

Replacing the Lift motor

This procedure calibrates the replacement lift motor prior to installation.

1. Set the treadmill circuit breaker to OFF.
2. Remove the hood.
3. Calibrate the replacement Lift Motor
 - a Disconnect the lift motor connector from the motor controller (MC) "LIFT" input port,

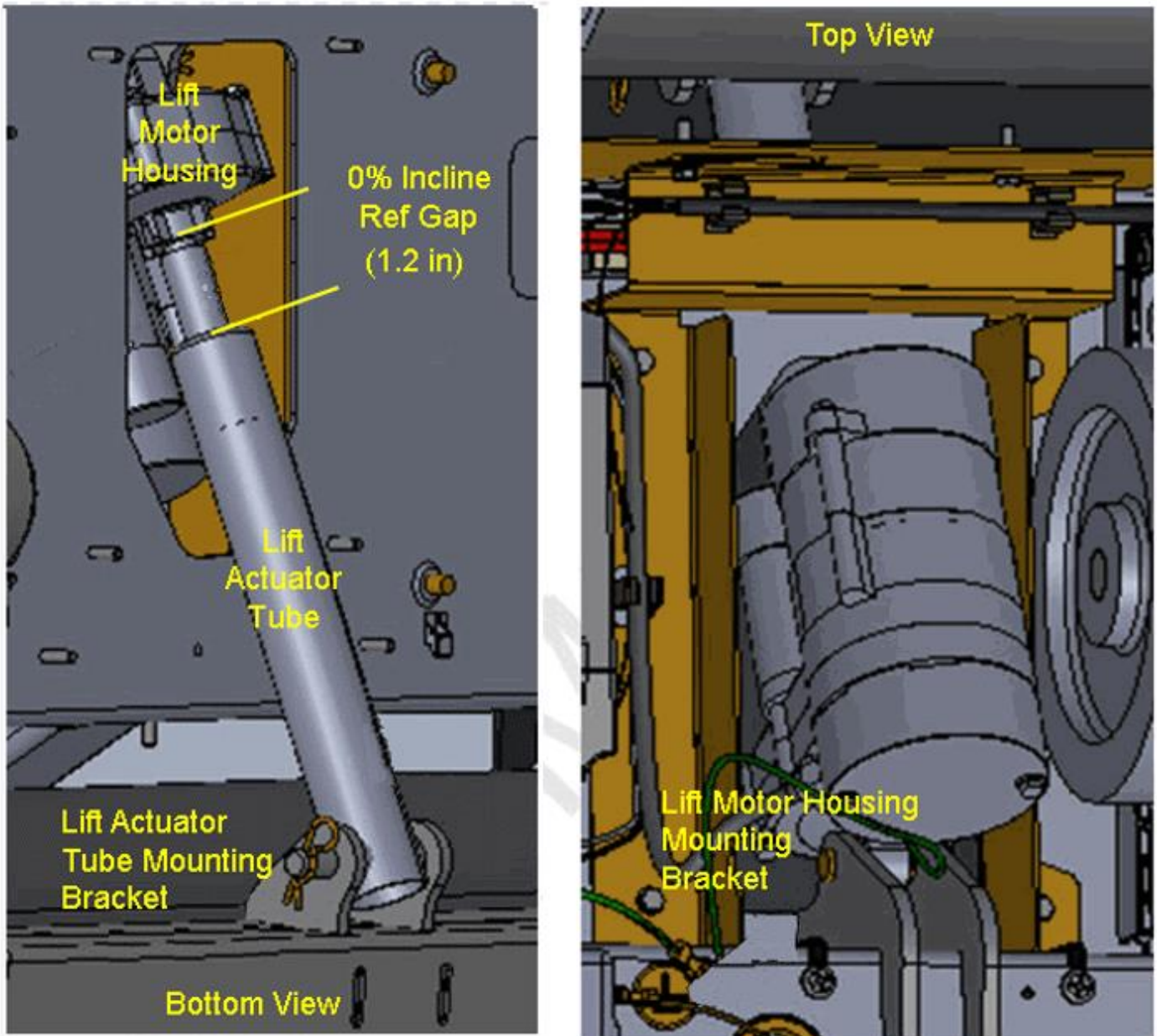
Tip: It may be easier to disconnect/connect the MC connectors by removing the MC from its mounting bracket and lifting to access the connections.

- b Lay the replacement lift motor on the floor in front of the treadmill with space to allow lift actuator jack screw movement up and down. Connect the lift motor connector to the MC "LIFT" input port.
 - c Set the treadmill circuit breaker to ON. The treadmill will begin to auto-calibrate the replacement lift motor to the home position (0% incline position).

Warning: Be aware that the lift motor actuator will begin to auto-calibrate causing movement to the lift motor actuator when power is applied to the treadmill.

- d Set the treadmill circuit breaker to OFF and disconnect the power cord. Disconnect the replacement lift motor connector from the MC "LIFT" input port.
 - e Set the lift actuator 0% incline reference gap to 1.2 inches as measured between the top of the lift actuator tube nut to the bottom of the lift motor actuator housing. Firmly hold the jack screw from turning while adjusting (turning) the lift actuator tube nut.

Figure 26: Replacing the Lft Motor



Access the lift motor mounting brackets. You can either 1) carefully lay the treadmill on its side or 2) remove the treadmill base weight from the lift platform by raising and securely resting the frame base onto blocks placed under the front corners of the frame.

4. Remove the defective lift motor:

- a Remove the green/yellow lift motor ground wire from the frame.
- b Remove the lift actuator tube from the lift platform, remove the hitch pin and clevis pin.
- c Remove the lift motor actuator housing from the frame mounting bracket. Grasp the lift motor and remove the lift motor housing mount hitch pin and clevis pin. Remove the lift motor from the treadmill.

5. Install the pre-calibrated replacement lift motor.

Note: Be careful to not allow the actuator tube nut to turn during the installation process. This will cause the actuator reference gap to change.

- a Set the lift motor housing mount into the base frame mounting bracket. Install the clevis pin and secure with the hitch pin.
- b Set the actuator tube into the lift platform mounting bracket. It may be necessary to slightly rotate the actuator tube to align the clevis pin mounting holes. Choose an adjustment direction that will minimize the change to the actuator tube reference gap distance. Firmly hold the jack screw from turning while adjusting (turning) the lift actuator tube nut.
- c Connect the frame ground wire to the treadmill frame. Securely tighten the mounting screw to ensure very good electrical connectivity.
- d Route the lift motor cable through the frame cable clip. Connect the lift motor cable connector to the MC "LIFT" input port.

5. Install the MC if it was removed.

6. Return the treadmill to upright position or remove support blocks.

7. Install the hood.

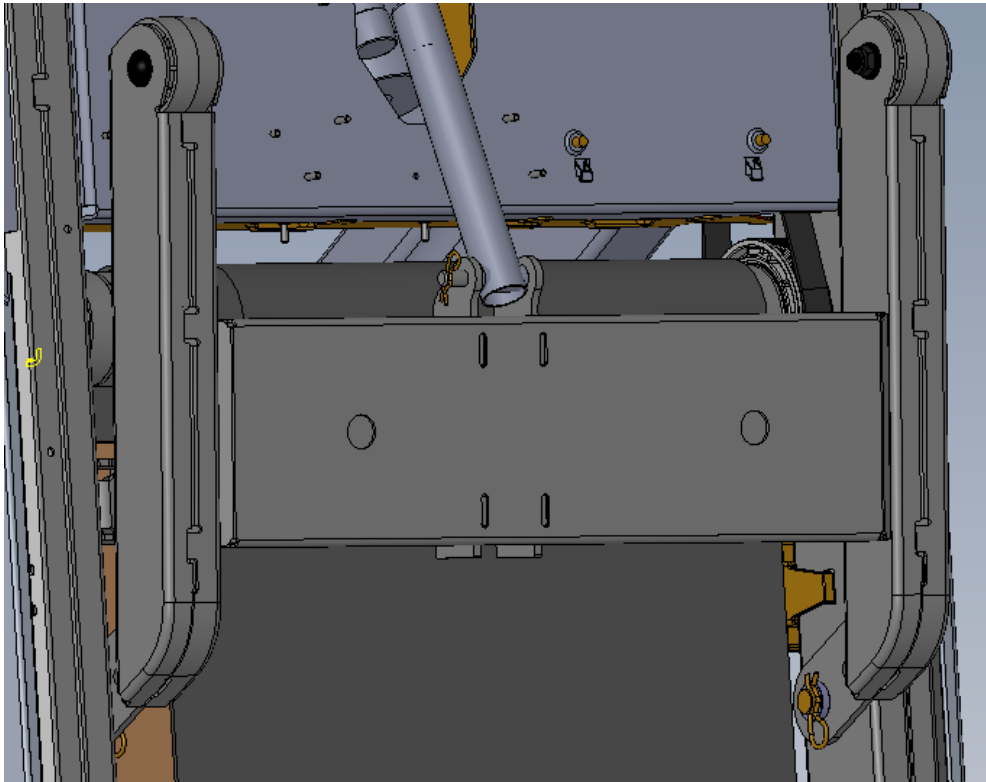
8. Connect the power cord and set the treadmill circuit breaker to ON.

9. Verify the treadmill incline function and return to service, see **Checking Treadmill Operation**.

Replacing the Incline Platform

1. Set the treadmill circuit breaker in the OFF position. Remove the AC line cord from the AC outlet.
2. Remove the hood, front corner trim, deck trim landings and the side trims.
3. Carefully, lay the treadmill on its side, or block it up to take the weight off of the lift platform.

Figure 27: Incline Platform Mounting



4. Remove the hitch pin and clevis pin that fastens the lift motor tube to the incline platform. While the incline tube is not fastened to the incline platform, care must be taken to not allow the incline tube to rotate. If the incline tube rotates, the lift motor must be calibrated per Procedure, [Calibrating the Lift motor](#).
5. Remove the two large hitch pins (one each side) from the incline platform to frame mounting. See Figure Below. Remove the incline platform mounting pins and remove the incline platform from the treadmill.
6. Remove the wheels from the old incline platform and remount them on the replacement incline platform.
7. Set the replacement incline platform into position and slide the incline mounting pins into place. Fasten the incline mounting pins with the hitch pins removed in step 4.
8. If the incline tube or the lift motor's drive screw has been moved, calibrate the lift motor per Procedure, [Calibrating the Lift motor](#), at this time.
9. Fasten the incline tube to the incline platform with the clevis pin and hitch pin removed in step 3.
10. Set the treadmill in its upright position, replace all covers and thoroughly check it per [Checking Treadmill Operation](#) (see "[Operation Verification](#)").

Replacing the Take-Up Roller

1. Set the treadmill circuit breaker in the off position and unplug the treadmill's line cord from the AC outlet.
2. Remove the hood and both Deck Trim Platforms.