

Horizon 80mm and 100mm Maintenance and Service Guide



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Rescreen 80mm and 100mm

Rescreening

Top endcap – remove 2 screws



Bottom endcap – remove 2 screws



Top endcap – remove 1 rivet in backer



Top endcap – remove 2 screws



Rescreen 80mm and 100mm

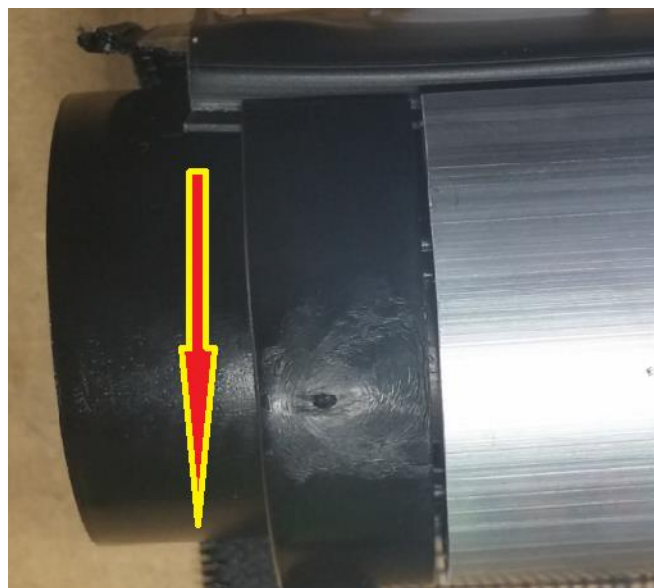
Remove: front housing, cap & spring
CAREFULLY it is under tension



*Match mesh spline to the roll tube



*Tip – Unroll existing mesh and line up new mesh the same way onto roller tube
Overlay the mesh equal amounts on each end of the roller tube



Rescreen 80mm and 100mm

Secure the tape and roll up the mesh with the existing tape



Place the spring in the upper endcap, re-attach the endcaps, and feed the mesh into the endcaps



Rescreen 80mm and 100mm

Replace the front cover by installing top and bottom screws, and the backer plate with a single screw (supplied by others)



Slide the pull bar onto the mesh spline then tighten the spring

Spring Turns 100mm Housings – CLOCKWISE TO TIGHTEN

Screening Tips – Factory recommended Spring turns, Phifer 18x14 mesh*

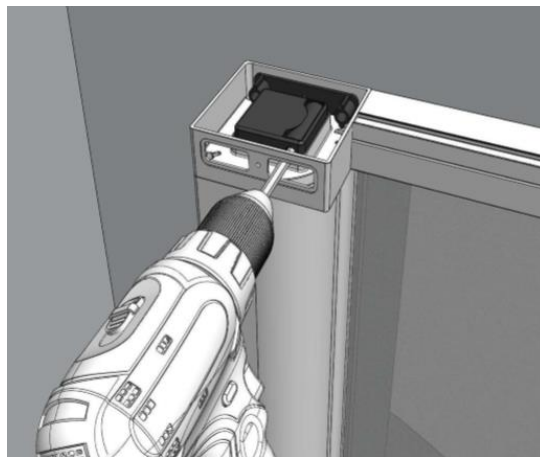
**Spring Tension should only be adjusted after checking install*

Factory Setting: 45 Turns on the Spring. Our Standard driver setting of LOW SPEED averages 11 turns on the spring in 30 Sec – wedge the handle open and pull screen out ½ way and start to wind, the pull bar will start to move as the spring winds. If the pull bar does not move there is likely a mis-alignment in the track or housing - STOP winding and check housing and tracks for plumb, level, square, track height

Horizon 100m

Width

Height	10	12	14	16	18	20
6	38	40	42	44	46	48
8	40	42	44	46	48	50
10	42	44	46	48	50	52
11	43	45	47	49	51	53



Do not rotate at full speed of drill as this will cause gears to overheat. Use low gear on drill. Caution: Do not over tension! Never apply more than 100 turns to the Spring. 20:1 gear ratio (20 turns on gearbox = 1 on spring)

Spring Turns 80mm Housings – CLOCKWISE TO TIGHTEN

Screening Tips – Factory recommended Spring turns, Phifer 18x14 mesh*

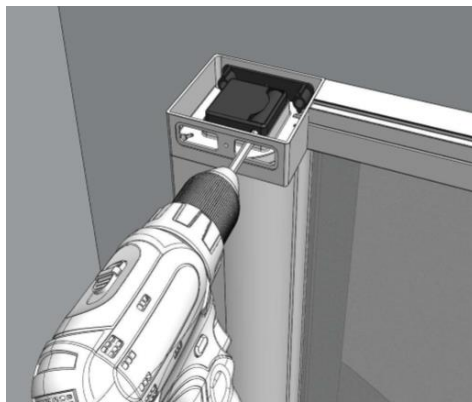
**Spring Tension should only be adjusted after checking install*

Factory Setting: 45 Turns on the Spring. Our Standard driver setting of LOW SPEED averages 11 turns on the spring in 30 Sec – wedge the handle open and pull screen out ½ way and start to wind, the pull bar will start to move as the spring winds. If the pull bar does not move there is likely a mis-alignment in the track or housing - STOP winding and check housing and tracks for plumb, level, square, track height

Horizon 80mm

Width

Height	4	6	8	10	12	14
6	30	34	36	38	40	42
8	34	36	38	40	42	44
10	36	38	40	42	44	46
11	37	39	41	43	45	47



Do not rotate at full speed of drill as this will cause gears to overheat. Use low gear on drill. Caution: Do not over tension! Never apply more than 100 turns to the Spring. 20:1 gear ratio (20 turns on gearbox = 1 on spring)

Rescreen 80mm and 100mm

To inspect/replace gearbox (located in the top endcap), remove top cap on gearbox, if gears are damaged undo the 4 screws in the gearbox

Spring Replacement: Follow instructions to rescreen as above and when the spring is removed from the gearbox in the top endcap, replace with the new spring and proceed to reassemble and wind spring

Remove backer plate

Remove cap & spring

Replace spring

Install cap

Wind spring

Gearbox Replacement: Follow instructions to rescreen and when the spring is removed from the gearbox in the top endcap, remove the top cover on the gearbox, and undo the 4 screws holding it in place. Replace with the new gearbox, insert the spring and proceed to reassemble and wind spring

Remove backer plate

Remove cap & spring

Replace gearbox

Install cap

Wind spring

Pullbar difficult to move, won't retract back to housing

Check the housing(s) are plumb – front to back, left to right, and sitting flat on the bottom

Check the gap in housing is not pinching the mesh

Check the tracks are level (left to right and front to back), flat and straight, with no humps

Check the upper and lower track are screwed into place

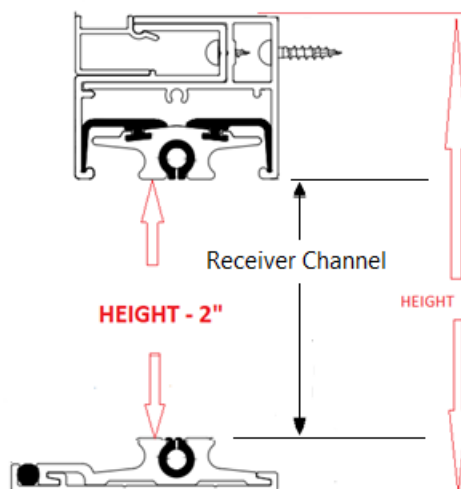
Check the top and bottom tracks are tight to the housing, and correctly seated in position

Check that there is vertical play in the pullbar

If there is no vertical play in the pullbar, check tracks are aligned and positioned correctly by using the receiver channel or as detailed below.

*Checking that tracks are spaced correctly either by using the provided receiver channel, or a measuring gauge to ensure the gap between the "Bottom of the Top track and the Top of the bottom track is **2" less than the height of the housing***

Apply Dry Silicon to the tracks



Pullbar difficult to move, won't retract back to housing

If the Pullbar won't retract all the way back to the housing or mesh is "bunching" up it is likely due to stress on the housing during installation (when operating the screen, it is also typically louder). Remove the front housing cover only.

Top endcap – remove 2 screws Bottom endcap – remove 2 screws



Lower Track Spline on left, cut to fit



Locate small spline in the channel



Adjusting Brake rods

To release the brake rods on doors with mohair on the pullbar (standard on single doors, magnets are standard on the double door pull bars)

Remove the handle cover plate - insert a flat head screwdriver around the mohair to unclip



Unscrew the 2 small 2mm Allen screws (one on each side, one at the bottom and one at the top)

With the handle released, before tightening the 2mm Allen screws, position the lower set screw is as low as possible in the channel – then tighten the screw. Repeat on the other side on the upper set screw, making sure that it is as high as possible in the channel – then tighten the set screw

Replacing Pullbar end caps

Remove the handle cover plate - insert a flat head screwdriver around the mohair to unclip



Unscrew the 2 small 2mm Allen screws (one on each side, one at the bottom and one at the top)



Unscrew and remove the endcaps from the pull bar – 4 screws on each end



Replacing Pullbar end caps

Remove the 8 screws that fasten the handle to the Pullbar, 4 on the top and 4 on the bottom and separate the handle from the Pullbar



To rebuild, hook the brake rod onto the Pullbar endcap, insert the endcap into the handle and re-fasten the 4 screws on one end of the Pullbar



Replacing Pullbar end caps

A) Brake rod projects out the other end of the Pullbar, feed the brake rod it the slot in the handle, make sure the brake rod is located in the slot with the screw – do not tighten the 2mm Allen screw

B) Insert the handle into the Pullbar

C) Fasten the 4 screws to connect the handle and Pullbar

A



B



C



Repeat with the other Pullbar end cap

Release the handle, position the lower set screw is as low as possible in the channel before tighten the 2mm Allen screw, tighten the screw, both sides then replace the covers



With a flat head screwdriver, gently remove the handle cover plate - insert a flat head screwdriver around the mohair to unclip



Release the 2mm Allen set screws in the handle – 1 on each side, 1 on the top side, 1 on the bottom side



Remove the 4 screws from each Pullbar endcap, and pull out the endcap



Remove the 8 screws that fasten the handle to the Pullbar, 4 on the top and 4 on the bottom and separate the handle from the Pullbar



To rebuild, hook the brake rod onto the Pullbar endcap, insert the endcap into the and fasten the 4 screws on one end of the Pullbar



The brake rod will project out the other end of the Pullbar

A) feed the brake rod it the slot in the handle – do not tighten the 2mm Allen screw

B) Insert the handle into the Pullbar

C) Fasten the 4 screws to connect the handle and Pullbar

A



B



C



Repeat with the other Pullbar end cap

With the handle released, before tightening the 2mm Allen screws, position the lower set screw is as low as possible in the channel – then tighten the screw.



Replace the cover

Magnet not holding

Single doors: Standard configuration does not have magnets

Optional magnets: check that the magnets are correctly aligned between the Pullbar and receiver channel, and that one is not installed upside down

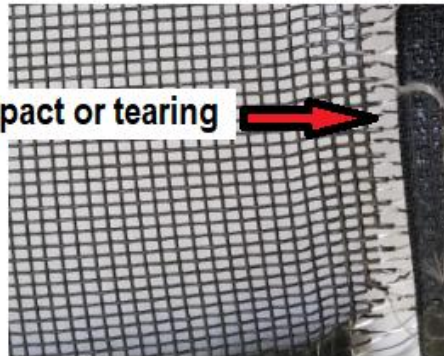
Double doors: Standard configuration has magnets on both pull bars and brake latches on the top (optional to have brake latches on the bottom)

Check that brake latches are installed at the track or corner joiners on the top

Check that the magnets are correctly aligned between the Pullbar and receiver channel, and that one is not installed upside down

Mesh damage

Mesh damaged by impact or tearing



Weld failure clean, straight mesh

