

BULLETIN #B005B

HOW TO REMOVE THE UPPER HEAD FROM YOUR ATL-2000, 3000, and 2X00's

You will need:

- Standard blade screwdriver
- Phillips® #1 head screwdriver
- Pliers
- 3mm hex ball head driver or 3mm Allen key supplied with your processor (*JOB Part #16227*)
- For the ATL-2000 and 2X00's, the 4mm hex ball head driver or 4mm Allen key supplied with your processor (*JOB Part #16159*)
- For the ATL-2000, a 10mm nut driver
- Wrench or Channel Lock® Pliers
- Small wire cutters
- Petroleum jelly or better yet the *JOB Grease Syringe (JOB Part #95465)*
- Wire tie or Ty-wrap (*JOB Part #35015*) or equivalent

JOB spare parts you will need for this procedure are:

- Sealing Tape for the top of the electronics head (***JOB Part #70238***) [Call 800-664-0344 to order]

This bulletin has nine (9) parts:

- If you own an ATL-2000, direct your attention to parts #1, 2, 4, 8, and 11
- If you own an ATL-3000, direct your attention to parts # 1, 3, 4, 5, 6, 9, and 11
- If you own an ATL-2200, direct your attention to parts #1, 2, 4, 10, and 11
- If you own an ALT-2300, direct your attention to parts #1, 2, 4, 7, 10, and 11
- If you own an ATL-2400, direct your attention to parts #1, 2, 4, 7, 10, and 11
- If you own an ATL-2500, direct your attention to parts # 1, 2, 4, 7, 10, and 11

Procedure:

PART ONE

Part one applies to all processors.

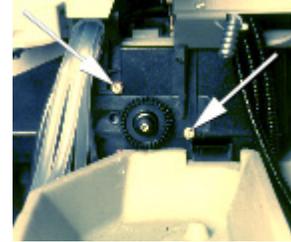
1. Disconnect the water inlet hose(s) from the solenoid valves located at the rear of the processor.

NOTE: Turn off your water supply before removing the hoses!

2. Raise the Lift Arm up at least half way by using the keypad on your processor.

3. **Disconnect the main power cord from the electrical outlet!**

4. Remove the two (2) large standard screws located on the left hand side and the right hand side of the main cog gear.



NOTE: There are a series of washers and O-rings located under the heads of the screws and/or behind the lift arm supports (the plastic piece behind the heads of the screws). Use caution when removing the screws so the O-rings will be become torn. Also use caution when removing the screws so you do not lose the O-rings or washers by dropping them into the bottom of the trough.

5. Remove the rear bottle cover and set aside.

6. Remove the front bottle cover and set it aside.

For ATL-2000:

A. Remove the front bottle cover by first removing the 4mm cap head screws located at the right side hinge point.

B. Slide the front bottle cover toward the right so you disengage the cover from the hinge pin (a holding-pin is protruding directly out of the right hand side of the front electronics head cover).

C. Remove the 3mm cap head screw and washer located near the left cover hinge.

For ATL-3000:

Remove the two white colored hinge pins, then remove the cover.

For ATL-2X00's:

Remove the front bottle cover by first removing five (5) #1 Phillips screws:

-- Three (3) screws located along the red colored metal strip below the lower edge of the front bottle cover.

-- Two (2) screws and two (2) washers located along the top edge of the front bottle cover.

-- Lift the front bottle cover upward and set aside.

7. Disconnect all of the chemical hoses at the gray tubes in the bottles.



NOTE: If you own an ATL-2300, 2400, 2500, or 3000, disconnect all of the chemical hoses from the front and rear chemical bottles.

WARNING! Carefully unlock the black plastic clamps. Using a needle nose pliers, grip and gently twist the outer locking clamp finger.

8. **For ATL-2000 and ATL-2200 only:** Disconnect all of the air lines from the bottles, keeping the black plastic 90° angle elbows attached to the hoses.



NOTE: If you own an ATL-2300, 2400, 2500, or 3000, there is no need to disconnect the air lines.

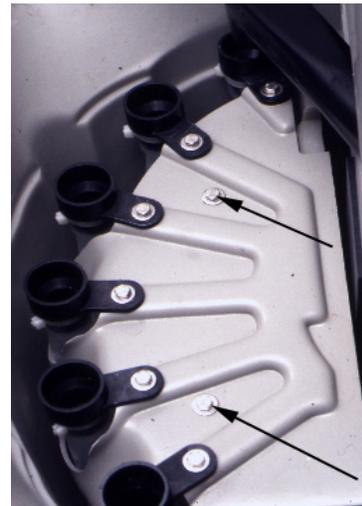
PART TWO

Part two explains how to remove the ATL-2000 and 2X00's chemical reclamation plate unit.

1. Lift off and remove the cover for the chemical reclamation area and set it aside.

2. Remove the screws that hold the reclamation plate in place.

NOTE: There may be some washers located below the plate where the screws are inserted as well as below the head of the screw.



3. Push the chemical drain arm all the way back and lift up on the chemical reclamation plate just enough to prop it on the chemical drain arm. This will give you access to the bracket discussed in Part 11.

PART THREE

Part three explains the removal of the gray cover (shroud) and the chemical reclamation unit on the ATL-3000.

1. Remove the large gray cover (shroud) by removing the six (6) screws located around the perimeter of the cover. Three (3) are located along the front, two (2) in the rear near the plumbing, and one (1) located on the right side near the lift arm. Lift the cover off, being careful not to drag any hoses or wiring.



2. There are two types of chemical reclamation units for the ATL-3000.
3. If you have a tabletop processor (model 4272) or are not reclaiming chemistry in the 15 liter bottles, hold the chemical drain arm all the way back and lift the hinged reclamation unit up and out. Remove the reclamation bottles.
4. If you have a floor standing processor (model 4270 or 4271) and are reclaiming chemistry in the 15 liter bottles, remove each hose in the sink area by pulling or lifting it off of its receptacle. Hold the chemical drain arm toward the rear of the processor and at the same time, remove the reclamation unit by sliding it or lifting it upward off of its mounting bracket.

PART FOUR

Part four explains how to remove the ATL-2000, 3000, and 2X00's front electronics head cover and how to disconnect the electronic cables.

1. Remove the four (4) Phillips® screws located on the front of the electronics head.

Please note the two upper screws are longer than the two lower screws.

2. Remove the gray colored sealing tape (*JOB0 Part #70238*) and remove the front cover of the electronics head.

WARNING! It is critical this tape is replaced before using your processor. If liquids are spilled on the top of the electronics head and the seal tape is not present, then severe damage to the electronic circuit boards will occur!



3. **IMPORTANT!** Label the location of the all wires plugged directly into the electronics head.
4. Disconnect all of the wires or cables from the front of the circuit boards. Some of the connectors are locking connectors and you must GENTLY press down on the release tabs.

The largest cable is a round gray cable on which you will find a black locking connector. It is located toward the bottom of the electronics and enters the lower motor unit. Find the black locking connector and pull the cable apart at the connector.

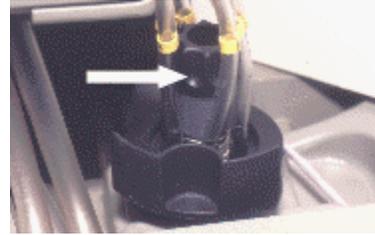
NOTE: This connection can be difficult to open! Do not use any tools to pry this connector apart!

PART FIVE

Part five explains the removal of the ATL-3000 front/back bottle air switch.

1. Located to the left of the #1 rear bottle, you will find the *front/back bottle air switch*. At the top of the front/back bottle air switch, you will see a large black thumb nut surrounded by 6 clear air hoses.

2. Disconnect the top half of the front/back bottle (air) switch by unscrewing the black thumb nut and lifting it upward to remove it.



NOTE1: The screw is approximately 1 1/2 inches long (so don't give up!).

NOTE2: A stainless steel washer is located inside of the top half of the front/back bottle (air) switch. *Be careful not to lose it!*

WARNING! Six (6) small rubber O-rings are located on the bottom of the top half of the front/back bottle (air) switch. *The stainless steel washer and rubber O-rings are critical to the operation of your processor! Use care when removing the top half of the switch by not scraping the O-rings loose while removing it. We suggest you remove the O-rings and put them in a safe place (The JOBO Part number for this O-ring is 34022).*



DO NOT remove the air hoses from the top half of the front/back bottle (air) switch!

NOTE3: When installing the top half of the front/back bottle (air) switch, lightly lubricate the O-rings to insure a good air seal. We recommend using our grease syringe (JOBO Part #95465).

PART SIX

**Part six explains how to remove
the front/back bottle air switch sensor in the ATL-3000**

1. Disconnect the sensor for the front/back bottle air switch from the lower half of the air switch assembly by removing the two (2) small standard screws that hold the sensor in position.

NOTE: Please note there is a small steel washer below the head of each screw. Make sure you do not lose the washers.

PART SEVEN

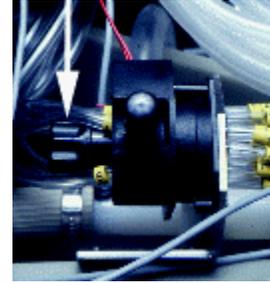
**Part seven explains the removal of the ATL-2300, 2400, and 2500
front/back bottle air switch.**

1. Located to the left of the #1 front bottle, you will find the *front/back bottle air switch*. On the left hand side of the front/back bottle air switch, you will see a large black thumb nut surrounded by 6 clear air hoses.

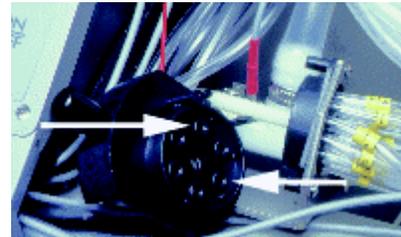
2. Disconnect the left half of the front/back bottle (air) switch by unscrewing the black thumb nut and sliding it leftward to remove.

NOTE1: The screw is approximately 1 1/2 inches long (so don't give up!).

NOTE2: A stainless steel washer is located inside of the left half of the front/back bottle (air) switch. *Be careful not to lose it!*



WARNING! Six (6) small rubber O-rings are located on the right side of the left half of the front/back bottle (air) switch. *The stainless steel washer and rubber O-rings are critical to the operation of your processor! Use care when removing the left half of the switch by not scraping the O-rings loose while removing it. We suggest you remove the O-rings and put them in a safe place (The JOBO Part number for this O-ring is 34022).*



DO NOT remove the air hoses from the left half of the front/back bottle (air) switch!

NOTE3: When installing the left half of the front/back bottle (air) switch, lightly lubricate the O-rings to insure a good air seal. We recommend using our grease syringe (*JOBO Part #95465*).

PART EIGHT

Part eight explains how to remove the rinse and fill water hoses on the ATL-2000

IMPORTANT! Label both rinse water hoses and the fill water hose as you disconnect them.

- 1.. Remove the two 4mm cap head screws from the motor unit mounting plates. They are located to the right and the left of the front portion of the motor unit.
2. Remove the 10mm locking nut from the rear of the processor. The nut is located above the trough drain outlet. This 10mm nut holds the back end of the motor unit to the trough.
3. Lift the front of the motor unit upward to access the bottom the motor unit.

IMPORTANT! Do not lift the motor unit by gripping the plastic trim at the front of the motor unit. It is fragile and is not a handle!

4. Locate the heat exchange coil. The heat exchange coil is a stainless steel coil and is mounted to the bottom of the motor unit and is connected to two black colored posts. The coils is tied to the posts using two pieces of wire.

5. Un-twist the two pieces of wire to free the coil.

6. Observe there is a hose connected to each end of the heat exchange coil. Each hose is held onto the coil with a plastic hose clamp.

OPERATIONAL POINT: The rinse water flows through the heat exchange coil to buffer the temperature of the rinse water as it flows through the lift arm and into the film tank.

7. Using some pliers, open the two plastic hose clamps to free the two rinse hoses from the coil.

NOTE: If you accidentally break the hose clamps, you may find a replacement at your local hardware store located in the plumbing section or you may order *JOBO Part #35047*. To order call 800-664-0344 to place your order.

8. Disconnect the cold water fill hose. The ATL-2000's cold water fill hose is attached to a nylon elbow (with a ty-wrap) and is fixed to the bottom of the lower motor unit. Reach under the lower motor unit and cut the ty-wrap, then gently pull the hose off of the elbow.

PART NINE

Part nine explains how to remove the rinse and fill water hoses on the ATL-3000

IMPORTANT! Label both rinse water hoses and the fill water hose as you disconnect them.

1. For ATL-3000 models (4270 and 4271) with the automatic refilling of the rear set of chemical bottles, disconnect the six (6) individual refill hoses connected to each bottle. The chemical refilling hoses are located directly next to the air lines for each bottle.

IMPORTANT! Do not pull the refilling hose **elbow** out of the bottle. It is very difficult to insert the elbow and refilling tube back into the bottle. Instead cut the ty-wrap and remove the hose from the elbow.

2. Remove all twelve (12) bottles from the trough.

3. Push the loose chemical refill hoses through the openings in the upper trough.

4. Remove the eight (8) 3mm cap head screws located around the perimeter of the upper trough. Three of the screws are located across the front, three across the back, and two remaining screws are along the right side.

5. Remove the upper trough by lifting the right side of it upwards approximately 4 inches then pull in a rightward movement.

6. Locate the heat exchange coil. The heat exchange coil is a copper coil sealed with a black rubber material. Observe there is a hose connected to each end of the heat exchange coil. Each hose is held onto the coil with a plastic hose clamp.

OPERATIONAL POINT: The rinse water flows through the heat exchange coil to buffer the temperature of the rinse water as it flows through the lift arm and into the film tank.

7. Your choice:

Remove the heat exchange coil by un-twisting the two wire pieces that hold the coil to the trough. Once the coil is free, lift it upwards out of the trough.

OR

Leave it in place and skip this step.

8. Using some pliers, open the two plastic hose clamps to free the two rinse hoses from the coil.

NOTE: If you accidentally break the hose clamps, you may find a replacement at your local hardware store located in the plumbing section or you may order *JOB*O Part #35047. To order call 800-664-0344 to place your order.

9. Disconnect both rinse water hoses from each end of the heat exchange coil by pulling the hoses off of the coil.

10. Disconnect the cold water fill hose. The ATL-3000's cold water fill hose is attached to a nylon elbow (with a ty-wrap) and is fixed to the bottom of the lower motor unit. Reach under the lower motor unit and cut the ty-wrap, then gently pull the hose off of the elbow.

NOTE: It may be necessary to lift the motor unit slightly to help you access the cold water filling elbow. To do so please do the following:

A. Remove the three 3mm cap head screws from the motor unit front mounting plate. They are located directly in front of the motor unit.

B. Remove the three 3mm cap head screws from the motor unit rear mounting plate. They are located directly in the back of the motor unit just below the air in-take fan.

PART TEN

Part ten explains how to remove the fill water hose on the ATL-2X00's

1. Observe the cold water fill hose. It is located on the right side of the motor unit toward the rear and is immediately to the right of the lift arm. The ribbed hose will either be black or gray colored and fixed with a ty-wrap.

2. Cut the ty-wrap to free the cold water fill hose.

WARNING! Use caution when cutting the ty-wrap. Make sure you do not cut the hose.

3. Located at the bottom of the hose, it makes a 90° angle bend. Grip the hose at the 90° angle bend and pull it out of the motor unit.

PART ELEVEN

Part eleven applies to all processors.

1. Located on the left side of the lower motor unit you will observe a bracket that wraps around the power cord and grips the motor unit. Pull the bracket away from the motor unit using your standard blade screwdriver to assist. Then lift the upper head upward and toward the right. Finally, rest it in the trough or set it upside-down on top of a flat stable surface.

