



5085 Corporate Exchange Blvd. S.E.  
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PN 4-090-03-1  
PN 4-090-03-1HD

## LEVITATOR AND HD LEVITATOR STIRRUPS - INSTRUCTIONS FOR USE

The Skytron Levitator stirrups and Heavy Duty (HD) Levitator stirrups are the standard for Lap Nissen, Urology, GYN, Endourology, Cystoscopy, and other procedures requiring low lithotomy, dual site exposure, or where intra-operative repositioning may be required. (Figure 1.)



**Figure 1. Skytron Levitator Stirrups**

The Skytron Levitator stirrups easily install on the table side rails, using standard rail clamps, and are easy to set up and adjust. They are designed to support a high patient weight capacity of 600 pounds (270 kg), for standard Levitator model, and 800 pounds (360 kg), for HD Levitator model.

### Typical Dimensions

Length: 42 inches (1067 mm)

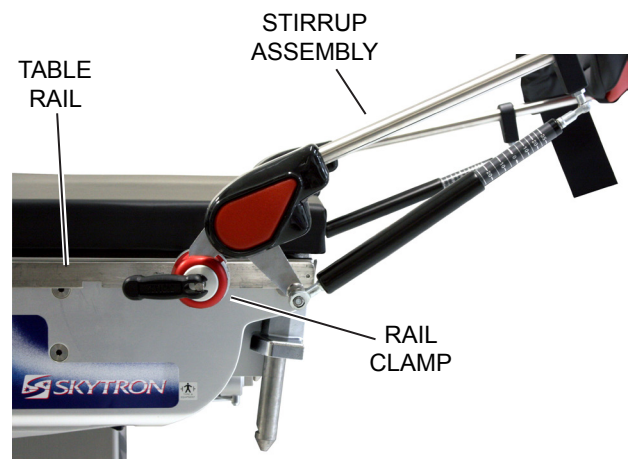
Weight: 15 pounds (6.8 kg)

### Installation



**Prior to setting up the levitator stirrups, assess the patient for any pre-existing conditions that might contradict the use of leg positioning devices (e.g., recent hip surgery).**

1. Mount each Levitator stirrup mount to the table side rails using a standard rail clamp (Figure 2).



**Figure 2. Mounting Levitator Stirrup**

2. Position rail clamps adjacent to the patients hip.
3. Insert the blade on the Levitator stirrup mount into the clamp.

### NOTICE

The boots are marked on the bottom for the patient's left and right.

- Once the stirrup is placed in the rail clamp, tighten handle securely.

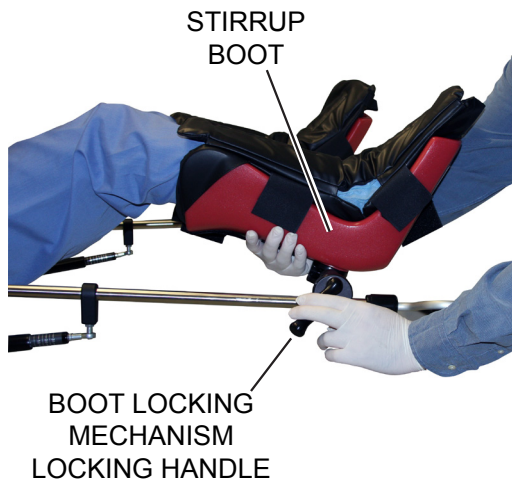


### WARNING

The rail clamp handle must be tightened securely before use.

### Positioning The Stirrups

- Turn locking handle counterclockwise to loosen boot locking mechanism (Figure 3).



**Figure 3. Pre-Positioning Stirrup**

- Slide boot along rod until top end (calf portion) of boot is located approximately at patient's mid-calf.
- Turn the locking handle clockwise to tighten boot locking mechanism securely.
- Repeat Steps 1 through 3 for the other stirrup.

- Turn the release handle clockwise (left stirrup) or counterclockwise (right stirrup) and move the stirrup down until it is level with the table (Figure 4).



**Figure 4. Leveling Stirrups**

- Turn the release handle in the opposite direction to secure the stirrup position.

### Positioning The Patient in Stirrups

- Ensure patient is positioned on surgical table in accordance with procedure and surgeon requirements.
- Pre-position stirrups boots by loosening the handle on the boot clamping mechanism and sliding the boot along the rod until the top end (calf portion) of the boot is approximately at the patient's mid calf. Tighten handle on boot clamping mechanism.
- Use two (2) staff members to position the patient in the stirrups:

### NOTICE

For larger patients, a padded arm shield can be used to protect the wrist, hand, and arm

- Support each of the patient's legs by grasping the heel in one hand and the underside of the knee with the other.
- Gently flex the knees and simultaneously transfer both legs into the boots.
- Ensure the patient's heels are securely seated in the heel of the boots.

7. Use the following general guidelines regarding proper initial leg flexion and abduction:
  - When using LOW LITHOTOMY, use extreme care not to hyperextend the leg while achieving desired abduction.
  - When using MEDIUM or HIGH LITHOTOMY, use minimal initial leg flexion and abduction as both will increase as the legs are raised.
  - The ankle, knee, and opposing shoulder should be maintained in a relatively straight line during positioning.
  - Notice that for a typical patient, the thigh and foot are abducted at approximately the same angle. (See Figure 5.)



**Figure 5. Thigh and Foot Abduction**

8. To fine tune boot position and flexion: Support boot heel with one hand and with the other, loosen locking handle on boot locking mechanism approximately 1/4 turn.

9. Use both hands to support and adjust boot to desired position.
10. Tighten locking handle on boot locking mechanism securely.
11. Perform a final check to ensure the patient's heels are properly seated in the heels of the boots and that there are no pressure points on the calf.

### **NOTICE**

The leg must be entered in the boot to eliminate pressure on the peroneal nerve.

12. Close boot pad.



### **WARNING**

**Additional positioning devices should be used when using the stirrup in Trendelenburg or reverse Trendelenburg table positions.**

### **Cleaning**



*Always follow the current Association of periOperative Registered Nurses (AORN) Journal Guidelines to make sure the proper cleaning and disinfection procedure is followed.*

After each use, clean the device. Clean and disinfect using a quarternary ammonium disinfecting/cleaning solution following the manufacturer's recommendation for achieving low-level disinfection. Read the cleaning product's directions and follow the instructions on the label.

Use caution in areas where fluid migration may occur (e.g., handles, side rail clamps).

Wipe device with a clean, dry cloth. Make sure the device is dry before reinstalling to avoid damage.

## Replacement Parts



## Replacement Parts List

Item	Part Number	Description	Quantity
1	4-090-03-7	Repair Kit, Boot Mount Kit	1
2	4-090-11	Handle, Boot Kit	1
3	4-090-03-15	Screw for Levitator	1
	4-090-03-17	Joint Parts for Levitators	1
	4-090-03-13	Clip	1
4	4-090-03-18	New Gas Cylinder for Levitator Stirrups	1
5	4-090-03-11	Repair Kit, Stirrup Assembly, Left	1
	4-090-03-12	Repair Kit, Stirrup Assembly, Right	1
6	4-090-07	Cover, Mount Pivot, Left	1
	4-090-08	Cover, Mount Pivot, Right	1
7	4-090-09	Red Cover, Left	1
	4-090-10	Red Cover, Right	1
8	4-090-03-L	Label, Levitator "Foot" - includes both right and left labels	1
9	4-090-03-V	Repair Kit, Velcro Hook, Levitator Stirrup Boot	1
10	4-090-03-14	Pads, Levitator Clamshell	1
	4-090-03-2HD	HD Levitator Replacement Pads w/ Straps	1
11	4-090-03-9	Repair Kit, Handle Assembly, Left	1
	4-090-03-10	Repair Kit, Handle Assembly, Right	1
12a	C-001950	Support Tube, Main, Yellowfin	1
12b	C-001954	Mount, ACTR, UPR, GLH	1
	C-001938	Setscrew, 5/16-18x1/4, Cup pt, Alloy	1
	C-001651	Setscrew, 5/16-18x1/2, Cone pt, Alloy	1



<b>Date</b>	<b>Revision</b>	<b>Revision History</b>
01/16/2016	0	Initial Release
03/09/2016	1	Added Levitator Stirrup Boot Velcro Hook Repair Kit item 19 and revised photo pages 4 & 5. Revised the document layout to match Skytron standards.
06/27/2016	2	Top header changed from "Levitator Stirrups" to "Levitator and HD Levitator Stirrups"  Product number PN 4-090-03-1HD added above the header.
12/02/2016	3	Pg 5 - Removed the upper stirrup repair kit part number 4-090-03-6 from the parts list and added the component parts of the repair kit.

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