



Brain Service Manual: Squeegees

1. Left & Right Side Squeegees (Side skirts)
 - A. Installation / Replacement
 - B. Adjustment of Height & Deflection
 - C. Double-squeegee
2. Rear Squeegee Assembly
3. Maintenance & Inspection

1. Left & Right Side Squeegees

A. Installation / Replacement

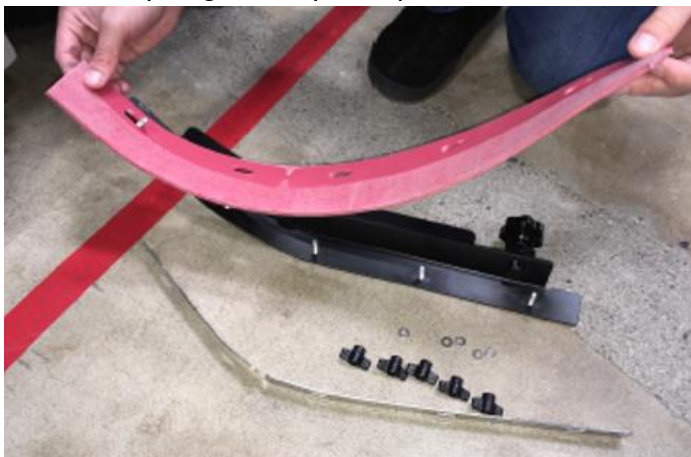
Flip or Replace the Side Squeegees. Loosen the knobs to the side skirt squeegee assembly and remove it from the scrub deck



Use the thumb screws to unscrew the metal plate that attaches the squeegee to the assembly



Remove squeegee to flip or replace



Repeat steps in reverse to reattach squeegee

B. Adjustment of Height & Deflection

Adjust Height of Side Squeegees

1. The height of the side skirt squeegees can be adjusted by loosening and tightening the knobs.
2. Remember to adjust both the top and bottom knobs to adjust the height.



Optimal Squeegee Deflection: 12mm (<0.50in)



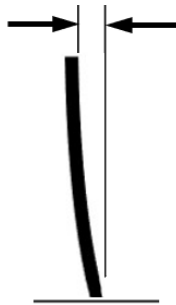
Note optimal squeegee contact point on one corner only, like a windshield wiper or record player needle. This will channel water correctly.

Look at the amount of deflection or "curl" of the squeegee blade. The correct amount of deflection is 12mm (0.50in). There should be $\frac{1}{2}$ " - $\frac{3}{4}$ " deflection from vertical.

Validating Squeegee Tension:

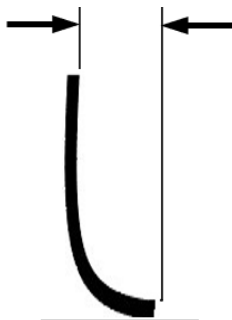
With the deck down, pushing against the side squeegees with a finger every few inches across the entire span, there should be tension all around and you should not be able to deflect them easily.

Not enough deflection: <12mm (<0.50in)



A squeegee with not enough deflection is more likely to skip or stutter across the floor surface and not channel water correctly.

Too much deflection: >12mm (>0.50in)



A squeegee which has rolled over and is scraping along its side will just smear water, and not channel it where it needs to go.

C. Double Squeegee

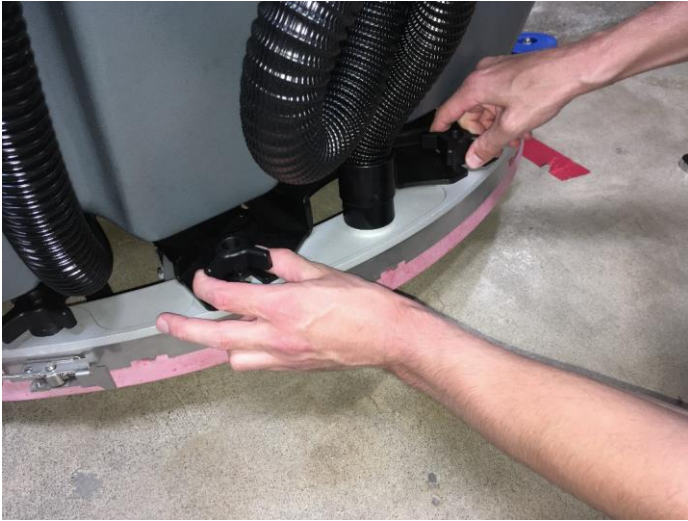
- If a single side-squeegee is leaving water behind, implement a two-squeegee setup.
- Retain all washers and thumbscrews on disassembly.
- Install a red **Linatex** squeegee first, as the outside squeegee.
- Install a blue **PRIMOthane** squeegee second to be the inner squeegee.
- On re-assembly, do not overtighten thumbscrews. Squeegees should not bulge at upper edge.
- Re-mount the squeegee assembly and adjust for optimal height per above.



2. Rear Squeegee Assembly

Flip or Replace Rear Vacuum Squeegees

Loosen the fasteners that hold the squeegee assembly in place and remove the squeegee assembly.



Remove vacuum hose from squeegee assembly.



To flip or replace the back squeegee blade, release the spring clip (left) and remove the metal blade from the squeegee assembly.



Remove the squeegee blade to flip or replace.



Completely remove all 4 fasteners from the assembly.



Remove bottom metal bracket to access the squeegee blade.



Repeat steps in reverse to reassemble the squeegee assembly.

Daily Maintenance

Scrubber Part	Action	Photos	
Batteries	Ensure scrubber batteries are fully charged		
Connectivity	Check for connection to 'Robot Operations Center' (ROC)		
Side and rear squeegees	Check for: 1. Damage and wear 2. Height 3. Leveling 4. Deflection	Side 	Rear 
LIDAR lenses (Upper and Lower)	Clean with microfiber cloth	Slanted LIDAR 	Planar/Horizontal LIDAR 
Front facing camera lenses	Clean with microfiber cloth	Front cameras 	
Side and down-facing camera lenses	Clean with microfiber cloth	Left side 	Right side 
Scrub brushes / pads	Check for damage, wear, debris		

Recovery Tank	Rinse / Clean 1. Tank (drain via right hose, back of unit) 2. Vacuum fan filter 3. Internal Float Sensor (in tank, under vacuum fan filter) 4. Recovery Tank Debris Tray			
Vacuum fan filter	Check for and shake out any solid matter			
Recovery Tank Debris Tray	Clean			
Vacuum Hose	1. Disconnect at bottom to inspect for any clogs. 2. Rinse out any solid matter by flushing with water through vacuum hose port <i>inside</i> the recovery tank 3. Be sure to re-connect hose			
Entire machine	Wipe down unit with a damp cloth. Do NOT hose it down as electronics could be damaged.			

Weekly Maintenance

Scrubber Part	Action	Photos	
Red battery cables	Disconnect for 2-3 minutes to perform hard reset of scrubber		
Scrub brushes / pads	Change or flip pads every 7-8 days		
Side and rear squeegees	Flip squeegees: - Side: Flip front to back - Rear vac: Turn over	Side 	Rear 
Fresh water solution tank and filter	1. Rinse any remaining soap from the fresh water tank weekly. 2. Flush / drain via left rear hose. 3. Unscrew and remove filter weekly. Rinse out.		
Vacuum fan filter	Clean. Ensure the filter has dried thoroughly before returning it to use.		

Monthly Maintenance

Rear squeegees

Replace rear
squeegees
monthly

