

# WEEKLY MAINTENANCE

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Cleaning your A/T 2000®XR on a weekly, monthly, and quarterly basis is critical in maintaining quality processor performance. We recommend the maintenance procedure outlined below using Spray 2000 and Formula 2000 cleansers especially Formulated for the A/T 2000®XR. This suggested maintenance schedule may have to be modified if your processor requires more frequent cleaning.

## WEEKLY . . . Clean Rack Assemblies

**CAUTION:** Turn POWER switch OFF before removing the cover, the rack assembly or disconnecting any electrical cables.

### 1. SLIDE THE LATCHES OPEN

- Unplug the processor cover electrical cable from the processor base and remove cover. Set aside.
- Slide the latches open.
- Lift each rack assembly straight up, and move it directly to the side to avoid dripping chemistry into the adjacent tanks.

**NOTE:** Dripping just a few drops of Fixer into the Developer tank will contaminate the Developer and result in poor film quality.

### 2. CLEAN RACK ASSEMBLIES (Do not soak overnight)

- Place the rack assemblies in a large sink; thoroughly moisten with Spray 2000 or water.
- Clean with a soft brush or use a sponge for each rack and warm running water to clean rollers and gears. Be sure to rotate gears while cleaning rollers.
- Rinse each rack assembly thoroughly and allow to dry.

**NOTE:** When cleaning the gears, a soft brush can be used to loosen and remove stubborn deposits. Do not use soap, detergents, or abrasive cleaners. Be sure to use a separate brush or sponge for each rack. Color coded sponges are supplied with each case of Air Techniques Developer & Fixer.

### 3. REINSTALL RACK ASSEMBLIES

- Slowly lower each rack into its tank. Match color-coded end plates to color-coded latches.
- Do not splash fixer into Developer tank when installing Fixer rack.
- Close all the latches.
- Replace the cover and reattach the electrical cable to the base.

### 4. PROCESS A CLEANING FILM

- Turn on the power.
- Always process a new cleaning film after cleaning the rack assemblies (at normal speed, after READY light illuminates).

## MONTHLY . . . Change chemistry

If the bottom of the Developer tank is coated with black residue and/or the white gears on the side of the Developer rack are stained grey or black, the developer has been contaminated. The Developer tank and rack must be cleaned with Formula 2000 (see Quarterly Maintenance pages. 15 & 16). See Avoiding Chemistry Contamination, pg. 11 and TROUBLE SHOOTING, pages. 20-28 for causes and solutions.

**CAUTION:** Do not turn on power when the Developer and Fixer tanks are empty. Turn POWER switch OFF before removing the cover, the rack assemblies, or disconnecting any electrical cables.

### 1. REMOVE COVER

- Disconnect the cover electrical cable from the processor base and remove the cover.

### 2. REMOVE RACK ASSEMBLIES

- Remove all the rack assemblies, taking care not to drip fixer into the Developer tank.

### 3. DRAIN AND CLEAN TANKS

**CAUTION:** Be sure to dispose of any chemistry and chemistry laden water in accordance with local codes.

- Unscrew and remove the Fixer, Developer and Wash tank drain tubes and completely drain the tanks. Replace the color coded drain tubes, fill all three tanks with warm water, then drain. Repeat this drain / fill / drain sequence 4 times all together.
- Locate the chemistry agitators in the bottom of the Fixer and Developer tanks. These agitators mix the chemistry in the tanks, preventing crystallization and optimizing chemistry performance. To make sure that the agitators move freely and to prevent the agitator screws from seizing, the agitators must be disassembled and cleaned regularly:

- Remove the thumb screw, plastic cap, magnet, washer and ceramic post.
- Clean all the parts with Spray 2000 and warm water. Rinse thoroughly and set aside.

- While the chemistry agitators are disassembled, wipe down the tanks with sponges to eliminate any chemistry residue. Use a separate sponge for each tank. Reassemble the chemistry agitators as shown in Fig. 5. Refill all tanks with warm water to the fill line. Reinstall the drain tubes. Fill all the tanks with warm water to the fill line.

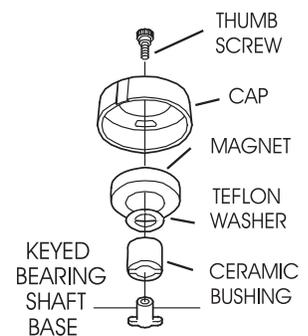


FIG. 5 - AGITATOR

### 4. FLUSH AGITATORS

- Replace the processor cover (reconnect the cover electrical cable to the base), press and hold CLEANING MODE and turn ON the power at the same time. When CLEANING MODE is pressed, the agitators rotate and are rinsed by the warm water in the tanks. CLEANING MODE will prevent initial replenishment from occurring.
- Shut off the power after two minutes.
- Disconnect the cover electrical cable from the base, remove the processor cover and drain all three tanks.
- Thoroughly wipe up any standing water with a clean paper towel or separate sponges. Any water remaining in the tanks will dilute the chemistry. Reinstall the color-coded drain tubes.

# MONTHLY MAINTENANCE

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## 5. CLEAN RACK ASSEMBLIES

- Place rack assemblies in a large sink; thoroughly moisten with Spray 2000 or water, then clean with a soft brush or sponge under warm running water.

**NOTE:** When cleaning rack assemblies, only use a soft bristle brush. A hard bristle brush may score and scratch the rollers, leaving undesirable markings on the film. Do not use soap, detergents or abrasive cleaners.

- Rotate the gears and rollers while cleaning.
- Be sure to use a separate soft brush or sponge for each rack. Color-coded sponges are supplied with each case of Air Techniques Developer and Fixer.
- Thoroughly rinse the racks and drain.

## 6. REFILL THE TANKS WITH CHEMISTRY

- Fill the Fixer tank with fixer to the fill line. **POUR SLOWLY!** Do not splash or splatter. If fixer is splashed into the Developer tank, wipe up completely with clean moistened towel or sponge.
- Fill the Developer tank with developer to the fill line. **POUR SLOWLY!** Add 2 oz. of Starter.

## 7. REINSTALL RACK ASSEMBLIES

- Slowly lower each rack into its tank, matching color-coded rack end plates to color-coded latches and color coded drain tubes. Do not splash fixer into Developer tank when installing Fixer rack.
- Close all latches. Replace the cover and reconnect the cover electrical cable to the processor base.

## 8. PROCESS A CLEANING FILM

- Turn ON the power.
- Process a new cleaning film (at NORMAL SPEED, after READY light illuminates).
- If chemistry or water splashes onto the film inlet shelf, wipe it up with a paper towel or sponge.

# QUARTERLY MAINTENANCE

## QUARTERLY...Clean with Formula 2000

Clean your A/T 2000®XR processor with Formula 2000 Tank and Transport Cleanser every three months or whenever a black residue is evident on racks and/or tank. Formula 2000 (Part Number: 43945) is available from your authorized Air Techniques Dealer.

**CAUTION:** Turn POWER switch OFF before removing the cover, the rack assemblies, or disconnecting any electrical cables. USE FORMULA 2000 IN A WELL VENTILATED AREA.

### 1. TURN OFF POWER AND CLOSE WATER SUPPLY VALVE

- Unplug the cover electrical cable from the processor base and remove the cover.

### 2. REMOVE ALL RACK ASSEMBLIES, RINSE AND SET ASIDE.

### 3. PREPARE PROCESSOR FOR CLEANING WITH FORMULA 2000

- Unscrew and remove the Fixer, Developer and Wash tank drain tubes and completely drain the tanks. Replace the color coded drain tubes, fill all three tanks with warm water, then drain. Repeat this drain /fill /drain sequence 4 times all together.
- Wash tank
  - If the Wash tank is not dirty or shows no evidence of contamination, reinstall the drain tube and the Wash/Dry rack assembly.
  - If the Wash tank is dirty or contaminated, cleaning with Formula 2000 is recommended. Follow the same procedure as for the Developer tank, as described below, but it is necessary to block the drain tube weep hole with the special washer that is included with the processor. This washer prevents the tank from draining during cleaning (See Fig. 2). When cleaning is completed, remember to remove the washer and save it for reuse.
- Fixer tank
  - Install the Fixer tank drain tube, fill the Fixer tank with water, install the rack assembly.
  - NEVER USE FORMULA 2000 IN THE FIXER TANK.
- Developer tank
  - Install the drain tube.
  - Pour Formula 2000, Component 1, into the empty Developer tank.
  - Fill the tank with cold water to the fill line.
  - Cut open the Formula 2000 Component 2 powder packet, and sprinkle the contents evenly over the tank. The effervescent action of Formula 2000 will begin as soon as Component 2 is added. Some odor and vapor will be evident. Do this in a well ventilated area.
  - Before placing the Developer rack in the tank, dip each end into the Formula 2000 solution to dissolve any build-up and deposits on the gears and end plates.
- Replace the cover and reconnect the cover electrical cord to the processor base.

**NOTE:** Opening the cover during the processing cycle or during a CLEANING MODE cycle opens the safety switch and stops only the drive motor. The rollers and drive gears stop rotating. This is a safety feature of the A/T 2000®XR.

## QUARTERLY MAINTENANCE

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### 4. RUN PROCESSOR

- Press and hold CLEANING MODE and turn ON the power at the same time to activate the 10 minute cleaning cycle. If deeper cleaning is required, press CLEANING MODE again when the first cycle ends.
- Occasionally, while the processor is running, lift the cover and wipe the rollers and drive gears of each rack above the solution with a sponge to loosen any remaining deposits. Use a separate sponge for each tank. Close the cover so that rollers can resume rotating in the cleaning solution.

### 5. CLEAN THE RACKS

- Turn off the POWER switch, disconnect the cover electrical cable from the processor base and remove the cover.
- Remove the rack assemblies and place them in a large sink. Clean with a soft brush or sponge under warm water. Rotate the gears and rollers while cleaning. Remove all traces of Formula 2000 to avoid contaminating the fresh chemistry!

### 6. PRELIMINARY RINSE (flushing Formula 2000)

- Make sure the POWER switch is off.
- Remove the drain tubes and drain the tanks. Dispose of the cleaning solution in accordance with local codes. Replace the drain tubes.
- Fill the tanks with water, replace the cover and reconnect the cover electrical cable. Press and hold CLEANING MODE and turn ON the power at the same time to run the processor for a few minutes, then lift the cover and drain.

<p><b>CAUTION:</b> Do not turn on the power when the Developer and Fixer tanks are empty.</p>
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- Be sure to remove the washer covering the weep hole in the Wash tank drain tube if you cleaned the Wash tank. Save the washer for reuse.

### 7. FINAL RINSE

- Reinstall the drain tubes and fill the tanks with water.
- Turn on the processor water supply. Turn on the POWER switch. The replenisher pumps will run and purge any Formula 2000 that may have gotten in the replenishment lines. Turn OFF the POWER switch after 2 minutes. Lift the cover and drain the tanks.
- Drain, refill the Developer and Fixer tanks with water, and drain again.
- Wipe the Developer and Fixer tanks dry with a paper towel. Use a separate towel for each tank.
- Fill the Fixer and Developer tanks with chemistry, reinstall the rack assemblies and process a new cleaning film. (See MONTHLY MAINTENANCE #6, 7, 8 on pg. 14.)