

BULLETIN #B005A

HOW TO REMOVE THE UPPER HEAD

FROM YOUR ATL-1,2,2+ or 3

You will need:

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

JOBO spare parts you will need for this procedure are:

- No spare parts are required

This bulletin has nine (9) parts:

- If you own an ATL-1, direct your attention to parts #1, 2, 8, and 11
- If you own an ATL-2, direct your attention to parts #1, 2, 5, 8, and 11
- If you own an ALT-2+, direct your attention to parts #1, 3, 5, 9, and 11
- If you own an ATL-3, direct your attention to parts #1, 4, 5, 6, 7, 10, and 11

Procedure:

PART ONE

Part one applies to all processors.

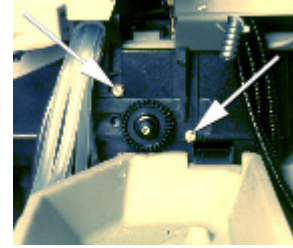
1. Disconnect the water inlet hose(s) from the solenoid valves located at the rear of the processor.

NOTE: Turn off your water supply before removing the hose(s)!

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 or just an O-ring (depending upon the age and ATL model) 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. Disconnect all of the chemical hoses at the gray tubes in the bottles.



NOTE: If you own an ATL-3 disconnect all of the chemical hoses from the front and rear chemical bottles.

6. 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-3 there is no need to disconnect the air lines.

PART TWO

Part two explains the removal of the ATL-1 and the ATL-2 chemical reclamation unit.

1. Remove the chemical reclamation unit by unscrewing the two thumb nuts located at the top of the reclaim unit. Slide the reclamation unit away from the processor and set it aside.

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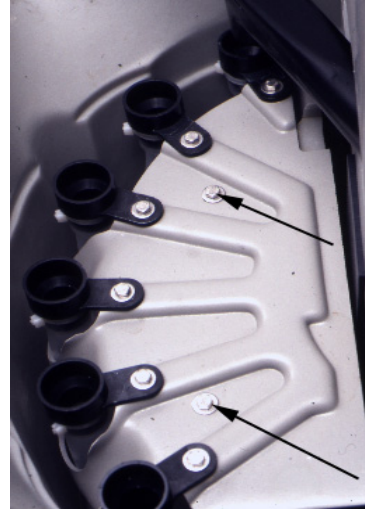
PART THREE

Part three explains how to remove the ATL-2+ chemical reclamation plate unit.

1. Lift off and remove the cover for the chemical reclamation area and set it aside. Note: For some ATL-2 Pluses, you will have to remove four (4) Phillips® head screws before lifting off the cover.

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.

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PART FOUR

Part four explains the removal of the gray cover (shroud) and the chemical reclamation unit on the ATL-3.

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-3.

3. If you have a tabletop processor (model 4172) 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 4170 or 4171) 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.

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PART FIVE

Part five explains how to remove the ATL-2, 2+, and 3 fuse access panel and how to disconnect the electronic cables.

1. Remove the two (2) Phillips® screws located just below the display and keypad panel. If you own an ATL-2 Plus, remove the front bottle cover as well as the 3mm cap head screw and washer located near the left cover hinge.

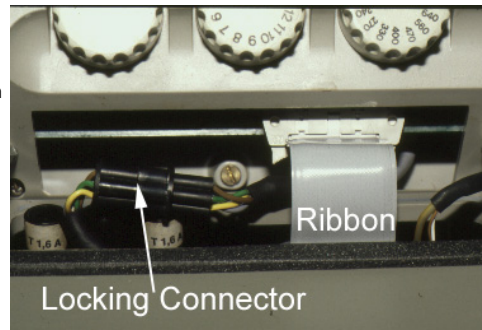


2. Pull the access panel forward being careful not to lose the rubber grommet(s) located on the right side of the panel.

3. Located behind the fuse access panel, you will find two (2) cables; one gray ribbon cable, and one round gray cable with a black locking connector.

4. Located at the top of the ribbon cable, you will see a hinge or tab on both sides of the connector. Simultaneously move both hinges out and to the side and slightly upward. This action will push the ribbon cable connector downward out of its receptacle.

5. Located on the round gray cable you will find a black locking connector. 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!

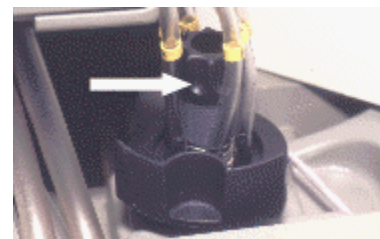
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PART SIX

Part six explains the removal of the ATL-3 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.

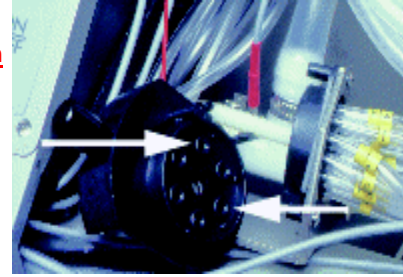
2. Disconnect the top half of the front/back bottle (air) switch by unscrewing the black thumb nut and lifting it upward to remove it.



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 SEVEN

Part seven explains how to remove the front/back bottle air switch sensor in the ATL-3

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.

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PART EIGHT

Part eight explains how to remove the rinse and fill water hoses on the ATL-1 and ATL-2

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

1. Remove all six (6) chemical bottles from the upper red colored trough.
2. Locate and remove the five (5) Phillips® screws from around the upper perimeter of the red trough. You will find three (3) Phillips® screws along the front and two (2) Phillips® screws along the rear of the upper red colored trough.
3. Remove the upper red colored trough by lifting the right side of the red trough upwards approximately 4 inches then pull in a rightward movement.
4. 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.

5. Remove the heat exchange coil by lifting it upwards out of the trough.
6. 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.

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

8. Disconnect the cold water fill hose. The ATL-1 does not have a cold water fill hose. The ATL-2'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.

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PART NINE

Part nine explains how to remove the rinse and fill water hoses on the ATL-2+

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-2+'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.

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PART TEN

Part ten explains how to remove the rinse and fill water hoses on the ATL-3

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

1. For ATL-3 models (4170 and 4171) 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-3'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 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.

