



## **iCLEAN**

Custodian who **L**earns, **E**ducates, **A**chieves & **N**etworks Success.  
Providing Safe, Clean, Efficient & Attractive Schools.

### **Tomcat Auto Scrubber training:**

#### **Recommended PPE:**

- Gloves and goggles.

#### **Safety procedures:**

- Wear your PPE: gloves and goggles when filling, mixing chemicals, and cleaning the machine.
- Do not operate machine unless trained and authorized.
- Always display a wet floor sign to alert others of a possible slip hazard.
- Keep hands and feet clear of moving parts while operating machine.
- Do not pick up flammable or reactive materials.
- Do not bump into walls, shelves, or scaffoldings. Damage to the deck and isolators may occur and there may be a risk of falling objects.
- These machines are designed for level floor operation only. Use caution when operation on ramps or inclines.
- Batteries emit hydrogen gas. Keep sparks and open flame away. Keep battery compartment open when charging. Perform this procedure in a well ventilated area.
- Disconnect battery cables before servicing.
- When using machine, go slow on slippery surfaces.
- When using machine reduce speed when turning.
- When using a SPP pad never apply the SPP pad to the grip face of the deck. Always use a spacer pad between the grip face and the SPP pad.
- Do not allow pad to operate while machine is stationary to avoid damage to floor.
- Before leaving or servicing the machine, turn unit off and remove the key.
- Only use distilled water in the batteries.

- When filling batteries, only fill to just above the led plates in the cell. Do not over fill.

**Pre use checklist:**

Disconnect the charger if plugged in.

Check the level of charge on the batteries.

Check the level of water in the fresh water tank.

Check the recovery tank to verify that it is empty and clean.

Check that the float shutoff is clean and operational.

Check that the water filter on the bottom of the machine is clean.

Check the squeegee for wear or damage.

Check to see that the pad is properly installed and in good usable condition.

Check the controls on the machine. Squeegee operation, scrub deck operation, speed control, forward, and reverse controls.

**Pads:**

There are 3 types of pads we use on the tomcat auto scrubber.

- Red pad – this is a soft pad to be used for daily cleaning.
- Blue pad – this is an aggressive pad to be used on heavily soiled floors. This pad will dull your floors and will have to burnish floors to bring back a shine.
- SPP pad – this pad is very aggressive and is used with water to remove finish from the floor. This is a good pad to use for a deep scrub and recoat.

**Tomcat Auto Scrubber display and controls:**

Familiarize yourself with the LCD screen. Use the green button on control panel to change screens.

Screen 1 (operator) from left to right.

- Battery level indicator – indicates the energy level remaining in the batteries (shown on all menu displays).
- Solution output indicator – indicates the gallons per minute (GPM) 0-1.0.
- Scrub deck down pressure indicator – sets the down pressure on the pads.
- Scrub motors on – indicates the pad driver motor is in operation.
- Solution on – indicates the solution flow is on.
- Vacuum on – indicates the vacuum is on.

Screen 2 (maintenance) from top to bottom.

- Key switch hour meter – indicates total hours the machine has had key switch on.
- Transport hour meter – indicates total hours the drive system has been in operation.
- Scrub brush hour meter – indicates total hours the pad drive motor has been in operation.
- Vacuum hour meter – indicates total hours the vacuum motor has been used.

Screen 3 (with error code) from top to bottom (this screen only shows up if there is an error code).

- Diagnostic code – displays diagnostic code, which helps troubleshoot issues.
- Error warning symbol – indicates when there has been a diagnostic code error.

Control panel layout:

- Lever at top of control panel raises and lowers the squeegee. The vacuum turns on automatically when the squeegee is lowered and when the squeegee is raised. It will continue to run for a short time to suck up the water in the hose.
- Green button on top right of panel is used to change the LCD screen.
- Lever on left side of control panel, just in front of the left handle, is the reverse control; pull back on this lever to make the machine back up.

Bottom of control panel from left to right:

- On off key switch – turns machine on and off (some models have this on the right side of the control panel under the handle).
- Water supply switch – increases and decreases your GPM from 0 to 1.0.
- Pad down pressure switch – increases and decreases the pad pressure.
- Vacuum warning light – indicates the tank is full or there is a blockage/problem with the vacuum (not all models have this).
- Pad driver switch – this raises and lowers the pad driver.
- Speed setting knob – this adjusts the speed of the machine (this is on the right side of the control panel just in front of the right handle on some models).
- Some models have settings on the left side of the control panel under the left handle. These could include a key switch to lock in your water and pressure settings, and a switch to run the pad drive motor at 80% or 100%. Mostly found on the mini mag and the magnum models.

Handles:

- The buttons on the handles drive the unit forward (there is one button on each handle; you only need to depress one to move the machine forward).

**Using the Tomcat Auto Scrubber:**

Installing the squeegee:

With the machine off, lower the squeegee arm and loosen the 2 star knobs. Slide the squeegee assembly onto the squeegee triangle plate, (may need to lift up on the squeegee triangle plate) tighten the star knobs and hook up the squeegee hose. Raise the squeegee arm.

Adjusting the squeegee:

To adjust the squeegee, lower the squeegee arm, drive the machine forward about a foot, and shut the machine off. Look at the squeegee and see if it is level. The blades should be even and have about a ¼” deflection. If the blades are not even, then you will need to adjust the squeegee adjustable lateral arm that sits above the squeegee triangle plate. Loosen the lock nuts on the squeegee adjustable lateral arm and adjust the screw in or out to tip the blades forward or back. Turn the machine on and drive it forward about a foot to check your adjustment. Repeat this process until the blades are level with the same amount of deflection on the front and back blades. Then tighten the lock nuts on the squeegee adjustable lateral arm. If the blade deflection is even but greater or less than ¼” then you have to adjust the idler wheels up or down to get ¼” deflection on the blades. Just like

adjusting the blades for level, you need to drive the machine forward to check your adjustments.

#### Installing the pad on the pad driver:

Set your cleaning pad on the floor and drive the machine up to it. You need to have the pad centered side to side and sticking back behind the pad driver about ½” as the pad driver comes back as it is lowered. Push the switch on the control panel to the pad driver down position, the pad driver will lower onto the pad attaching it to the grip face. If you did not get it centered then remove the pad and try again. When using a SPP pad, **never install it to the grip face of the oscillating deck.** Install a regular cleaning pad to the grip face, place the SPP pad on the floor and lower the deck onto the SPP pad centering it under the cleaning pad.

#### Cleaning an area:

The area should be swept or vacuumed before using the machine. Make sure there is enough water and solution in the tank for the area you will be doing. It is recommended that you only mix enough solution for the area you will be doing as not to waste chemical. Make sure you use your PPE when filling and mixing chemicals in the machine. Install a pad on the pad driver if not already on the machine and set the desired amount of down pressure/solution with the switch on the control panel. With the squeegee off the machine, transport the machine to the area you will start in and put out your wet floor signs. **Do not set the squeegee on top of the machine as damage to the cover will result.** Once you are in the area you will start in, attach the squeegee to the machine, move the pad driver switch to the down position and lower the squeegee. Depress the drive button on the handle and adjust your speed to a pace that allows the machine sufficient time to clean the floor. Start by cleaning around the outer edges of the area **never run the deck of the machine against or into the walls, as this will damage the deck isolator.** We recommend 2 passes around the outer edge so you will have 2 widths of the machine done around the edges. This way you will have plenty of room to turn around without bumping into the wall. Now go back and forth slowing down at your turn point and overlapping slightly as you return down the other way. As you are cleaning the floor, check to see if the squeegee is picking up the water or if it is leaving a line of water. If it is leaving a line of water, then there may be something under the squeegee. Stop the machine and raise the squeegee, disconnect the squeegee hose and vacuum up any debris on the floor. Check the squeegee blades; clean them off if there is any visible debris on them. Back the machine up a little, lower your squeegee, and continue to clean the floor. Once the area is clean, stop the machine, raise the pad driver, and drive the machine towards the exit point of the room with the squeegee down as to pick up water that will be dripping of the pad. When you get to the exit point, raise the squeegee and remove it from the machine. **Do not set the squeegee on top of the machine** drive the machine to a custodial closet.

#### **Cleaning and storing the machine:**

Remove the squeegee and rinse it off in the slop sink then wipe it clean with a microfiber cleaning cloth. Store it on a shelf, rack or appropriate hanger so that the squeegee blades are not in contact with any surface (as not to damage them). Back the machine up to the slop sink and detach the drain hose, take off the cap and place the hose into the slop sink. As the machine is draining, unlatch and open the lid to the recovery tank. Remove the drain saver basket, empty the debris into a trash can and rinse out the basket. Wipe it clean with

a microfiber cleaning cloth. Unscrew the cap on the vacuum filter box, remove the top filter and rinse it out, remove the top plate, and then the screen basket. Take out the plastic float ball, rinse it off, and then rinse off the screen basket. Reinstall the screen basket, float ball and top cap. Dry out the filter and reinstall it back into the machine and screw the cap back on. Take the end of the squeegee hose and place it in the slop sink. Using a hose start to rinse out the recovery tank from top to bottom and flush out the squeegee hose. Using a microfiber cleaning cloth, wipe out the recovery tank, wipe clean the lid and gasket on the lid. Wipe clean the surface area on the top of the machine that the lid seals to. Reinstall the drain saver basket and reattach the hose to it. Put the cap back on your drain hose and reattach it to the machine. Use a microfiber cleaning cloth to wipe down the machine. Drive the machine to its storage area and put it away. The lid is to stay open on the recovery tank so it can air dry. If the machine needs to be charged, plug in the charger, unlatch the 2 latches and open the battery compartment to properly vent the batteries during charging. You may have to drain the solution tank to be able to open the battery compartment.

**Recommended Maintenance:**

- Check water in batteries weekly.
- Clean the water filter weekly.

## **Acknowledgement of Training: Tomcat Auto Scrubber Training**

Site/Location: \_\_\_\_\_

**Plant Manager/Trainer Signature:**

Print name, \_\_\_\_\_

Signature, \_\_\_\_\_/ Date \_\_\_\_\_

**By signing this, you are acknowledging that you have trained and physically demonstrated the proper use and care of the Tomcat Auto Scrubber to the employee.**

**Employee Signature:**

Print name, \_\_\_\_\_

Signature, \_\_\_\_\_/ Date \_\_\_\_\_

**By signing this, you are acknowledging that you received proper training on the use and care of the Tomcat Auto Scrubber, and have physically used the Tomcat Auto Scrubber under the supervision of the Plant Manager/Trainer.**

Please print, sign, scan, and email this portion back to David Van Mensel at Custodial Services. [dvanmens@pasco.k12.fl.us](mailto:dvanmens@pasco.k12.fl.us) Keep a signed copy in the employee's file at the worksite.