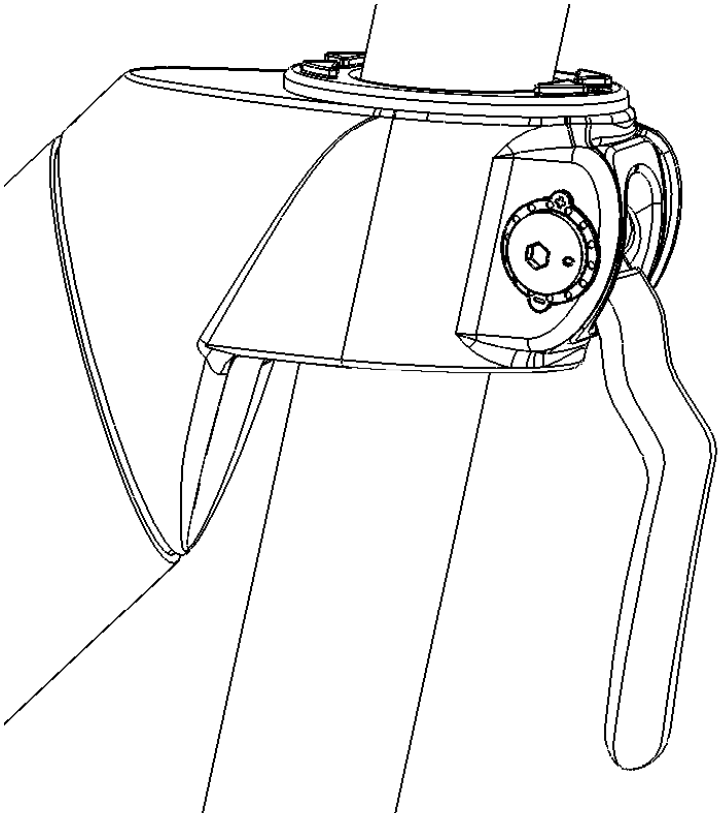
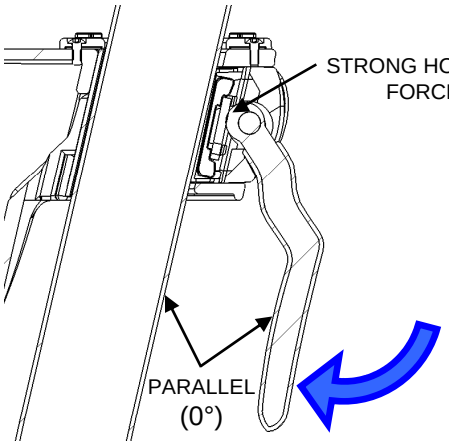
Cam Handle Service Guide



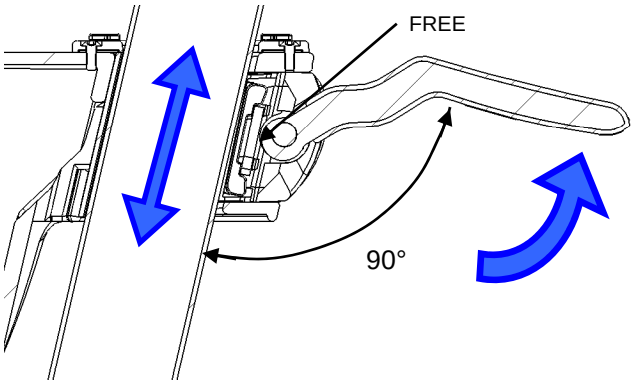
Document # 300142
Revision 01
07/22/2008

How the cam handle works

The head of the dipped handle has an eccentric surface. As the handle is pushed down, the head forces the post plunger assembly inwards. The post is clamped between the post plunger assembly and the post bearing. The post handle pin can be rotated to adjust the clamping force of the handle.

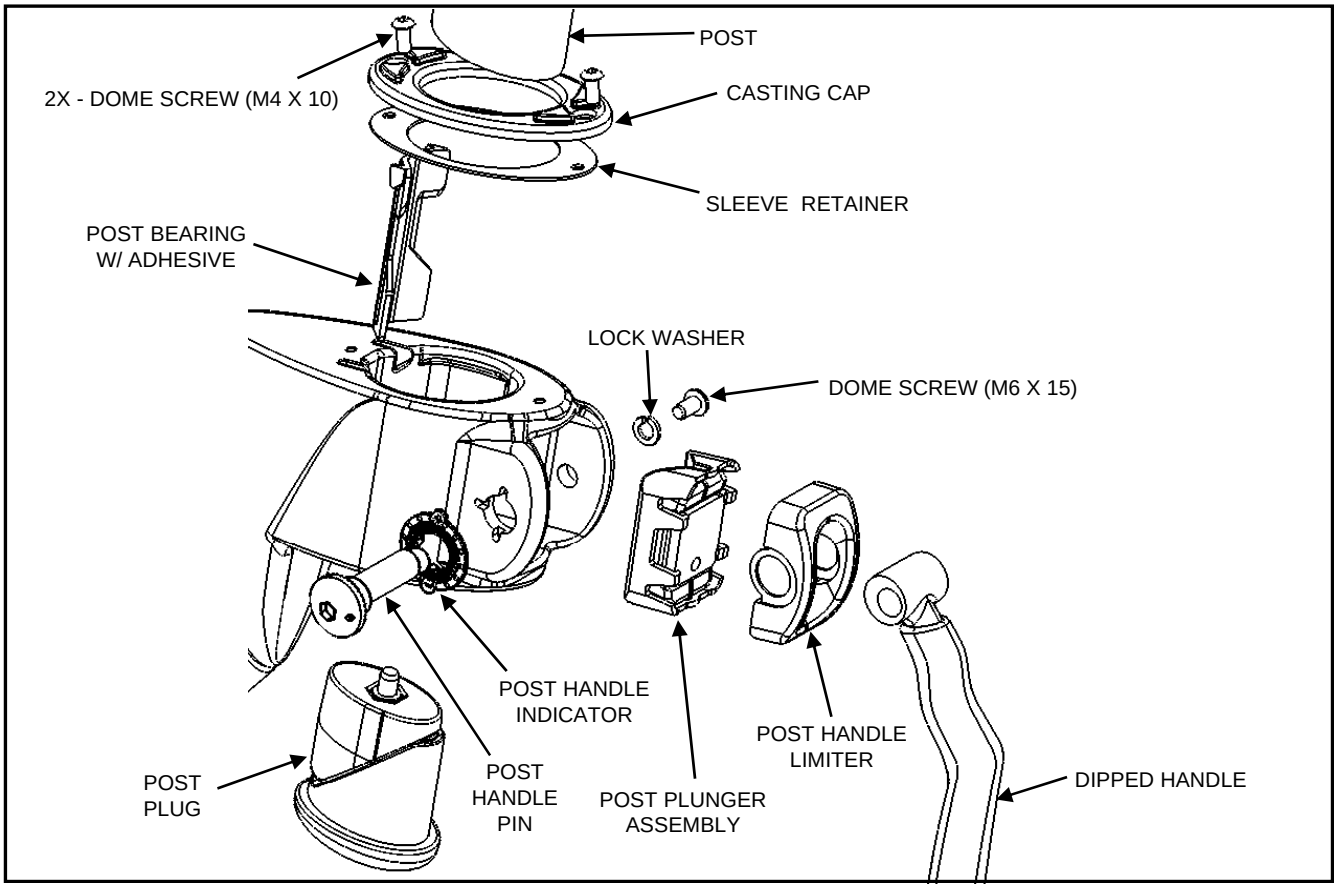


Fully down = locked position



Fully up = un-locked, able to slide post up and down

Parts breakdown **(same mechanism for both seat and handlebar clamps)**



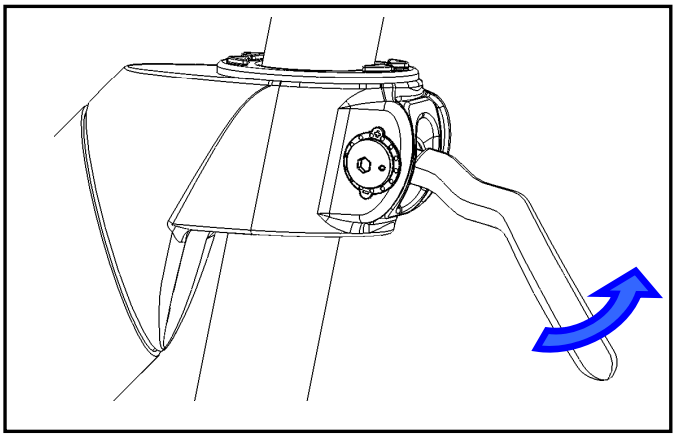
Troubleshooting guide

Symptom	Possible Cause	Solution
Post slips down with handle clamped down completely (0°)	Clamp force adjusted too light	Adjust (increase) clamp force (see pages 4-5)
Post slips down with handle clamped down completely (0°)	Broken or missing post bearing	Replace post bearing (see pages 8-9)
Post slips down and handle will not close completely	Clamp force adjusted too tight and clamp is not locking down	Adjust (decrease) clamp force (see pages 4-5)
Handle feels rough to open and close	Needs lubrication, excess wear on parts	Add grease, replace rough parts as necessary (see pages 6-7)
Grinding or squeaking sound from handle during opening and closing	Needs lubrication, excess wear on parts	Add grease, replace rough parts as necessary (see pages 6-7)
Clamping assembly loosens after several uses	Dome screw backs due to the post handle pin being rough and rotating with the handle.	Replace post handle pin, re-grease and reassemble (see pages 6-7)

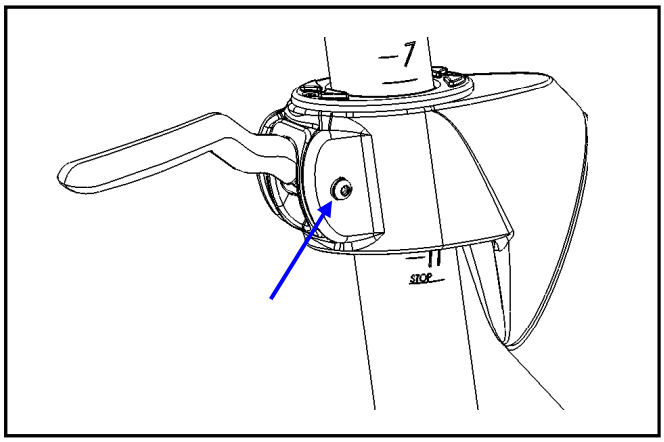
Adjusting handle clamping force

(From the factory the clamp should be set around 30-38 lbs to open and close)

1. Lift handle up (90°) to fully release clamping force.

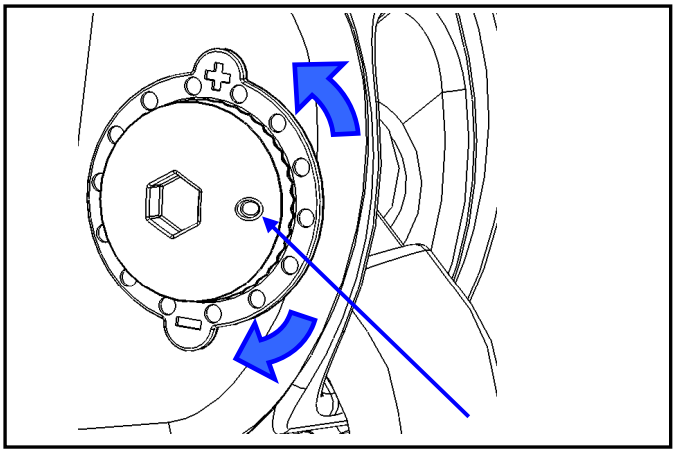


2. Using a 3mm hex wrench, loosen the M6x15 dome screw to free the post handle pin. Loosen the screw about 2-3 full turns, do not remove completely. Push on dome screw to disengage teeth on opposite side.

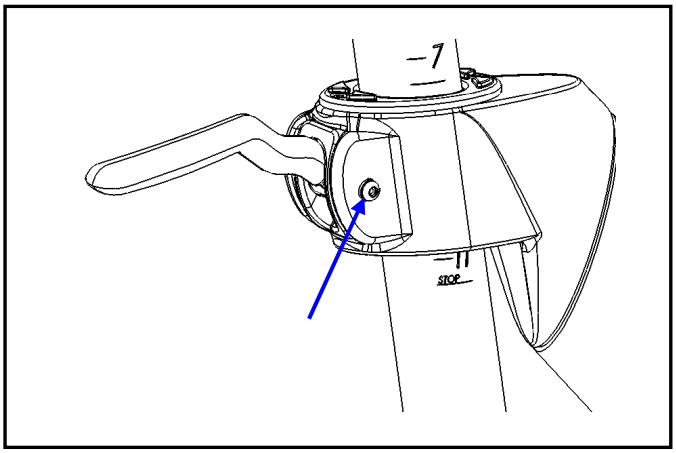


3. Using a 6mm hex wrench, turn the head of the post handle pin. Turn the indicator point on the head of the pin towards the plus sign to add clamp force, or towards the minus sign to remove clamp force. There are each tooth represents a change in clamp force.

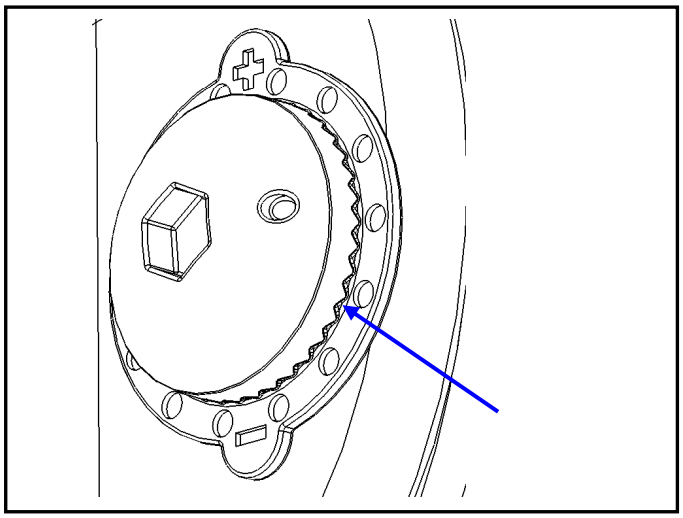
NOTE: Do not rotate head while teeth are still engaged.



4. Tighten the M6x15 dome screw to secure pin position.

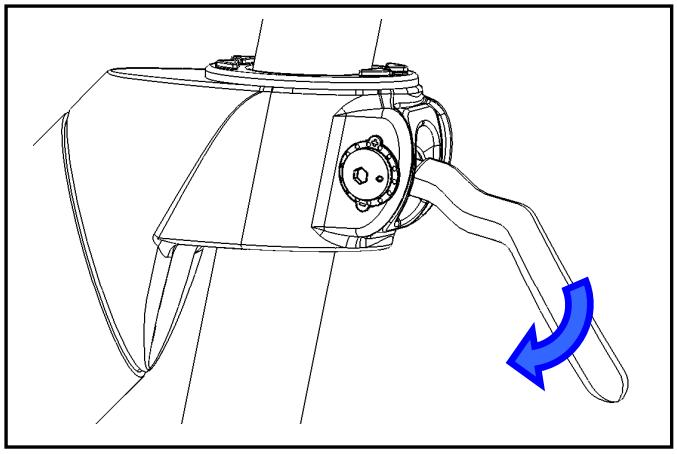


5. Be sure that teeth are fully engages to prevent the post handle pin from losing its position.



6. Test clamping force by closing handle. The clamp should be set strong enough to hold the user's weight, yet be easy enough for all users to close. Repeat steps 1-6 until desired clamp force is set.

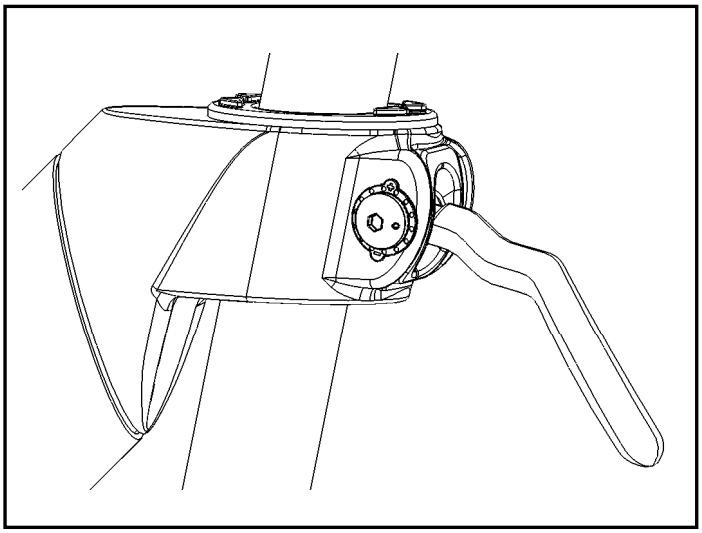
NOTE: Proper adjustment should require about 30-38 lbs of force to close handle.

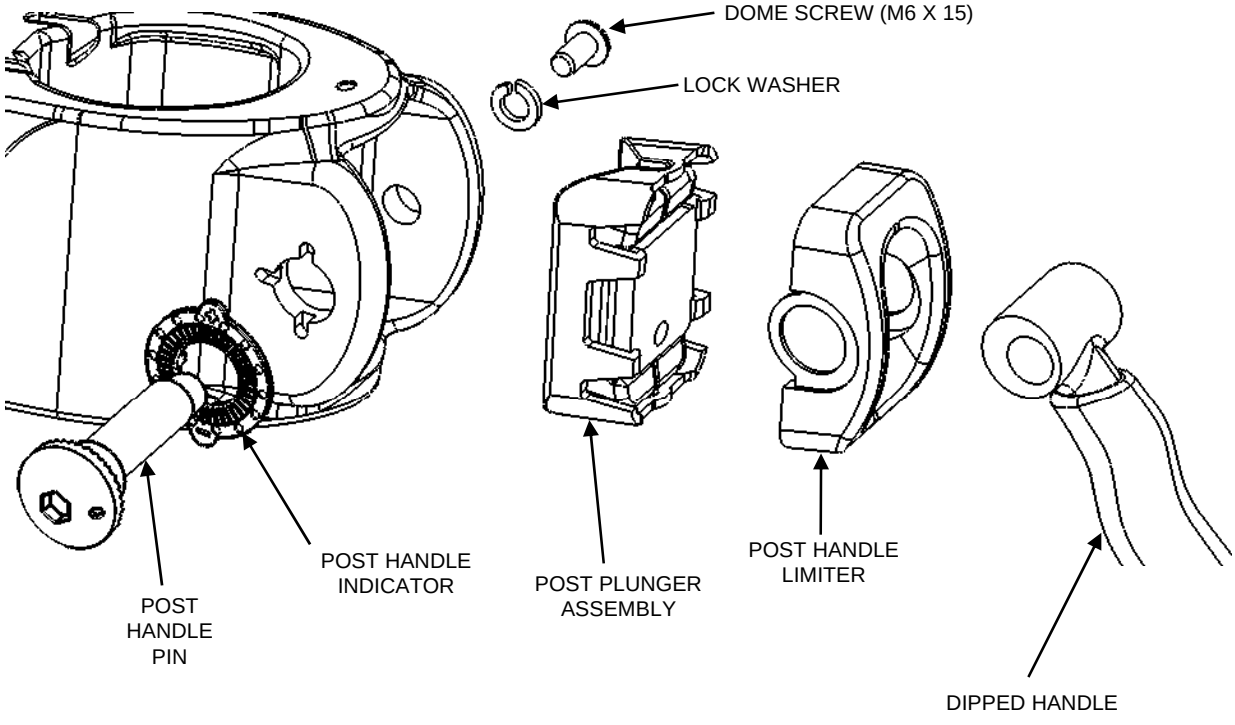


Replacing and re-greasing parts

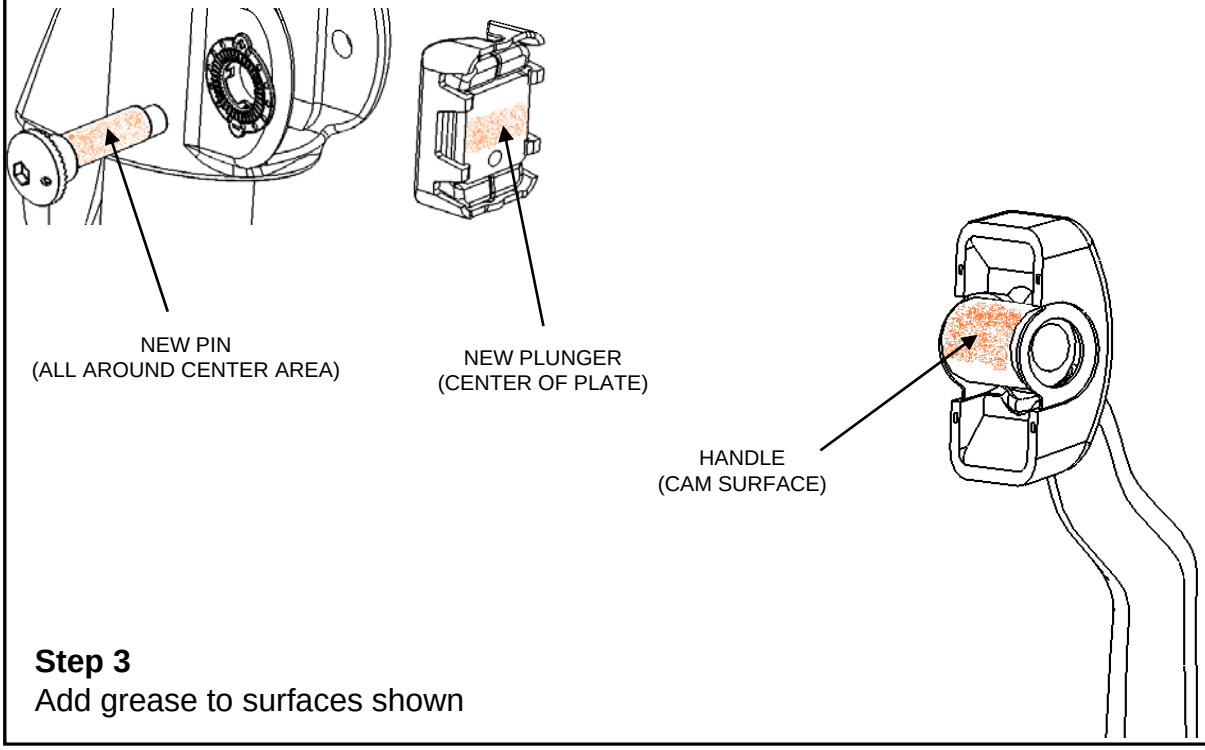
1. Disassemble handle assembly.

   Tools needed
   (1) 6mm hex,
   (1) 3mm hex

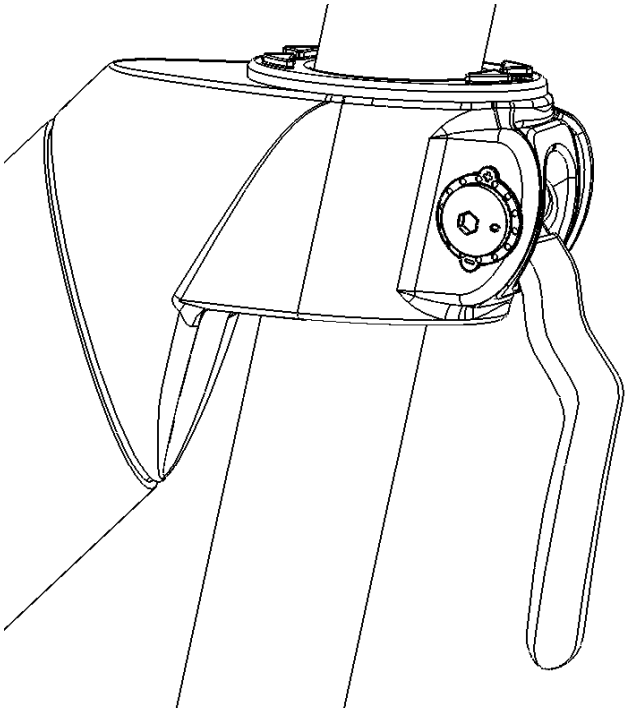




Step 2
Keep: handle indicator, handle, handle limiter
Replace: pin, plunger assembly, washer, fastener

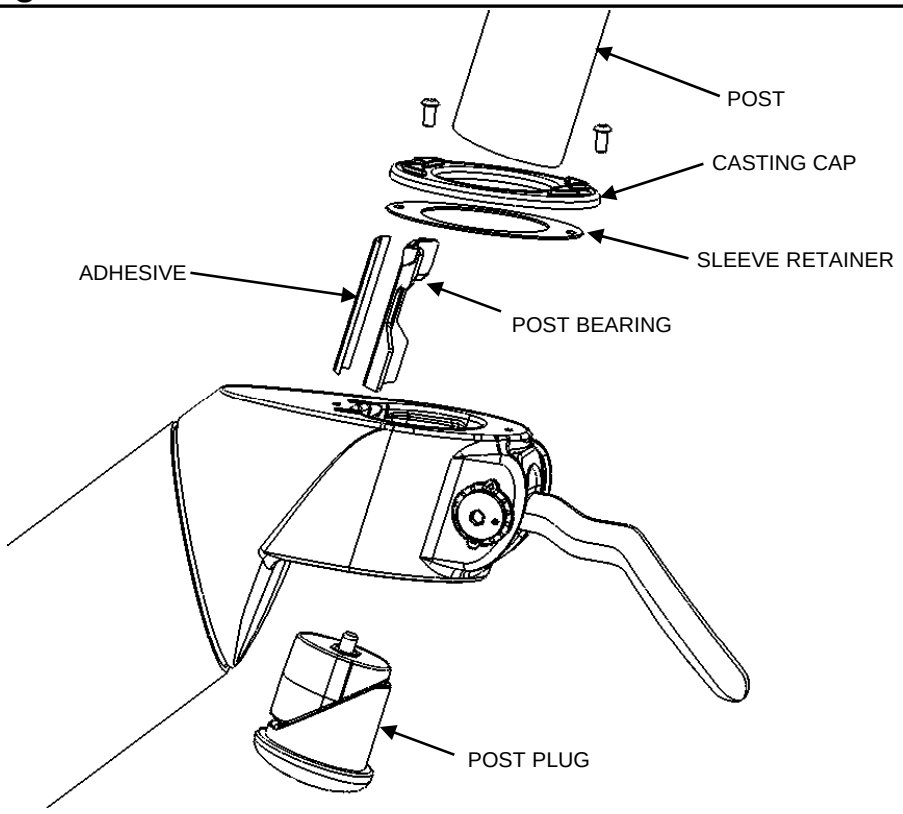


Step 3
Add grease to surfaces shown



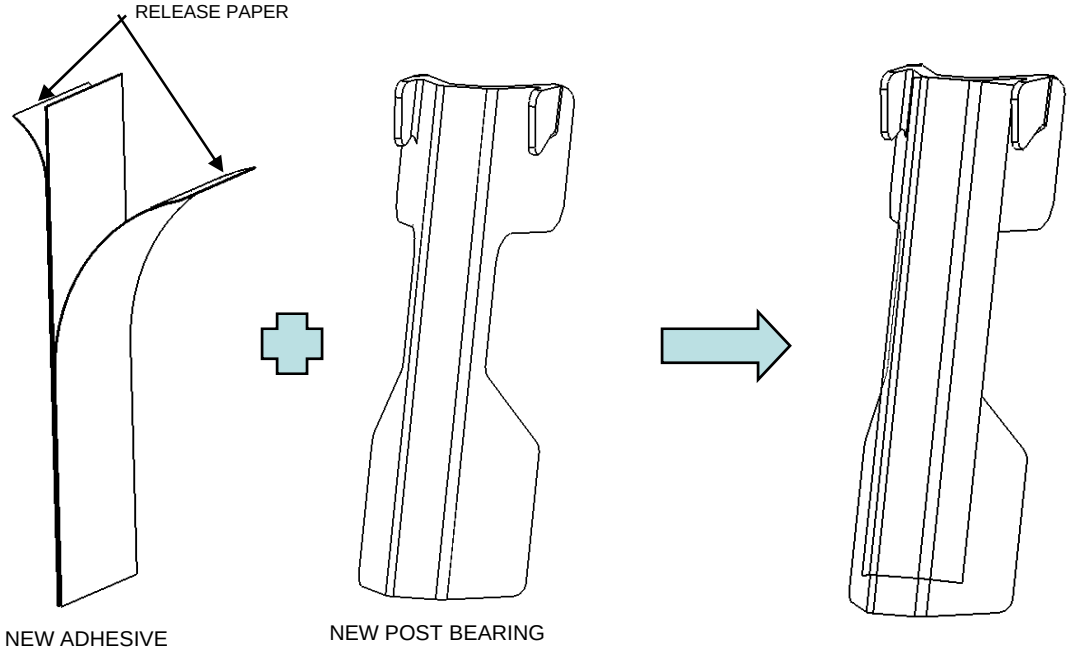
Step 4
Reassemble – set clamp force
as shown in pages 4-5.

Replace post bearings



Step 1 - Disassemble

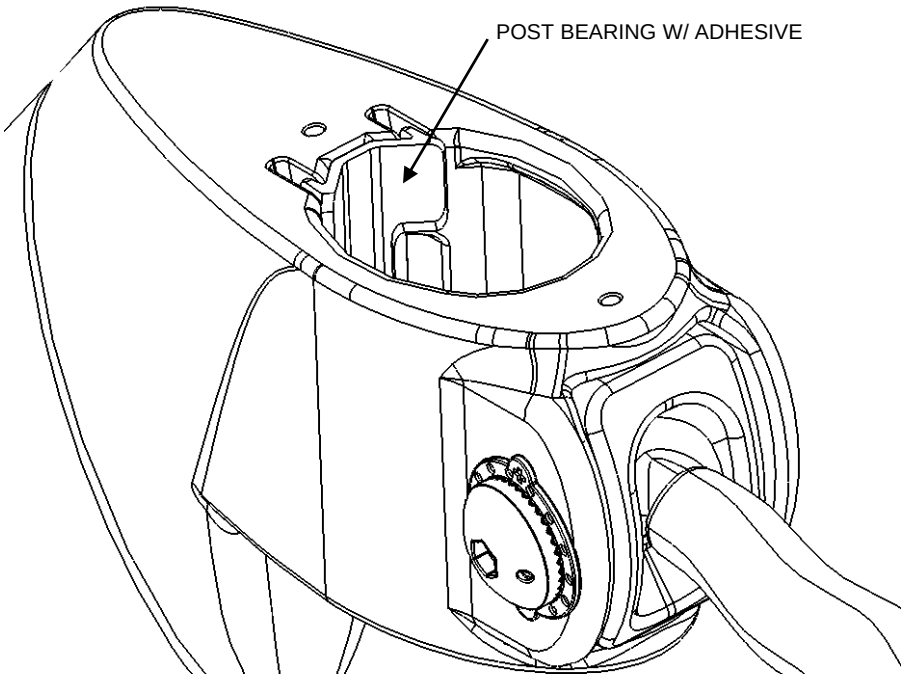
Undo post plug - Remove post - Remove cap and retainer – Discard old post bearing and adhesive



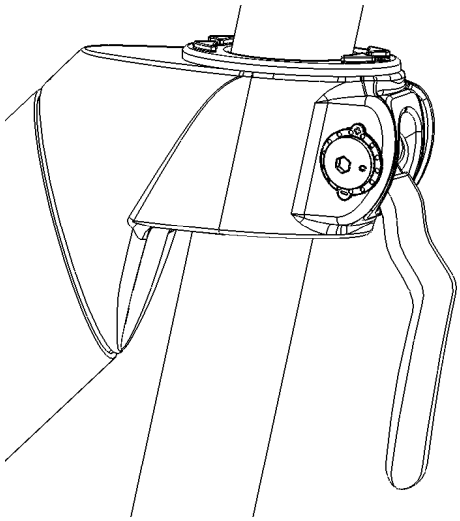
Note: the post bearing and adhesive for the handlebar are longer than for the seat

Step 2 – Prepare new post bearing

Remove release paper and apply new adhesive to the back of the new post bearing



Step 3 – Install new post bearing
Put new post bearing in aligning the tabs. Press bearing with adhesive against inside wall to secure in place.



(Steps 1-4 will be the same for both the seat and the handlebar post bearings)

Step 4 – Reassemble
Put parts back together, clamp force should be set from before but if needed, follow instructions on pages 4-5.