

OPERATION MANUAL AND PARTS LIST

HARD SURFACE TOOL

NSS PART #4091341



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Important Safety Instructions

Intended Use

This product is intended to be used with the Rally 1200 hard surface cleaning machine for cleaning floors. This tool may be used with other equipment. See instructions in this document for use with other equipment.

For Safety

- Always read and understand all instructions before operating or servicing this tool.
- Always use this machine only as described in this manual. Incorrect use of this tool may result in floor damage or personal injury.
- Never attempt to operate this tool unless you have been trained in its operation.
- Never allow an untrained person to operate this tool.
- Never attempt to operate this tool if it is not working properly or has been damaged in any manner.
- Always wear clean tennis shoes or “non-slip” shoes. Leather soled shoes will be extremely slippery.
- Never allow this tool to freeze.

Save These Instructions

Specifications

Model 4091341 Hard Surface Tool:

Cleaning Head: Width: 15 inches

Cleaning Head: Height: 3.13" w/ Hard Boot & 3.50" w/ Brush Ring

Total Height with Handle: 51 inches

Weight: 15.5 lbs.

Shell Construction: Polycarbonate

Hard Boot: HDPE

Brush Bristles: Nylon

Handle Construction: Stainless Steel

Maximum Solution Pressure: 1500 psi

Minimum Solution Pressure: 700 psi

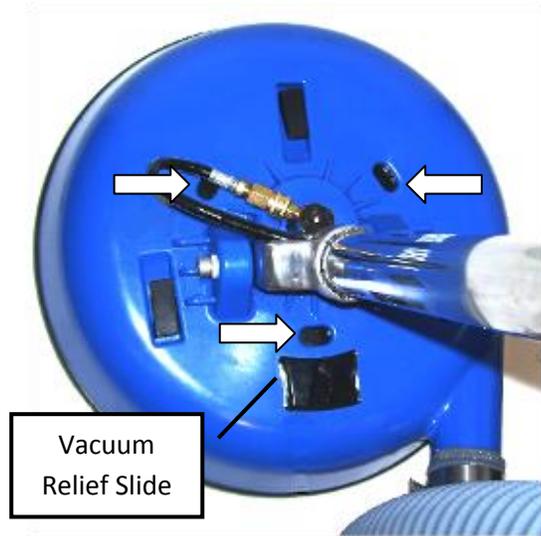
Maintenance

To keep this tool looking and working its best for the longest period of use:

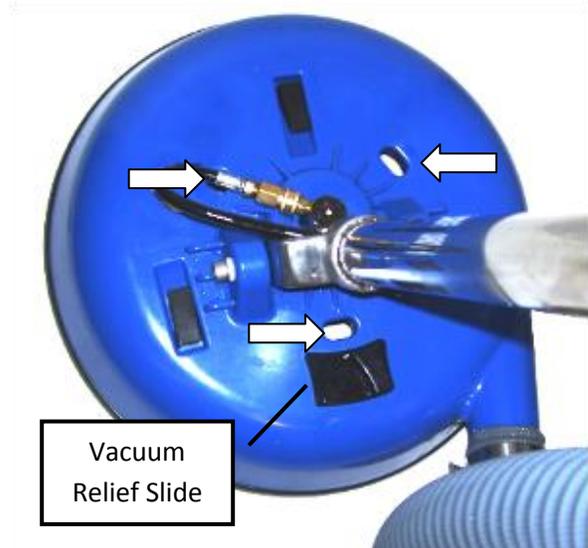
- After each use rinse the Inner Shell of the tool to remove accumulated dirt and debris. The Inner Shell can be separated from the Outer Shell to clean the air flow channel between the two shells.
- Rinse and wipe down top of head assembly and handle.
- Rinse and wipe clean the Hard Boot or the Brush Ring.
- Examine Hard Boot - Replace the Hard Boot if worn down or deep gouges and embedded debris are found.
- Examine the Brush Ring - Replace Brush ring if bristles are excessively bent, worn or if too many bristles are missing.
- Check and clean the stainless steel mesh filter between the quick connect and valve to prevent a reduction in water flow and tool efficiency.
- Check the spray pattern of the jets and clean or replace the jets as needed to assure even spray pattern.
- Check vacuum hose for holes or cracks.
- Replace vacuum hose as needed.

Vacuum Relief Vent Adjustment

This tool has vacuum relief vents on top of the head assembly. To increase the water recovery, move the vacuum relief slide to the left to close the three vents. To prevent this tool from sticking to the floor and to make the tool easier to move, push the vacuum relief slide to the right to open the vents. Try different slide position settings to get the best movement and recovery for your equipment and the type of floor being cleaned.



Vacuum Relief Vents Closed



Vacuum Relief Vents Open

Using this tool with extractors with higher air flow will generally require the vacuum relief vents to be opened more. Using this tool with smaller portable extractors may require the vacuum relief vents to be closed for the best water recovery. When using the Hard Boot the vacuum relief vents will usually be opened more than it is when using the Brush Ring with the same extractor.

Hard Boot and Brush Ring Use

This tool comes with a hard boot and a brush ring. You have the option to choose to install either type for the floor being cleaned and the equipment used.



Brush Ring
(Part #4091811)



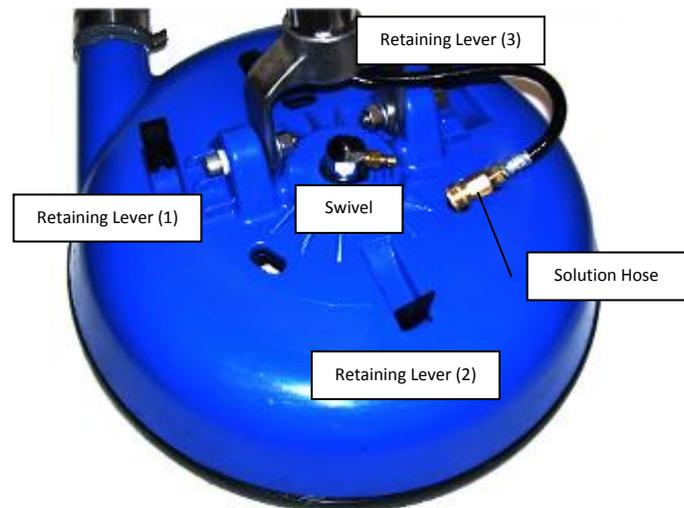
Hard Boot
(Part #4091761)

- Use of the Hard Boot should be limited to durable surfaces such as ceramic tile.
- Do not use the Hard Boot on soft surfaces such as marble. The Hard Boot may scratch soft surfaces.
- Use of the Brush Ring will help prevent scratching of soft surfaces.

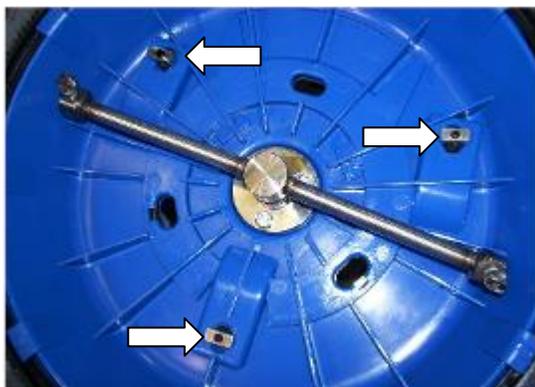
Changing the Hard Boot and Brush Ring

Changing between the Hard Boot and the Brush Ring can be done quickly and easily without tools.

1. Disconnect the solution hose from the swivel.
2. Lift the three retainer levers on top of the tool to release the retainers.



3. Turn the deck over and turn the three rectangular retaining nuts on the retainers to align with the holes in the bottom of the Inner Shell, so they can pass through the holes.



Three rectangular retaining nuts



Retaining nut aligned for inner shell removal

4. Pull and separate the inner shell from the outer shell



5. Lift up and remove the Hard Boot or Brush Ring from the bottom lip of the outer shell.



6. Place either the Brush Ring or the Hard Boot on to the bottom lip of the Outer Shell.



7. Place the Inner Shell back onto the Outer Shell with the rectangular retaining nuts going through the openings in the Inner Shell. The flanges on the Inner Shell set on the edge of the Hard Boot or Brush Ring to hold it in place.

8. Turn the rectangular retaining nuts perpendicular to the slots in the bottom of the Inner Shell. Retaining nuts may need to be tightened so that they each contact the plastic surface of the inner shell when the retaining levers are pushed back down to assure that the assembly is secured properly.



9. Turn the head assembly back over and snap the three retaining levers back down to secure the Outer and Inner Shells. Check the retaining nuts to be sure all three are in contact with the plastic Inner Shell. Open the retaining levers and tighten retaining nuts as needed to assure that the Inner Shell is properly secured when the levers are pushed down.



10. Reconnect the solution hose to the swivel.

Using this tool with other equipment

This tool will work with portable or truck mounted extractors, but the water recovery may be better with higher powered extractors with more air flow. The extractor solution pump must provide a minimum of 700 psi of water pressure with a flow rate of at least 1.5 gpm (Gallon Per Minute). At 1000 psi the flow rate must exceed 2.0 gpm and at 1500 psi the flow rate must exceed 3.0 gpm.

The recommended pressure for tool operation is 700 to 1200 psi.

Set-up Procedure

1. Install the Hard Boot or Brush ring on the tool.
2. Connect the vacuum hose from your extractor to the vacuum pipe on the tool handle. A 2" cuff will fit over the pipe, a 1-1/2" cuff will fit inside the pipe.
3. Connect the solution hose from the extractor to the quick connect on the valve assembly.
4. Turn the extractor on. Adjust the water pressure to the desired value. Minimum pressure: 700 psi. Maximum pressure: 1500 psi.
5. Adjust the vacuum relief slide for best recovery and ease of movement.

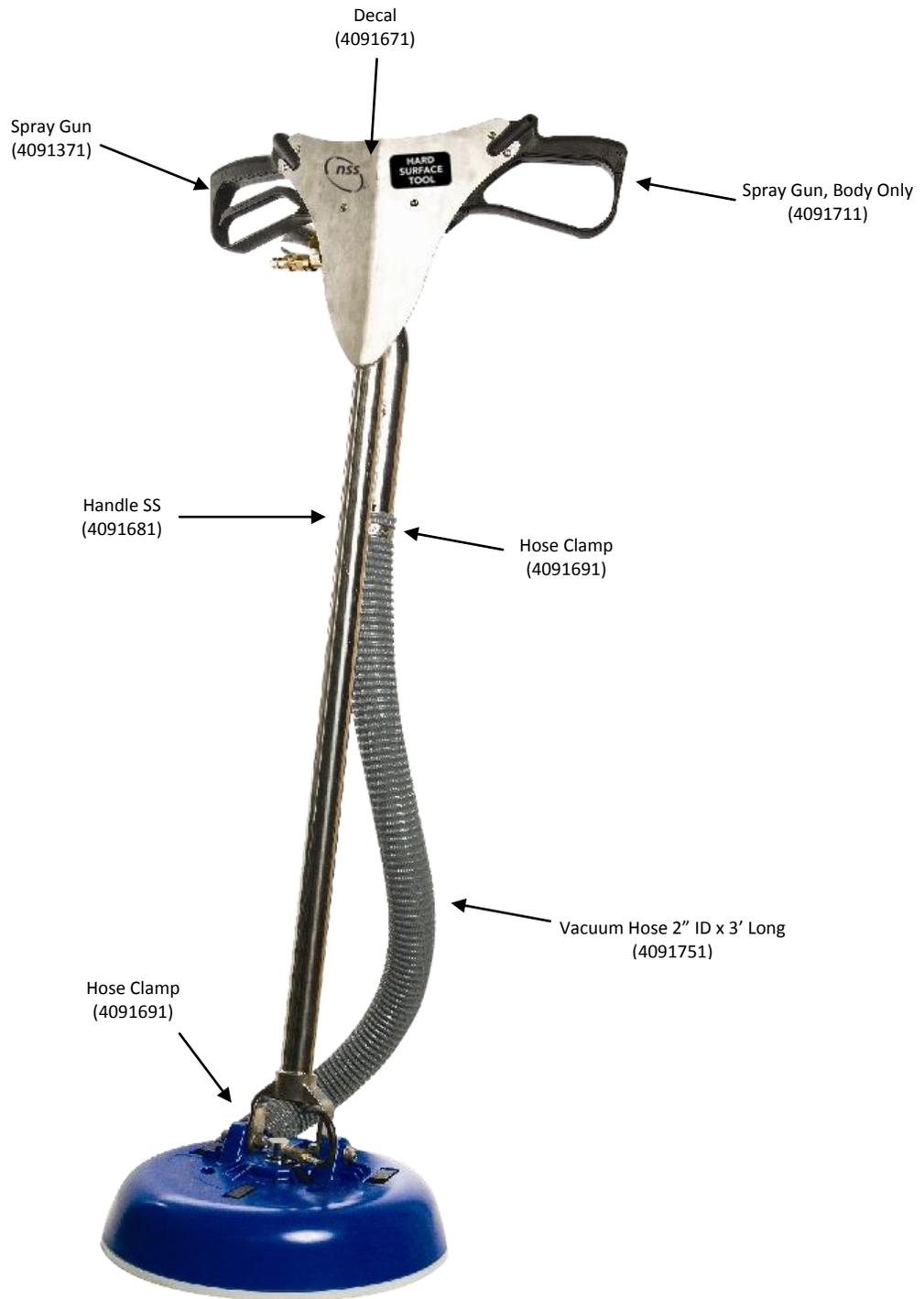
Basic Cleaning Procedure

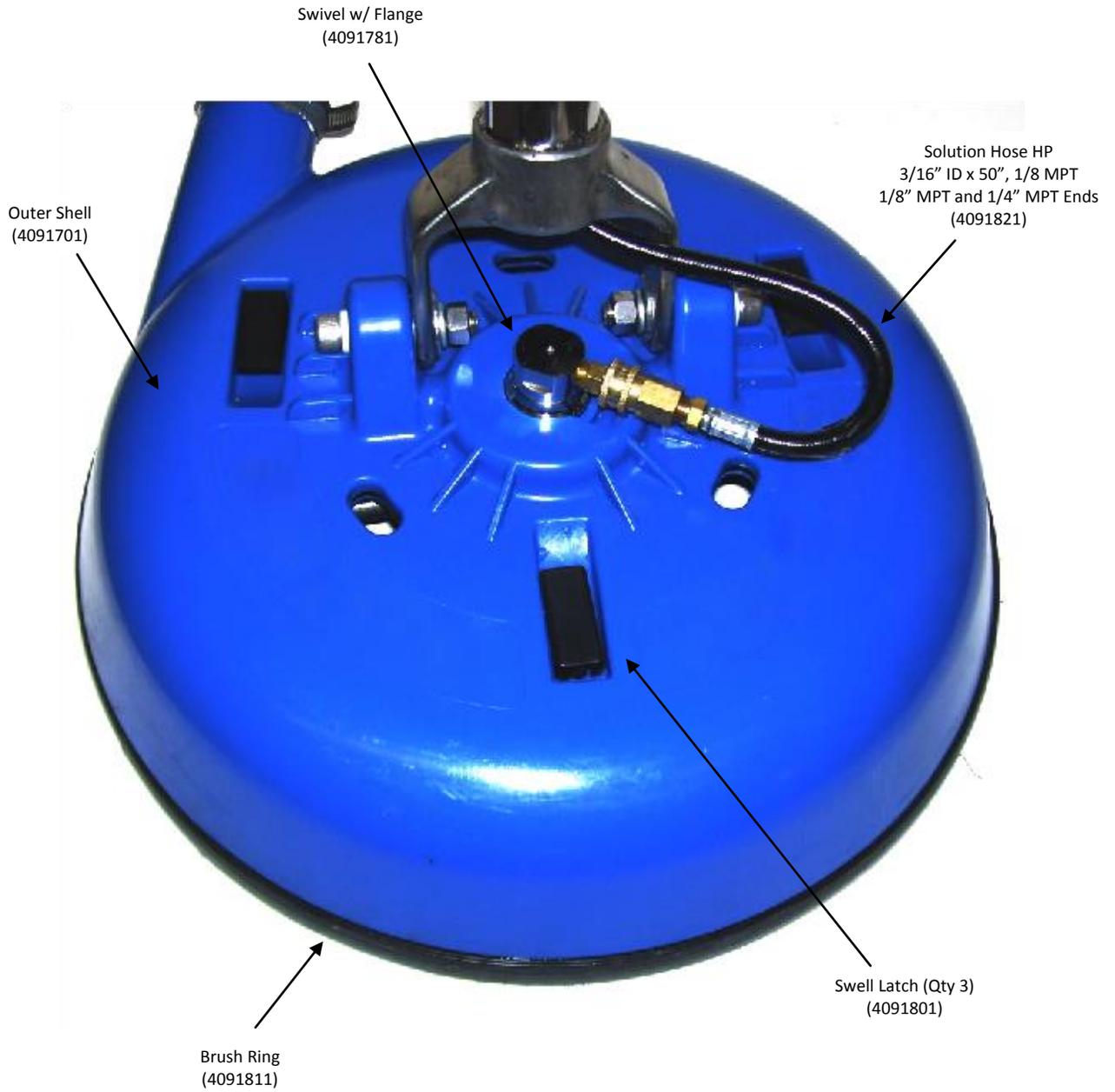
Remove all furniture from the area you are going to clean. Sweep or vacuum the floor to remove dust and grit, pieces of glass, sand, etc.

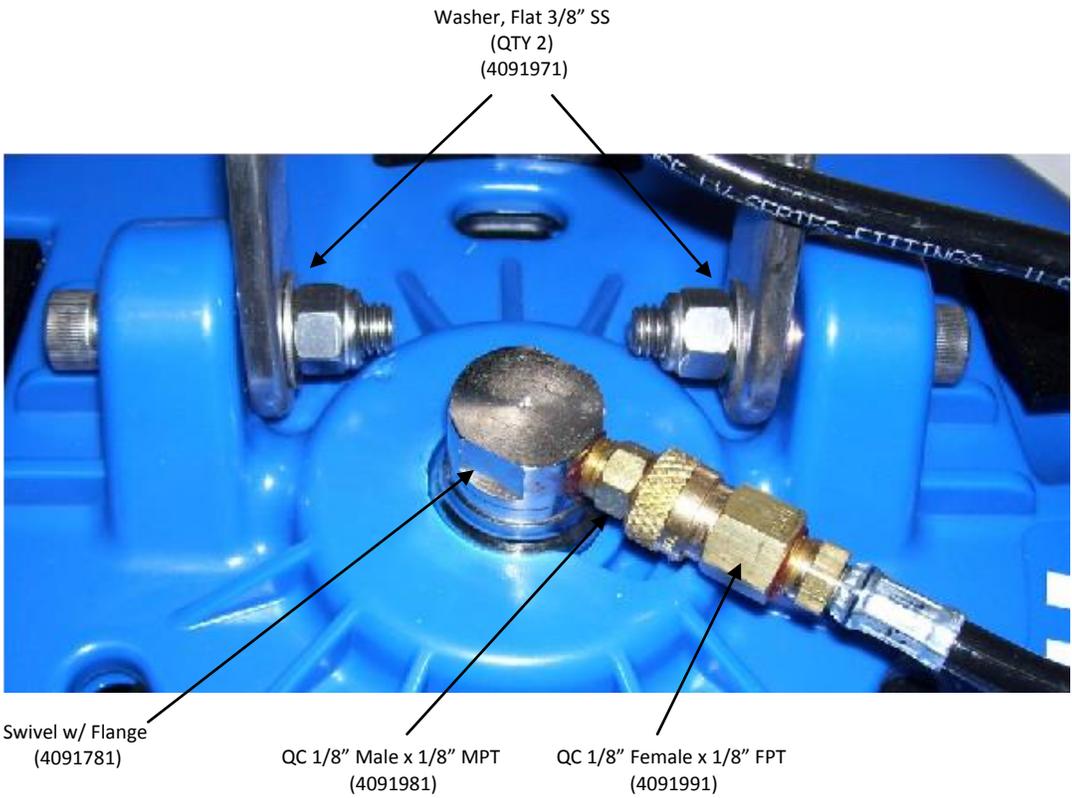
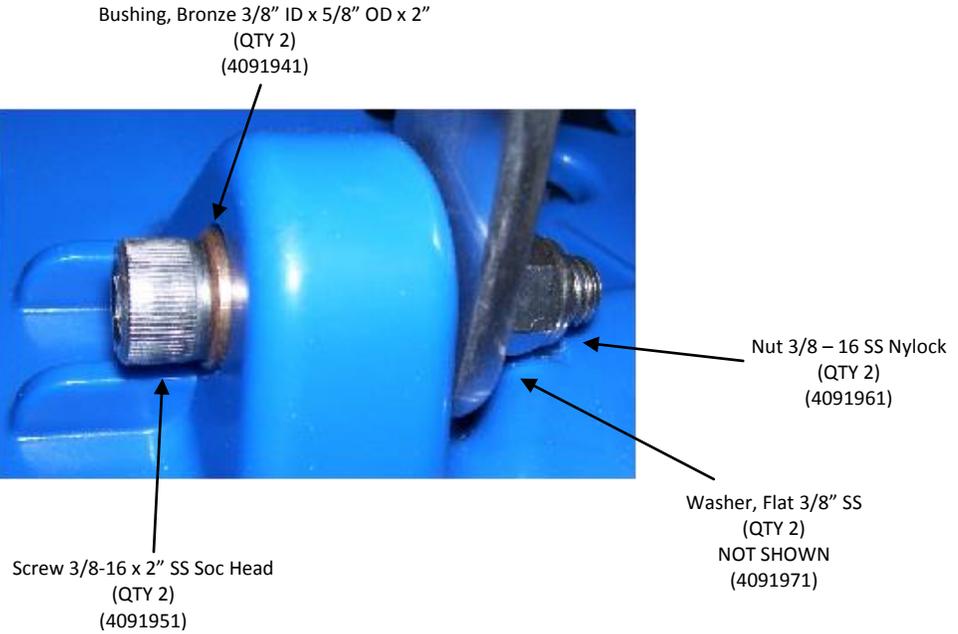
It is important for you to show utmost care for your client's home and furnishings. Place Corner Guards when moving your hoses about and use furniture skidders or floor guards for moving heavy appliances. Note any places where other surfaces border the floor. Carpet, cabinets, delicate wall covering, or painted surfaces need to be protected from all types of overspray. Caution and care in spraying is generally sufficient, but masking or use of a spray shield (like those used by painters) works well and may be necessary in high-risk areas. Use removable painter's tape to avoid damage to wood finishes when masking is removed. If the pre-sprays are over sprayed on the carpet they can simply be rinsed using your carpet wand.

Select an appropriate pre-spray and apply to the floor. Usually, a 5 minute or less dwell time is ideal. Excessive dwell time may actually retard the cleaning process by soaking in deeper and requiring more drying time before sealing. You could inadvertently begin a process of efflorescence by over-wetting. Avoid letting the pre-spray dry on the floor by extracting within the five minute time frame. For greatest efficiency, a helper can assist you by spraying three to five minutes ahead as you extract. Begin by going over large areas with the tool. Recommended pressure is 700 to 1500 psi. It is usually easiest to move at a moderate rate forward and backward. You need only overlap enough to assure complete coverage. Moving too fast will create a spiral pattern in the grout or tile. Slow down so this pattern does not occur. Use air movers where you have just extracted to get the grout dry as quickly as possible, especially if you plan to seal the grout the same day.

Hard Surface Tool Part List









Retaining Nut, Rectangular
QTY 3
(4094021)



