



Actuator Replacement Kit



Models: T600, T600e

This kit includes the necessary part to replace a defective scrub head lift actuator.

IMPORTANT: For proper actuator operation, carefully follow installation instructions as described below.

NOTE: If the actuator is stuck in the down forced position, making it difficult to remove the pins, loosen the three mounting screws on the actuator bracket as shown to relieve the tension on the pins.

INSTALLATION INSTRUCTIONS:

Installation Time: 1 Hour

Special Tools Required: None

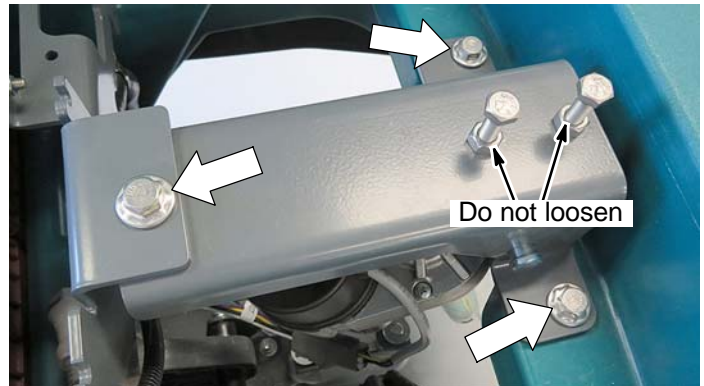
Kit Contents



Kit P/N	Description	Qty.
9016969	Actuator, 36VDC, 7.00 Strk (T600, T600 Heavy Duty, T600e Orbital)	1
9016971	Actuator, 36VDC, 4.40 Strk (T600e)	1
9016972	Actuator, 36VDC, 4.50 Strk (T600e Heavy Duty)	1

REMOVING DEFECTIVE ACTUATOR:

1. Empty the solution and recovery tanks.
2. Park machine on level surface.
3. Lift the recovery tank and remove the front machine shroud to access the actuator.
4. If actuator is inoperable, move to step 5.
Lower scrub head to floor by pressing the 1-STEP button, but stop the scrub head right before it starts to apply pressure on floor by turning the key off. This will relieve the tension on the actuator for easy clevis pin removal.
5. Disconnect the actuator wire harness connector from machine. Remove the lower and upper clevis from the defective actuator. If there is tension on the pins, slightly lift the scrub head by hand to remove the pins. Set mounting hardware aside for reuse.



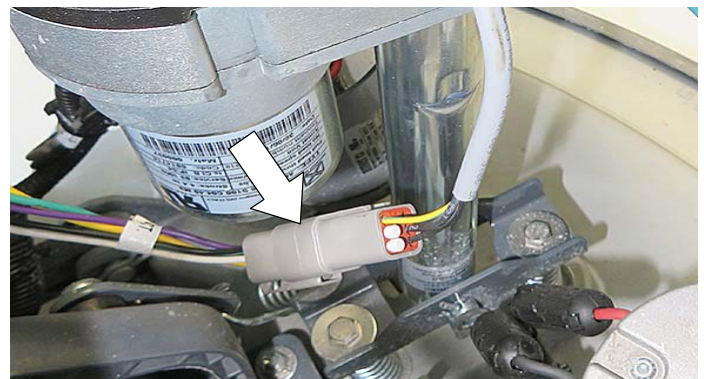
INSTALLING NEW ACTUATOR:

1. Connect top end of actuator to machine using existing hardware. Secure clevis pin with cotter pin.

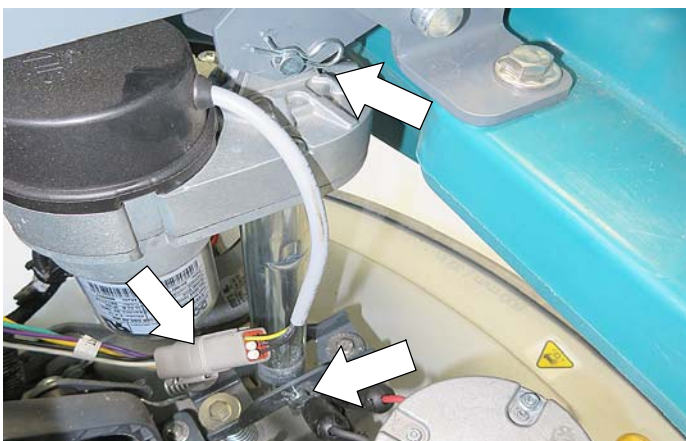
IMPORTANT: DO NOT remove the red lock clip from actuator tube or attempt to connect the lower tube end at this time.



2. Connect the actuator wire harness to the machine.



3. Make sure the scrub head is not elevated from the floor. Scrub head must be laying flat on the floor.



4. **IMPORTANT STEP:** Use the machine's manual mode to connect the actuator's lower tube to scrub head as described below.

Machines equipped with a Membrane Panel:

- A. To activate manual mode, press and hold the 1- Step button while turning the key on. Release the button when the brush pressure light turns on.



Confirm that the brush pressure light is at the (+) brush pressure setting as shown below. If the light is not at the (+) setting, press the brush pressure button.



- B. Carefully remove the red lock clip from the actuator tube. DO NOT turn tube from the factory set position.
- C. This step may require an assistant. Firmly grip the actuator tube by hand and slowly pull the start bail to lower the tube into position. Insert the clevis pin when the tube holes are aligned with the scrub head bracket. Secure clevis pin with cotter pin.

IMPORTANT: DO NOT allow tube to spin freely. The factory set point will be lost.

If the actuator tube was extended too far, beyond the mounting holes, reverse the actuator direction by pressing the brush pressure button to the (-) setting as described above. Continue to grip actuator tube.

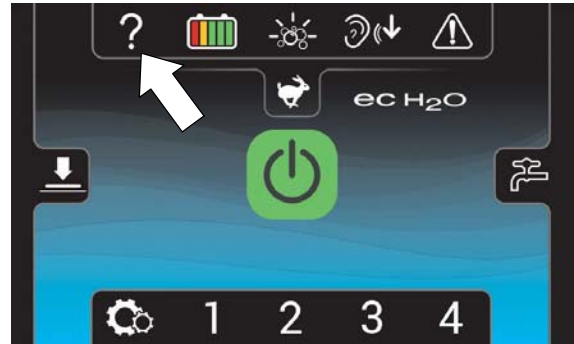


- D. Turn key off to exit the manual mode.
- E. Test machine for proper operation.

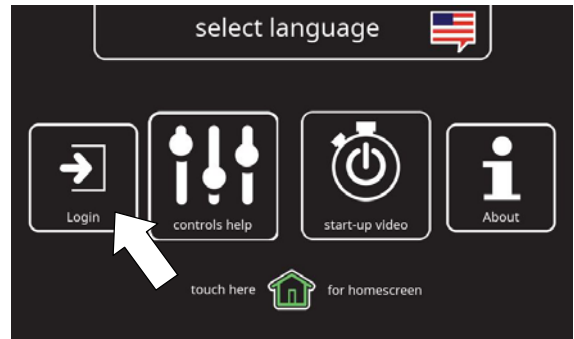
NOTE: If the actuator does not operate properly, the factory set point may have been lost. See **RESETTING THE ACTUATOR TO THE FACTORY SET POINT.**

Machines equipped with an LCD Pro- Panel:

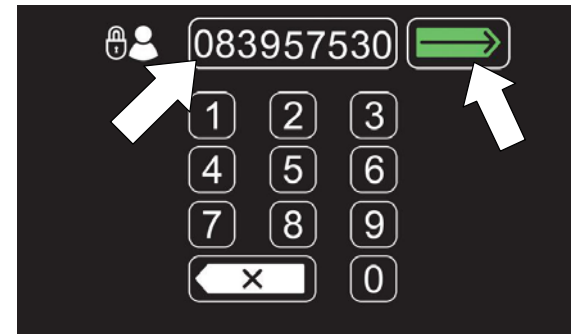
- A. To enter the manual mode, press the help button [?] to the help screen.



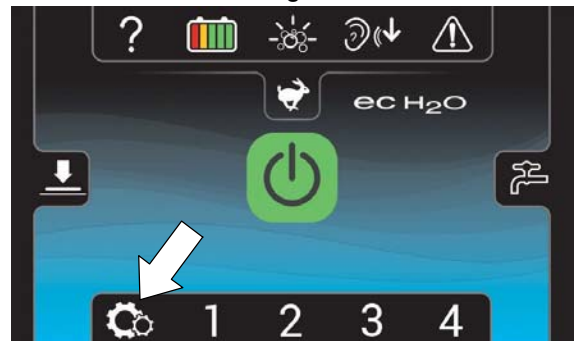
- B. Press the Login button.



- C. Enter the manual mode code 083957530 and press the green arrow.



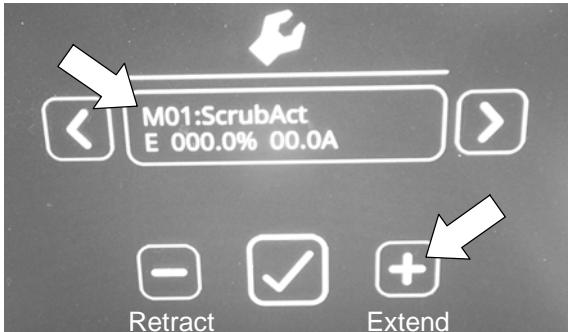
- D. Press the machine settings button.



E. Scroll down and press the Manual Mode button.



F. Scroll to the "M01:ScrubAct" mode. Press the [+] button to set the actuator in the extend direction.



G. Carefully remove the red lock clip from the actuator tube. DO NOT turn tube from the factory set position.

H. This step may require an assistant. Firmly grip the actuator tube by hand and slowly pull the start bail to lower the tube into position. Insert the clevis pin when the tube holes are aligned with the scrub head bracket.

IMPORTANT: DO NOT allow tube to spin freely. The factory set point will be lost.

If the actuator tube was extended too far, beyond the mounting holes, set the actuator direction to the retract (-) setting as described above.



I. Turn key off to exit the manual mode.

J. Test machine for proper operation.

NOTE: If the actuator does not operate properly, the factory set point may have been lost. See **RESETTING THE ACTUATOR SET POINT.**

RESETTING THE ACTUATOR TO THE FACTORY SET POINT:

If the actuator set point is out of adjustment, carefully follow the below instructions.

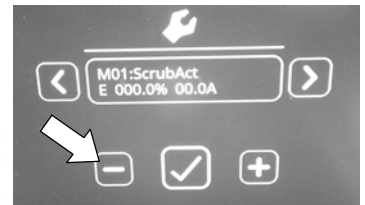
1. Remove the actuator from the machine, but leave the wire harness connected to the actuator.
2. Extend the actuator tube by turning it out by hand approximately 4 inches (10 cm) to allow clearance to retract.



3. Using the manual mode procedure as described in these installation instructions, select the (-) setting and fully retract the actuator until it stops. Allow the tube to spin freely.



Membrane Panel Model



Pro-Panel Model



4. To reset the factory set point, turn the tube completely inward by hand until it stops then outward approximately a half turn as shown.



5. Repeat the INSTALLING NEW ACTUATOR instructions.