

# Instructions for the CPA-2 and CPP-2 JOB0 Lift #4072

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## **Introduction**

The JOB0 Lift (Part #4072) for both the CPA-2 and the CPP-2 Processors simplifies processing. It eliminates the need to remove the tank or drum during the process. Filling and draining of chemicals and rinse water from the tank or drum is done with the JOB0 Lift. This enhancement ends wet hands and messy counter tops, improves timing accuracy, and gives better chemical distribution. The JOB0 Lift can be added to the CPA-2 or CPP-2 Processors at any time with a minimum of effort.

### **Note:**

These directions augment those of the CPA-2 and CPP-2 Instruction Manual. Please read both sets of instructions before operating your processor with the JOB0 Lift accessory attached.

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### **Compatibility**

The CPA-2 and CPP-2 JOBO lift can be used with any 1500 or 2500 series film tank, 2800 or 3000 series print drum, and any of the Expert Drums (3000 series). Older, discontinued tank or drum models cannot be upgraded to work with the JOBO Lift system, as they used screw type lids that are not suitable for lift coupling.

For more details on making a tank or drum usable with the JOBO lift, see the page: [Cogs and Magnets](#)

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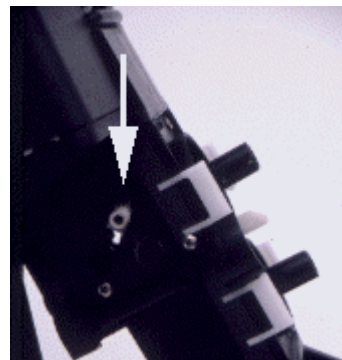
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### **Improvements**

The latest version of the lift has improvements in the tank coupling system. You can identify the version you have by examining the tank retention clips (they hold the lid's cog gear to the lift). The current version has black, horizontally aligned clips. The earlier version has white, vertically aligned clips. Both versions work well in holding the tank to the lift. The newer version allows an easier method of replacement for these clips, in the event of a failure.



[ New Style Lift ]



[ Pins on Older Lift ]

In addition to the clips design, the method of tank coupling selection has been changed. The earlier version used a sliding set of pins, that traveled in a diagonal slot, to change from the upper and lower coupling position. The newer version has a red, bell shaped cap, that is transferred from one coupling position to the other instead of the sliding pins.

Other than these two changes, the instructions below are applicable to all JOBO Lifts for the CPA-2 and CPP-2.

Note:

The later version of the lift has two molded holes for the Transfer Gear Set (#95200). Only one set of gears, towards the back of the processor (or right side, if looking towards the motor head) set is installed. The other molded hole is not supplied with a gear set. The lift is not "missing" a set of gears. Do not install another set of gears in this position. The lift will not function correctly with two sets of transfer gears installed. (The same arm piece molding is used with the Autolab series processors, which do require both sets, to work properly.) For more information about this, go to: [Why does my JOBO Lift look like it is missing a transfer gear?](#)

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## **Installing the Lift**

Please follow all these steps to safely and easily install your lift on either the CPA-2 or CPP-2 processors.

### **Caution:**

*Turn off and unplug your processor before proceeding with the installation procedures listed below.*

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## **Mounting the Drive Cog**

To install the drive cog, first unscrew the drive magnet. Replace the drive magnet with the correct drive cog (see below) and tighten the screw securely.

### **Notes:**

- There are two different versions of the drive cog to correspond to the two versions of rotation motors used in both the CPA-2 and CPP-2. Earlier rotation motors have a straight shaft, and the drive cog (or drive magnet) is attached with a slot headed screw. Later motors have a tapered shaft, and the drive cog (or drive magnet) is attached with a hex headed screw. You cannot use a tapered shaft cog with a straight shaft motor (or vice-versa).
- New lifts come supplied with the tapered shaft drive cog. If you want to install a new lift on an older processor with the straight shaft motor, contact JOBO to obtain the correct drive cog.
- The drive cogs on earlier versions of the processors were white. The current version drive cogs are black. The newer black drive cogs are used with all versions of the processors.

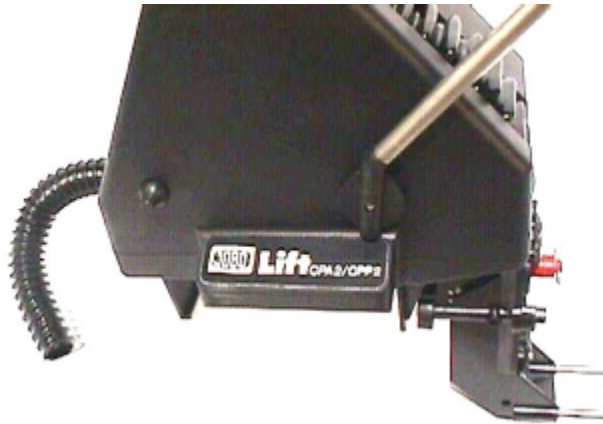
### **Caution:**

You must replace the white drive cog, supplied with the earlier version of the JOBO Lift, with the current black drive cog, when installing a new style lift on a processor that had the earlier style lift previously installed. Old lifts will work with the black drive cog or white drive cog, but the newer lifts must use the black drive cog. **Do not use the newer lift with the original white drive cog on the processor, replace the white drive cog with the newer black drive cog.**

- Use part number #95523, a black drive cog, for the straight rotation motor shaft. Tapered shaft rotation motors require a black drive cog, part number #95555.

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### **Mounting the Lift Handle**



Note the dimple in the end of the metal tube on the end opposite of the knurled cap. Match this dimple to the slot molded in the back side of the handle hub piece. Slide the metal tube fully onto the handle hub and rotate the tube clockwise until resistance is felt. It should not be necessary to force the mounting or the turning of the handle, if they are aligned properly.

#### **Caution:**



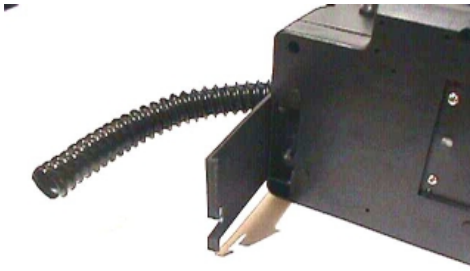
The black, cone shaped piece (about 16mm or 1/2" in size, mounted on the near side of the lift, at the same height as the hub and closer to the drain hose), is a stop used to prevent the pulling of the lift handle too far counterclockwise. Do not use this cone as a 'locking' or 'holding' device. Pulling the handle beyond the stop point may break the handle or internal mechanisms.

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### **Mounting the Lift on the Motor Head**

Remove the two large upper stainless steel screws located just above the motor drive shaft on the motor head. Do not remove the lower stainless steel screw. If there are washers glued to the motor head under the screws, do not remove them.

Locate the clip on the lower drain side of the lift. This clip snaps over the left side of the motor head and secures the left side of the lift to the motor housing.



[ Clip ]

Place the lift on top of the motor housing. be sure the clip on the left side of the lift is engaged under the lip of the motor housing.

Raise the right side of the lift slightly, and place the smaller washers in the screw holes left when you removed the stainless steel screws. If there are already are washers on the screw holes, do not remove them. Use these washers instead of the ones supplied with the lift. Releasing the lift will put a small amount of tension on the washers, holding them in place.

Put the lager washers onto the threads of the *black plastic* screws. Place the black plastic screws into the lift mounting holes. Put the screw closer to you in place first. The further screw should be started at an upward angle. This second screw will work its way to horizontal as it is screwed in place. The slight amount of tension created by this downward securing of the screw will help to keep the lift in place securely.

**Caution:**

Do not over-tighten these screws. The black plastic screws are designed to hold the lift securely in place, yet break if they are over-tightened. This prevents the serious damage to the lift, that would result from over-tightening the stainless steel screws, if used instead.

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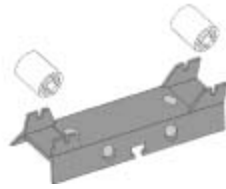
**Adjusting the Lift for the Tank or Drum to be Used**

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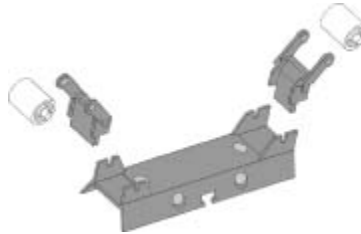
**Adjusting the Roller Block**



[ 1500 Series ]



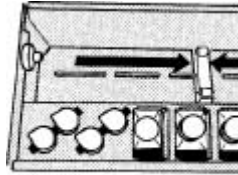
[ 2500 and 2800 Series ]



[ 3000 Series ]

Slide the roller block along the tubular rails on the lower portion of the Lift. Position it so the black body of the tank being used rests on the rollers as far to the right under the tank as possible. Do not allow the tank to rotate on the Tank lid or module's red ring, or 3000 series drum joints.

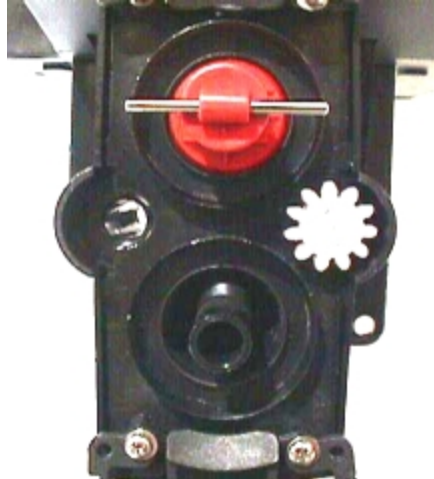
**Note:**



You may use the trough roller block that came with the processor in addition to the one mounted on the lift. Although its use is not required, additional support for longer tanks and drums is provided with the second set of rollers. Be sure to adjust the second set the same as the first. (The trough roller block will remain mounted in the upper trough, and is not raised when the lift is raised.)

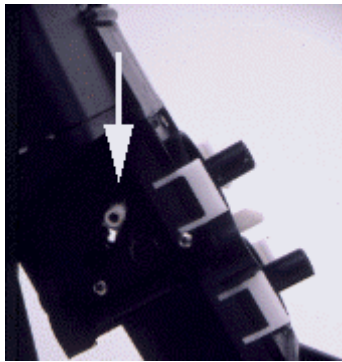
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**Setting the Coupler**



Select the correct chemical/wash outlet (on the lift arm, looks like two horizontal nozzles one above the other) by plugging the unused outlet with the bell-shaped red cap. (The upper outlet is only used for 3000 series drums; all others use the lower outlet.) Be sure to press the cap firmly in place. If the cap is too loose, it will rub against the tank lid, and may cause the tank to de-couple from the lift.

**Note:**



[ Pins on Older Lift ]

The earlier version of the JOBO Lift uses a different mechanism to set the selected tank position. No red cap is used. There is a diagonal slot on the side of the lift arm between the two coupling positions. A set of pins project out of this slot. The pins are pulled up for the 3000 series drums, and pulled down for all other tanks and drums. A small white stick protrudes from the position between the couplers. As the pins move, the stick moves in the opposite direction. This stick prevents the mounting of a tank or drum on the unselected coupler. The pins lock into place with quite a lot of pressure. It may take two hands to change positions.

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**[Operating the Lift](#)**



[ Funnel ]

Tanks and drums are filled immediately by pouring liquids into the built-in funnel in the top of the JOBO Lift. Liquids are drained from the tank or drum by moving the lever of the JOBO Lift counterclockwise to allow the liquid to flow out the hose on the left side of the JOBO Lift.

Practice mounting and removing a tank or drum on the JOBO Lift, before you start actual processing.

Note:

The retention clips may snap loudly when removing the tank or drum. This sound is normal. When lowering the lift, the cog gear will mesh with the transfer gear. They may make a 'thunk' noise as they engage. This sound is normal too.

Check that the correct chemical/wash outlet (on the lift arm, looks like two horizontal nozzles one above the other) has been selected by plugging the unused outlet with the bell-shaped red cap. (The upper outlet is only used for 3000 series drums; all others use the lower outlet.)

Set the roller block assembly and rollers in the proper position, for the tank or drum being used. Make sure the rollers are not under the red locking ring (or black bands on the 3000 series) of the tank or drum.

Note:

Special black rollers with stainless steel shafts (#92167) are available to reduce friction and wear. They are recommended for Expert Drum use, and are suitable for use with any 3000 or 1500 tank or drum.

To mount a tank or drum, push the lid assembly straight into the outlet on the JOBO Lift. The retention clips will snap the lid into place.

To remove the tank or drum, grasp the bottom end of the tank or drum and pull up and toward you. The retention clip will release the lid with a snap.

Note:

Expert Drums should then be tilted vertically over the upper trough, before leaving the processor, to drain the water from the bottom tempering slots.

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**[Lift Care, Tips and Maintenance](#)**



Be sure to level the processor before processing. Use a level such as the JOBO Spirit Level (#4502) and place it on top of the tank or drum. Adjust the height of the processor corners as necessary. Level the tank or drum, even if this makes the processor itself slightly off level. An unlevelled tank or drum may not produce even development.

### [ JOBO Spirit Level ]

The final rinse of a process should have at least the first three cycles of rinsing done with the JOBO Lift, even if you are planning to finish the rinse off the processor. This action rinses the JOBO Lift and leaves it prepared for the next process run. At the end of a processing session, or when switching processes, flush the interior of the JOBO Lift by pouring about a liter (quart) of clean water into the funnel on the top of the lift (with a large empty tank attached) and drain the tank.

When raising and lowering the JOBO Lift, do not stop the rotation motor.

When raising and lowering the JOBO Lift with a heavy tank or drum, use a two handed procedure. Support the tank or drum with your right hand, while operating the lift handle with your left hand.

Running the processor without water, but with a tank or drum, will cause excessive wear on the roller block assembly.

When pouring liquids into the JOBO Lift funnel, pour steadily so liquid does not overflow the built-in funnel. Pouring too rapidly can cause some liquid to flow out the drain, or leak into the motor unit, causing damage. It is normal for a few drops of chemicals to flow out the drain hose of the JOBO Lift when pouring in chemicals. Always place the end of the hose into a drain or container when pouring into the JOBO Lift.

If the Drum or Tank Floats While Processing...

Lower water level in tempering trough by turning the level control dial.

Check for the proper roller block arrangement, for the tank or drum used. For 2500 and 2800 system tanks or drums use the lower setup. For 1500 series tanks use the higher setup, facing each other. For 3000 system drums the rollers on their supports face away from each other.

If the Rotation Motor Slows When Lowering the Lift, or Adding Chemicals...

A slight slowing of the rotation speed is normal when lowering the lift, or when adding chemicals or rinse water to a lift equipped processor. If the slowdown is significant, you are probably using more than the recommended amount of chemicals or rinse water. The maximum recommended volume to be used is 1000 ml (34 oz.) with the CPA-2 and CPP-2. If the volume is not excessive, check the positioning of the tank or drum on the roller block. The lid or locking ring should not ride on the rollers. Check that the supports are set correctly for the series tank or drum in use. Be sure that the correct coupling position is selected. Be sure that the trough level is not set too high. If the Transfer Gear shaft is worn, it may slow down the rotation in one direction more than the other - replace the Transfer Gear (#95200).

Clean all chemical spills immediately to prevent staining the lift, contamination of the tempering bath, and possible introduction of corrosive chemicals into the control unit.

The JOBO Lift is made of chemical resistant plastics, however, periodic cleaning is recommended. The outside of the lift can be cleaned by simply wiping it with a damp cloth. Do not use any solvent based or abrasive cleaners on your JOBO Lift.

If the gear mechanism squeaks during rotation, you may lubricate it. Use the #95465 Grease Syringe or petroleum jelly (like Vaseline) sparingly on the drive cog and the transfer gear. Be sure to avoid placing the lubricant where it may get into the mouth of the tank or drum. Do not use oil or a lithium grease, as they will cause rapid wear or deterioration of the moving parts.

If a tank or drum lid is not sealing securely to the lift coupler, replace the small red washer (#07095) located within the cog gearing of the tank or drum lid.

### Parts for the JOBO Lift

- # 07083 White Retaining Clip (old style lift only)

- # 92157 Black Retaining Clip Assembly (new style lift only)
- # 92158 Red Cap for Lift (new style lift only)
- # 07109 Lift Handle Attachment (hub only)
- # 95186 Lift Handle Assembly (includes hub, tube and cap)
- # 34200 Screw for the Lift Handle
- # 95200 Transfer Gear Set (2 sets)
- # 34901 Washer for Transfer Gear (old style lift only)
- # 95465 Grease Syringe (for lift gears)

**Parts for the Roller Block**

- # 95215 Roller Block Assembly for Lift Arm
- # 95183 Roller Block Assembly for Processor Trough
- # 07067 Roller Extensions (angled arms) for roller block
- # 07007 White Rollers for roller block
- # 92167 Black Rollers with stainless steel axle for Expert Drums (substitute for 07007)

**Caution:**

Do not open the lift housing. There are no user serviceable parts inside the lift housing. The internal gearing is factory calibrated, lubricated and sealed. Any attempts to "adjust" these settings will likely cause damage to internal seals and thus cause leakage that could damage the electronics in the processor motor head. If the lift is too stiff or too loose in raising and lowering, or you suspect other problems inside the lift, contact JOBO for repair assistance.

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**Other Instructional Pages**

**Instruction Manuals**

- For instructions on the CPA-2 or CPP-2 Processors: Instruction Manual for the CPA-2 and CPP-2 Processors
- A general guide: Processing Using the JOBO Lift Accessory
- Process specific information: Processing Instructions With the JOBO Lift Accessory
- For more details on making a tank or drum usable with the JOBO lift: Cogs and Magnets

**FAQ's**

- Answer the question: "Why does my JOBO Lift look like it is missing a transfer gear?"
- How to contact JOBO

**Bulletins**

- For instructions on replacing the Transfer Gear Set: Bulletin B004
- For instructions on replacing the Black Retaining Clips (newer lift): Bulletin B020

- For instructions on replacing the White Retaining Clips (older lift): Bulletin B003