

CE 0086



Evenflo Company, Inc.
Piqua, Ohio 45356
USA



AMEDA PLATINUM BREAST PUMP
CLASSIFIED WITH RESPECT TO ELECTRICAL SHOCK, FIRE
AND MECHANICAL HAZARDS ONLY IN ACCORDANCE WITH
UL60601-1 AND CAN/CSA C22.2 NO. 601.1 <38KE>



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Ameda® Service Manual



Ameda Platinum® Breast Pump

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I. General

IMPORTANT SAFEGUARDS

When using electrical products, especially if children are present, the following basic safety precautions should always be maintained.

READ ALL INSTRUCTIONS BEFORE USING

Danger: To reduce the risk of electrocution:

- Always unplug electrical devices immediately after use.
- Do not use while bathing, showering or swimming.
- Do not place or store where product can fall or be pulled into bathtub, sink or pool.
- Do not place or drop product into water or other liquid.
- Do not reach for electrical product that has fallen into water. Unplug from wall outlet immediately.

Warning: To reduce the risk of burns, electrocution, fire, or injury to persons:

- Never leave product unattended when plugged into electrical outlet.
- Close supervision is necessary when product is used near children or invalids.
- Use product only for intended use as described in this manual.
- Do not use attachments or other milk collection kits other than those recommended by manufacturer.
- Never operate if product has damaged cord or plug, is not working properly, or has been dropped, damaged, or becomes wet.
- Keep cord and all attachments away from heated surfaces.
- Never use while sleeping or drowsy.
- Do not use outdoors with cord.
- Do not operate where aerosol spray products are being used or oxygen is being administered.

Caution: To reduce the risk of fire or chemical burn:

- Do not disassemble or heat above 100°C (212°F).

SAVE THESE INSTRUCTIONS

Intended Use

The Ameda Platinum Breast Pump is intended to express and collect milk from the mother's breast to alleviate engorgement of the breast, maintain the ability of lactation, and provide mother's milk for future feedings when separation of mother and baby occurs.

Before Each Use

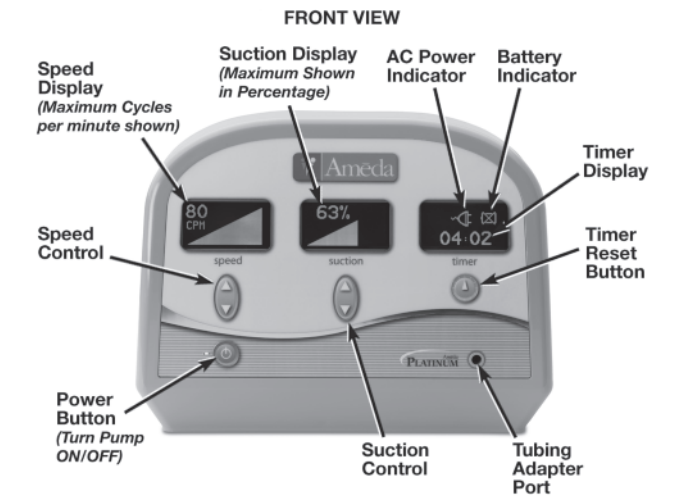
Always wash hands well with soap and water before handling Ameda Platinum Breast Pump, Ameda HygieniKit® Milk Collection System, or other attachments.

Introduction

The Ameda Platinum Breast Pump is an electrically-powered vacuum device intended to express milk from the breast of a nursing woman using the Ameda HygieniKit® Milk Collection System. The vacuum profile of the Ameda Platinum Breast Pump is patterned after the sinusoidal waveform of the Ameda SMB™ Breast Pump, and implemented using a motor-driven, piston pump mechanism that is under microprocessor-based control. The electrical hardware/software architecture enables the end-user to set cycle speed, labeled "speed", and vacuum level, labeled "suction", from independent front panel controls, in order to produce the necessary changes in vacuum output. Incorporating a vacuum sensor and proportional valve inside a closed-loop control scheme improves pump performance over previous pump designs in both single and double pumping modes under varying ambient barometric conditions. Graphical displays help the user to visualize pumping parameters and make repeatable adjustments. The differentiating feature of an elapsed session timer display and its control are intended to facilitate a mother following a pumping protocol.

Operation

In response to evidence-based research on baby suckling patterns, the cycle speed range offering has been expanded from 30-60 cycles per minute (cpm), established with the Elite, to 30-80 cpm. The vacuum range is approximately 30-250mmHg.



Pump Start Up

When pump is plugged in, a green light will appear next to the Power button. Press the power button to turn ON. The unit starts at lowest suction level (1% or approximately 30mmHg/4.0kPa) and maximum speed (80cpm). User may adjust the cycle speed and suction level after start up. Pressing the power button again will place the unit in standby mode.

Suction Control

The suction front panel controls are independent of the cycle speed controls. Step changes over the range of 1-100% (approximately 30mmHg to 250mmHg/4.0kPa to 33.3kPa), are made possible using up and down membrane switches. A single push-and-release results in a 1% change. A push and hold results in 10% change.

Suction Display

A graphical liquid crystal display (LCD) is positioned above the suction controls, providing the user with information in 2 formats. A bar graph, representing 1 -100% of the available 30-250mmHg range from left to right, changes in response to use of the membrane switches. A numerical display of this percentage facilitates observing the suction setting for future pumping sessions and/or communication to a healthcare provider. The table below illustrates part of the translation from actual vacuum output to what will be displayed on the front panel. The translation is calculated as follows: $[(\text{Actual vacuum} - 30) / 220] \times 100 = \text{Display}$.

Note: The Ameda Platinum breast pump automatically calibrates at start-up. No additional calibration is required.

Display (%)	Vacuum (mmHg)
1	30 ± 8.1
32	100 ± 9.6
57	155 ± 10.6
77	200 ± 11.7
100	250 ± 12.7

Cycle Speed Control

The pump starts at fastest cycle speed (80 cpm). The cycle speed front panel controls are independent of the suction level controls. Step changes in cycles per minute, over the range of 30 – 80 cpm, are made possible with up and down membrane switches. A single button push-and-release results in a target 1 cpm change. A button push-and-hold results in steps of target 10 cpm change.

Cycle Speed Display

The pump starts at fastest cycle rate (80 cpm). A graphical LCD is positioned above the cycle speed controls, providing the user with information in two formats. A bar graph, representing 30-80 cpm range from left to right, changes in response to the use of up and down membrane switches below the LCD. A numerical display of actual cycle speed facilitates observing the cycle speed setting for future pumping sessions and/or communication to a healthcare provider.

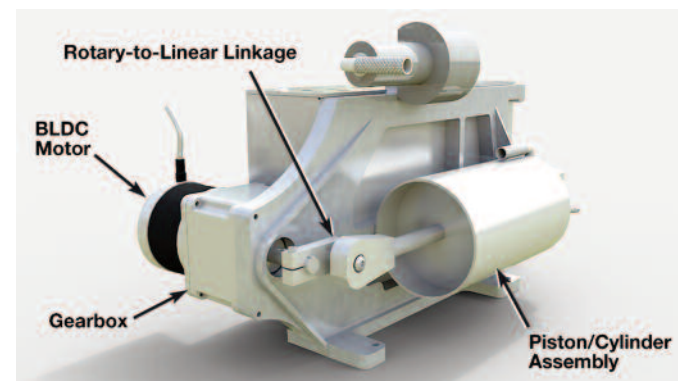
Elapsed Timer

A timer in a digital clock format is available to facilitate a mother following a pumping protocol by indicating the amount of time elapsed during the current pumping session. The user will turn ON the pump with the Power button control. Pumping will start immediately at the default settings of 30mmHg and 80 cpm and the elapsed timer will begin counting up starting from 00:00 (minutes:seconds). The user has the option of using the Timer Reset button to zero the session timer.

After the session timer reaches 60:00, pump suction and cycle speed are reduced to 0mmHg and 0 cpm respectively, and the pump enters standby mode. This standby feature mitigates unattended operation.

2. Functions description

Rotary-to-Linear Actuator



A rotary-to-linear actuator comprises a 24VDC BrushLess DC (BLDC) motor, gearbox and a rotary-to-linear shaft linkage. The BLDC motor shaft rotational speed is reduced by the gearbox at its output. The gearbox shaft is connected through a rotary-to-linear linkage to a piston within the vacuum cylinder. As the name implies, this linkage translates rotary motion to linear motion. The piston/cylinder assembly is identical to that for the linear actuator. Under hardware/software control, the rotary-to-linear actuator moves the piston with a fixed stroke length and adjustable cycle speed toward the motor to increase vacuum and away from the motor to reduce vacuum at the cylinder output port.

Vacuum Control with Rotary-to-Linear Actuator

Closed-loop control of vacuum output under varying barometric pressure is implemented with a proportional valve and a vacuum transducer. A stepper motor based proportional valve is used to precisely open the vacuum system to ambient air, thereby reducing vacuum by varying amounts as necessary. A differential transducer is used to monitor gauge vacuum relative to ambient barometric pressure and provide feedback to the microcontroller.

3. Technical Data

Protection Class I, Type B

Power Cord:

Use only Ameda supplied power cord
For North America, use Ameda 24502059
Minimum Voltage Rating: 125V
Minimum Current Rating: 10A
Plug Type: IEC 60320 C13 (Hospital Grade)
Maximum Length: 10 feet (3.05m)
Cord Type: 3x18AWG, rated VW-1, 105C
Jacket Type: SJT or SJTW
Certification: UL Listed (ELBZ)

Suction:

Shown in percentage of full scale suction 1%-100%;
(approximately 30mmHg to 250mmHg/4.0kPa to 33.3kPa)

Speed:

30 to 80 cycles per minute (cpm)

Power Supply:

Operating Input Voltage 100 VAC to 240 VAC
Operating Frequency 50/60Hz
Input Power 80VA
Fuse Rating Quick Acting (F), 2.5A, 250V, 5 x 20mm

Operation:

Continuous
ISO 10079-1, Intermittent Suction, Medium Vacuum

Suction:

Shown in percentage of full scale 1%-100% (approximately 30mmHg to 250mmHg/4.0kPa to 33.3kPa)

Speed:

30 to 80 cycles per minute

Operational Conditions: Pump

Temperature +50°F (+10°C) to +104°F (+40°C)
Relative Humidity 20% to 80%
Atmospheric Pressure 0.82atm (83.1kPa) to 1.05atm (106.4kPa)

Transport and Storage Conditions: Pump

Temperature -10°F (-23°C) to +120°F (+49°C)
Relative Humidity 20% to 95%
Atmospheric Pressure 0.82atm (83.1kPa) to 1.05atm (106.4kPa)










Weight:

Approximately 9.75 lbs. (approximately 4.42 kg)

Dimensions:

Length - 9.75 in. (24.7 cm)
Width - 10.5 in. (24.7 cm)
Height - 8.0 in. (20.3 cm)

4. Icon Glossary

-  Type B Applied Part
-  Connected to Wall Outlet
-  Rechargeable Battery Pack Not Installed
-  % of Full Scale Suction 1%-100%;
(approximately 30mmHg to 250mmHg/
4.0kPa to 33.3kPa)
-  Cycles Per Minute (30-80 cpm)
-  Timer Display
-  Attention: Consult Accompanying Documents
-  Fuse
-  Liquid ingress classification

CLASSIFIED
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HAZARDS ONLY IN ACCORDANCE WITH
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CE 0086 Medical Device Directive

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Standards:

UL60601-1
CAN/CSA 22.2 No. 601.1
IEC60601-1
EN60601-1-2
The Ameda Platinum Breast Pump complies with EN60601-1-2. It is suitable for use in healthcare facilities and domestic establishments. It is unlikely to interfere with other electrical equipment.

CE0086 Medical Device Directive

Product Disposal

This product contains electrical and electronic equipment.

- As with other electrical equipment, the internal components of this product may contain hazardous materials. To avoid potential contamination of the environment, it is important that you dispose of this product according to local or regional waste administration systems and regulations.
- Do not dispose of as unsorted municipal waste.
- The crossed-out wheeled bin symbol shown indicates separate collection for electrical and electronic equipment.
- You may contact us for further information regarding the environmental performance of this product.

5. Maintenance

It is recommended the Ameda Platinum Breast Pump be inspected at least once every year to include the following:

- Visually check pump housing for cracks, breakage, or damage and ensure Pump Feet are present.
- Visually check for power cord damage.
- Check for proper operation of controls and buttons.
- Check there are no missing screws.

- Check cover is present on Service Port Door.
- Check Tubing Adapter Port is free from obstruction.

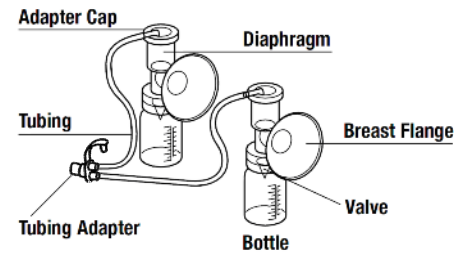
6. Cleaning and Disinfection

At-Home/End-Users

- Wipe Ameda Platinum Breast Pump with clean, damp cloth.

Hospitals/Rental Stations

- Wearing disposable gloves, wipe Ameda Platinum Breast Pump



Typical Ameda® HygieniKit® Milk Collection System

Fault	Indication		Action
No Display on Front Panel	Pump turns on	No	See "Pump Does Not Start" in this table.
		Yes	1) Check J2 ribbon connector on the Front Panel Assembly (FPA). If ribbon cable is not seated, see Section 10 for FPA removal. Carefully unlock J2 on the FPA board. Properly seat ribbon cable. Lock the J2 connector by applying equal downward pressure to each side of the connector. 2) If problem is not resolved, replace the FPA per Section 10.
Bad Display on Front Panel	LCD display is illegible or	Yes	1) Check J2 and J6 ribbon cable connection for proper seating. If not seated, see Section 10 for FPA removal. Carefully unlock J2 and/or J6 on the FPA board. Properly seat ribbon cable. Lock the J2 and J6 connector by applying equal downward pressure to each side of the connector. 2) If problem is not resolved, replace the FPA per Section 10.
Pump Does for Not Start is Lit	Green LED	No	1) Check the AC power cord. Ensure use of the proper cord via the appropriate part number. See the IPB list appropriate number. 2) Check fuses on the back panel. Remove the power cord from the back panel. Slide the fuse drawer outward. Replace fuses with appropriately rated new fuses. See the IPB list for appropriate rating. 3) Check J2 and J6 ribbon cable connection for proper seating. If not seated, see Section 10 for FPA removal. Carefully unlock J2 and/or J6 on the Front Panel Assembly board. Properly seat ribbon cable. Lock the J2 and J6 connector by applying equal downward pressure to each side of the connector. 4) Check TP VIN and GND for 26 ±2vdc. Test points are located on the upper middle and corner of the FPA board. If voltage is not present, replace the Power Supply PCA per Section 13.
		Yes	1) If the Front Panel Display indicates Service Required, see 'Service Required' in this table. 2) If the FPA panel indicates Check Kit, see 'Check Kit' in this table. 3) If the FPA panel does indicate a fault message, replace the FPA per Section 10.
Check Kit on Front Panel Display	Check Kit	No	1) Remove the top housing per Section 11. Press and hold the suction up button to increase the suction to 100% while viewing the proportional valve. If the proportional valve does not move, replace the Proportional Valve Assembly per Section 16. 2) If the valve moves, check condition of tubing between the FPA and cylinder assembly. If tubing is not damaged or pinched, replace the FPA per Section 10.
		Yes	1) Ensure Ameda HygieniKit Milk Collection System is properly connected to the vacuum port of the pump. The Milk Collection System must include all necessary components. Refer to the instructions for use for the Ameda HygieniKit Milk Collection System. 2) Check tubing between the FPA and cylinder assembly. Remove the FPA per Section 10. Ensure tubing is not pinched or damaged. 3) Unplug AC power cord from the unit. Remove the top housing per Section 11. Reconnect the AC power cord. Listen for initialization of the proportional valve. During initialization the proportional valve stepper motor should emit a buzzing sound while moving in and out of home position. Initialization should occur for approximately 6 seconds. If valve does not move, check J5 connector for proper seating. If J5 is properly connected, replace the proportional valve assembly per Section 16. 4) If steps above have not resolved the problem, replace the FPA per Section 10.
Service Required on Front Panel Display	Message appears upon power up	Yes	1) Disconnect AC power cord. Wait 5 seconds and reconnect AC power cord. If message appears within 5 seconds, check J5 connector on the FPA. 2) Disconnect the linkage from the cylinder assembly per Section 14. Remove the motor/gear assembly per Section 15. Operate the piston action by hand. If piston moves freely, replace the motor/gear assembly per Section 15. If piston does not move freely, replace the cylinder assembly per Section 14.
	Message appears after pump starts	Yes	Check J7 and J9 connectors on the FPA. If connectors are seated properly, replace the motor/gear assembly per Section 15.
	Message appears Intermittently	Yes	Operate the pump at maximum settings for 45 minutes. Turn unit off. Wait 10 seconds and turn on. Press and hold the suction increase button to obtain maximum suction (100%). Observe and listen for piston stall. If pump stalls, replace cylinder assembly per Section 17.

7. Troubleshooting Guide

It is very important to use a new dual configured Ameda® HygieniKit® Milk Collection System while testing. Each flange should be blocked with a No. 5 stopper during testing. Ensure all connections, diaphragms, adapter caps seals, and valves are properly seated to prevent false pump failure indications. See the Ameda® HygieniKit® Milk Collection System instructions for use for connection details.

8. How to replace the fuse:

- Be sure that the power plug is disconnected from the electrical outlet.
- Disconnect power cordset from the pump.
- Press the retaining clip to release the lower fuse panel from the power inlet.
- Pull out panel until fuses are accessible.
- Lift damaged fuse from holder.
- Replace with type and rating of specified fuse.
- Push fuse panel into power inlet to complete replacement.

9. How to replace the detachable power cordset:

- The power cordset is detachable from the power inlet.
- If the condition of the power cordset is in doubt, replace with the required 3-conductor cordset equipped with a protective ground conductor.

10. How to replace the Front Panel Assembly (24502350)

Step 1.

Remove the Top Housing (24110061) (See Figure 1):

Using a 4mm hex wrench, remove four Button Head Socket Screws 10-32 x .625 (30200036) at top of pump, two Button Head Socket Screws 10-32 x .625 (30200036) at the bottom of pump, and three Button Head Socket Screws 10-32 x .625 (30200036) at the rear of the pump. Lift the top housing (24110061) off the unit.

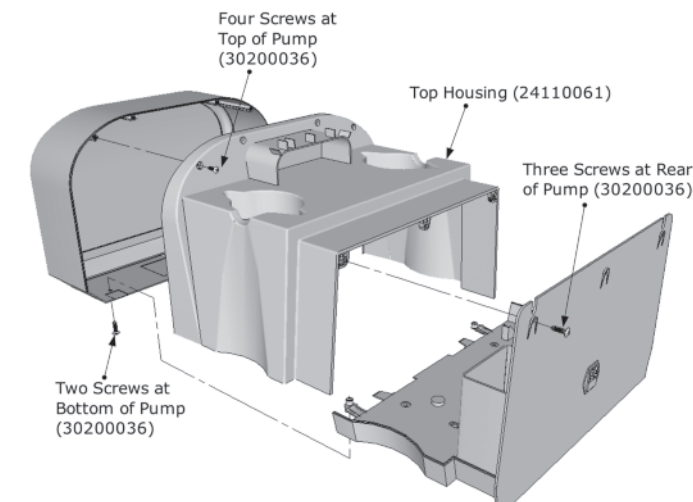


Figure 1.

Step 2.

Remove the Front Panel Assembly (See Figure 2):

Disconnect the five connectors from the control board. Slide the front panel forward while lifting the locking tabs at the base of the unit. Disconnect the vacuum tube from the cylinder assembly.

Step 3.

Replace the Front Panel Assembly (24502350) (See Figure 2)

by sliding the front panel toward the rear of the unit. Take care to align locking tabs at the base of the unit. Before locking the panel into position, connect the vacuum tube to the cylinder assembly. Continue sliding the front panel toward the rear of the unit until the locking tabs snap into place. Reconnect the five connectors on the control board. Replace the top housing. Replace four screws at top of pump, three screws at the back, and two screws at the bottom of pump. Torque screws to 8 in-lb.

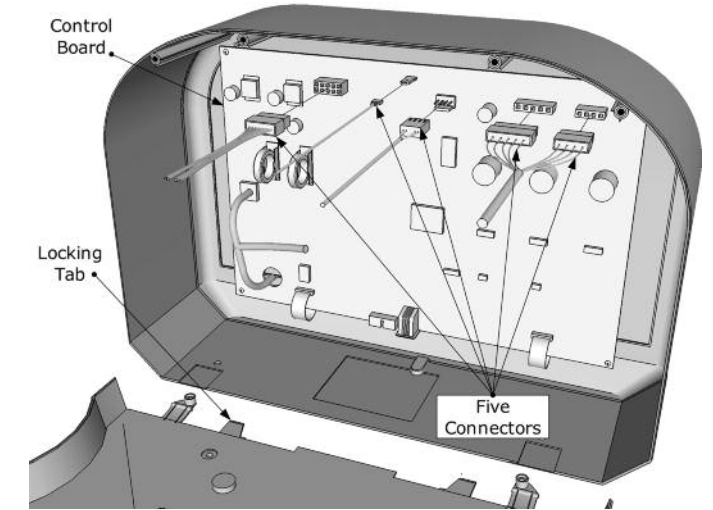


Figure 2.

11. How to replace the Top Housing (24110061)

See Figure 1. Using a 4mm hex wrench, remove four Button Head Socket Screws 10-32 x .625 (30200036) at top of pump two Button Head Socket Screws 10-32 x .625 (30200036) at the bottom of pump, and three Button Head Socket Screws 10-32 x .625 (30200036) at the rear of the pump. Lift the top housing (24110061) off the unit. Replace the top housing (24110061). Replace four screws at top of pump, three screws at the back, and two screws at the bottom of pump. Torque screws to 8 in-lb.

12. How to replace the Rear Housing Assembly (24502349)

Step 1.

Remove the Top Housing (24110061) (See Figure 1):

Using a 4mm hex wrench, remove four Button Head Socket Screws 10-32 x .625 (30200036) at top of pump two Button Head Socket Screws 10-32 x .625 (30200036) at the bottom of pump, and three Button Head Socket Screws 10-32 x .625 (30200036) at the rear of the pump. Lift the top housing (24110061) off the unit.

Step 2.

Remove the Front Panel Assembly (See Figure 2):

Disconnect the five connectors from the control board. Slide the front panel forward while lifting the locking tabs at the base of the unit. Disconnect the vacuum tube from the cylinder assembly. Remove and retain the Front Panel Assembly.

Step 3.

Remove the Pump/Frame Assembly (See Figure 3):

Using a 5/32" hex wrench, remove and retain four Button Head Socket Screws 8-32 x 5/16 (30200035) and four External Tooth Lock

Washer #8 (30300003) from the bottom of the pump. Disconnect the three terminal connectors on the back of the AC power connector on the back panel. Slide the pump/frame assembly forward and out of the housing. Ensure the Vibration Dampening Mount (10110005) stay firmly attached to the frame with Pan Head Cap Screws 8-32 x 3/8 LG (30500043). Remove and retain the pump/frame assembly.

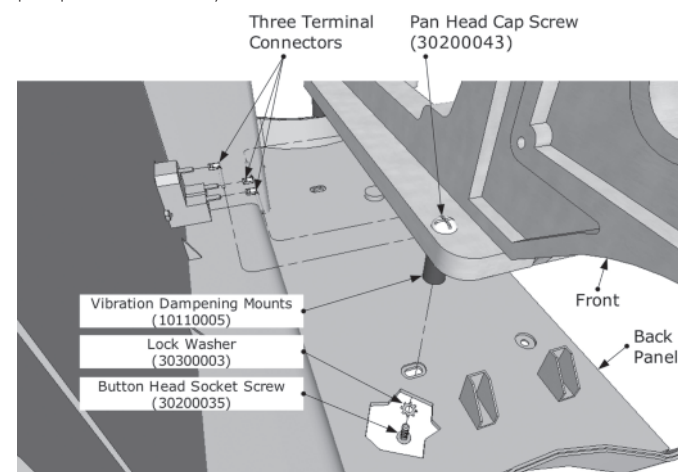


Figure 3.

Step 4.
Replace the Rear Housing Assembly (24502349)
(See Figure 3).

Slide the pump/frame assembly into the new rear housing and align the holes in the Vibration Dampening Mount (10110005) with the holes in the base of the rear housing assembly. Attach the three terminal connectors on the back of the AC power connector on the back panel. Using a 5/32" hex wrench, attach the four Button Head Socket Screws 8-32 x 5/16 (30200035) and four External Tooth Lock Washer #8 (30300003) through the base of the rear housing assembly and into the bottom of the pump/frame assembly Vibration Dampening Mounts (10110005). Tighten screws to 8 in-lb.

Step 5.
Replace the Front Panel Assembly (24502350)
(See Figure 2).

Slide the front panel toward the rear of the unit. Take care to align locking tabs at the base of the unit. Before locking the panel into position, connect the vacuum tube to the cylinder assembly. Continue sliding the front panel toward the rear of the unit until the locking tabs snap into place. Reconnect the five connectors on the control board.

Step 6.
Replace the Top Housing (See Figure 1).

Replace four screws at top of pump, three screws at the back, and two screws at the bottom of pump. Torque screws to 8 in-lb.

13. How to replace the Power Supply PCB (61450050)

Step 1.
Remove the Top Housing (24110061) (See Figure 1):

Using a 4mm hex wrench, remove four Button Head Socket Screws 10-32 x .625 (30200036) at top of pump two Button Head Socket Screws 10-32 x .625 (30200036) at the bottom of pump, and three Button Head Socket Screws 10-32 x .625 (30200036) at the rear of the pump. Lift the top housing (24110061) off the unit.

Step 2.
Remove the Front Panel Assembly (See Figure 2):

Disconnect the five connectors from the control board. Slide the front panel forward while lifting the locking tabs at the base of the unit. Disconnect the vacuum tube from the cylinder assembly. Remove and retain the Front Panel Assembly.

Step 3.
Remove the Pump/Frame Assembly (See Figure 3):

Using a 5/32" hex wrench, remove and retain four Button Head Socket Screws 8-32 x 5/16 (30200035) and four External Tooth Lock Washer #8 (30300003) from the bottom of the pump. Disconnect the three terminal connectors on the back of the AC power connector on the back panel. Slide the pump/frame assembly forward and out of the housing. Ensure the Vibration Dampening Mount (10110005) stay firmly attached to the frame with Pan Head Cap Screws 8-32 x 3/8 LG (30500043). Remove and retain the pump/frame assembly.

Step 4.
Remove and replace the Power Supply (See Figure 4).

Disconnect the power module connector from the top of the power supply. Using a Phillips screwdriver, remove the two Button Head Socket Cap Screws 4-40 X 1/4 (30200046) from the top of the power supply housing. Slide the power supply housing cover upward so that the cover tabs are free from the power supply housing. Carefully slide the inlet cable grommet from the housing cover. Continue moving the cover away from the housing to expose the power supply PCB. Unplug connector J2 from the PCB. Using a #1 Phillips screwdriver, remove and retain the five Pan Head Phillips Self Locking Screws 4-40 X 3/16 (30200038) that secure the power supply PCB.

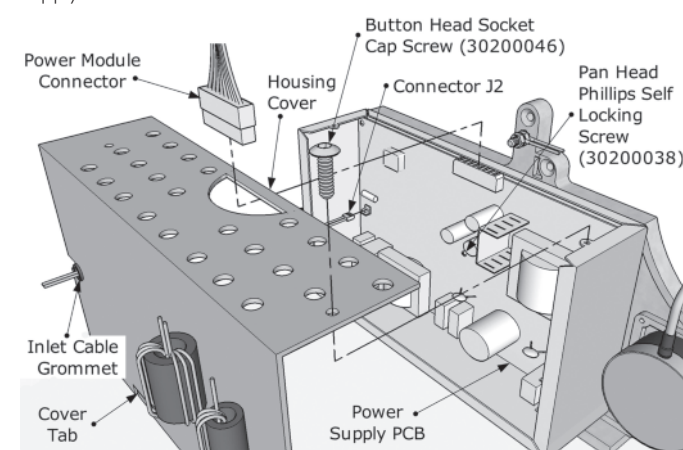


Figure 4.

Step 5.
Mount the new Power Supply PCB (61450050)

(See Figure 4) using the Pan Head Phillips Self Locking Screws 4-40 X 3/16 (30200038). Torque to 8 in-lb. Attach the cable to J2. Carefully slide the power supply housing cover into place while sliding the grommet into the cover slot. Ensure that the cover tabs slide into the housing. Secure the power supply cover using two Button Head Socket Cap Screws 4-40 X 1/4 (30200046). Torque to 8 in-lb. Connect the power module connector to the top of the power supply. Secure the motor wiring harness with a tie wrap.

Step 6.
Slide the Pump/Frame Assembly into the rear housing and align the holes in the Vibration Dampening Mount (10110005) (See Figure 3) with the holes in the base of the rear housing assembly. Reattach the three terminal connectors from the power supply and earth ground onto the back of the AC power connector on the back panel. Using a 5/32" hex wrench, attach the four Button Head Socket Screws 8-32 x 5/16 (30200035) and four External Tooth Lock Washer #8 (30300003) through the base of the rear housing assembly and into the bottom of the pump assembly Vibration Dampening Mounts (10110005). Tighten screws to 8 in-lb.

Step 7.
Replace the Front Panel Assembly (24502350)
(See Figure 2) by sliding the front panel toward the rear of the unit.

Take care to align locking tabs at the base of the unit. Before locking the panel into position, connect the vacuum tube to the cylinder assembly. Continue sliding the front panel toward the rear of the unit until the locking tabs snap into place. Reconnect the five connectors on the control board.

Step 8.
Replace the Top Housing (See Figure 1):

Replace four screws at top of pump, three screws at the back, and two screws at the bottom of pump. Torque screws to 8 in-lb.

14. How to replace the Cylinder Assembly (24502352).

Step 1.
Remove the Top Housing (24110061)
(See Figure 1):

Using a 4mm hex wrench, remove four Button Head Socket Screws 10-32 x .625 (30200036) at top of pump two Button Head Socket Screws 10-32 x .625 (30200036) at the bottom of pump, and three Button Head Socket Screws 10-32 x .625 (30200036) at the rear of the pump. Lift the top housing off the unit.

Step 2.
Remove the Front Panel Assembly (See Figure 2):

Disconnect the five connectors from the control board. Slide the front panel forward while lifting the locking tabs at the base of the unit. Disconnect the vacuum tube from the cylinder assembly. Remove and retain the Front Panel Assembly.

Step 3.
Remove the Cylinder Assembly (See Figure 5):

Loosen the Set Screw 8-32 x 1/4 (30200040) on the cylinder mounting pin. Remove the Button Head Socket Cap Screw 5-32 x 5/16 (30200037) from the motor link shaft (20300021). Slide the cylinder assembly away from the frame using equal pressure on both ends of the cylinder assembly. Slide the high pressure clear High Pressure Clear Tygon Tubing 5 3/4 ± 1/4" (24110065) from fitting barb at the top of the cylinder assembly. Remove and retain the two plastic flat washers 0.39" ID 0.875" OD (30300009), mounting pin (30500033), and PTFE sleeve bearing 3/8 ID, 5/8 OD, 3/4 L (24300007).

Step 4.
Replace the Cylinder Assembly (24502352)
(See Figure 5) with new one. Slide the High Pressure Clear Tygon Tubing 5 3/4 ± 1/4" (24110065) onto the fitting barb on the top of the cylinder. Assemble the PTFE sleeve bearing 3/8 ID, 5/8 OD, 3/4 L (24300007) into the cylinder. Assemble one plastic flat washer 0.39"

ID 0.875" OD (30300009) onto the mounting pin and slide the pin through the cylinder and PTFE sleeve bearing. Replace the second plastic flat washer 0.39" ID 0.875" OD (30300009) onto the backside of the mounting pin (30500033). Align the cylinder mounting pin with the frame while aligning the swing cylinder rod end onto the motor link shaft (20300021). Fully seat the rear of the cylinder assembly onto frame and tighten the set screw to 8 in-lb. Install the button head socket cap screw into the motor link shaft and torque to 8 in-lb.

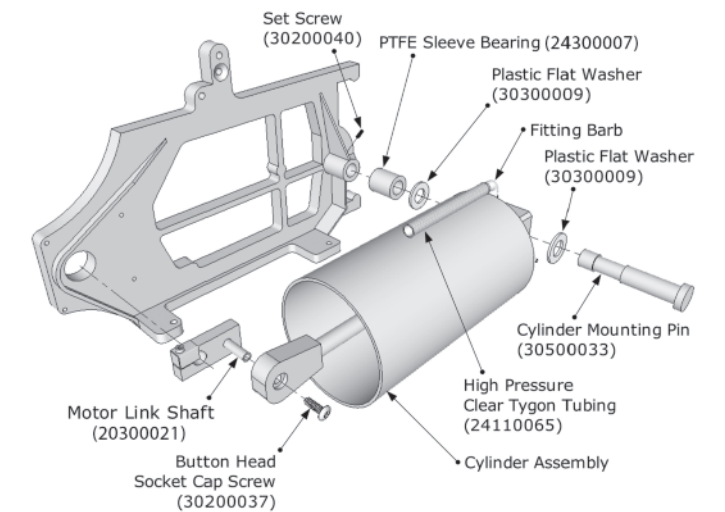


Figure 5.

Step 5.
Replace the Front Panel Assembly (24502350)
(See Figure 2) by sliding the front panel toward the rear of the unit. Take care to align locking tabs at the base of the unit. Before locking the panel into position, connect the vacuum tube to the cylinder assembly. Continue sliding the front panel toward the rear of the unit until the locking tabs snap into place. Reconnect the five connectors on the control board.

Step 6.
Replace the Top Housing (See Figure 1).

Replace four screws at top of pump, three screws at the back, and two screws at the bottom of pump. Torque screws to 8 in-lb.

15. How to replace the Motor/Gear Assembly (61450049).

Step 1.
Remove the Top Housing (24110061) (See Figure 1):
Using a 4mm hex wrench, remove four Button Head Socket Screws 10-32 x .625 (30200036) at top of pump two Button Head Socket Screws 10-32 x .625 (30200036) at the bottom of pump, and three Button Head Socket Screws 10-32 x .625 (30200036) at the rear of the pump. Lift the top housing off the unit.

Step 2.
Remove the Front Panel Assembly (See Figure 2):
Disconnect the five connectors from the control board. Slide the front panel forward while lifting the locking tabs at the base of the unit. Disconnect the vacuum tube from the cylinder assembly. Remove and retain the Front Panel Assembly.

Step 3.
Remove the Pump/Frame Assembly (See Figure 3):

Using a 5/32" hex wrench, remove and retain four Button Head Socket Screws 8-32 x 5/16 (30200035) and four External Tooth Lock Washer #8 (30300003) from the bottom of the pump. Disconnect the three terminal connectors on the back of the AC power connector on the back panel. Slide the pump/frame assembly forward and out of the housing. Ensure the Vibration Dampening Mount (10110005) stay firmly attached to the frame with Pan Head Cap Screws 8-32 x 3/8 LG (30500043).

Step 4.
Remove and replace the Motor/Gear Assembly (See Figure 6).

Loosen the Socket Head Cap Screw 12-24 x 3/4 (30200045) on the motor link. Remove and retain the four Socket Head Cap Screws M4 x 20 (30200041) and four Lock Washers M4 (30300007) that hold the motor/gear box assembly to the frame. Slide the motor/gear box assembly out of the pump/frame assembly.

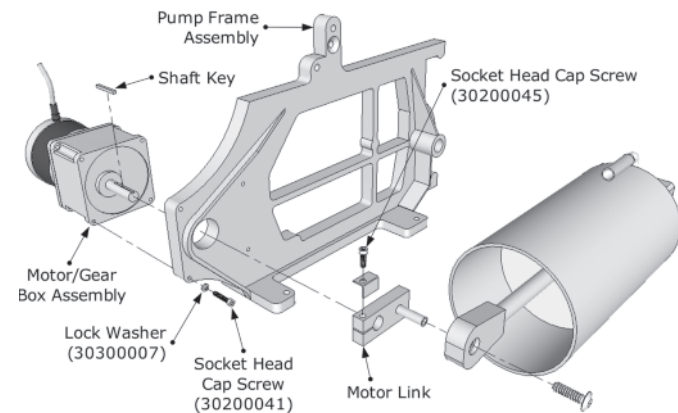


Figure 6.

Step 5.
Replace the Motor/Gear Box (61450049) (See Figure 6)

with new one. Mount the motor gear box onto the frame while sliding the motor/gear box shaft into the motor link. Be careful to properly align the shaft key into the motor link. The end of the shaft should be flush with the outer (pumpfront side) surface of the motor link. Reinstall the four Socket Head Cap Screws M4 x 20 (30200041) and four Lock Washers M4 (30300007) into the motor/gear assembly and tighten to 20 in-lb. Tighten the motor socket head cap screw in the motor link to 30 in-lb.

Step 6.
Slide the Pump/Frame Assembly into the Rear Housing and align the holes in the Vibration Dampening Mount (10110005) (See Figure 3)

with the holes in the base of the rear housing assembly. Attach the three terminal connectors on the back of the AC power connector on the back panel. Using a 5/32" hex wrench, attach the four Button Head Socket Screws 8-32 x 5/16 (30200035) and four External Tooth Lock Washer #8 (30300003) through the base of the rear housing assembly and into the bottom of the pump assembly Vibration Dampening Mounts (10110005). Tighten screws to 8 in-lb.

Step 7.
Replace the Front Panel Assembly (24502350) (See Figure 2)

by sliding the front panel toward the rear of the unit. Take care to align locking tabs at the base of the unit. Before locking the panel into position, connect the vacuum tube to the cylinder assembly. Continue sliding the front panel toward the rear of the unit

until the locking tabs snap into place. Reconnect the five connectors on the control board.

Step 8.
Replace the Top Housing (See Figure 1).

Replace four screws at top of pump, three screws at the back, and two screws at the bottom of pump. Torque screws to 8 in-lb.

16. How to replace the Proportional Valve Assembly (24502353).

Step 1.
Remove the Top Housing (24110061) (See Figure 1):

Using a 4mm hex wrench, remove four Button Head Socket Screws 10-32 x .625 (30200036) at top of pump two Button Head Socket Screws 10-32 x .625 (30200036) at the bottom of pump, and three Button Head Socket Screws 10-32 x .625 (30200036) at the rear of the pump. Lift the top housing off the unit.

Step 2.
Remove and replace the Proportional Valve Assembly (See Figure 7).

Slide the High Pressure Clear Tygon Tubing 5 3/4 ± 1/4" (24110065) from fitting barb at the top of the cylinder assembly. Remove and retain two Flat Head Socket Cap Screws 4-40 x 5/8 (30200042) from the proportional valve assembly.

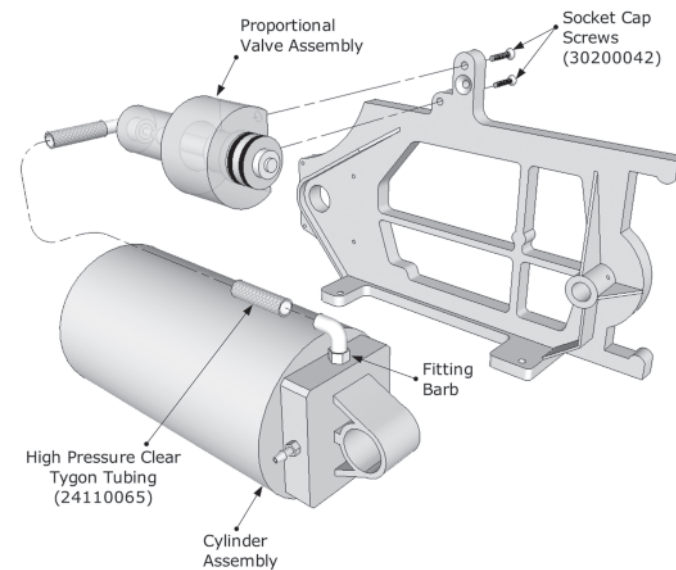


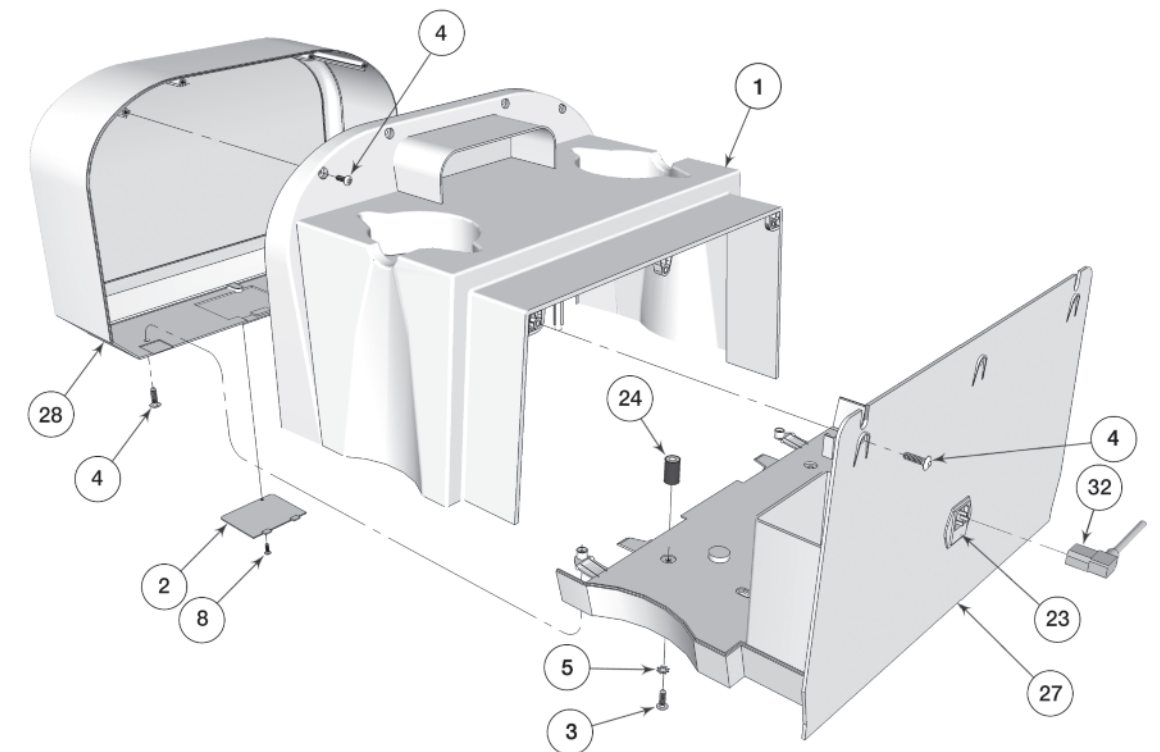
Figure 7.

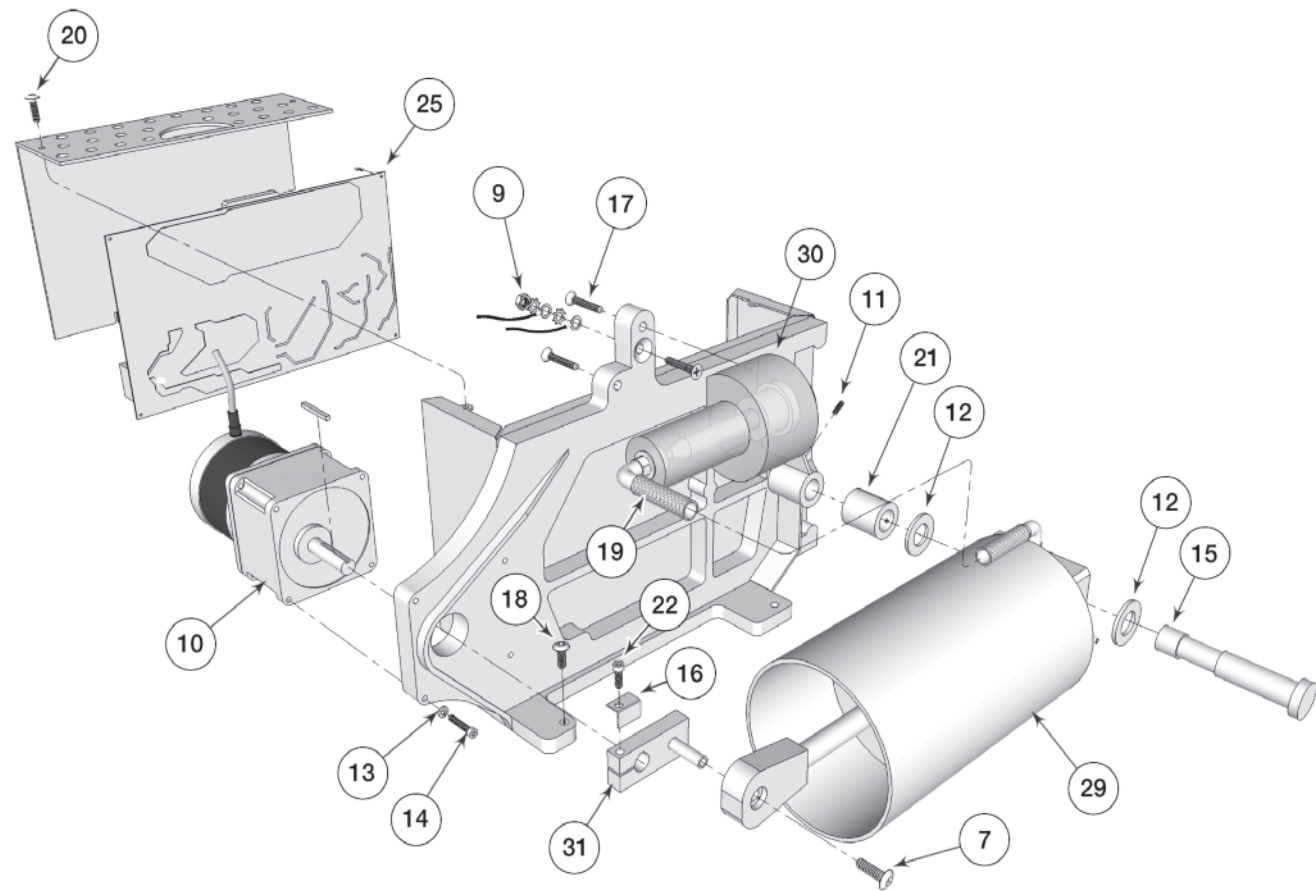
Step 3.
Replace the Proportional Valve Assembly (24502353) (See Figure 7).

Replace two Flat Head Socket Cap Screws 4-40 x 5/8 (30200042) and torque to 8 in-lb. Replace the front panel assembly (see Figure 1) by sliding the front panel toward the rear of the unit. Take care to align locking tabs at the base of the unit. Before locking the panel into position, connect the vacuum tube to the cylinder assembly. Continue sliding the front panel toward the rear of the unit until the locking tabs snap into place. Reconnect the five connectors on the control board. Replace the top housing. Replace four screws at top of pump, three screws at the back, and two screws at the bottom of pump. Torque screws to 8 in-lb.

17. IPB Parts list

Part Number	Description	Part Number	Description
1	24110061 Housing Top	21	24300007 PTFE Sleeve Bearing 3/8 ID, 5/8 OD 3/4 L
2	24110062 Door, Access, Bottom	22	30200045 Screw, SHC, #12-24 x 3/4" SS
3	30200035 Screw 8-32 x 5/16" SS	23	61450052 Fuse, 250v, 2.5A, 5 x 20mm, Fast Acting
4	30200036 Screw BHS 10-32 x 5/8" SS	24	10110005 Mount, Isolator, 5/8" OD x 1/2" L
5	30300003 Washer #8 Toothed SS	25	61450050 PCB Asm, Power Supply
6	24110063 Foot Plastic, Adh backed 5/8" Dia.	26	24101569 Tie, Wire, 165mm L
7	30200037 Screw BHS 8-32 x 5/16" SS	27	24502349 Housing Asm Lower Platinum
8	30200038 Screw Panhead #4-40 x 3/8" SS	28	24502350 Panel, Asm, Front, Platinum
9	30400005 Nut Hex #4-40 SS	29	24502352 Piston Cylinder Asm Platinum
10	61450049 Motor, Elec, W Gear Recover	30	24502353 Asm, Prop Valve/with Housing & Motor
11	30200040 Screw, Set #8-32	31	20300021 Motor Link Shaft
12	30300009 Washer, PTFE, 7/8OD x 3/8ID	32	24502059 Grounded Power Cord (North America)
13	30300007 Washer, Lock, 7.6mm OD x 4.4mm ID		24502148 Grounded Power Cord (EU). Not Shown
14	30200041 Screw SHC M4 x .7 x 20MM L, SS		24502201 Grounded Power Cord (Italy). Not Shown
15	30500033 Pin, Cyl, Mount, Custom		24502321 Grounded Power Cord (UK). Not Shown
16	20500063 Keeper, Motor Key, Custom		24502200 Grounded Power Cord (Switzerland). Not Shown
17	30200042 Screw, Flat-Head, #4-40 x 5/8" SS		24502149 Grounded Power Cord (AU). Not Shown
18	30500043 Screw Panhead 8-32 x 3/8" SS		
19	24110065 Tubing, Tygon, 1/4" ID x 7/16" OD x 5.75" L	33	25700417 Instructions For Use (English, French, Canadian and Spanish)
20	30200046 Screw BHS #4-40 x 3/8" SS		25700561 Instructions For Use (Multilingual)





34	25700418	Quick Reference Guide English
35	25700482	Quick Reference Guide Spanish
36	25700483	Quick Reference Guide French Canadian
37	30500021	Fstnr, Ring, Platinum

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18. Limited Warranty

The Ameda Platinum Electric Breast Pump ("Product") is warranted to the original user--whether institutional or individual ("First User")--only.

From the date of First User's purchase of this Product, Evenflo Company, Inc. ("Evenflo") warrants the Product to the First User against defects in material or workmanship for three years on the pump mechanism. Evenflo's sole obligation under this limited warranty shall be to repair or replace, at Evenflo's option, any Product that is determined to be defective by Evenflo and determined to be covered by this express limited warranty. Repair or replacement under this limited warranty is the sole and exclusive remedy of the First User. Proof of purchase in the form of a receipted invoice or bill of sale evidencing that the Product is within the warranty period must be presented to obtain warranty service. This limited warranty is extended by Evenflo ONLY to the First User and is not assignable or transferable. For warranty service contact Ameda at 1.866.AMEDA(26332).

EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS

Non-Applicability of Warranty

The above warranty shall not apply to consumable materials and attachment to the Product. These include:

- (i) the power cord; and
- (ii) the Ameda HygieniKit Milk Collection System (sold separately).

In addition to any other limitations on the warranty discussed above, the warranty shall expire and be of no force or effect upon the occurrence of any of the following:

- (i) the cause of damage to the Product is due to improper handling or use
- (ii) the Product is not properly maintained by the First User, as determined by Evenflo
- (iii) non-Ameda approved accessories or spare parts are used with the Product, as determined by Evenflo
- (iv) the Product is repaired by a non-approved Evenflo service provider

If any of the above occurs, Evenflo shall not be responsible for

damage to the Product, parts thereof or injuries arising therefrom, either directly or indirectly. The warranty set forth above replaces all prior warranties with respect to the purchased Product, whether in writing or otherwise. Outside the United States: Call your local distributor or location where you purchased the Product. For a listing of distributors in your country, please visit www.ameda.com.

Before the return of any pumps, you must obtain a Return Authorization Number:

Within Warranty:

In United States: 800-323-4060

Out of Warranty:

In United States: 800-323-4060

Rental Pumps:

In United States:

For Rental Station: 800-323-4060

For End-Users: Please contact your rental station.

In Canada: 800-263-7400

In Other Countries:

Call your local distributor or location you purchased pump. For listing of distributors in your country, please visit www.ameda.com.