



Actuator Replacement Kit

Models: T350, Speed Scrub 350



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

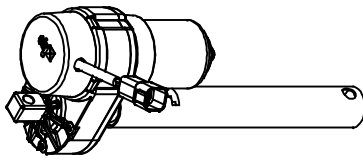
IMPORTANT: For proper actuator operation, carefully follow installation instructions as described below.

INSTALLATION INSTRUCTIONS:

Installation Time: 1 Hour

Special Tools Required: None

9040109 Kit Contents



Part No.	Description	Qty.
1222515	Actuator, 24VDC, 04.44Strk, 0600LB	1

REMOVING OLD ACTUATOR:

1. Empty the solution and recovery tanks.
2. Park machine on level surface.
3. Ensure a brush/pad is installed on scrub head.
4. Lower scrub head to floor, 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.

NOTE: If actuator is inoperable, you may need to lift the scrub head by hand to relieve the tension on the actuator clevis pins.

5. Make sure the key is in the off position.
6. Lift the recovery tank to access the actuator.

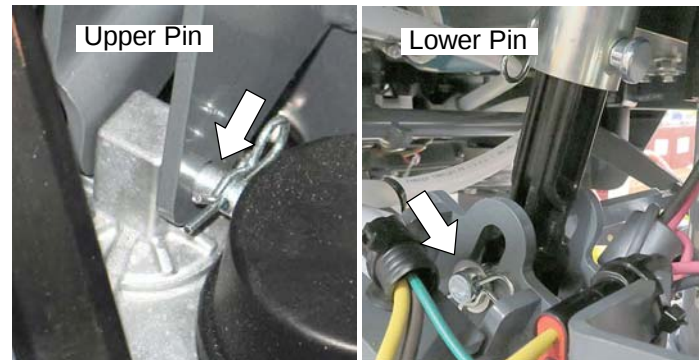


7. Disconnect the battery cable from the machine.

FOR SAFETY: Disconnect battery connection before working on machine.

8. Remove the upper and lower clevis pins from the actuator. Save hardware. Disconnect the actuator wire harness and discard the old actuator.

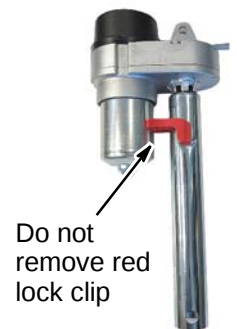
NOTE: It may be necessary to move other items to access actuator.



INSTALLING NEW ACTUATOR:

1. Connect the 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.



Do not remove red lock clip

2. Reconnect the wire harness to the new actuator.



3. Make sure the scrub head is laying flat on the floor.
4. Reconnect the battery cable.

5. **IMPORTANT STEP:** Use the machine's manual mode procedure 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 and turn the key switch to the ON position. Continue holding the 1- Step button until the BDI (battery discharge indicator) indicator lights illuminate



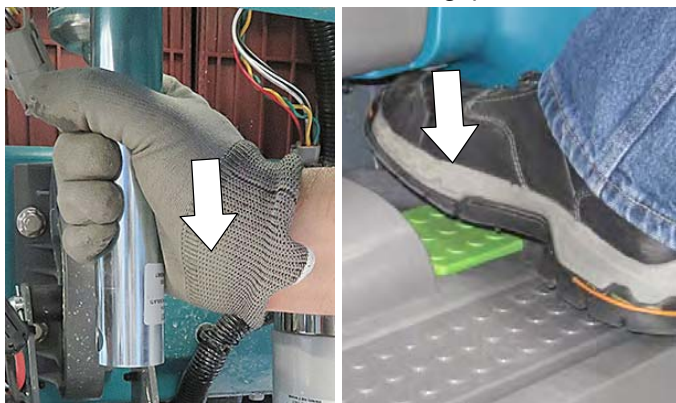
Confirm that the brush pressure light is at the (+) brush pressure setting as shown below. If the light is not at the (+) setting, press the brush pressure button.



- 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 step on the green pedal 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.

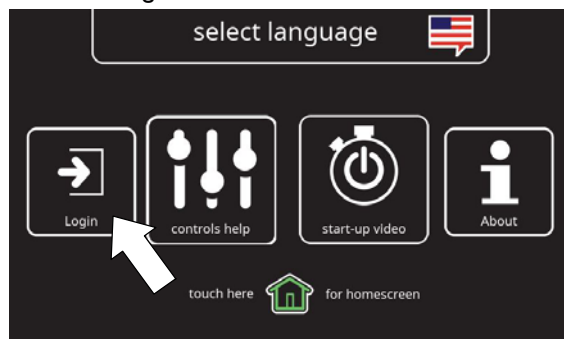
NOTE: If the actuator does not operate properly, the factory set point may have been lost. See **RESETTING THE ACTUATOR TO THE FACTORY SET POINT.**

Machines equipped with an LCD Pro- Panel:

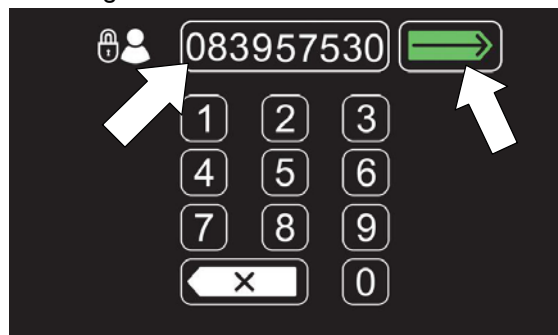
- A. To enter the manual mode, press the help button [?] on the help screen.



- B. Press the Login button.



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



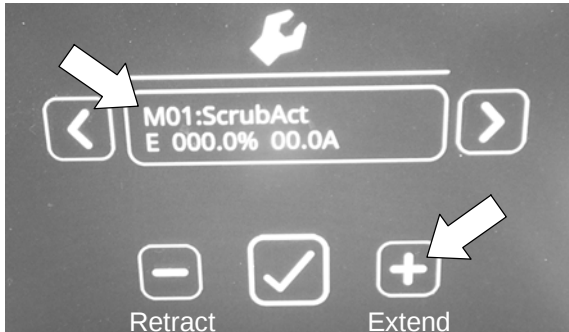
- D. Press the machine settings button.



- 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 TO THE FACTORY SET POINT.**

RESETTING THE ACTUATOR TO THE FACTORY SET POINT:

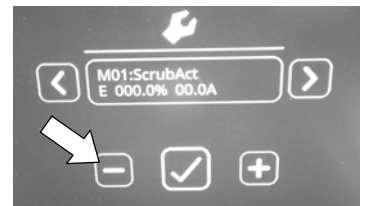
If the actuator becomes out of adjustment, carefully follow the below instructions.

1. Remove the actuator from the machine, but leave the wire harness connected to the actuator.
2. Extend the actuator tube by hand to allow clearance to retract the actuator for the next step.
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.

Do not allow actuator tube to come in contact with the actuator motor housing.



Membrane Panel Model



Pro-Panel Model



4. After the actuator is fully retracted, reset the factory set point by turning the tube by hand to the specified measurement shown (Figure 1).

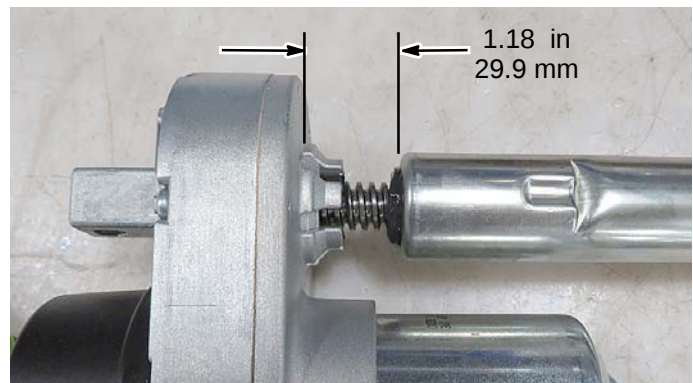


Fig. 1

5. Repeat the INSTALLING NEW ACTUATOR instructions.