the 1/8" & 1/4" Tube Sleeve (PNs Clamps Page 14



730015 & 730095) (Fig. 76b). Then, remove the Red Tube

(PN AA-94R), Green Figure 77 Tube (PN AA-94G). and Gray Tube (PN AA-96) from their fittings. Leave the opposite ends of the Tubes attached to the Compressor Assembly.

Locate the Cable Tie (PN 510137) that



straps the Display Module Power Cable (PN 875118) to the Compressor Assembly (see Fig. 77). Cut the Tie to provide additional slack for the Power Cable.

Carefully rotate the Compressor Assembly onto its back side (see Fig. 78) (Place a protective pad under the Assembly to prevent scratching.)



MOTOR HOUSING COVER

Locate the four mounting Screws Figure 79 that attach the Motor Housing Cover to the Compressor Assembly (see Fig. 78). Use a 5/64" Allen wrench to remove the Screws (PN 510160), metal Washers (PN 510431), and Rubber Washers (PN 510827). Carefully lift the Cover off the Compressor Assembly and set aside until reassembly later (see Fig. 79)





ELECTRICAL PANEL

The Electrical Panel is located beneath the Motor Housing Cover (Fig. 79). Locate the Display Module Power Cable and follow it's leads to the two power supplies on the Electrical Panel (Fig. 80).

Cut the three Cable Ties (PN 510137) that secure the Display Module Power Cable to the Electrical Panel (Fig. 80). Leave the three Tie Mounts (PN 510179) in place, for reassembly later. Use a 5/16" open-ended wrench to remove the Power Cable Grounding Nut (PN 510293) and Lockwasher (PN 510419) from the stud on the Electrical Panel (see Fig. 80).



48V POWER SUPPLY

The 48V Power Supply (PN 840087-01) provides power to the Electric Motor Assembly. Detach the Power Cable 2-wire connector from the 'CN2" 4-pin receptacle on the Supply's PCB (Fig. 81a). Note the orientation of the connector to the PCB receptacle latch and pin-position of red wire.

24V POWER SUPPLY

The 24V Power Supply (PN 840120) provides power to the Scaler Assembly. To access the Supply's power connector, which is situated on the Supply's underside, the Supply must first be removed from its mounting Standoffs and turned over. Use a 1/16" Allen wrench to remove the four Screws (PN 510016) and Washers (PN 510573) that secure the Supply to the four Standoffs (PN 462244). Carefully lift the Power Supply off the Standoffs, then detach the Power Cable's 2-wire connector from the 'CN2' 4-pin receptacle on the Supply's PCB (Fig. 81b). Note the orientation of the connector to the receptacle latch and the pin-position of the blue wire. Detach the other 2-wire connector from the 'CN1'

receptacle on the Figure 82 Supply's PCB, then set the 24V Power Supply aside for reassembly later. Also note the this orientation of connector to its receptacle latch. Unscrew the four Standoffs (PN 462244) from their



studs on the Electrical Panel and place aside for reassembly later. **IMPORTANT:** The 24V Power Supply is not a customer-serviceable item. Replace the entire Supply or return it to Aseptico if repairs are required.

Locate the Cable Figure 83 Clamp (PN 510410) for the Display Module Power Cable, which is mounted inside the Case, just below the Manifold Insert (see Fig. 82). Use a 3/32" Allen wrench to remove the Clamp mounting Screw (PN



510404). Remove Clamp and set aside for reassembly later.

DISPLAY MODULE POWER CABLE

At the top of the case, open the door to the Manifold Insert and locate the Display Module Power Cable 12-Pin Socket.

This Socket is mounted into the center of the Insert housing with two integral screws (see Fig. 83). Use a Phillips screwdriver to remove the two mounting screws, then feed the entire Power Cable up and



out through the Insert housing. Place the Cable Assembly aside for reassembly later. Inspect the Cable for damage or faults and replace entire Cable if problems are found.

Detach the remaining 2-wire connector from the 'CN1' receptacle on the 48V Power Supply (Fig 84). Note the orientation of the 2-wire connector to the receptacle latch. Use a 1/16" Allen wrench to remove the four Screws (PN 510016) and Washers (PN 510573) that secure the Supply to the four Standoffs (PN 462244). Carefully lift the Power Supply off the Standoffs. and set aside until reassembly later. Unscrew the four Standoffs on the Electrical Panel and place aside for reassembly later. Remove the Insulator Pad (PN 462081) under the Standoffs and set aside for reassembly later. IMPORTANT: The 48V Power Supply is not a customer-serviceable item. Replace the entire Supply or return it to Aseptico if repairs are required.

CONTROL BOARD PCB

A smaller 24V Power Supply (PN 840093) provides power to the Electronic Control Board (PN 330604) (Fig. 85, page 16). This Power Supply is mounted to the top of the Control Board PCB and can be detached if necessary.

Detach the three flag-type wire terminals from connectors 'T1', 'T2', and 'T3' on the Control Board PCB (see Fig. 86). Note the color-arrangement of the wires and the connectors. Next, detach the four wire connectors at the PCB sockets marked 'J_WASTE', 'J_SOL', 'J_PRESS SW', and 'J_LEDS'. Note the alignment of the connectors to the socket latches, and the wire color positions. Use a 1/16" Allen wrench to remove the four mounting Screws (PN 510016), split lockwashers (PN 510433), and flat nylon washers (PN 510657) that mount the Control Board PCB to the four Standoffs (PN 510760). Next, use a 5/64" Allen wrench to

DISASSEMBLY - Cont'd



Standoffs and move to a workbench for further disassembly. Use a 1/4" open-ended wrench to remove the four Standoffs then remove the Insulator Pad (PN 462080) and set aside for reuse later.

At the workbench, cut and remove the Cable Tie (PN 510628) that straps the Power Supply to the Control Board PCB. Lift the Power Supply straight up and off the mounting pins on the PCB . IMPORTANT: The Power Supply and Control Board PCB assemblies are not customer serviceable. If repairs are required to either assembly, replace the entire item or return it to Aseptico for service.

WASTE CONNECTOR CABLE ASSEMBLY

Locate the Waste Figure 87 Connector Cable Assembly Bracket (Part of Cable Assy PN 875114) (Fig. 87). Cut the two (PN Cable Ties 510137) that bundle the wiring to the Control Board



Assembly (see Fig. 86 above). Use a 5/64" Allen wrench to remove the two mounting Screws (PN 510037) for the Bracket. Remove Bracket and Cable Assembly and set aside for reassembly later.

ELECTRICAL PANEL 10-POS TERMINAL BLOCK

Rotate the Compressor Assembly so the Electrical Panel is facing forward (Fig. 88). Locate the two red wire connectors



the Pressure Control Switch Cable Assembly (PN 875116) in the upper righthand corner of the Panel



(see Fig. 88 inset). Disconnect all four wire connectors. Cut all cable ties located on the front of the Electrical Panel and along the edge of the Cooling Fan.

Locate the four mounting Screws (PN 510037) that attach the Electrical Panel to the Compressor Assembly (see Fig. 88) and remove them using a 5/64" Allen wrench. Carefully lower the top front edge of the Panel downward to expose the back side of the Panel.(Fig. 89).



green/yellow ground wire from the Compressor to the grounding hardware on the back side of the Electrical Panel, using a 5/16" open ended wrench.

Locate the 10-Position Terminal Block (PN 860278) on the back side of the Electrical Panel (Fig. 89). Note the wire colors and terminal positions of the eight wires coming from the Compressor Motor Assembly. Use a small jeweler's screwdriver to detach these eight wires from the Block. NOTE: When rewiring the System, refer to the Final Assembly Wiring Schematic. Move the Electrical Panel to the work bench for further disassembly (Fig. 90).

COOLING FAN

The Cooling Fan (PN 540012) is located on the Electrical Panel (Fig. 90). Follow the white and black wires from the Fan to the terminal block on the opposite side of the Panel. Use a small jeweler's screwdriver to detach the two wires. On the front side of the Electrical Panel, remove the four screws (PN 510160) that mount the Fan to the Panel with a 5/64" Allen wrench. Feed the two wires through the grommeted hole in the Panel and remove Fan.

Reassemble Fan in the reverse order with the air flow indicator on the Fan pointing toward the front side of the Panel. Refer to the Final Assembly Wiring Schematic for proper installation.



BREAKERS

The Circuit Breaker Housing (PN 462017) is located on the front of the Electrical Panel. The Housing provides an enclosure for the Power Entry Circuit Breaker (PN 840119), Compressor Circuit Breaker (PN 830143), and the Voltage Selector Switch (PN 840084) (see Figs. 91 & 92).

Note the wiring configuration on the back side of the Circuit Breaker Housing. Tag the mating female wire terminals at each Breaker terminal to assure proper rewiring later - refer to Electrical Schematic in Final Assembly Drawing for proper wiring configuration. Locate the green/yellow grounding wire from the power inlet socket on the Power Entry Circuit Breaker (Fig. 92). Use a 5/16" open-ended wrench to





Grounding Nuts (PN 510293) and Lockwashers (PN 510419). Remove the three blue female wire connectors from the three terminals on the power inlet

socket. Set the Ground Wire aside for reassembly later. Remove the two blue flag-type wire connectors from the terminals on the Power Entry Circuit Breaker and set the two wires aside. Remove the six red flag-type wire connectors from the terminals on the Compressor Breaker.



Cut the three cable ties (PN 510137) around the wire bundles on the back side of the Panel (see Fig. 92). Locate the



red and orange wires from the Voltage Selector Switch and trace them back to the 10-position terminal block (see Fig. 92 Inset). Use a small jeweler's screwdriver to detach the two wires from positions #1 and #2.

At the Voltage Selector Switch carefully pull the red and orange wires through the terminal block grommet and all the way through the wire bundle heatshrink tube (Fig. 93).

DISASSEMBLY - Cont'd

At the Voltage Selector Switch, locate the crimp that connects the three blue wires together. At the crimp, cut the single blue wire that leads directly to the Voltage Selector.



reconnecting a new flag terminal to the black wire shown here, use a Molex Model 640014100 tool, or equivalent tool capable of crimping flag terminals.

On the front side of the Electrical Panel, use a 5/64" Allen

wrench to remove Figure 94 the four Screws (PN 510037) that mount the Circuit Breaker Cover (PN 462017) to the Electrical Panel (see Fig. 94). Move the Cover subassembly to a bench for work component disassembly if required (see Fig. 95).

ended wrench or pliers to loosen the mounting nut on the inboard side of the Voltage Selector Switch (Fig. 95). Back the nut off the Switch by hand and then slide the nut off the four wires. Pull the Switch and four



Use a 9/16" open-Figure 95 COMPRESSOR LED CABLE ASS) CIRCUIT **BRFAKFR** LED DIFFUSER GROMMET LENS (X2) POWER VOLTAGE ENTRY SWITCH CIRCUIT MOUNTING BREAKER NUT LOCKING TAB (Typical)

wires through the front side of the Cover and set aside for reassembly later. Detach the two leads on the LED Cable Assembly (PN 875117) from the two LED Diffuser Lenses (PN 850078). Slide Grommet (PN 870185) out of hole in circuit breaker cover around LED wires. Carefully pull the LED Cable Assembly out of the Housing and set aside for reassembly later. Cut the silicone RTV locking the circuit Page 18

breakers in place. Use a small flat screwdriver to depress the locking tabs located on the sides of the Power Entry and Compressor Breakers and pull each Breaker out through the front side of the Housing. Set the Breakers and the Housing aside for reassembly later. Replace Breakers if necessary.

POWER INLET LINE FILTER (EMI)

The Power Inlet Figure 96 Filter (PN Line 840121) is mounted to the back side of the Electrical Panel (Fig. 96). Disconthe nect four terminals/wires



attached to the Filter. Use a 5/64" Allen wrench to remove the two mounting Screws (PN 510037). Remove Filter and set aside for reassembly later. Replace Filter if necessary.

MOTOR HOUSING - LEFT WALL ASSEMBLY

The Left Wall (PN 462010) of the Motor/Compressor can be detached as a subassembly and then moved to a work bench for component disassembly.

Cut the four Cable Figure 97 Ties (PN 510137) around the Low Vacuum Hose (PN AA-86G) (Fig. 97). Use pliers to pry off the three large Hose Clamps (PN 510425) around the two High Vacuum

LEFT WALL ASSEMBLY

Hose sections (PN AA-259). Remove the High and Low Vacuum Hoses from their fittings and place aside for reassembly later. Note that the Vacuum I ow Hose is comprised of two sections, joined together with a straight barbed (PN Fitting 730558).

VACUUM

VALVE

SLEEV CLAME



On the inboard side of the Left Wall Assembly, in the lower left-hand corner, locate the red 1/8" Tube (PN AA-94R), which leads from the Switching Module Manifold Assembly (see Fig. 97 inset). Use diagonal cutters to work the 1/8" Sleeve Clamp (PN 730015) off the Tube, then disconnect the Tube from the fitting on the Vacuum Valve.

Use a 5/64" Allen wrench to remove the two mounting Screws (PN 510160) located at the base of the Left Wall Assembly (see Fig. 97 inset).

Locate the two mounting Screws (PN 510037) in the top left corner of the Left Wall Assembly (Fig. 98). Remove Screws, using a 5/64" Allen wrench. Locate the two 1/2" gray vacuum Hoses (PN 730373) leading from the two Venturi Assem-

blies to the Vacuum Splitter Valve and Vacuum Valve. Disconnect Hoses from the Valves' fittings.

Hold the Left Wall Assembly and carefully guide it over and off the Elbow Fitting (PN 730484). Move the Assembly to a workbench for component disassembly - if necessary.

Locate the four mounting Screws (PN 510618) that attach the Splitter Valve and Vacuum Valve to the Wall plate (Fig. 98). Remove the Screws using a #1 Phillips screwdriver and carefully separate the two Valves from the Wall. Note the O-Ring (PN 520079) and Spacer (PN 462086)

MOUNTING SCREWS (X2) COUPLER ELBOW FITTING VACUUM SPLITTER VALVE



located between the two Valves. Inspect the O-Ring for cracks or leakage and replace if necessary. **IMPORTANT:** Disassembly of the Vacuum Splitter and Vacuum Valves is not recommended unless Valve malfunction or breakage occurs. Refer to the parts breakdown on page 37 for parts configuration and ordering information for these Valves.

MOTOR HOUSING - RIGHT WALL ASSEMBLY

The Right Wall (PN 462016) of the Motor/Compressor can be detached as a subassembly and then moved to a work bench for component disassembly.

Locate the 1/4" black inline filter Tube (PN 730130) which is attached between the Inline Filter and the elbow fitting leading through the Right Wall (see Fig. 99). Use a 7/16"

open-end wrench to Figure 99

detach the nut at the filter end of the Hose. **NOTE:** To simplify reassembly later, leave this nut attached to this Hose end; the other end can remain attached to the elbow in the Wall.

On the opposite side of the Wall Assembly, locate the loose end of the red 1/8" Switching Manifold Tube and carefully draw it forward, out of the Compressor compartment (see Fig. 100). Figure 100 RIGHT WALL ASSEMBLY Next, use diagonal cutters to pry the Sleeve Clamp (PN 730095) off the gray 1/4" Venturi-Muffler Hose (PN AA-95G), then detach the Hose from the fitting on the Switching Manifold

Assembly. On the front of the Wall Assembly, use a 5/64" Allen wrench to remove the mounting Screw (PN 510037) at the top righthand corner, and the two Screws (PN 510160) at the base of the Wall (Fig. 101). Carefully lift the Right Wall Assembly off the Compressor Assembly and move to a workbench for further component disassembly.

IMPORTANT: Disassembly of the Right Wall Assembly is not recommended unless component malfunction or breakage occurs. Refer to the assembly breakdown on page 42 for parts configuration and ordering information.

If further disassembly is necessary, remove the main components as follows:







DISASSEMBLY - Cont'd



<u>Pressure Switch (PN 830142)</u>: On the outboard side of the Wall (Fig. 102), use a 7/16" open-end wrench to remove the hose fitting from the pressure switch Elbow (PN 730351) and disconnect the gray 1/4" Hose (PN AA-95G) end from the Elbow. Then, on the inboard side of the Wall (Fig. 103), disconnect the two red wire-connectors from the Pressure Switch terminals. Use a 1" thin open-end wrench to hold the Pressure Switch Mounting Nut while spinning off the Elbow with a 9/16" open-end wrench. Remove Switch, Elbow, and Washer and set aside for reassembly later.



Switching Module Manifold (PN 330594): On the inboard side of the Wall (Fig. 103), use diagonal cutters to pry the two 1/8" tube Sleeve Clamps (PN 730015) from the Red Tube (PN AA-94R) and Green Tube (PN AA-94G), then the 1/4" Clamp (PN 730094) and gray braided Hose (PN AA-96). Set all Tubes and Hoses aside for reassembly later. On the outboard side of the Wall (Fig. 102), use a 5/64" Allen wrench to remove the two mounting Screws (PN 510037) that attach the Switching Module to the Wall. Remove Module and set aside for reassembly later.

<u>3-Way Air (Unloader) Valve (PN 730578)</u>: On the inboard side of the Wall (Fig. 103), use a 9/64" Allen wrench to remove the two mounting Screws (PN 510764) that attach the 3-Way Valve and two Spacers (PN 462094) to the Wall. Refer to the 3-Way Air Valve subassembly breakdown on page 42 if further disassembly is required. If the Elbow (PN 462094) that leads through the Wall to the Compressor Air Filter needs to be removed, use a 9/16" open-end wrench to hold the Elbow while spinning off the Hose Fitting (PN 730117) with a 7/16" wrench. Cut the Cable Ties (PN 510137) as necessary to free up the two wire leads from the Valve. Draw the gray braided pressure regulator Hose through the grommet in the Wall and place the Valve and its fixtures and hoses aside for reassembly later.

VENTURI & MUFFLER BRACKET ASSEMBLY

The Venturi & Muffler Bracket Assembly is located on the back side of the Compressor Assembly (Fig. 104). Locate the Vacuum Hose (PN 730130) leading from the Compressor Vacuum Head to the Venturi/Muffler Assembly #2. Use a 7/16" Allen wrench to disconnect the Vacuum



Assembly away from the Compressor Assembly and detach the two brown motor wires with the blue Connectors (PN 860052) from the bottom of the motor capacitor. Then, move Bracket Assembly to the

workbench for further disassembly (Fig. 105).

IMPORTANT: Disassembly of the Venturi & Muffler Bracket Assembly is not recommended unless component malfunction or breakage occurs. Refer to the assembly breakdown on page 43 for parts configuration and ordering information. If further disassembly is necessary, remove the main components as follows:

<u>Stall Sensing Switch (PN 875120)</u>: Use diagnonal cutters to pry off the Sleeve Clamp (PN 730015) and 1/8" clear Tube (PN AA-94C) that is attached between the Stall Sensing Switch and the Venturi Muffler Assembly #2 (see Fig. 105b). Cut the Cable Tie (PN 510137) that secures the two Switch



wires to the Clip Mount (PN 510759) on the Motor Capacitor Bracket (PN 462106). Use a 9/16" open-end wrench to loosen the mounting nut on the top side of the Switch, then spin the nut and lockwasher (part of Switch Assembly) off the threads. Feed the two Switch wires through the nut and lockwaser and then pull the Switch down through the mounting hole in the Bracket. Place Switch aside for reassembly later.

<u>Motor Capacitor (Part of Compressor Motor)</u>: Use a 11/32" open-end or box wrench to remove the Nyloc mounting Nut (PN 510411) that attaches the Motor Capacitor to the Capacitor Bracket (Fig. 105b). Remove Capacitor and place aside for reassembly later.

Motor Capacitor Bracket (PN 462106): Use a 1/4" open-end

or box wrench to remove the two Nyloc mounting nuts that attach the Motor Capacitor Bracket to the Venturi Bracket (PN 462107) (Fig. 105a).

<u>Hoses</u>: Remove 1/4" and 1/2" hoses from the Venturi/Muffler Assemblies as necessary (Figs. 105a & 105b). Use a 7/16" open-end wrench to remove the 1/4" hose fittings. The 1/2" hoses can be pryed off their fittings by hand.

<u>Venturi/Muffler Assemblies #1 & #2</u>: Use a 3/32" Allen wrench to remove the two mounting Screws (PN 510309) and Nylon Gaskets (PN 730074) on each Venturi/Muffler Assembly (Fig. 105a). Set Assemblies aside for reassembly later. **NOTE:** If the Venturi/Muffler Assemblies require additional breakdown, refer to their Parts Lists on page 43.

COMPRESSOR/VACUUM PUMP ASSEMBLY

The Compressor Assembly is comprised of a compressor motor with a split head, which provides pressure on one side and vacuum on the other (Figs 106a & 106b). The Compressor motor includes a vibration mount assembly, which is bolted to the bottom of the AEU-525CF Case (see Fig. 107).



IMPORTANT: Disassembly of the Compressor/Pump Assembly is not recommended unless component malfunction or breakage occurs. Refer to the Assembly breakdown on page 44 for parts configuration and ordering information. If further disassembly is necessary, remove the main components as follows:

DISASSEMBLY - Cont'd

In-Line Air Filter (PN 730001): Use a 3/8" open-end wrench to disconnect the Elbow Fitting (PN 730120) from the Filter. Use a 7/16" open-end wrench to remove Fitting (PN 730117) and/or 1/4" black Tube (PN 730130) at the other end of the Filter. Place Filter aside for reassembly later.

Inlet Air Filter (PN 730494): Unthread the Filter from compressor head by hand. Inspect, clean, or replace, as necessary. Place Filter aside for reassembly later.

Cold Start Valve (PN 330633): Use a 9/16" open-end wrench to remove the Valve from the compressor head. Inspect Valve and replace or set aside for reassembly later.

Coupler Fitting (PN 730153): Use a 5/8" open-end wrench to detach the Elbow Fitting (PN 730484) on the end of the Coupler, then use a 3/4" wrench to remove the Coupler. Place Coupler aside for reassembly later.

Compressor Head Elbow Fittings and Plugs: Use a 3/8" open-end wrench to remove the two Elbow Fittings (PN 730329) that lead from the Compressor heads to the In-Line Filter and Venturi Assembly #2. Only if necessary, use a 1/4" Allen wrench to remove the 1/4" Plugs (PN 730098) from the Compressor Heads.

IMPORTANT: The Compressor Motor is not a customerserviceable item. Return the Motor to Aseptico if repairs are required.

MOTOR MOUNT ASSEMBLY

The two Motor Vibration Mount Assemblies are located on the bottom of the Compressor Motor (Fig. 107).

wrench to remove the four (PN Bolts 510295) that mount the two Mounting Blocks (PN 462082) to the Motor. Note mounting the configuration of the Blocks. Bolts. Fender Washers



(PN 510703), Rubber Bushings (PN 870315, Rubber Washers (PN 870316) and Spacers (PN 510779), Remove both Mount Assemblies and set aside for reassembly later.

AIR-ELECTRIC BULKHEAD INSERT

The Air-Electric Bulkhead Insert (PN 462050) is located on the top of the 525CF Case (PN 410201-08) (Fig. 108b). **IMPORTANT:** Disassembly of the Bulkhead Insert is not recommended unless component malfunction or breakage occurs. Refer to the Assembly breakdown on page 29 for parts configuration and ordering information. If further disassembly is necessary, remove the Insert components as follows:

Lay the Case down with the Case Lid facing up. Open the Lid and locate the Drain Outlet Tube (PN AA-86G) that leads from the bottom of the Insert inside the Case, to the drain port on the back side of the Case (see Fig. 108a). Twist the Tube off the plastic nipple on the bottom of the Insert. Locate



the seven mounting Screws (PN 510790) and rectangular Washers (PN 510784) that clamp the Insert to the underside of the Case. Stand the Case upright and pull the Insert subassembly up through the cutout in the top of the Case. Move the Insert subassembly to a work bench if further disassembly is required. At the bench, open the Insert Door (PN 462047) to expose the three mounting Screws (PN 510160) that attach the Delivery Module Lock Block (PN 462076) to the Insert (see Fig. 108b). Use a 5/64" Allen wrench to remove the Screws and Block and set aside for reassembly later. Locate the two mounting Screws (PN 510016) and Nuts (PN 510394) that attach the Hinge (PN 462046) to the Door (Fig. 108b). Use a 1/16" Allen wrench to remove the Screws while gripping the Nuts with a 1/4" openend wrench. If necessary, separate the Hinge from the Door using a 1/4" open-end wrench to remove the two mounting Nuts (PN 510394). Leave the two Fasteners (PN 510772), Ejector Spring (PN 510775), and Retainers (PN 510774) attached to the Door -- disassembly is unnecessary.

CASE & LID

IMPORTANT: Disassembly of the 525CF Case and Lid is not recommended unless component malfunction or breakage occurs. Refer to the Case breakdown on pages 30-32 for parts configuration and ordering information. If further disassembly is necessary, remove the Case components as follows:

Stand the 525CF Case upright and open the Lid (Fig. 109). Use a Phillips screwdriver to remove the two Screws (PN



510655) and Washers (PN 510431) that attach the Water Bottle Storage Bracket (PN 462109) to the Lid. If necessary, remove the two mounting Screws (PN 510533) for the Bottle Storage Cap (PN 462110), using a Phillips screwdriver. Detach and replace Holding Strap (PN 462144) as necessary. Locate the Fastener Tool (PN 462137) and Coiled Tether (PN 520102) in the upper right-hand corner of the Lid. Remove the Tool mounting Screw (PN 510655) and Washer (PN 510445) with a Phillips screwdriver and detach Tool from Case, if necessary.

Locate the Case Vent Door (PN 462004) on the outboard side of the Lid (see Figs. 109 & 110). Unlock the four Door Fasteners (PN 510772) and swing the Door open to expose the two Hinges (PN 462005) and Hinge Stop (PN 510777). Use a 3/32" Allen wrench to remove the two Screws (PN 510579) that mount the Hinge Stop to the door frame. Use a 1/16" Allen wrench to remove the four Screws (PN 510016) and Lockwashers (PN 510433) that mount the two Hinges to the Door Frame. Move the Vent Door subassembly to the work bench for further disassembly. At the bench, use a 1/4" open-end or box wrench to remove the six Nuts (PN 510434) and Lockwashers (PN 510433) that attach the Hinges and Stop to the Door. Separate the Hinges from the Door and set aside for reassembly later. The Door Fasteners, Ejector Springs (PN 510775), and Retainers (PN

510774) do not Figure 110 to be need removed from the Door. Use a Phillips screwdriver and 11/32" open-end wrench to remove the three Screws (PN 510533) along the top of the Door Frame (PN 462003). The other eight



Screws (PN 510545) and eleven Nuts (PN 510411) that attach the Frame to the Case Lid. Set the Frame aside for reassembly later. Locate the Waste Tank Bracket (PN 462105) on the outboard side of the Lid (Fig. 110). Use an 3/8" open-end or box wrench to remove the two Screws (PN 510124) and flat Washers (PN 510356) that attach the Bracket to the Lid. Place Bracket aside for reassembly later.

The Case Handle and Wheels are integrated into the 525CF Case Assembly (PN 41021-08). Both components can detached be from the Case if necessary: use а large (#3) Phillips screwdriver to remove the ten Screws that mount the Handle and Wheels to the Case.



THIS COMPLETES THE DISASSEMBLY PROCEDURE FOR THE AEU-525CF TRANSPORT III SYSTEM.

REASSEMBLY:

To reassemble the AEU-525CF System, follow the above instructions in the reverse order.

ALL TUBING

Refer to the plumbing diagram in Drawing Set, PN 420991, for the approximate length and part number of the tube to be replaced.

ALL WIRING

Refer to the electrical schematic in Drawing Set, PN 420991, for the proper size and length of the wire to be replaced

FINAL ASSEMBLY PARTS LIST - Figure 112 (Sheet 1 of 9)

IT	EM	PART NO	QTY
0	FINAL ASSY AEU-525	120379	1
Õ	BOTTLE 1 LITER (32 oz) BLOW MOLDED HDPE	730471	1
3	LABEL MYLAR AEU-425 WATER	420299	1
Ø	MOTOR/CABLE ASSY W/SHORT CABLE	AE-240SC-40	1
6	VALVE SAL/EJECT AUTOCLAVABLE LEVER DCI	AA-37LAD	1
6	TUBING SALIVA EJECT 3/80D GRY	AA-86G	6.0625
0	LOW VACUUM WASTE INLET FITTING AEU-525	462025	1
8	O-RING .234 ID X .070 CS SILICONE 2-010	520100	2
9	VALVE CENT VAC UNIV LEVER AUTO DCI	AA-35LAD	1
	TUBING ASEPSI-FLEX 1/2ID GRY	AA-83A	5
<u>8</u>	HIGH VACUUM WASTE INLET FITTING AEU-525	462026	1
8	O-RING .549 ID X .103 CS SILICONE 2-113	520101	2
8		AE-7 PIM	1
<u>w</u>	TURING AA 24 1/2 X 1/8 GRAV CUT 6" 10"	330397 AA 259	3 6/58
ä	HIGH VACUUM WASTE OUTLET FITTING AFU-525	462021	1
ă		462138	1
ŏ	TUBING SILICONE .281IDX.3750D 70 DURO GRAY	730489	2.6875
ð	LOW VACUUM WASTE OUTLET FITTING AEU-525	462022	1
Ō	LOW VACUUM WASTE OUTLET FERRULE AEU-525	5462139	1
ð	FTN 1/4 X 1/4 BARB STRAIGHT SS	730558	1
Ð	WASTE TANK ASSY AEU-525	330603	1
23	FTN 1/4 DELRIN SLEEVE	730095	4
2	TUBING POLY 1/40DX.159ID GRY 90 DURO	AA-95G	6.845
Ð	M/S STNLS PHDPHL 8-32 X 1/2	510545	9
20	C/S BTNSOC STNLS 8-32 X 1/4	510309	7
Ø	HOOK CORD 1/4 BLACK PLASTIC	730371	1
23	GROMMET 5/16 ID X 5/8 OD X 1/16 GROOVE	870326	2
<u></u>	CORD BUNGEE 1/4 DIA	730370	1.2917
<u></u>	SHELF DELIVERY MODULE STORAGE AEU-525	462098	1
<u>8</u>	C/S BINSOC SINLS 6-32X1/4	510037	41
8		462100	1
8	M/S PHPHIL 6 X 5/16 PLASTITE HARDEND STEEL	510790	7
ă		462000	1
ŏ	VACUUM TUBE BAFFLE PART A AFU-525	462000	1
ð	STRAP DELIVERY MODULE STORAGE AEU-525	462145	1
<u> </u>	HOLDER SPRING ACTION	730445	1
39	C/S BTNSOC STNLS 8-32 X 3/8	510404	6
40	CLIP COMPONENT SCREW MOUNT .62 DIA	510699	2
4	RIVET BLIND AL/AL 3/32D X 1/32-1/8 GRIP	510722	2
Ð	VACUUM TUBE BAFFLE PART B AEU-525	462002	1
4 3	TUBE GUARD AIR-ELECTRIC MODULE AEU-525	462147	1
<u></u>	M/S PHDPHL #6 X 1/4 PLASTITE STNLS	510781	6
()	FOOT BUMPER .5 X .14 CYLIN CLEAR	850067	3
46	FTN 1/8 ID SLEEVE CLAMP CLEAR	730015	7
9	I UBING POLY 1/80D GRN	AA-94G	2.1458
<u></u>		AA-94K	3.375
<u>9</u>		402003	1
<u>9</u>		510717	<u> </u>
<u>8</u>	WASHER INT STAR S/S #8	510420	2
<u>8</u>	INSULATION MOTOR HOUSING CEILING AFU-525	462014	1
ŏ	ADHESIVE FOAM BACKED 1/4 x 3/8	490148	8.25
ō	LABEL, SERIAL NO	420300	5.20
60	LABEL ATTENTION CORRECT LINE CORD	420295-15	1
đ	LABEL CIRCUIT BREAKERS AEU-525/S/CF	420345-11	1
63	LABEL CHASSIS AEU-525	420432-13	1
69	LABEL WASTE CONNECTOR AEU-525/S/CF	420295-16	1
60	FAN GUARD PLASTIC 4.53X .10 TK	540009	1
61	RIVET BLIND AL/AL BLACK 1/8 D X 3/16-1/4 GRIP	510785	4
62	WASHER BLIND RIVET 1/8	510198	4
63	MOTOR HOUSING COVER PLASTIC AEU-525	462008	11
64	CABLE ASSY POWER DISPLAY MODULE AEU-525	875118	1

64)	CABLE ASSY	<u> </u>
Pa	age 24	

IT	EM	PART NO	QTY
65	FOOT BUMPER 1 DIA X 1/2 TALL X 1/4	850082	2
66	C/S BTNSOC STNLS 1/4-20 X 1-1/4	510295	6
67	WASHER FENDER 1/4 ID X 7/8 OD STNLS	510837	6
68	VIBRATION ISOLATOR BUSHING	520118	10
69	C/S BTNSOC STNLS 1/4-20 X 1	510294	4
70	FASTENER 1/4 TURN STUD 82 SERIES STNLS	510772	6
Ø	EJECTOR SPRING 1/4 TURN 82 SERIES STNLS	510775	6
Ø	RETAINER 1/4 TURN 82 SERIES STNLS	510774	6
B	AIR-ELECTRIC BULKHEAD DOOR AEU-525	462047	1
Ø	AIR-ELECTRIC BULKHEAD DOOR HINGE AEU-525	462046	1
Ð	NUT NYLOC 4-40 STNLS HEX	510394	6
T	C/S BTNSOC STNLS 4-40 X 1/4	510016	18
Ð	DELIVERY MODULE LOCK BLOCK AEU-525	462076	1
Ø	C/S BTNSOC STNLS 6-32 X 3/8	510160	12
79	FTN BARB 10-32 X 1/16 PLATED	730062	4
80	GASKET NYLON #10	730074	12
80	FTN BARB 10-32 X 1/8 BRIGHT NICKEL	730073	3
<u> 8</u> 2	WASHER RECTANGULR STNLS .153 IDX 312X.625	510784	7
<u>8</u> 3	AIR-ELECTRIC BULKHEAD INSERT AEU-525	462050	1
84	CLAMP CABLE NYLON 5/16 DIA X .203 MTG HOLE	510410	1
89	INSULATION MOTOR HOUSING REAR WALL	462148	1
<u>8</u>	PAD LEFT MOTOR MOUNT AEU-525	462221	1
87	STRAP WATER BOTTLE STORAGE AEU-525	462144	1
<u>89</u>	STORAGE CAP WATER BOTTLE AEU-525	462110	1
89	M/S STNLS FLAPHL 8-32 X 1/2	510533	5
90	BRACKET WATER BOTTLE STORAGE AEU-525	462109	1
91	M/S PHPHL 6 X 1/2 PLASTITE 48-2 HARDEND STL	510655	3
<u>9</u> 2	WASHER FLAT STNLS #6	510431	4
<u>66</u>	VELCRO LOOP 5/8" DIA BLK 25 YARDS ROLL	480022	1
94	VELCRO HOOK 5/8" DIA BLK 25 YARDS ROLL	480021	1
<u></u>	DRIVER 1/4 TURN FLAT FASTENER .04 THK STNLS	5462137	1
<u></u>	TETHER COILED 31" EXTENDED W/2X1/2 RINGS	520102	1
<u></u>	WASHER FENDER 3/4 OD X 3/16 ID STNLS	510445	1
<u></u>	FOOT BUMPER .50 DIA X .25 TALL	850069	1
	CASE VENT DOOR AEU-525	462004	1
	HINGE CONSTANT TORQUE ST-7A LFT SDE 4"-LB	510777	
		510579	2
	CASE VENT DOOR HINGE AEU-525	462005	2
		510434	<u> </u>
		510433	4
		462003	10
		310411	1
		402105	<u> </u>
		510356	2
		420081	<u> </u>
Ĭ		410201 09	I 1
) E		510137	
		510137	<u>3</u>
P	WASHER RUDDER 3/0 UD A .12317 ID .093 THK	510627	4

FINAL ASSEMBLY PARTS LIST - Figure 112

(Sheet 2 of 9)



NOTE: Refer to Page 24 for Parts Descriptions

FINAL ASSEMBLY PARTS LIST - Figure 112

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NOTE: Refer to Page 24 for Parts Descriptions

FINAL ASSEMBLY PARTS LIST - Figure 112



NOTE: Refer to Page 24 for Parts Descriptions

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NOTE: Refer to Page 24 for Parts Descriptions



NOTE: Refer to Page 24 for Parts Descriptions

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FINAL ASSEMBLY PARTS LIST - Figure 112

(Sheet 9 of 9)



NOTE: Refer to Page 24 for Parts Descriptions

AIR/ELECTRIC MODULE ASSEMBLY - Figure 113 (Sheet 1 of 4)

IT	EM	PART NO	QTY
6	AIR/ELECTRIC SCALER W/LED MODULE ASSY 525	330597	1
ă	SCALER ASSEMBLY SYSTEM WITH LED LIGHT	730654	1
ŏ	SYRINGE 3-WAY AIRWATER OLIICK CHANGE TIP		1
ă		AA-94C	4 4583
ă		AA-94R	1 6667
ă		AA-94G	1.8333
ă		730152	3
ดั		AA 59C	
ă		AA-68G	 1
ŏ		462095	1
ă	C/S BTNSOC STNI S 6-32 X 3/8	510160	5
ð		730055	<u>J</u> 1
ă		130033 AA 95B	0 7083
ă	FILTER 10-32 THREAD STAINLESS 100 MICRON	730326	1
ă		730005	5
ă		730095	
Ť	CASKET FOR NIME & ROTTLE LID	730073	/ 1
×	GASKET FOR NWS-6 BUTTLE LID	730473	I 7
×	CASKET NVLON #10	730062	
8		730074	
<u></u>		AA-94B	1
<u>4</u>		402039	1
*	U/S BINSUU SINLS 8-32 X 3/8	510404	3
3	HEAT SHRINK TO BLK 4FT LENGTHS	8/019/	0.4583
<u> </u>	MEMBRANE CONTROL PANEL DELIVERY MODULE	420918	1
<u>8</u>	LABEL INSTRUMENT HOLDER WITH SCALER	420961	1
20	DELIVERY MODULE CONTROL PANEL HOUSING	462041	1
27	M/S PHPHIL 6 X 3/8 PLASTITE 48-2 HARDND STL	510650	4
20	WIRE HARNESS BOARD TO BOARD AEU-525	875113	1
<u></u>	CONN .1 HSNG LOCK/POL 5 PIN	860019	2
30	PCB ASSY DISPLAY AEU-5000 COATED	330600-C	1
<u>9</u>	HOLDER BAR SUPPORT AEU-525	462096	2
<u>@</u>	C/S BTNSOC STNLS 6-32X1/4	510037	38
<u> </u>	SEAL RUBBER BULB 1/2" X 1/2" X 1/4"	520104	0.5467
34	DELIVERY MODULE TOP PANEL AFU-525	400040	
		462040	1
<u> </u>	AIR-ELECTRIC MODULE FRONT HOUSING AEU-525	462040	1
35 36	AIR-ELECTRIC MODULE FRONT HOUSING AEU-525 SLEEVE .31 OD X .035 WALL X .38 LG	462040 462042 462230	1 1 2
<u>999</u>	AIR-ELECTRIC MODULE FRONT HOUSING AEU-525 SLEEVE .31 OD X .035 WALL X .38 LG TUBING BRAIDED 1/40D GRY	462040 462042 462230 AA-96	1 1 2 1.9791
<u>8888</u>	AIR-ELECTRIC MODULE FRONT HOUSING AEU-525 SLEEVE .31 OD X .035 WALL X .38 LG TUBING BRAIDED 1/40D GRY O-RING .208 ID X .070 CS SILICONE	462040 462042 462230 AA-96 520099	1 1 2 1.9791 3
<u>88888</u>	AIR-ELECTRIC MODULE FRONT HOUSING AEU-525 SLEEVE .31 OD X .035 WALL X .38 LG TUBING BRAIDED 1/4OD GRY O-RING .208 ID X .070 CS SILICONE AIR JUNCTION FITTING AEU-525	462040 462042 462230 AA-96 520099 462051	1 1 2 1.9791 3 3
	AIR-ELECTRIC MODULE FRONT HOUSING AEU-525 SLEEVE .31 OD X .035 WALL X .38 LG TUBING BRAIDED 1/4OD GRY O-RING .208 ID X .070 CS SILICONE AIR JUNCTION FITTING AEU-525 O-RING .125ID X .070CS VT70	462040 462042 462230 AA-96 520099 462051 520025	1 1 2 1.9791 3 3 3
66666666	AIR-ELECTRIC MODULE FRONT HOUSING AEU-525 SLEEVE .31 OD X .035 WALL X .38 LG TUBING BRAIDED 1/4OD GRY O-RING .208 ID X .070 CS SILICONE AIR JUNCTION FITTING AEU-525 O-RING .125ID X .070CS VT70 AIR JUNCTION FLOATING BLOCK AEU-525	462040 462042 462230 AA-96 520099 462051 520025 462052	1 1 2 1.9791 3 3 3 3 1
666666666	AIR-ELECTRIC MODULE FRONT HOUSING AEU-525 SLEEVE .31 OD X .035 WALL X .38 LG TUBING BRAIDED 1/4OD GRY O-RING .208 ID X .070 CS SILICONE AIR JUNCTION FITTING AEU-525 O-RING .125ID X .070CS VT70 AIR JUNCTION FLOATING BLOCK AEU-525 M/S SHOLDR SCREW STNLS 3/16OD X 3/16LX 8-32	462040 462042 462230 AA-96 520099 462051 520025 462052 510688	1 1 2 1.9791 3 3 3 3 1 2
©©©©©©©©©©©	AIR-ELECTRIC MODULE FRONT HOUSING AEU-525 SLEEVE .31 OD X .035 WALL X .38 LG TUBING BRAIDED 1/4OD GRY O-RING .208 ID X .070 CS SILICONE AIR JUNCTION FITTING AEU-525 O-RING .125ID X .070CS VT70 AIR JUNCTION FLOATING BLOCK AEU-525 M/S SHOLDR SCREW STNLS 3/16OD X 3/16LX 8-32 CAP 0.01UF 20% 250V CERAMIC CLASSX1/Y2	462040 462042 462230 AA-96 520099 462051 520025 462052 510688 810433	1 1.9791 3 3 3 1 2 0.1750
	AIR-ELECTRIC MODULE FRONT HOUSING AEU-525 SLEEVE .31 OD X .035 WALL X .38 LG TUBING BRAIDED 1/4OD GRY O-RING .208 ID X .070 CS SILICONE AIR JUNCTION FITTING AEU-525 O-RING .125ID X .070CS VT70 AIR JUNCTION FLOATING BLOCK AEU-525 M/S SHOLDR SCREW STNLS 3/16OD X 3/16LX 8-32 CAP 0.01UF 20% 250V CERAMIC CLASSX1/Y2 TIE WRAP 4 INCH PICO WHITE	462040 462042 462230 AA-96 520099 462051 520025 462052 510688 810433 510137	1 1.9791 3 3 3 1 2 0.1750 1.000
	AIR-ELECTRIC MODULE FRONT HOUSING AEU-525 SLEEVE .31 OD X .035 WALL X .38 LG TUBING BRAIDED 1/4OD GRY O-RING .208 ID X .070 CS SILICONE AIR JUNCTION FITTING AEU-525 O-RING .125ID X .070CS VT70 AIR JUNCTION FLOATING BLOCK AEU-525 M/S SHOLDR SCREW STNLS 3/16OD X 3/16LX 8-32 CAP 0.01UF 20% 250V CERAMIC CLASSX1/Y2 TIE WRAP 4 INCH PICO WHITE HEAT SHRINK 3/32 BLK	462040 462042 462230 AA-96 520099 462051 520025 462052 510688 810433 510137 870116	1 1.9791 3 3 3 3 1 2 0.1750 1.000 0.0417
	AIR-ELECTRIC MODULE FRONT HOUSING AEU-525 SLEEVE .31 OD X .035 WALL X .38 LG TUBING BRAIDED 1/40D GRY O-RING .208 ID X .070 CS SILICONE AIR JUNCTION FITTING AEU-525 O-RING .125ID X .070CS VT70 AIR JUNCTION FLOATING BLOCK AEU-525 M/S SHOLDR SCREW STNLS 3/16OD X 3/16LX 8-32 CAP 0.01UF 20% 250V CERAMIC CLASSX1/Y2 TIE WRAP 4 INCH PICO WHITE HEAT SHRINK 3/32 BLK HEAT SHRINK 1/8 BLK	462040 462042 462230 AA-96 520099 462051 520025 462052 510688 810433 510137 870116 870118	1 1.9791 3 3 3 1 2 0.1750 1.000 0.0417 0.6375
	AIR-ELECTRIC MODULE FRONT HOUSING AEU-525 SLEEVE .31 OD X .035 WALL X .38 LG TUBING BRAIDED 1/40D GRY O-RING .208 ID X .070 CS SILICONE AIR JUNCTION FITTING AEU-525 O-RING .125ID X .070CS VT70 AIR JUNCTION FLOATING BLOCK AEU-525 M/S SHOLDR SCREW STNLS 3/16OD X 3/16LX 8-32 CAP 0.01UF 20% 250V CERAMIC CLASSX1/Y2 TIE WRAP 4 INCH PICO WHITE HEAT SHRINK 3/32 BLK HEAT SHRINK 1/8 BLK HEAT SHRINK 3/16 BLK	462040 462042 462230 AA-96 520099 462051 520025 462052 510688 810433 510137 870116 870118 870119	1 1.9791 3 3 3 1 2 0.1750 1.000 0.0417 0.6375 0.7917
	AIR-ELECTRIC MODULE FRONT HOUSING AEU-525 SLEEVE .31 OD X .035 WALL X .38 LG TUBING BRAIDED 1/40D GRY O-RING .208 ID X .070 CS SILICONE AIR JUNCTION FITTING AEU-525 O-RING .125ID X .070CS VT70 AIR JUNCTION FLOATING BLOCK AEU-525 M/S SHOLDR SCREW STNLS 3/16OD X 3/16LX 8-32 CAP 0.01UF 20% 250V CERAMIC CLASSX1/Y2 TIE WRAP 4 INCH PICO WHITE HEAT SHRINK 3/32 BLK HEAT SHRINK 1/8 BLK HEAT SHRINK 3/16 BLK RES 0.51 5% 2W METL OXIDE .59LX.2DX.7LS	462040 462042 462230 AA-96 520099 462051 520025 462052 510688 810433 510137 870116 870118 870119 810438	1 1.9791 3 3 3 1 2 0.1750 1.000 0.0417 0.6375 0.7917 1
$\mathbf{G} \mathbf{G} \mathbf{G} \mathbf{G} \mathbf{G} \mathbf{G} \mathbf{G} \mathbf{G} $	AIR-ELECTRIC MODULE FRONT HOUSING AEU-525 SLEEVE .31 OD X .035 WALL X .38 LG TUBING BRAIDED 1/40D GRY O-RING .208 ID X .070 CS SILICONE AIR JUNCTION FITTING AEU-525 O-RING .125ID X .070CS VT70 AIR JUNCTION FLOATING BLOCK AEU-525 M/S SHOLDR SCREW STNLS 3/160D X 3/16LX 8-32 CAP 0.01UF 20% 250V CERAMIC CLASSX1/Y2 TIE WRAP 4 INCH PICO WHITE HEAT SHRINK 3/32 BLK HEAT SHRINK 3/16 BLK RES 0.51 5% 2W METL OXIDE .59LX.2DX.7LS WIRE PVC #24 WHITE (9)	462040 462042 462230 AA-96 520099 462051 520025 462052 510688 810433 510137 870116 870118 870119 810438 870304-01	1 1.9791 3 3 3 1 2 0.1750 1.000 0.0417 0.6375 0.7917 1 0.3125
3333349999998	AIR-ELECTRIC MODULE FRONT HOUSING AEU-525 SLEEVE .31 OD X .035 WALL X .38 LG TUBING BRAIDED 1/40D GRY O-RING .208 ID X .070 CS SILICONE AIR JUNCTION FITTING AEU-525 O-RING .125ID X .070CS VT70 AIR JUNCTION FLOATING BLOCK AEU-525 M/S SHOLDR SCREW STNLS 3/160D X 3/16LX 8-32 CAP 0.01UF 20% 250V CERAMIC CLASSX1/Y2 TIE WRAP 4 INCH PICO WHITE HEAT SHRINK 3/32 BLK HEAT SHRINK 3/16 BLK RES 0.51 5% 2W METL OXIDE .59LX.2DX.7LS WIRE PVC #24 BLUE (6)	462040 462042 462230 AA-96 520099 462051 520025 462052 510688 810433 510137 870116 870118 870119 810438 870304-01 870304-06	1 1.9791 3 3 3 1 2 0.1750 1.000 0.0417 0.6375 0.7917 1 0.3125 0.2708
3366666666666666666	AIR-ELECTRIC MODULE FRONT HOUSING AEU-525 SLEEVE .31 OD X .035 WALL X .38 LG TUBING BRAIDED 1/40D GRY O-RING .208 ID X .070 CS SILICONE AIR JUNCTION FITTING AEU-525 O-RING .125ID X .070CS VT70 AIR JUNCTION FLOATING BLOCK AEU-525 M/S SHOLDR SCREW STNLS 3/160D X 3/16LX 8-32 CAP 0.01UF 20% 250V CERAMIC CLASSX1/Y2 TIE WRAP 4 INCH PICO WHITE HEAT SHRINK 3/32 BLK HEAT SHRINK 3/16 BLK RES 0.51 5% 2W METL OXIDE .59LX.2DX.7LS WIRE PVC #24 BLUE (6) WIRE PVC #24 BLACK (0)	462040 462042 462230 AA-96 520099 462051 520025 462052 510688 810433 510137 870116 870118 870119 810438 870304-01 870304-02	1 1.9791 3 3 3 1 2 0.1750 1.000 0.0417 0.6375 0.7917 1 0.3125 0.2708 0.25
	AIR-ELECTRIC MODULE FRONT HOUSING AEU-525 SLEEVE .31 OD X .035 WALL X .38 LG TUBING BRAIDED 1/40D GRY O-RING .208 ID X .070 CS SILICONE AIR JUNCTION FITTING AEU-525 O-RING .125ID X .070CS VT70 AIR JUNCTION FLOATING BLOCK AEU-525 M/S SHOLDR SCREW STNLS 3/160D X 3/16LX 8-32 CAP 0.01UF 20% 250V CERAMIC CLASSX1/Y2 TIE WRAP 4 INCH PICO WHITE HEAT SHRINK 3/32 BLK HEAT SHRINK 3/16 BLK RES 0.51 5% 2W METL OXIDE .59LX.2DX.7LS WIRE PVC #24 WHITE (9) WIRE PVC #24 BLACK (0) WIRE PVC #24 RED (2)	462040 462042 462230 AA-96 520099 462051 520025 462052 510688 810433 510137 870116 870118 870118 870119 810438 870304-01 870304-02 870304-03	1 1.9791 3 3 3 1 2 0.1750 1.000 0.0417 0.6375 0.7917 1 0.3125 0.2708 0.25 0.25
8888889999999999988888888	AIR-ELECTRIC MODULE FRONT HOUSING AEU-525 SLEEVE .31 OD X .035 WALL X .38 LG TUBING BRAIDED 1/40D GRY O-RING .208 ID X .070 CS SILICONE AIR JUNCTION FITTING AEU-525 O-RING .125ID X .070CS VT70 AIR JUNCTION FLOATING BLOCK AEU-525 M/S SHOLDR SCREW STNLS 3/160D X 3/16LX 8-32 CAP 0.01UF 20% 250V CERAMIC CLASSX1/Y2 TIE WRAP 4 INCH PICO WHITE HEAT SHRINK 3/32 BLK HEAT SHRINK 1/8 BLK HEAT SHRINK 3/16 BLK RES 0.51 5% 2W METL OXIDE .59LX.2DX.7LS WIRE PVC #24 BLUE (6) WIRE PVC #24 BLACK (0) WIRE PVC #24 GREEN (5)	462040 462042 462230 AA-96 520099 462051 520025 462052 510688 810433 510137 870116 870118 870118 870119 810438 870304-01 870304-02 870304-03 870304-04	1 1.9791 3 3 3 3 1 2 0.1750 1.000 0.0417 0.6375 0.7917 1 0.3125 0.2708 0.25 0.25
288236666666666666666666 88	AIR-ELECTRIC MODULE FRONT HOUSING AEU-525 SLEEVE .31 OD X .035 WALL X .38 LG TUBING BRAIDED 1/40D GRY O-RING .208 ID X .070 CS SILICONE AIR JUNCTION FITTING AEU-525 O-RING .125ID X .070CS VT70 AIR JUNCTION FLOATING BLOCK AEU-525 M/S SHOLDR SCREW STNLS 3/160D X 3/16LX 8-32 CAP 0.01UF 20% 250V CERAMIC CLASSX1/Y2 TIE WRAP 4 INCH PICO WHITE HEAT SHRINK 3/32 BLK HEAT SHRINK 1/8 BLK HEAT SHRINK 1/8 BLK HEAT SHRINK 3/16 BLK RES 0.51 5% 2W METL OXIDE .59LX.2DX.7LS WIRE PVC #24 BLUE (6) WIRE PVC #24 BLACK (0) WIRE PVC #24 GREEN (5) TERM QR/P8 SERIES MALE SIDE SML CONTACT	462040 462042 462230 AA-96 520099 462051 520025 462052 510688 810433 510137 870116 870118 870119 810438 870304-01 870304-01 870304-02 870304-03 870304-04 860290	1 1.9791 3 3 3 3 1 2 0.1750 1.000 0.0417 0.6375 0.7917 1 0.3125 0.2708 0.25 0.25 0.25 5
888888888888888888888888888888888888888	AIR-ELECTRIC MODULE FRONT HOUSING AEU-525 SLEEVE .31 OD X .035 WALL X .38 LG TUBING BRAIDED 1/40D GRY O-RING .208 ID X .070 CS SILICONE AIR JUNCTION FITTING AEU-525 O-RING .125ID X .070CS VT70 AIR JUNCTION FLOATING BLOCK AEU-525 M/S SHOLDR SCREW STNLS 3/160D X 3/16LX 8-32 CAP 0.01UF 20% 250V CERAMIC CLASSX1/Y2 TIE WRAP 4 INCH PICO WHITE HEAT SHRINK 3/32 BLK HEAT SHRINK 1/8 BLK HEAT SHRINK 1/8 BLK HEAT SHRINK 3/16 BLK RES 0.51 5% 2W METL OXIDE .59LX.2DX.7LS WIRE PVC #24 WHITE (9) WIRE PVC #24 BLACK (0) WIRE PVC #24 GREEN (5) TERM QR/P8 SERIES MALE SIDE SML CONTACT CONN PLUG QR/P8 SERIES 12 PIN	462040 462042 462230 AA-96 520099 462051 520025 462052 510688 810433 510137 870116 870118 870119 810438 870304-01 870304-01 870304-02 870304-03 870304-04 860290 860285	1 1.9791 3 3 3 1 2 0.1750 1.000 0.0417 0.6375 0.7917 1 0.3125 0.2708 0.25 0.25 0.25 5 1
8888888999999999988888888	AIR-ELECTRIC MODULE FRONT HOUSING AEU-525 SLEEVE .31 OD X .035 WALL X .38 LG TUBING BRAIDED 1/40D GRY O-RING .208 ID X .070 CS SILICONE AIR JUNCTION FITTING AEU-525 O-RING .125ID X .070CS VT70 AIR JUNCTION FLOATING BLOCK AEU-525 M/S SHOLDR SCREW STNLS 3/160D X 3/16LX 8-32 CAP 0.01UF 20% 250V CERAMIC CLASSX1/Y2 TIE WRAP 4 INCH PICO WHITE HEAT SHRINK 3/32 BLK HEAT SHRINK 3/32 BLK HEAT SHRINK 1/8 BLK HEAT SHRINK 3/16 BLK RES 0.51 5% 2W METL OXIDE .59LX.2DX.7LS WIRE PVC #24 WHITE (9) WIRE PVC #24 BLUE (6) WIRE PVC #24 RED (2) WIRE PVC #24 GREEN (5) TERM QR/P8 SERIES MALE SIDE SML CONTACT CONN PLUG QR/P8 SERIES 12 PIN C/S BTNSOC STNLS M3 X 0.5 X 10L	462040 462042 462230 AA-96 520099 462051 520025 462052 510688 810433 510137 870116 870118 870118 870119 810438 870304-01 870304-02 870304-02 870304-03 870304-04 860290 860285 510766	1 1.9791 3 3 3 1 2 0.1750 1.000 0.0417 0.6375 0.7917 1 0.3125 0.2708 0.25 0.25 0.25 5 1 2
888888888888888888888888888888888888888	AIR-ELECTRIC MODULE FRONT HOUSING AEU-525 SLEEVE .31 OD X .035 WALL X .38 LG TUBING BRAIDED 1/40D GRY O-RING .208 ID X .070 CS SILICONE AIR JUNCTION FITTING AEU-525 O-RING .125ID X .070CS VT70 AIR JUNCTION FLOATING BLOCK AEU-525 M/S SHOLDR SCREW STNLS 3/160D X 3/16LX 8-32 CAP 0.01UF 20% 250V CERAMIC CLASSX1/Y2 TIE WRAP 4 INCH PICO WHITE HEAT SHRINK 3/32 BLK HEAT SHRINK 1/8 BLK HEAT SHRINK 1/8 BLK HEAT SHRINK 3/16 BLK RES 0.51 5% 2W METL OXIDE .59LX.2DX.7LS WIRE PVC #24 WHITE (9) WIRE PVC #24 BLUE (6) WIRE PVC #24 RED (2) WIRE PVC #24 GREEN (5) TERM QR/P8 SERIES MALE SIDE SML CONTACT CONN PLUG QR/P8 SERIES 12 PIN C/S BTNSOC STNLS M3 X 0.5 X 10L AIR-ELECTRIC JUNCTION BLOCK AEU-525	462040 462042 462230 AA-96 520099 462051 520025 462052 510688 810433 510137 870116 870118 870119 810438 870304-01 870304-02 870304-02 870304-03 870304-04 860290 860285 510766 462053	1 1.9791 3 3 3 1 2 0.1750 1.000 0.0417 0.6375 0.7917 1 0.3125 0.2708 0.25 0.25 0.25 5 1 2 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1
888888888888888888888888888888888888888	AIR-ELECTRIC MODULE FRONT HOUSING AEU-525 SLEEVE .31 OD X .035 WALL X .38 LG TUBING BRAIDED 1/40D GRY O-RING .208 ID X .070 CS SILICONE AIR JUNCTION FITTING AEU-525 O-RING .125ID X .070CS VT70 AIR JUNCTION FLOATING BLOCK AEU-525 M/S SHOLDR SCREW STNLS 3/160D X 3/16LX 8-32 CAP 0.01UF 20% 250V CERAMIC CLASSX1/Y2 TIE WRAP 4 INCH PICO WHITE HEAT SHRINK 3/32 BLK HEAT SHRINK 3/32 BLK HEAT SHRINK 1/8 BLK HEAT SHRINK 3/16 BLK RES 0.51 5% 2W METL OXIDE .59LX.2DX.7LS WIRE PVC #24 WHITE (9) WIRE PVC #24 BLUE (6) WIRE PVC #24 BLACK (0) WIRE PVC #24 GREEN (5) TERM QR/P8 SERIES MALE SIDE SML CONTACT CONN PLUG QR/P8 SERIES 12 PIN C/S BTNSOC STNLS M3 X 0.5 X 10L AIR-ELECTRIC JUNCTION BLOCK AEU-525 M/S PHPHIL 6X5/16 PLASTITE HARDENED STEEL	462040 462042 462230 AA-96 520099 462051 520025 462052 510688 810433 510137 870116 870304-01 870304-02 870304-03 870304-04 860290 860285 510766 462053 510790	1 1 2 1.9791 3 3 3 1 2 0.1750 1.000 0.0417 0.6375 0.7917 1 0.3125 0.2708 0.25 0.25 0.25 5 1 2 1 2 1 4
888888888888888888888888888888888888888	AIR-ELECTRIC MODULE FRONT HOUSING AEU-525 SLEEVE .31 OD X .035 WALL X .38 LG TUBING BRAIDED 1/40D GRY O-RING .208 ID X .070 CS SILICONE AIR JUNCTION FITTING AEU-525 O-RING .125ID X .070 CS VT70 AIR JUNCTION FLOATING BLOCK AEU-525 M/S SHOLDR SCREW STNLS 3/160D X 3/16LX 8-32 CAP 0.01UF 20% 250V CERAMIC CLASSX1/Y2 TIE WRAP 4 INCH PICO WHITE HEAT SHRINK 3/32 BLK HEAT SHRINK 3/16 BLK RES 0.51 5% 2W METL OXIDE .59LX.2DX.7LS WIRE PVC #24 WHITE (9) WIRE PVC #24 BLUE (6) WIRE PVC #24 BLACK (0) WIRE PVC #24 GREEN (5) TERM QR/P8 SERIES MALE SIDE SML CONTACT CONN PLUG QR/P8 SERIES 12 PIN C/S BTNSOC STNLS M3 X 0.5 X 10L AIR-ELECTRIC JUNCTION BLOCK AEU-525 M/S PHPHIL 6X5/16 PLASTITE HARDENED STEEL WIRE PVC #22 GRN (5)	462040 462042 462230 AA-96 520099 462051 520025 510688 810433 510137 870116 870118 870118 870314-01 870304-01 870304-02 870304-03 870304-03 870304-04 860290 860285 510766 462053 510790 870047	1 1.9791 3 3 3 1 2 0.1750 1.000 0.0417 0.6375 0.7917 1 0.3125 0.2708 0.25 0.25 5 1 2 1 2 1 0.333
888888888888888888888888888888888888888	AIR-ELECTRIC MODULE FRONT HOUSING AEU-525 SLEEVE .31 OD X .035 WALL X .38 LG TUBING BRAIDED 1/40D GRY O-RING .208 ID X .070 CS SILICONE AIR JUNCTION FITTING AEU-525 O-RING .125ID X .070 CS VT70 AIR JUNCTION FLOATING BLOCK AEU-525 M/S SHOLDR SCREW STNLS 3/160D X 3/16LX 8-32 CAP 0.01UF 20% 250V CERAMIC CLASSX1/Y2 TIE WRAP 4 INCH PICO WHITE HEAT SHRINK 3/32 BLK HEAT SHRINK 3/32 BLK HEAT SHRINK 3/16 BLK RES 0.51 5% 2W METL OXIDE .59LX.2DX.7LS WIRE PVC #24 BLUE (6) WIRE PVC #24 BLACK (0) WIRE PVC #24 BLACK (0) WIRE PVC #24 GREEN (5) TERM QR/P8 SERIES MALE SIDE SML CONTACT CONN PLUG QR/P8 SERIES 12 PIN C/S BTNSOC STNLS M3 X 0.5 X 10L AIR-ELECTRIC JUNCTION BLOCK AEU-525 M/S PHPHIL 6X5/16 PLASTITE HARDENED STEEL WIRE PVC #22 GRN (5) CONN TERMINAL BLOCK 7 POS .315 CENTER 10A	462040 462042 462230 AA-96 520099 462051 520025 510688 810433 510137 870116 870118 870118 870119 810438 870304-01 870304-01 870304-02 870304-03 870304-03 870304-03 870304-04 860290 860285 510766 462053 510790 870047 860283	1 1.9791 3 3 3 1 2 0.1750 1.000 0.0417 0.6375 0.7917 1 0.3125 0.2708 0.25 0.25 0.25 0.25 1 2 1 2 1 4 0.8333 1
88888888888888888888888888888888888888	AIR-ELECTRIC MODULE FRONT HOUSING AEU-525 SLEEVE .31 OD X .035 WALL X .38 LG TUBING BRAIDED 1/40D GRY O-RING .208 ID X .070 CS SILICONE AIR JUNCTION FITTING AEU-525 O-RING .125ID X .070 CS VT70 AIR JUNCTION FLOATING BLOCK AEU-525 M/S SHOLDR SCREW STNLS 3/160D X 3/16LX 8-32 CAP 0.01UF 20% 250V CERAMIC CLASSX1/Y2 TIE WRAP 4 INCH PICO WHITE HEAT SHRINK 3/32 BLK HEAT SHRINK 3/32 BLK HEAT SHRINK 3/16 BLK RES 0.51 5% 2W METL OXIDE .59LX.2DX.7LS WIRE PVC #24 WHITE (9) WIRE PVC #24 BLACK (0) WIRE PVC #24 BLACK (0) WIRE PVC #24 GREEN (5) TERM QR/P8 SERIES MALE SIDE SML CONTACT CONN PLUG QR/P8 SERIES 12 PIN C/S BTNSOC STNLS M3 X 0.5 X 10L AIR-ELECTRIC JUNCTION BLOCK AEU-525 M/S PHPHIL 6X5/16 PLASTITE HARDENED STEEL WIRE PVC #22 GRN (5) CONN TERMINAL BLOCK 7 POS .315 CENTER 10A M/S STNLS PHDPHL 4-40 X 1/2 SELF THREADING	462040 462042 462230 AA-96 520099 462051 520025 510688 810433 510137 870116 870118 870118 870119 810438 870304-01 870304-01 870304-02 870304-02 870304-03 870304-03 870304-04 860290 860285 510766 462053 510790 870047 860283 510723	1 1.9791 3 3 3 1 2 0.1750 1.000 0.0417 0.6375 0.7917 1 0.3125 0.2708 0.25 0.25 0.25 0.25 5 1 2 1 4 0.8333 1 4
888888888888888888888888888888888888888	AIR-ELECTRIC MODULE FRONT HOUSING AEU-525 SLEEVE .31 OD X .035 WALL X .38 LG TUBING BRAIDED 1/40D GRY O-RING .208 ID X .070 CS SILICONE AIR JUNCTION FITTING AEU-525 O-RING .125ID X .070CS VT70 AIR JUNCTION FLOATING BLOCK AEU-525 M/S SHOLDR SCREW STNLS 3/160D X 3/16LX 8-32 CAP 0.01UF 20% 250V CERAMIC CLASSX1/Y2 TIE WRAP 4 INCH PICO WHITE HEAT SHRINK 3/32 BLK HEAT SHRINK 3/32 BLK HEAT SHRINK 3/16 BLK RES 0.51 5% 2W METL OXIDE .59LX.2DX.7LS WIRE PVC #24 WHITE (9) WIRE PVC #24 BLACK (0) WIRE PVC #24 BLACK (0) WIRE PVC #24 GREEN (5) TERM QR/P8 SERIES MALE SIDE SML CONTACT CONN PLUG QR/P8 SERIES 12 PIN C/S BTNSOC STNLS M3 X 0.5 X 10L AIR-ELECTRIC JUNCTION BLOCK AEU-525 M/S PHPHIL 6X5/16 PLASTITE HARDENED STEEL WIRE PVC #22 GRN (5) CONN TERMINAL BLOCK 7 POS .315 CENTER 10A M/S STNLS PHDPHL 4-40 X 1/2 SELF THREADING TUBING SILICONE .375 ID X .50 OD OPAQUE BLK	462040 462042 462230 AA-96 520099 462051 520025 462052 510688 810433 510137 870116 870118 870304-01 870304-02 870304-03 870304-04 860290 860285 510766 462053 510790 870047 860283 510723 730671	1 1.9791 3 3 3 1 2 0.1750 1.000 0.0417 0.6375 0.7917 1 0.3125 0.2708 0.25 0.25 0.25 0.25 5 1 2 1 4 0.8333 1 4 0.5
888888888888888888888888888888888888888	AIR-ELECTRIC MODULE FRONT HOUSING AEU-525 SLEEVE .31 OD X .035 WALL X .38 LG TUBING BRAIDED 1/40D GRY O-RING .208 ID X .070 CS SILICONE AIR JUNCTION FITTING AEU-525 O-RING .125ID X .070CS VT70 AIR JUNCTION FLOATING BLOCK AEU-525 M/S SHOLDR SCREW STNLS 3/160D X 3/16LX 8-32 CAP 0.01UF 20% 250V CERAMIC CLASSX1/Y2 TIE WRAP 4 INCH PICO WHITE HEAT SHRINK 3/32 BLK HEAT SHRINK 3/32 BLK HEAT SHRINK 3/16 BLK RES 0.51 5% 2W METL OXIDE .59LX.2DX.7LS WIRE PVC #24 WHITE (9) WIRE PVC #24 BLUE (6) WIRE PVC #24 BLACK (0) WIRE PVC #24 GREEN (5) TERM QR/P8 SERIES MALE SIDE SML CONTACT CONN PLUG QR/P8 SERIES 12 PIN C/S BTNSOC STNLS M3 X 0.5 X 10L AIR-ELECTRIC JUNCTION BLOCK AEU-525 M/S PHPHIL 6X5/16 PLASTITE HARDENED STEEL WIRE PVC #22 GRN (5) CONN TERMINAL BLOCK 7 POS .315 CENTER 10A M/S STNLS PHDPHL 4-40 X 1/2 SELF THREADING TUBING SILICONE .375 ID X .50 OD OPAQUE BLK GROMMET 1/2 ID X 1/16 GROOVE	462040 462042 462230 AA-96 520099 462051 520025 462052 510688 810433 510137 870116 870118 870304-01 870304-02 870304-03 870304-04 860285 510766 462053 510790 870047 860283 510723 730671 870331	1 1.9791 3 3 3 1 2 0.1750 1.000 0.0417 0.6375 0.7917 1 0.3125 0.2708 0.25 0.25 0.25 0.25 5 1 2 1 4 0.8333 1 4 0.5 4
88888888888888888888888888888888888888	AIR-ELECTRIC MODULE FRONT HOUSING AEU-525 SLEEVE .31 OD X .035 WALL X .38 LG TUBING BRAIDED 1/40D GRY O-RING .208 ID X .070 CS SILICONE AIR JUNCTION FITTING AEU-525 O-RING .125ID X .070CS VT70 AIR JUNCTION FLOATING BLOCK AEU-525 M/S SHOLDR SCREW STNLS 3/160D X 3/16LX 8-32 CAP 0.01UF 20% 250V CERAMIC CLASSX1/Y2 TIE WRAP 4 INCH PICO WHITE HEAT SHRINK 3/32 BLK HEAT SHRINK 3/32 BLK HEAT SHRINK 3/16 BLK RES 0.51 5% 2W METL OXIDE .59LX.2DX.7LS WIRE PVC #24 WHITE (9) WIRE PVC #24 BLUE (6) WIRE PVC #24 BLACK (0) WIRE PVC #24 GREEN (5) TERM QR/P8 SERIES MALE SIDE SML CONTACT CONN PLUG QR/P8 SERIES 12 PIN C/S BTNSOC STNLS M3 X 0.5 X 10L AIR-ELECTRIC JUNCTION BLOCK AEU-525 M/S PHPHIL 6X5/16 PLASTITE HARDENED STEEL WIRE PVC #22 GRN (5) CONN TERMINAL BLOCK 7 POS .315 CENTER 10A M/S STNLS PHDPHL 4-40 X 1/2 SELF THREADING TUBING SILICONE .375 ID X .50 OD OPAQUE BLK GROMMET 1/2 ID X 1/16 GROOVE DELIVERY MODULE LOCK BRACKET AEU-525	462040 462042 462230 AA-96 520099 462051 520025 510688 810433 510137 870116 870118 870304-01 870304-02 870304-03 870304-04 860285 510766 462053 510766 462053 510723 730671 870331 462044	1 1.9791 3 3 3 1 2 0.1750 1.000 0.0417 0.6375 0.7917 1 0.3125 0.2708 0.25 0.25 0.25 5 1 2 1 4 0.8333 1 4 0.5 4 1
888888888888888888888888888888888888888	AIR-ELECTRIC MODULE FRONT HOUSING AEU-525 SLEEVE .31 OD X .035 WALL X .38 LG TUBING BRAIDED 1/40D GRY O-RING .208 ID X .070 CS SILICONE AIR JUNCTION FITTING AEU-525 O-RING .125ID X .070CS VT70 AIR JUNCTION FLOATING BLOCK AEU-525 M/S SHOLDR SCREW STNLS 3/160D X 3/16LX 8-32 CAP 0.01UF 20% 250V CERAMIC CLASSX1/Y2 TIE WRAP 4 INCH PICO WHITE HEAT SHRINK 3/32 BLK HEAT SHRINK 3/32 BLK HEAT SHRINK 3/16 BLK RES 0.51 5% 2W METL OXIDE .59LX.2DX.7LS WIRE PVC #24 WHITE (9) WIRE PVC #24 BLACK (0) WIRE PVC #24 BLACK (0) WIRE PVC #24 GREEN (5) TERM QR/P8 SERIES MALE SIDE SML CONTACT CONN PLUG QR/P8 SERIES 12 PIN C/S BTNSOC STNLS M3 X 0.5 X 10L AIR-ELECTRIC JUNCTION BLOCK AEU-525 M/S PHPHIL 6X5/16 PLASTITE HARDENED STEEL WIRE PVC #22 GRN (5) CONN TERMINAL BLOCK 7 POS .315 CENTER 10A M/S STNLS PHDPHL 4-40 X 1/2 SELF THREADING TUBING SILICONE .375 ID X .50 OD OPAQUE BLK GROMMET 1/2 ID X 1/16 GROOVE DELIVERY MODULE LOCK BRACKET AEU-525	462040 462042 462230 AA-96 520099 462051 520025 510688 810433 510137 870116 870118 870304-01 870304-02 870304-03 870304-04 860285 510766 462053 510790 870047 860283 510723 730671 870331 462043	1 1.9791 3 3 3 1 2 0.1750 1.000 0.0417 0.6375 0.7917 1 0.3125 0.2708 0.25 0.25 0.25 5 1 2 1 4 0.8333 1 4 0.5 4 1 1 1

IT	EM I	PART NO	QTY
67	SHIM BRASS 1/4 ID X 3/8 OD X .01 THK	510768	2
63	WASHER NYLON .196IDX.437ODX.062T #10 FENDR	510019	2
69	WASHER FLAT STNLS #10	510356	2
70	GUARD HP TUBING AEU-525	462121	1
Ø	LABEL DELIVERY MODULE AEU-525/S/CF	420596-16	1
Ø	DELIVERY MODULE HANDLE BRACKET AEU-525	462031	1
B	DELIVERY MODULE HANDLE LOCK KNOB AEU-525	462033	1
Ø	M/S SOCHD STNLS SHOLDER 10-32 X .63	510767	1
Ð	SPRING WAVE STNLS .375 X .250 X .15	510765	1
76	DELIVERY MODULE HANDLE LOCK KNOB SPACER	462034	1
	C/S BTNSOC STNLS 6-32 X 5/8	510720	2
	BEARING PAD DELIVERY MODULE AEU-525	462102	3
<u>w</u>	TAPE FOAM ACRYLIC 3M VHB 1/2 WIDE ROLL BLK	490145	0.009
		462037	1
<u>8</u>		162117	1
<u>@</u>	C/S BTNSOC STNLS 4-40 X 1/4	510016	4
	EERRITE SOLID CORE #28 18 67X 10 16X14 27	870278	1
	WIRE PVC #22 BLK (0)	870042	1 9583
80	HEAT SHRINK 1/4 BLK	870120	0.2917
8	WIRE PVC #22 RED (2)	870044	2.7083
88	WIRE PVC #22 YEL (4)	870046	0.375
89	WIRE PVC #22 ORN (3)	870045	0.375
90	CONN .1 HSNG LOCK/POL 3 PIN	860118	1
91	CONN .1 TERM CRIMP LOOSE 22-30 AWG	860023	8
92	CONN .1 HSNG LOCK/POL 2 PIN	860076	1
93	WIRE PVC #22 WHT (9)	870051	1.1667
94	PCB ASSY POWER AEU-525 COATED	330601-C	1
95	INSULATOR POWER BOARD BOTTOM AEU-525	462113	1
96	STANDOFF POWER BOARD AEU-525	462112	4
97	LABEL SCALER FUSE AMC-20	420748-08	1
<u>98</u>	HOLE PLUG NYLON 7/16 WHITE	510496	1
<u></u>	TURING SUCCONE 2811DX 2750D 70 DURO CRAY	330591	0.0417
	SWITCH DUSHBUTTON MINIATURE NO	220144	0.0417
6		730031	1
<u>m</u>	ETN COUPLER MALE/MALE 10-32 HEX	730651	1
	VALVE CHECK ANTI RETRACTION	730428	2
Ō	TUBING POLYURETHANE 5/32 OD X 3/32 ID	730227	0.375
106	TUBING POLY 1/8 OD YELLOW	AA-94Y	1.0833
107	PEEK 1/16 OD X .016 WALL	730670	2
108	CLAMP VENTURI TUBE	461607	2
109	TUBING 2H POLY STRT SYNG GRY	AA-85G	5.5833
1	TUBING POLY 1/8 OD ORANGE	AA-940	0.666
Ø	DELIVERY MODULE RIGHT WALL AEU-525	462036	1
Ð	HOLDER LED SCALER MODULE AEU-525	462115	1
<u>UB</u>	M/S STNLS FLAPHL M3X4	510793	2
W	WASHER FLAT STNLS #4	510192	2
5		510394	4
		0/0202	20.00
		510205	I
	ADAPTER PLATE MOTOR RECEPTACLE AELL525	462069	1
õ	C/S BTNSOC STNLS 6-32X1/2	510036	1
ดี	SPACER MOTOR RECEPTACLE AEU-525	462135	1
õ	CLAMP TUBE AE-240	461868	3
123	CONN 4 PIN PANEL MT AWG #20 FM	860212	1
Ō	CONN TERMINAL BLOCK .315 CENTER 10A 4 POS	860250	1
ø	FTN PLUG 10-32 HEX BRIGHT NICKEL	730072	3
126	FTN 10-32 CROSS NICKEL PLATED	730139	2
Ø	VALVE 2 WAY N/C 12VDC CLIPPARD	730656	1
128	BRACKET SOLENOID VALVE AEU-525	462114	1
129	INSULATOR SOLENOID AEU-525	462116	1
B	GROMMET 1/4 DIA FOR 3/8 DIA X .095 PNL NEOPR	870185	2
B	DELIVERY MODULE MANIFOLD ASSY AEU-525	330591	1
6	DELIVERY MODULE FRONT WALL AEU-525	462035	1
œ	FTN 1/8 ID SLEEVE CLAMP CLEAR	730015	8

AIR/ELECTRIC MODULE ASSEMBLY - Figure 113





NOTE: Refer to Page 33 for Parts Descriptions



Page 36

PARTS LIST - Figure 114 - Air Bottle Assembly

ITEM	PART NO	QTY
1 BOTTLE 750ML (250Z) BLOW MOLDED HDPE	730657	1
2 LABEL MYLAR AEU-425 AIR	420307	1
3 GASKET FOR NWS-8 BOTTLE LID	730473	1
FTN BARB 10-32 X 1/8 BRIGHT NICKEL	730073	2
GASKET NYLON #10	730074	2
6 CAP AIR BOTTLE AEU-525	462007	1
C/S BTNSOC STNLS 8-32 X 3/8	510404	2

IT	EM	PART NO	QTY
8	FTN ELBOW 90 1/4 POLY X 1/8 MPT	730120	1
9	FTN 1/4 POLY X 1/8 MPT POLYTITE	730117	1
0	LABEL FILTER DRAIN GENERIC	420345-10	1
Ø	FILTER 1/8" NPT 5 MICRON	730495	1
Ø	C/S BTNSOC STNLS 8-32 X 1/4	510309	2
B	SUPPORT BRACKET AIR BOTTLE AEU-525	462006	1
Ø	FOOT BUMPER .5 X .14 CYLIN CLEAR	850067	2



PARTS LIST - Figure 115 - Compressor Assembly

ITEM	PART NO	QTY
1 CLAMP HOSE SNAPPER .616 TO .707 GRIP	510425	3
2 TUBING AA-24 1/2 X 1/8 GRAY	AA-259	3.6458
3 TUBING SILICONE .281IDX.3750D 70 DURO GRAY	730489	2.6875
TUBING POLY 1/40DX.159ID GRY 90 DURO	AA-95G	6.845
5 TUBING POLY 1/80D GRN	AA-94G	2.1458
6 TUBING POLY 1/80D RED	AA-94R	3.375
C/S BTNSOC STNLS 6-32X1/4	510037	41
8 FTN 1/4NPT X 1/2" BARB	730484	1

	, ,		
IT	EM	PART NO	QTY
9	TUBING 1/2 OD X .062 WALL GREY URETHANE	730373	0.8333
0	TUBING SALIVA EJECT 3/80D GRY	AA-86G	6.0625
0	FTN 1/4 X 1/4 BARB STRAIGHT SS	730558	1
Ø	C/S BTNSOC STNLS 6-32 X 3/8	510160	12
B	FTN 1/4 DELRIN SLEEVE	730095	4
Ø	TUBING AIR BRAKE 1/4 BLACK	730130	1.0683
Ð	TIE WRAP CLIP MOUNT .187 DIA MNTING HOLE	510759	8
6	TUBING POLY 1/80D CLR	AA-94C	0.1458
Ð	FTN 1/8 ID SLEEVE CLAMP CLEAR	730015	7



ELECTRICAL PANEL ASSEMBLY - Figure 116 (Sheet 1 of 2)

IT	EM	PART NO	QTY
0	WIRE PVC #18 WHT (9)	870031	3.525
Ø	TERM FEMALE .250 X .032 22-18 AWG RED	860240	4
8	TERMINAL BLIND END CRIMP 4X#18-2X#12	860287	3
4	WIRE PVC #18 BLK (0)	870026	4.7167
6	TERMINAL FLAG FULL INSULATED AWG 18-22	860286	9
6	WIRE PVC #18 BLU (6)	870030	3.8542
0	WIRE PVC #18 ORN (3)	870199	1.5417
8	HEAT SHRINK 1/8 BLK	870118	0.1667
9	WIRE PVC #18 RED (2)	870027	1.5417
0	TERMINAL BLIND END CRIMP 2 X #24-3 X #18	860292	2
0	WIRE PVC #14 BLK (0)	870238	0.25
Ð	TERM FEM .250 X .032 16-14AWG BLU KOBICONN	860101	3
B	TERM FLAG FEM FULL .250 X.032 16-14AWG BLU	860052	4
Ø	WIRE PVC #14 WHITE (9)	870305-01	0.25
Ð	WIRE PVC #14 GREEN/YELLOW (54)	870305-11	2
16	TERM RING #6 LUG 16-14AWG BLUE	860113	2
Ð	TERM INSUL RING #8 16-14 AWG BLUE	860117	1
B	CONN 0.156 HOUSING LOCK/POL 3 PIN VH SERIES	860272	1
Ð	CONN CRIMP CONTACT #22-18 AWG VH SERIES	860271	2
20	CONN .156 HSNG LOCK 3 PIN	860018	1
Ø	CONN .156 TERM CRIMP 18-24 AWG TIN PLT	860033	2
2	CABLE ASSY POWER DISPLAY MODULE	875118	1
3	CABLE ASSY WASTE CONNECTOR AEU-525	875114	1
2	C/S BTNSOC STNLS 6-32X1/4	510037	41
Ð	CABLE ASSY UNLOADER SOLENOID AEU-525	875115	1
20	CABLE ASSY PRESSUR CNTROL/VAC SWITCH	875116	1
Ð	CABLE ASSY LED AEU-525	875117	1
28	LENS 3MM LED DIFFUSER PANEL MOUNT	850078	2
29	CIRCUIT BREAKER COVER AEU-525	462017	1
30	SWITCH POWER VOLTAGE SELECTOR	840084	1
31	CIRCUIT BREAKER 2 POLE 3A ROCKER SNAP MT	830143	1

IT	EM	PART NO	QTY
32	PWR ENTRY/CKT BRKR/SWTCH 6A 2-POLE 1.5MM	840119	1
33	GROMMET 1/4 DIA FOR 3/8 DIA X .095 NEOPRENE	870185	1
34	FAN 115 V TUBEAXIAL 106 CFM 4.69 SQ X 1.5 THK	540012	1
B	C/S BTNSOC STNLS 6-32 X 3/8	510160	5
36	POWER SUPPLY 48VDC 1.25A MED GRADE	840087-01	1
G	C/S BTNSOC STNLS 4-40 X 1/4	510016	18
33	WASHER #6 NYLON .140 ID X .312 OD X .032 THK	510573	8
39	STANDOFF .375 OD X 1.25L 4-40 FEM/FEM PLASTIC	462244	8
40	INSULATOR PETG POWER SUPPLY AEU-525	462081	1
(POWER SUPPLY UNIVERS INPUT 24V 20W	840120	1
Ð	TIE WRAP 8 IN X 18# NYLON	510628	1
B	POWER SUPPLY 24VDC 0.63AMP	840093	1
4	PCB ASSY CONTROL AEU-525	330604	1
(WASHER SPLIT STNLS #4	510433	4
46	WASHER STNLS .128 ID X .238 OD X .014018 THK	510657	4
Ð	STANDOFF NYLON 1/4 HEX X 4-40 X .375L MALE/FE	510760	4
43	INSULATOR PETG PRESS/VAC BOARD	462080	1
49	TRIAC HEATSINK ADAPTER AEU-525	462111	1
60	POWER INLET LINE FILTER 6A 250V	840121	1
61	C/S BTNSOC STNLS 6-32X1/4	510037	8
Ø	CONN TERMINAL STRIP 8MM CENTER 20A 10 POS	860278	1
63	M/S STNLS PHDPHL 4-40 X 1/2 SELF THREADING	510723	3
64	BRACKET TERMINAL STRIP AEU-525	462099	1
69	NUT NYLOC 6-32 STNLS HEX	510395	2
5 6	GROMMET 7/16ID X 1/16GROVE ADU-40CFC	870235	2
Ð	INSULATION FRONT MOTOR CHASSIS AEU-525	462223	1
63	INSULATION MOTOR HOUSING FRONT WALL	462013	1
69	EDGE TRIM 1/16 ID X 1/4 X 1/4 RUBBER	730378	0.2917
60	TIE WRAP CLIP MOUNT .187 DIA MOUNTING HOLE	510759	5
61	NUT HEX 6-32 STNLS	510293	2
Ø	WASHER INT STAR S/S #6	510419	3
63	COMPRESSOR HOUSING FRONT WALL AEU-525	462012	1







PARTS LIST - Figure 117 - Motor Housing - Left Wall Assembly

ITEM	PART NO	QTY
1 M/S STNLS PHDPHL 6-32 X 1-3/4	510618	4
2 O-RING 0.487 ID X 0.103 WIDE	520079	1
TUBE VACUUM VALVE ADAPTOR AEU-525	462086	1
FTN 3/8MPT X 1/2 BARB	730652	2
3 WAY VACUUM MANIFOLD TOP AEU-525	462068	1
6 C/S BTNSOC STNLS 6-32X3/4	510035	4
O-RING .837 ID X .058 CS SL 70	520004	2
8 FTN 1/8 MPT X 3/8 BARB MODIFID	730366-08	2
3 WAY VACUUM MANIFOLD BODY AEU-525	462067	1
FTN BARB 10-32 X 1/16 PLATED	730062	1
1 GASKET NYLON #10	730074	1

ITEM	PART NO	QTY
12 TOP VACUUM VALVE AEU-525	462090	1
C/S BTNSOC STNLS 6-32 X 3/8	510160	4
O-RING 0.489 ID X 0.070 WIDE VITON 60 DUROM	520078	3
PLUNGER VACUUM VALVE	461850	1
SPRING COMPRESSION 0.028 WIRE X 2.5 LONG	510684	1
T FTN 1/8MPT X 1/4 DOUBLE BARB	730345	1
B SETSCREW SOCCUP STNLS 4-40X1/4	510187	1
BODY VACUUM VALVE AEU-525	462085	1
20 TIE WRAP CLIP MOUNT .187 DIA MTG HOLE	510759	1
2 INSULATION MOTOR HOUSING LEFT WALL	462011	1
22 MOTOR HOUSING LEFT WALL AEU-525	462010	1



PARTS LIST - Figure 118 - Motor Housing - Right Wall Assembly

ITEM	PART NO	QTY
1 WIRE PVC #22 BLK (0)	870042	3.5
2 TERM FEMALE .250 X .032 22-18 AWG RED	860240	4
3 FTN 1/8 ID SLEEVE CLAMP CLEAR	730015	5
TUBING POLY 1/80D RED	AA-94R	3.375
5 FTN BARB 1/16 DELRIN TEE	730152	1
6 FTN 1/4 DELRIN SLEEVE	730095	2
TUBING BRAIDED 1/40D GRY	AA-96	0.7292
8 SWITCHING MODULE MANIFOLD ASSY AEU-525	330594	1
9 C/S BTNSOC STNLS 6-32X1/4	510037	2
SWITCH PRESSURE 20-120 PSI 1/8 NPT	830142	1
1 WASHER NYLON .505 ID X .750 OD X .062T	510175	1
12 FTN 1/8 FPT X 1/4 POLY 90 DEGREE ELBOW	730351	2
B GROMMET 7/16ID X 1/16GROVE ADU-40CFC	870235	3
FTN 1/4 POLY X 1/8 MPT POLYTITE	730117	1
FTN BARB 10-32 X 1/8 BRIGHT NICKEL	730073	1

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ITEM	PART NO	QTY
GASKET NYLON #10	730074	1
T FTN ELBOW 90 1/4 POLY X 1/8 MPT	730120	3
18 FTN STREET/TEE 1/8MPT MOD	730133-01	1
VALVE CHECK 100PSI 1/8FPT BRAS	730453	1
FTN STREET/TEE 1/8MPT	730133	1
FTN NIPPLE 1/8MPX3/4 CLOSE STN	730116	1
2 FTN PLUG BRASS 1/8 MPT HEX COUNTERSUNK	730341	1
23 TERM MALE .250 X .032 22-18 AWG RED	860239	2
23 MUFFLER/FILTER SINTERD BRNZ 1/8 MPT	730450	1
25 VALVE AIR 3 WAY 2 POS 1/8 FPT 24V DC 120 PSI	730578	1
C/S SOCHD STNLS 8-32 X 3/4	510764	2
2 SPACER MAC VALVE AEU-525	462094	2
23 INSULATION MOTOR HOUSING RIGHT WALL	462015	1
29 MOTOR HOUSING RIGHT WALL AEU-525	462016	1
30 TUBING POLY 1/80D GRN	AA-94G	0.9692
3 TUBING POLY 1/40DX.159ID GRY 90 DURO	AA-95G	4.8583



PARTS LIST -	· Figure	119	- Venturi &	Muffler	Bracket	Assembly
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ITEM	PART NO	QTY
1 CABLE ASSY UNLOADER PRESSURE SWITCH	875120	1
2 PUMP VACUUM DUAL VOLT	730503	1
3 NUT NYLOC 8-32 STNLS	510411	12
INSULATION VENTRI MUFFLER AEU-525	462224	2
5 FTN ELBOW 90DEG 3/8 BARB X 3/8 BARB BLACK	730655	1
6 TUBING 1/2 OD X .062 WALL GREY URETHANE	730373	0.125
7 FTN 1/8 MPT X 3/8 BARB MODIFID	730366-08	1
8 FTN 1/4 POLY X 1/8 FPT	730195	1
9 VENTURI .043 DIA NOZZLE	462229	1
MUFFLER ASSY AMC-20	330564	2
1 BODY VENTURI AMC-20	461851	2

ITE	EM	PART NO	QTY
Ð	C/S BTNSOC STNLS 8-32 X 1/4	510309	4
B	GASKET NYLON #10	730074	6
Ø	VENTURI BRACKET AEU-525	462107	1
Ð	NUT NYLOC 4-40 STNLS HEX	510394	2
6	FTN BARB 10-32 X 1/16 PLATED	730062	2
Ð	FTN 1/4 POLY X 1/8FPT MOD	730195-01	1
ß	VENTURI 0.059 DIA NOZZLE ADU-17	461895	1
❶	FTN ELBOW 90DEG 1/8 MPT X 3/8 BARB BRASS	730658	1
20	TIE WRAP CLIP MOUNT .187 DIA MOUNTING HOLE	510759	1
Ø	MOTOR CAPACITOR BRACKET AEU-525	462106	1
2	FTN 1/8 ID SLEEVE CLAMP CLEAR	730015	2



PARTS LIST - Figure 120 - Compressor/Vacuum Pump Assembly

ITEM	PART NO	QTY
TERM FLAG FEM FULL .250 X.032 16-14AWG BLU	E 860052	4
2 HEAT SHRINK 1/4 BLK	870120	2.791
3 FTN ELBOW 90 1/4 POLY X 1/8 MPT	730120	1
4 FILTER INLINE ONLY	730001	1
5 FTN 1/4 POLY X 1/8 MPT POLYTITE	730117	1
6 TUBING AIR BRAKE 1/4 BLACK	730130	1.0683
FTN 1/4 MPT X 1/4 POLY ELBOW	730329	2
8 FILTER AIR 1/4 NPT X 1.19 GAST	730494	1
9 FTN NIPPLE 1/4 MPT X 1.38 LONG BRASS	730233	1
TTN PLUG 1/4 MPT X 1/4 HEX COUNTRSNK BRAS	SS 730098	1

ITEM	PART NO	QTY
1 COLD START VALVE ASSY 1/4 MPT	330633	1
D MOTOR MOUNT AEU-525	462082	2
13 C/S BTNSOC STNLS 1/4-20 X 1-1/4	510295	6
GROMMET BUSHING SORBOTHANE 70 DURO	870315	10
GROMMET WASHER SORBOTHANE 70 DURO	870316	4
WASHER FENDER STNLS .281 ID X 1.0 OD	510703	14
SPACER ALUM .625OD X .252ID X .25L	510779	4
B PAD HANDLE LOWER MIDDLE AEU-525	462226	1
PUMP VACUUM DUAL VOLT AEU-525	730503	1
TERMINAL BLIND END CRIMP 2 X #24-3 X #18 UL	860292	1
TERMINAL BLIND END CRIMP 4 X #18-2 X #12	860287	1



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PARTS LIST - Figure 121 - Inlet/Outlet Air Filter Assembly

ITEM	PART NO	QTY
ASSY INLET/OUTLET FILTER AEU-525CF	330634	1
2 FOAM FILTER OUTER AEU-525CF	730685	1
FOAM FILTER INNER AEU-525CF	730684	1
4 FOAM FILTER TUBE AEU-525CF	730687	1
5 SUPPORT CHASSIS MOUNT REVERSE .25L	510848	12
6 GASKET NYLON #10	730074	22
PLATE CLAMP MEMBRANE PWR INLET AEU-525CF	462315	1
NUT NYLOC 2-56 SS	510122	12

IT	EM	PART NO	QTY
9	MEMBRANE INLET POWER COVER AEU-525CF	462298	1
0	PLATE CLAMP WASTE MEMBRANE AEU-525CF	462316	1
0	MEMBRANE WASTE SENSOR COVER AEU-525CF	462299	1
Ð	FASTENER 1/4 TURN DZUS LION STUD 82 SERIES	510772	4
B	EJECTOR SPRING 1/4 TURN DZUS LION 82SERIES	510775	4
Ø	RETAINER 1/4 TURN DZUS LION 82 SERIES STNLS	510774	4
Ð	EDGE TRIM 1/8 ID X 1/4 X 5/16 RUBBER	730622	2.2817
Ð	VELCRO 1/2" HOOK 50YD RL WHT	480030	3.8033
Ð	DOOR INLET/OUTLET FILTER AEU-525CF	462300	1



STERILIZATION AND MAINTENANCE:

Because of its simple design, the Aseptico AEU-525CF 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 |Fig. 122 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. 122).



ELECTRIC MOTOR & CORD ASSEMBLY:

The entire Electric Motor and Cord Assembly is fully autoclavable (Fig. 123). Steam autoclave motor/cord

assembly at 132° C (270° F) for ten minutes. Loosely |Fig. 123 - MOTOR & CORD 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 or damaged (see Fig. 124). Gently

peel old O-rings out of grooves and replace with new rings (PN 520069). Occasionally apply non-toxic (preferably containing PTFE) lubricant to O-rings maintain to 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.

MOTOR LED LENS CLEANING:

The lens of the LED light on the motor (see Fig. 124) 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 lintfree 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 10 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.



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.

AIR BOTTLE FILTER:

Routinely check the air bottle filter once a day for condensation. To drain condensa-tion, 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 \rightarrow " 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:

Empty all waste from the waste container. 1) 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 overfill the container's waste compartments. to 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 levelsensor 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. 125). 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.



ULTRASONIC SCALER:

The scaler 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 it's 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 126).



- **3.** Insert pointed end of installer pin into open end of installer sleeve until O-ring stops against end of tool.
- Position concave end of installer pin against end of water/air port fitting (see Figure 127).



5. Push installer sleeve inward, until new O-ring seats into groove on fitting (see Figure 128).



AIR FILTER ASSEMBLY:

The foam filter on the Air Filter Assembly should be cleaned regularly if the AEU-525CF is used in a dusty environment. Gently pull the foam sheet off the white mounting studs on the Assembly frame and clean with soap and water or compressed air. If washed, allow filter to dry before operating unit.

TROUBLESHOOTING:

Problem:	Correction:
Unit will not start:	 Check system power connection. Check if both circuit breaker switches are On. Check if waste container sensor is connected. Check if waste container is full.
Unit starts but trips circuit breaker:	 Check source circuit to see if it is a minimum of 15A. Check voltage selector switch for proper voltage. NOTE: Operating the unit off an extension cord is not recommended.
No water pressure:	 Check water supply bottle water level. Verify that cap is tight and not cross-threaded. Check that water supply pressure toggle is in the 'PRESSURE' position.
Insufficient vacuum:	 Check HVE and saliva ejector vacuum hose assemblies for blockage. Check that the waste container lid is properly seated and tightly secured. Check that holder toggle switch is On.
Insufficient handpiece operation:	 Check the pressure gauge on the side of the air/electric module and ensure that system pressure is sufficient. Check that handpiece tubing is untangled and not crimped. Check handpiece connection for missing or broken gasket.
No water to handpiece:	 Check that handpiece water toggle on side of air/electric module is 'On'. Check that the water flow control valve to the handpiece is open (counterclockwise).
No coolant air to handpiece:	 Check that handpiece air toggle on side of air/electric module is 'On'. Check that the air flow control valve to the handpiece is open (counterclockwise).
Electric motor control panel does not light up when on:	Press Standby Button on control panel.
Electric motor control panel lights up when turned on, but handpiece does not turn:	 Check motor plug connection. Depress foot switch. Turn holder toggle switch toward red dot. Increase Torque setting Check that a file or bur is properly seated in the handpiece.
Electric motor slowing down or sluggish:	 Increase torque setting. Check for dirty, under-lubricated handpiece. Check if handpiece lubricant is draining into motor. After lubricating and before autoclaving, stand handpiece on its base to let excess lubricant drain out.
Electric motor handpiece light does not turn on:	 Confirm that handpiece is a fiberoptic illumination type. Press illumination button on control panel to turn light On and/or increase light intensity
Vacuum doesn't turn off when hoses are in their holders:	 Ensure that HVE and saliva ejector vacuum heads are placed firmly in their holders. Check vacuum On/Off toggles on holders.
Pressure fails to stabilize:	Check that air and water bottles are tight. Check line and fittings for air leaks.
Pressure fails to turn off at 55 PSI:	Check for broken cable to pressure switch.
Unit fails to build pressure:	Check that bottles are tight. Check wires for breaks to pressure regulation switch.
Red LED on the waste container is lit:	 Empty full waste container. Check waste level sensor connection. Verify that connector contacts are dry. Check that floats in waste container move freely.
Compressor is on, but gauge shows no increase in pressure:	 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.
HVE vacuum switch is On (toward red dot), but vacuum doesn't activate when hose is removed:	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 instrument control switches on the air/electric module assembly.
HVE vacuum pressure seems lower:	Check to see if the waste container lid is properly seated and tightly secured.
Saliva ejector switch is On (toward red dot), but vacuum doesn't activate when hose is removed:	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.

DETACHABLE PARTS LIST

ITEM	PART NO	QTY
WASTE TANK ASSEMBLY AEU-525	330603	1
INLINE STRAINER WASTE CONTAINER (HVE	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 RECPTL)	520081	3
O-RING .208ID X .070 CS SILICONE (AIR-JUNCTION)	520099	3
O-RING .234ID X .070 CS SILICONE 2-010 (LVE)	520100	2
O-RING .549ID X .103 CS SILICONE 2-113 (HVE)	520101	2
FILTER INLINE ONLY 35 MICRON (FOR UNLOADER)	730001	1
FILTER 10-32 THRD STNLS 100 MICRON (WATR BOT)	730326	1
BOTTLE 1 LITER 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

ITEM	PART NO	QTY
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
FOAM FILTER INNER AEU-525CF7	30684	1
FOAM FILTER OUTER AEU-525CF	730685	1
FOAM FILTER TUBE AEU-525CF	730687	1

FINAL INSPECTION AND TESTING - Procedure for Aseptico AEU-525CF - F-4.10-02-B

(Testing specs subject to change. Refer to latest Schematic Drawing Set, PN 420991, Sheets 16-18 for updates.)

EXAMINATION FOR DEFECTS:

- Unit design, construction, operation, and performance not as specified.
- Hardware components such as pins, screws and fasteners missing, broken or otherwise damaged.
- · Finish not as specified.
- Damage or defects on exterior or interior surfaces present.
- Plating missing which effects function. Plating not free from blisters, peeling, visible porosity, or other defects.
- Any component fractured, broken punctured, torn, bowed, deteriorated, or malformed.
- Any component misplaced or not in proper alignment.
- Fastening device requiring loosening or removal is swaged, peened, staked, or otherwise permanently fastened, components missing.
- Components do not fit or mate properly.
- Interface fits between components not proper (too loose; too tight/binding).
- Components not free from defects.
- Removable components cannot be removed or replaced without difficulty.
- · Coarse machine, tool or die marks present.
- Surface not clean, not free of foreign matter, flux or other defects.
- · Damage or defects on exterior or interior surface present.
- Operating instructions not provided.
- Service data not provided.
- Identification markings not present, not complete, not permanent, not correct.

TEST PROCEDURE - NEW AND REPAIRED PRODUCTS:

A. Assemble AEU-525 with all instruments in their holders, plug the power cord into 115VAC, 60Hz, and set the voltage selector to "115".

B. Performance Test (Suction):

1. Make sure all instruments are in their holders, and power switches are "ON", and turn holder switches to "OFF". DO NOT latch the side latches of the Waste Tank Lid. The Lid sealing gasket should just rest on top the Waste Tank.

Remove the HVE from its holder and turn on the holder switch. The compressor should come on continuously and there should be vacuum at the end of the HVE. Check the maximum vacuum and the free air flow rate. If < 3.9 SCFM @ 54" WC, remove power for 1 hour and repeat. If still low, mark as non-conforming. Return HVE to its holder and turn the holder switch off.

3. Remove the LVE from its holder and turn on the holder switch. The compressor should come on continuously and there should be vacuum at the end of the LVE. Check the maximum vacuum and the free air flow rate. If < 1.2 SCFM @ 20" WC, mark as non-conforming. Return LVE to its holder and turn the holder switch off.

4. Turn the Purge/Pressure switch to 'Purge' and remove the water bottle. There should be no air leaking from the bottle cap. Switch the Purge/Pressure switch to 'Pressure' and verify that there is air flow from the

bottle cap. Switch to 'Purge' and replace the water bottle.

C. Performance Test (Line Voltage Select):

1. Turn off the compressor power switch and allow all the air to bleed from the system.

2. Plug the power cord into 230VAC/50Hz and set the voltage selector to "230". Turn on the power switches and run the compressor until it stops. Remove the HVE from its holder and turn it on to start the compressor again and run for 15 seconds and then turn off the compressor power switch and allow all the air to bleed from the system. Replace HVE in its holder.

D. Performance Test. (Air):

1. Turn on the compressor to fill the air reservoir. Wait two minutes to ensure there is no leakage. The compressor should not come on sooner than every 30 seconds after the first two cycles. Check that the pressure gauge reads 45-55 PSI.

2. Operate the air syringe with a duty cycle of 20 seconds on and 10 seconds off for 5 minutes to check for any possible stalling of the compressor.

E. Hand Motor Test:

1. If the power is on, turn it off. Now turn on the power while watching the LCD display and verify that the software versions are "127" and "11".

2. Ensure the Standby button turns the display on and off.

3. Ensure the ratio button causes the display to cycle through the ratio settings of 1:5, 1:2, 1:1, 5:1, and 8:1. Set the console to the 1:1 ratio.

4. Ensure the Torque Adjust buttons allow adjustment of the display up and down from 5% to 100%. Set the torque to 100%.

5. Ensure the Speed Adjust buttons allow speed adjustment up and down from 2.00KRPM to 40.0KRPM. Set the speed to 2.00KRPM.

6. Put a 20:1 handpiece with a large bur of some kind on the motor. Press the footpedal and verify that the bur rotates counterclockwise when viewed from the bur. Release the footpedal and press the motor direction button and verify that it goes from "FWD" to "REV" and back to "FWD". Set it to "REV" and press the footpedal and verify that the bur is now turning clockwise when viewed from the bur and that the console is beeping. Release the footpedal.

7. Change the ratio to 8:1 and the torque to 5%. Now press the motor direction button and verify that it goes from "FWD" to "REV" to "ENDO" and back to "FWD". Set it to "ENDO" and press the footpedal and loosely grasp the slowly turning bur until you hear a beep and the direction of the bur will briefly reverse and then continue in the original direction.

8. Remove the handpiece and press the "sun" symbol until the LED turns on. Press the Torque Adjust buttons to verify that the light intensity varies from very bright to much dimmer. Leave the intensity at 100% and press the "sun" symbol to turn off the LED. Press the "sun" symbol to turn on the symbol on the LCD display and press the "PRESET" button until there is a beep and the

preset number stops flashing. Now press the footpedal to turn on the motor and LED and then release it and verify that the LED remains on for 20 +/-5 seconds.

9. Place the motor into a calibrated ATU-0037 tachometer. Confirm that the torque is set to 100%. Set the speed to 40.0KRPM. Press the footpedal to turn on the motor and record the speed which the tachometer shows and verify that it is 40.0KRPM +/-2.0KRPM. Values outside this range are non-conforming.

10. Attach an Anthogyr 8:1 (actually 7.2:1) handpiece to the motor and set the controls to 8:1 ratio, 500RPM, 100% torque and ENDO mode. Attach the handpiece to the bit on the dynamometer assembly (copper cylinder) and press the footpedal. While the motor is running, decrease the Torque% setting until the motor stops and goes into ENDO mode. Record the Torque% setting where this happens. It should be less that 50% and greater than 5%. If not, remove the handpiece and lubricate it with Aseptispray and repeat. If it still fails, mark it as nonconforming.

11a. Remove the handpiece. Depress the foot pedal with the Handpiece Water and Handpiece Air toggle valves off and check that no cooling air or water is coming from the two holes between the 0-rings on the motor E-head. You will feel motor cooling air at the front of the E-head however.

11b. Turn the Handpiece Air toggle valve on and adjust the Handpiece Air needle valve on the Delivery Module. Depress the footpedal and verify that air is coming from the motor E-head hole between the two o-rings farthest from the motor body on the E-head.

11c. Partially fill the Delivery Module water bottle and insert an internal irrigation type handpiece such as the AHP-72MB onto the motor. Turn the Handpiece Air toggle valve off and the Handpiece Water toggle valve on and adjust the Handpiece Water needle valve on the Delivery Module. Depress the footpedal and verify that water is coming from the handpiece. Turn on the Handpiece Air and verify that a fine mist is coming from the handpiece.

11d. Operate the handpiece motor with the Handpiece Air toggle on and then turn the toggle off while still operating the motor. Release the foot pedal and place the hand motor firmly in its holder and wait 5 seconds. Press the footpedal. If the motor comes on, the designed leak isn't present or of adequate magnitude. **11e.** Turn off the AEU-525 and trip the HVE and bottle pressurization toggles to remove all compressed air from the system. Close the toggles. Fill the ATU-0088 bottle to the line on the side and mount on the AEU-525. Turn on the AEU-525 and observe the final pressure of the ATU-0088 gauge. It should be between 25 and 35 PSI and should be reached within 10 seconds of turn on. Repeat steps 4 more times. If pressure is wrong or it takes too long to pressurize then the module needs to be reworked.

12. Simultaneously hold the Preset and Ratio buttons until the display resets and factory defaults are set.

F. Performance Test (Syringe):

1. Fill the water bottle and turn on the compressor to fill the air reservoir. Press the syringe air button (the right one) and check that the pressure gauge doesn't go below 20 PSI. If it does, change the screwdriver adjust for the syringe air.

2. Release the syringe air button and allow the compressor to refill the reservoir. Press the syringe water button (left one) and verify that water comes out the syringe.

3. Press both buttons and verify that a mist is created.
4. Use ATU-0090 and plug the syringe tip into the syringe. Press the syringe air button and observe the MAXIMUM pressure on the gauge. It must be between 48.0 and 55.5 PSI

G. Performance Test (Scaler):

1. Remove scaler from its holder, install a tip, turn the scaler intensity to "10", turn the Scaler Water control counterclockwise as far as it will go, turn the Scaler Water toggle valve on and press the foot pedal and observe that the scaler produces water from the tip, that the scaler lights come on, and that when the scaler tip is placed against a thin metal surface, there is high pitched noise produced.

2. Turn the Scaler Intensity control from "10" to "100" and back and verify that the control adjusts the intensity of the scaler vibrations.

3. With the Scaler Intensity control set to "10", adjust the Scaler water control clockwise and counterclockwise to verify that it controls the amount of water coming from the scaler tip.

4. Press the foot pedal several times to verify that the scaler goes on and off with no more than a $\frac{1}{2}$ second delay. Remove the scaler tip

H. Performance Test (Waste Tank)

1. Remove the Waste Tank lid from the tank and with the floats at the bottom place the .82" spacer over the sensor wells and then press each float upward as far as possible. There must be no alarms. Remove the .82" spacer and lift each float about .250" and there must be flashing from the red LED on the lid and beeping from the main case.

2. Turn on the HVE so that the compressor is on continuously and place a .0625 spacer above the first float and raise the float as high as possible. The compressor must stop.

3. Repeat for other float.

I. HiPot and Ground Bond Tests:

1. On the AC/DC Withstand Voltage Tester, press MENU -> MENU -> SYSTEM and change the "PLC REMOTE" setting to "OFF".

2. Ground Bond Test - Earth Ground at Power Inlet to accessible earthed metal.

Test parameters: Current limit 25 Amps, Dwell time 2 seconds, Resistance limit 0.1 Ohms.

FINAL INSPECTION AND TESTING - Cont'd

Test Details:

a. Connect the power cord from the test equipment to the mains power inlet of the AEU-525, and the return lead of the Ground Bond Tester to the chrome plated bungee handle.

b. Verify that the settings on the Ground Bond Tester are correct (Ref. Ground Bond Tester (Preset M0-1).

c. Press the "TEST" button on the Ground Bond Tester and wait for the test to finish.

3. Dielectric Withstand Test - Mains to accessible earthed metal.

Test parameters: Test voltage 2520 VDC, Ramp 1 second, Dwell 1 second, Leakage current limit 1.0 mA, Arc Fail is OFF.

Test Details:

a. Connect the power cord from the test equipment to the mains power inlet of the AEU-525, and the return lead of the Hypot III Tester to the chrome handle inside the '525.

b. Verify that the settings on the AC/DC Withstand Voltage Tester are correct. Press the "TEST" button on the Dielectric Withstand Tester and wait for the test to finish.

4. Dielectric Withstand Test - Mains to AEU-5000 Handmotor.

Test parameters: Test voltage 4350 VDC, Dwell Time 1 second, Leakage current limit 1.0 mA, Arc Fail is OFF. **Test Details:**

a. Connect the power cord from the test equipment to the mains power inlet of the AEU-525 and the return lead of the Ground Bond Tester to the E-head of the AEU-525 motor.

b. Verify that the settings on the AC/DC Withstand Voltage Tester are correct.

c. Press the "TEST" button on the Dielectric Withstand Tester and wait for the test to finish.

5. Dielectric Withstand test – Mains to Scaler Tip. Test parameters: Test voltage 4350 VDC, Ramp 1 second, Dwell 1 second, Leakage limit 1 mA, Arc Fail is OFF.

Test Details:

a. Make sure the power switch/circuit breaker and the compressor circuit breaker are on.

b. Open the transition box on the Delivery Module and disconnect the green wire at the Euro terminal strip and fold the wire away from any metal parts.

c. Connect the appliance coupler cord from the hipot tester to the mains input of the AEU-525. Connect the return cable of the hipot tester to the scaler tip. Lay the scaler handle and the return lead on a sheet of insulator so there is no mechanical stress placed on the scaler tip.

d. Verify the test settings are correct. Push 'TEST' and wait for the test to finish.

e. Reconnect the green wire, check continuity, and replace transition box cover.

6. Dielectric Withstand Test - Mains to the combined foot pedal wires.

Test parameters: Test voltage 4350 VDC, Ramp 1 second, Dwell 1 second, Leakage limit 1 mA, Arc Fail is OFF.

Test Details:

a. Make sure the power switch/circuit breaker and the compressor circuit breaker are on.

b. Attach a foot pedal connector cable 875070 with all wires joined to form a common test point (ATU-0076).
c. Connect the appliance coupler cord from the hipot tester to the mains input of the AEU-525. Connect the return cable of the hipot tester to the joined wires of the foot pedal connector.

d. Verify the test settings are correct.

e. Push 'TEST' and wait for the test to finish

J. Empty Water Bottle and Dry:

Make sure the electric motor is attached to the Delivery Module and place the motor in a dry absorbent material. Open Handpiece Water adjust all the way, open the Handpiece Water toggle valve, press on foot pedal and blow out water from the lines and motor. Place motor in holder. Remove scaler from holder and open Scaler Water adjust all the way, open the Scaler Water toggle valve, TURN THE SCALER INTENSITY CONTROL AS LOW AS POSSIBLE, press on foot pedal and blow out water from the lines and scaler. DON'T OPERATE LONGER THAN 30 SECONDS!

K. Foot Control:

Ensure that the foot control has "PASSED" label P/N 420301.

L. Labeling and Serial Number:

Make sure all required labels, including the one with the serial number, are present.

M. Manual and Packaging:

Ensure the instrument has one foot pedal, high vacuum hose, low vacuum hose, 120VAC power cord, 220VAC power cord, 40K motor, waste tank and lid, manual and packing guide.

Refer to Schematic Drawing Set, PN 420991, Sheet 16 for test instructions on the electric motor assembly.

Refer to Schematic Drawing Set, PN 420991, Sheets 17 & 18 for setup instructions and testing parameters for ground bond and dielectric withstand tests.

SYMBOL DEFINITIONS:

×	Type BF Equipment		High Volume Evacuator (HVE)
Λ	Attention, consult accompanying documents	(j)	Pressure Gauge
Ĩ	Consult Instructions For Use	(M)	Motor Direction
	Manufacturer	Ŕ	Light Controls
4	Dangerous Voltage	Ž	Footswitch
\sim	Alternating current	-0	On/Off Switch - Mains
Ŀ	Air	Ś	Atmospheric Pressure Limitation
8 00	Water		Temperature Limitation
40	Counterclockwise to Increase/Open Clockwise to Decrease/Close	Ì	Humidity Limitation
	Electric Handpiece		Protective earth (ground)
	Syringe	IPX1	Protect Against Dripping Water
"ra	Scaler	SN	Serial Number
\langle	Scaler Tip Ultrasonic Control	晶管	Do Not Lift by Top Lid Or Latches
	Saliva Ejector	ý ¦ ,	Pressurize / Purge Water Bottle Pressure



REQUIRED TOOLS LIST



3/16 1/4"

Combination Wrenches:

1/4" 5/16" 11/32" 3/8" 7/16" 1/2" 9/16" (Qty: 2) 5/8" 3/4" 13/16" 7/8" 1"

Screwdrivers: 1/4" Standard, Slot 3/64" Standard Slot (Jeweler's) #1 Phillips #2 Phillips Electrical Tools:

Wire Stripper Crimp Tool



Panduit Model CT-1551 (or equivalent) Molex 640014100 (or equivalent)

Diagonal Cutters



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)
Shipping Case Size:	30.5" W x 25.75" L x 24.75" H (77.47 cm x 65.40 cm x 62.86 cm)
525CF Weight (fully loaded): .	57 lbs (25.8 kg)
Shipping Case Weight:	108 lbs (49 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: I	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:	62 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: 10 to 95% non-condensing Altitude: 0 to 3048 meters (0 to 10,000 feet)







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 - Medical electrical equipment—Part 1: General requirements for basic safety and essential performance. CAN/CSA C22.2 NO. 60601-108 (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. IMPORTANT When running the Transport III unit at 50Hz, expect approximately 17% less vacuum and pressure volume due to slower turning of the compressor.

NOTE

With regard to setting the handpieces pressure, 'kgcm2' and 'bar' are equivalent.

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.

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.

REPAIRS

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

Notes	

For Further Service And/Or Technical Assistance Contact:



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