

**Lift System: Problem Symptom Table**

M051-00K65-A003

SYMPTOM	POSSIBLE CAUSE	SECTION	PAGE
Lift Motor does not raise or lower unit.	Broken internal components in Lift Motor gear box (motor runs but ACME screw does not.	Replace Lift Motor.	LS 6
	Thermal cutout switch open due to overheating of Lift Motor.	Allow Lift Motor to cool for 15 minutes and confirm proper operation, Otherwise replace Lift Motor.	LS 6
	Broken/worn plastic nut on Lift Motor tube (ACME screw rotates but does not raise unit).	Replace Lift Motor.	LS 6
	Failed clevis pin or failed mounting bolt.	Replace mounting bolt or clevis pin.	LS 6
	Emergency stop switch is removed.	Install emergency stop switch.	
	Motor controller lift circuit failure.	Perform test on motor controller #4 and #5 LED and replace Lift Motor if LED's do not light up.	
Lift Motor does not raise unit.	Unit cannot find Home Switch due to improper installation which causes Lift Motor to bottom out before activating Home Switch.	Remove and re-install Lift Motor at proper extended length.	LS 6
	Home Switch not connected.	Connect Home Switch cable.	LS 9
	Faulty Home Switch.	When Home Switch is manually pressed the #9 LED on the controller should be ON. If not check cable and replace Home Switch if required.	LS 9

**Lift System: Problem Symptom Table**

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SYMPTOM	POSSIBLE CAUSE	SECTION	PAGE
Lift Motor operates intermittently.	Overheating of Lift Motor.	Replace Lift Motor.	<a href="#">LS 6</a>
	Broken internal components in Lift Motor gear box (ACME screw rotates intermittently while motor is running).	Allow Lift Motor to cool for 15 minutes and confirm proper operation, Otherwise replace Lift Motor.	<a href="#">LS 6</a>
	Failed clevis pin or mounting bolt causing Lift Motor to sit at an angle.	Inspect clevis pin and mounting bolt.	
Difficult to move unit with lift frame wheels.	Lift frame wheels flattened due to wear or broken or cracked.	Replace wheels.	

## Lift System: How To's

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### REMOVAL OF LIFT MOTOR

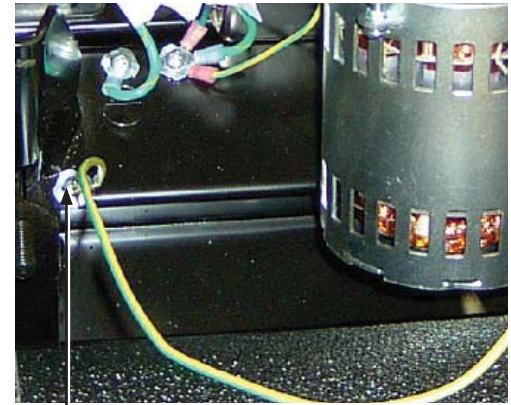
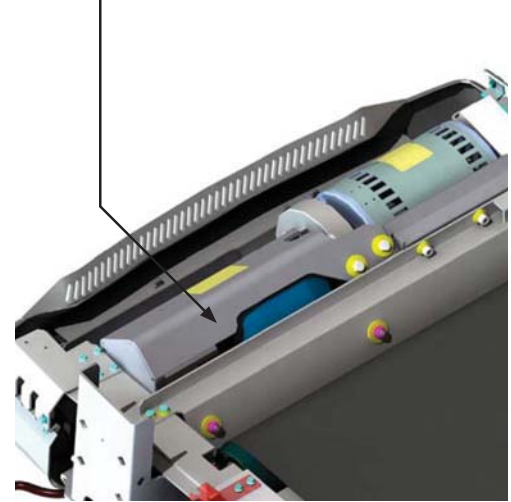
1. Turn the treadmill power switch off.
2. Unplug the line cord from the wall outlet.
3. Disconnect Lift Motor connector from motor controller.
4. Remove Frame Tie Bar (-01 and -02 models only).

**NOTE:** Do not remove any other frame brackets

5. Disconnect Lift Motor ground wire.
6. Turn unit on its side.

7. Remove Lift Motor lower pivot hardware.

Tie Bar on -01 and -02 models only



Ground Screw  
(12-18 in-lbs)  
[1.3-2 N-m]



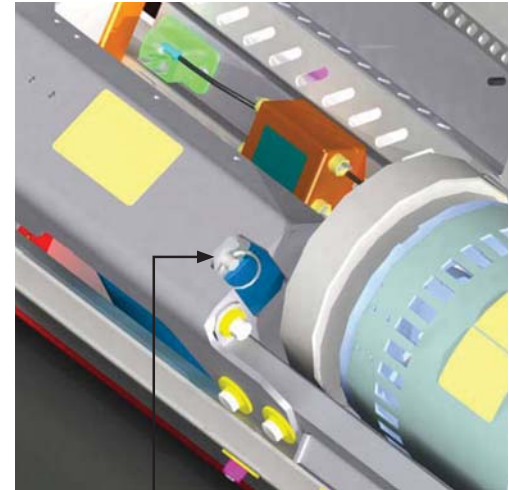
(4-8 ft-lbs)  
[5.4-10.8 N-m]

## Lift System: How To's

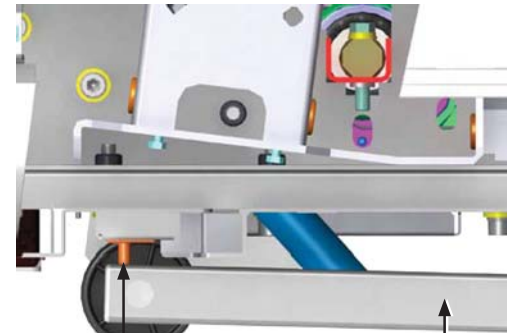
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8. Remove Clevis Pin. Remove Lift motor
9. Install new Lift Motor and hold in place with Clevis Pin.

10. Align hole in Lift Motor Tube with pivot hole in lift frame so that Home Switch is actuated. (Listen/feel for actuation of Home Switch)



Clevis Pin

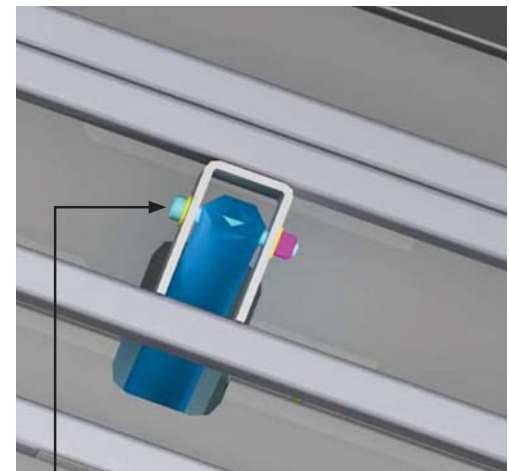


Home Switch

Lift Motor Lower Pivot

11. Install Lift Motor lower pivot hardware.
12. Turn unit upright.
13. Connect ground wire and plug in Lift Motor connector to motor controller.
14. Power up unit and test travel.
  - a) When unit is powered up, unit must find Home Switch and then stop.
  - b) Command 15% incline and wait until inclining stops. Depress Home Switch. Unit should incline momentarily and quickly stop. If this occurs, the Lift Motor has reached its internal limit switch and is operating properly. If unit does not incline momentarily implies that internal limit switch was reached before unit was able to reach 15% incline.

Go back to Step 10 and adjust Lift Motor tube pivot to lift frame pivot by turning Lift Motor tube clockwise and repeat above test steps.



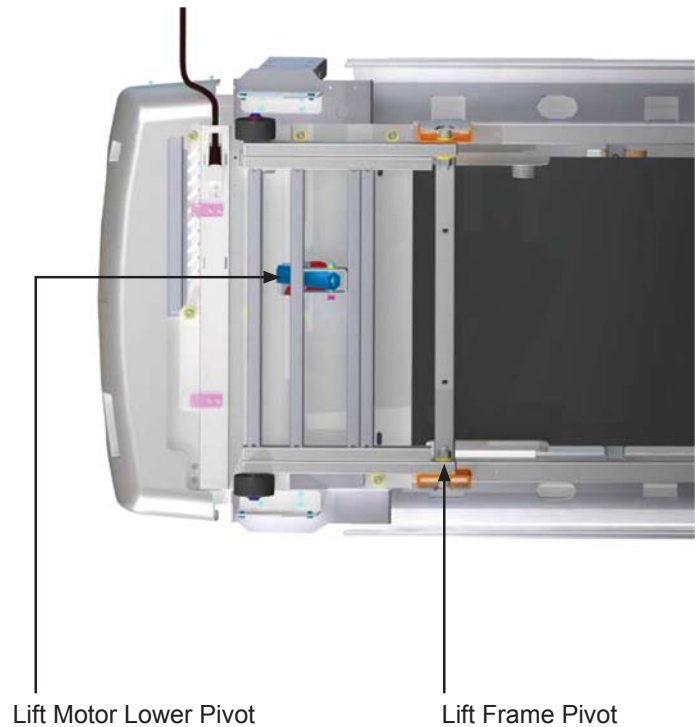
(4-8 ft-lbs)  
[5.4-10.8 N-m]

# Lift System: How To's

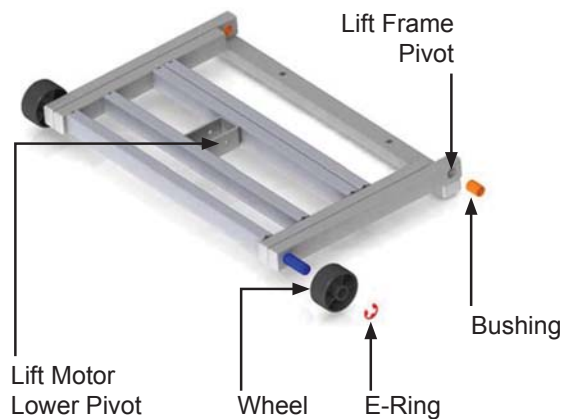
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## REMOVAL OF LIFT FRAME

1. Turn unit on its side and lay against upright frame.
2. Remove Lift Motor lower pivot hardware.
3. Remove Lift Frame pivot hardware.
4. Remove E-Ring to remove wheels.
5. Install new lift frame.



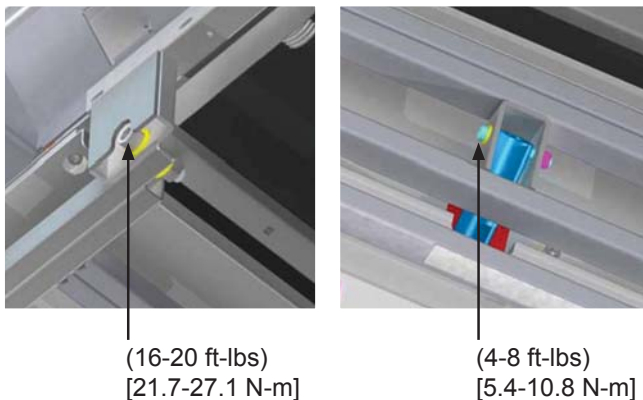
### Lift Frame for -01 and -02 Models



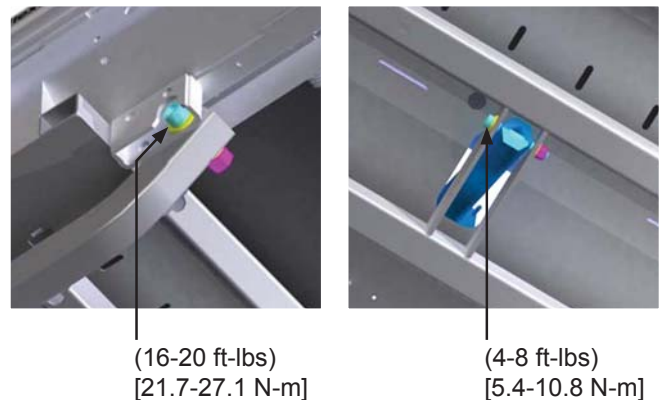
### Lift Frame for -03 and higher



### Lift Frame Pivot for -01 and -02 Models



### Lift Frame Pivot for -03 and higher

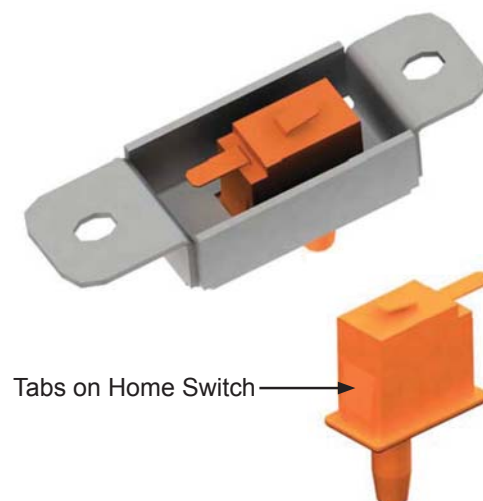
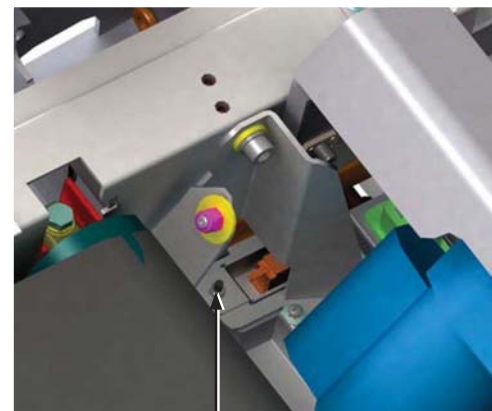
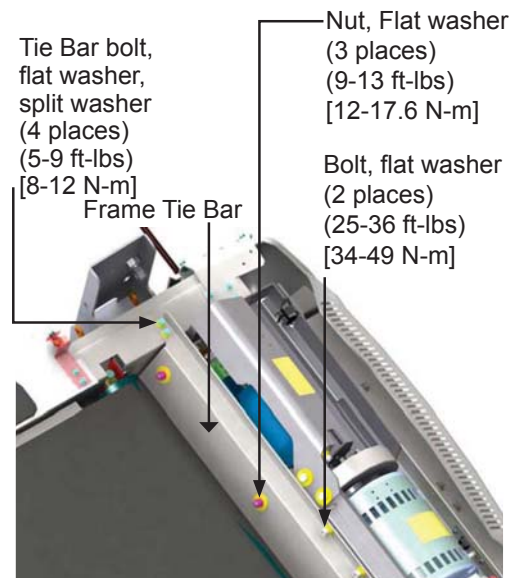


## Lift System: How To's

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### REMOVAL OF HOME SWITCH (FOR -01 AND -02 MODELS)

1. Operate incline and raise unit to 15 percent incline.
2. Turn the treadmill power switch off.
3. Unplug the line cord from the wall outlet.
4. Remove top motor cover.
5. Remove Frame Tie Bar.
6. Remove bracket with Home Switch.
7. Remove cable from Home Switch leads.
8. Remove Home Switch by pushing on tabs.
9. Install new Home Switch in bracket and connect cable to Home Switch leads.
10. Install Home Switch with bracket to treadmill frame
11. Install Frame Tie Bar.





**REMOVAL OF HOME SWITCH (FOR -03 AND HIGHER)**

1. Operate incline and raise unit to 15 percent incline.
2. Turn the treadmill power switch off.
3. Unplug the line cord from the wall outlet.
4. Remove top motor cover.
5. Disconnect cable from Home Switch leads.
6. Push on Home Switch tabs and push switch down and out to remove.
7. Install new Home Switch and connect cable.

