

SX-15 Gekko Tool

HARD SURFACE CLEANING TOOL

AR51S SX-15 Head Assembly with Gekko Handle AR51A



Hydro-Force Manufacturing
4282 South 590 West
Salt Lake City, UT 84123
801-268-2673
801-268-3856 FAX

INTRODUCTION

Congratulations on your purchase of the SX-15 hard surface cleaning tool.

Years of experience, engineering, and planning have gone into the design and manufacturing of the SX-15. We take a great deal of pride in the SX-15; our goal is no less than your complete satisfaction.

The SX-15 can be used with portable or truck mounted extractors to clean tile, concrete and stone floors. The larger cleaning area and superior water recovery of the SX-15 will make your tile cleaning faster and more efficient.

This manual will provide users with the knowledge to operate and maintain the SX-15.

Any questions pertaining to the operating or servicing of this unit should be directed to your nearest Hydro-Force distributor.

This manual is written specifically for the SX-15 tile cleaning tool manufactured by:

Hydro-Force Manufacturing
4282 South 590 West
Salt Lake City, UT 84123
801-268-2673
801-268-3856 FAX

Information in this manual is subject to change without notice and does not represent a commitment on the part of Hydro-Force, its parent or affiliated companies.

SPECIFICATIONS

Model AR51S SX-15 Tile Cleaning Head:

Cleaning Head: Width: 15 inches, Height: 3.13" w/ Hard Boot & 3.50" w/ Brush Ring
Weight: 7.9 lbs.

Shell Construction: Glass Reinforced Nylon

Handle Adapter: Nickel Plated Aluminum

Hard Boot: HDPE

Brush Bristles: Nylon

Maximum Solution Pressure: 2500psi

Minimum Solution Pressure: 700psi



Model AR51A Gekko Tool Handle:

Length: 49.75" to Vac Hose Connection / 57.5" to top of Spray Gun

Weight: 6.6 lbs.

Handle Construction: Stainless Steel

Coupler: Nickel Plated Aluminum

SX-15 MAINTENANCE

Your SX-15 requires very little maintenance. To keep your SX-15 looking and working its best for the longest period of use:

After each use rinse the Inner Shell of the SX-15 to remove accumulated dirt & debris. The Inner Shell can be separated from the Outer Shell to clean the air flow channel between the two shells. (See instructions for changing the Hard Boot & Brush Ring for procedure to separate Outer and Inner Shells on Pages 5-7.)

Rinse & wipe down top of head assembly & handle.

Rinse & wipe clean the Hard Boot or the Brush Ring if used.

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. See item NA0803 in the parts diagram on Page 16.

Check the spray pattern of the jets and clean or replace the jets as needed to assure even spray pattern.

Check solution hoses for wear or damage. Replace Solution hoses as needed.

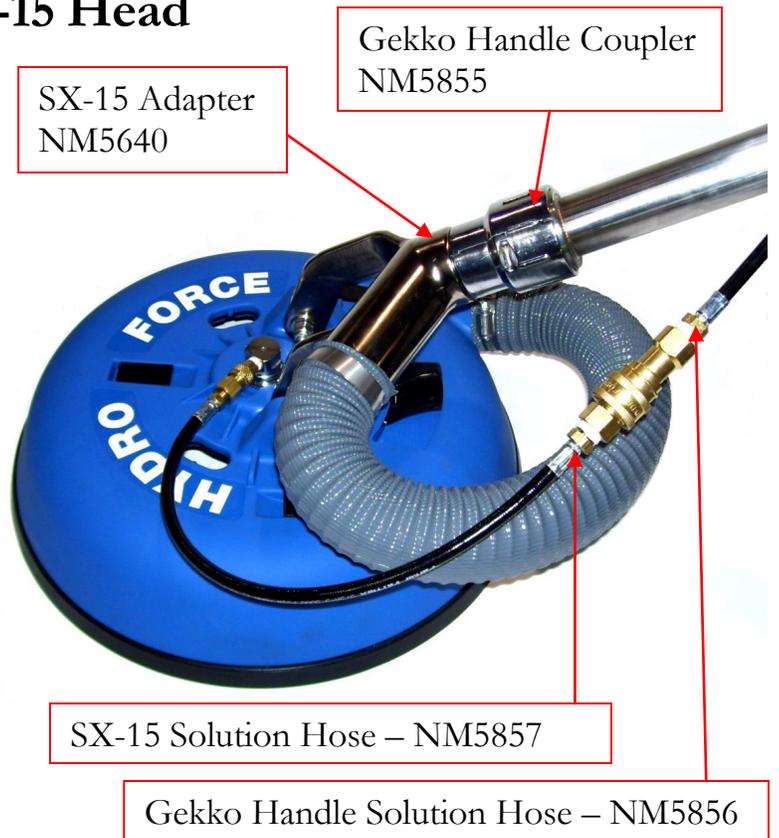
Check vacuum hose for holes or cracks. Replace Vacuum hose as needed.

Connecting Handle to SX-15 Head

Connecting the Gekko Handle AR51A to the SX-15 Head is a simple procedure:

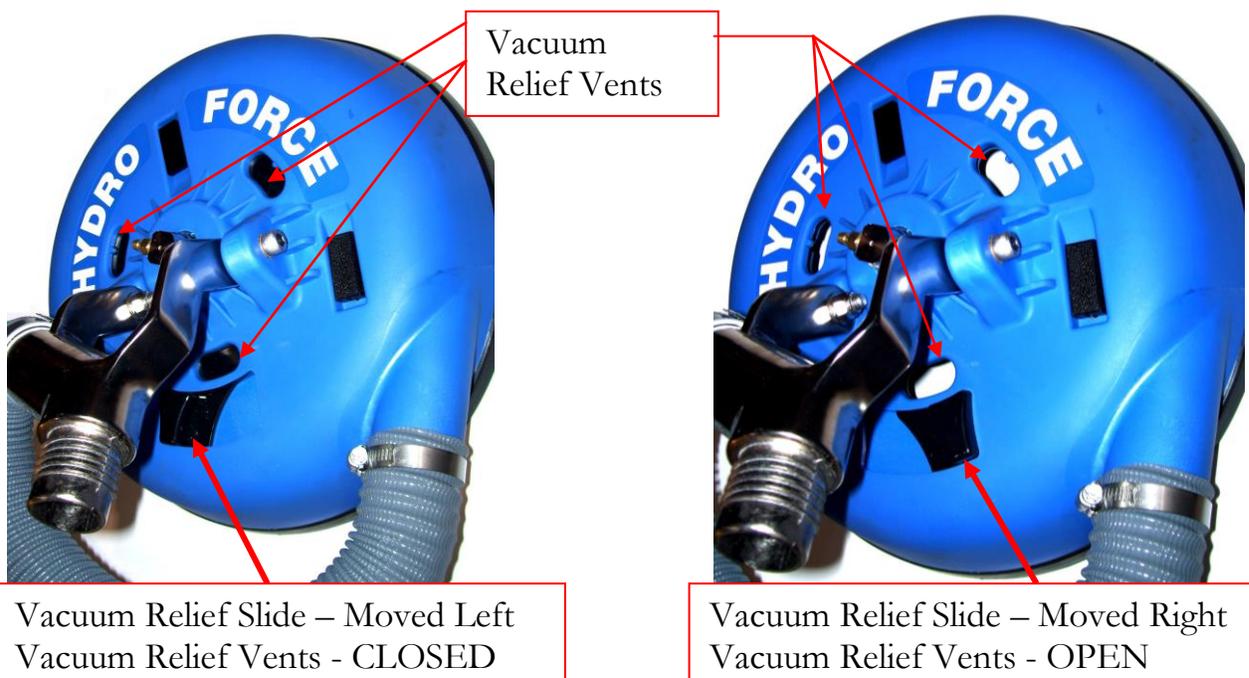
- ❖ Thread Gekko Handle coupler onto male threads of SX-15 Adapter NM5640.
- ❖ Connect the SX-15 solution hose to the Gekko Handle Solution Hose by snapping the 1/4" male quick connect and the 1/4" female quick connect together.

The SX-15 can easily be removed and the Gekko Handle can then be used with any of our other Gekko Tools. (See Gekko Tools on Page 9).



Vacuum Relief Vent Adjustment

The SX-15 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 the SX-15 from sticking to the floor and to make the SX-15 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.



Using the SX-15 with extractors with higher air flow will generally require the vacuum relief vents to be opened more. Using the SX-15 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 & Brush Ring Use

The SX-15 comes with a Hard Boot and Brush Ring. You have the option to choose to install either for the type of floor being cleaned and the equipment used.



Brush Ring – AB53



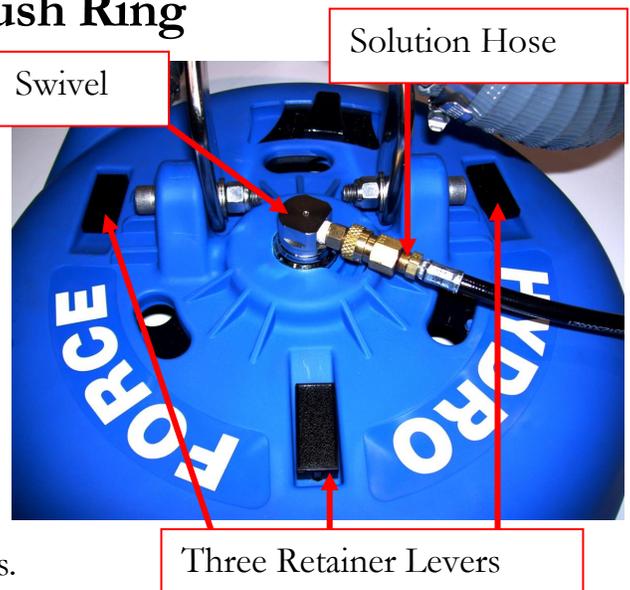
Hard Boot – NM5772

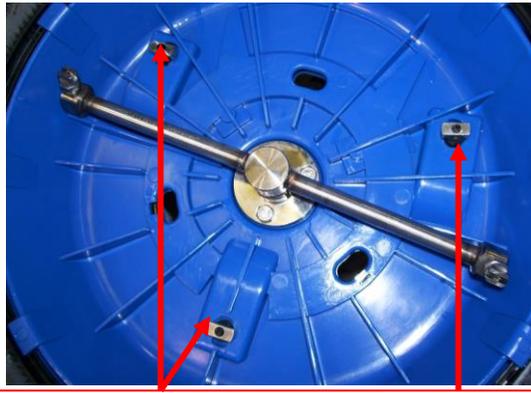
- ❖ Use of the Hard Boot should be limited to durable surfaces such as ceramic tile.
- ❖ Do not use the Hard Boot on Soft Surfaces such as marble. The Hard Boot may scratch soft surfaces. Use of the Brush Ring will help prevent scratching of soft surfaces.
- ❖ When using portable extractors with lower air flow the Hard Boot will provide improved recovery compared to the Brush Ring.
- ❖ Truck mounts with higher air flow will get excellent recovery with Brush Ring or Hard Boot.
- ❖ With a high air flow truck mount extractor, the tight seal of the Hard Boot on smooth surfaces such as concrete may prevent the SX-15 from being moved properly across the floor. Additional vacuum relief may be required for hard boot use with truck mounts.

Changing the Hard Boot & Brush Ring

Changing between the Hard Boot and 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 SX-15 head 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 current Hard Boot or Brush Ring from the bottom lip of the Outer Shell.



Separate the Outer & Inner Shells



Remove the Brush Ring or Hard Boot

6. Place the desired Brush Ring or Hard Boot back onto 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.



Place the Brush Ring or Hard Boot on the Outer Shell

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 SX-15 assembly is secured properly.**



Retaining Nut Aligned to Secure Inner Shell

9. Turn the head assembly back over & snap the three retaining levers back down to secure the Outer & Inner Shells. Check the retaining nuts to be sure all three are in contact with the plastic inner shell. Open retaining levers and tighten retaining nuts as needed to assure that the inner shell is properly secured when the latches are pushed down.
10. Reconnect the solution hose to the swivel, and the change is complete.



USING THE SX-15

Extraction Equipment

The SX-15 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 700psi of water pressure with a flow rate of 1.5gpm (**Gallons Per Minute**). At 1000psi the flow rate must exceed 2.0 gpm & at 1500psi the flow rate must exceed 3.0gpm. The recommended pressure for SX-15 operation is 700 to 1500psi.

Set-up Procedure

1. Connect the SX-15 Tool to the Gekko Handle. (See instructions on Page 4)
2. Install the Hard Boot or Brush Ring on the SX-15 as needed. (See instructions for changing Hard Boot & Brush Ring on Page 5.)
3. Connect the vacuum hose from your extractor to the vacuum pipe on the Gekko Handle. A 2" cuff will fit over the pipe, a 1-1/2" cuff will fit inside the pipe.
4. Connect the solution hose from the extractor to the quick connect on the Gekko Handle valve assembly.
5. Turn the extractor ON. Adjust the water pressure to the desired pressure. Minimum Pressure : 700psi Maximum Pressure: 2500psi
6. Adjust the Vacuum Relief Slide for best recovery & ease of movement.

Basic Cleaning Procedure

Remove all furniture from the area you are going to clean. Use tools and aids that will make your job easier and safer. Gliders walk off mats, furniture protector tabs and foam blocks can help with moving and placing furniture away from areas to be cleaned. Depending upon the customer's wishes, it may be alright to leave some furniture or appliances, such as refrigerators, in place and clean around them. Begin by sweeping or vacuuming the floor to remove dust and grit, pieces of glass, sand, etc.

You can use the Gekko accessory brush head to vacuum to your truck mount (Remember to use your Dust-Downer to prevent dry abrasives from getting into your blower.).

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 over spray.

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 the 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-sprays dry on the floor by extracting within the five minute time frame. A helper can assist you by spraying three to five minutes ahead as you extract for highest efficiency.

Begin by going over large areas with the SX-15. Recommended pressure is 700 to 1500 psi, and temperature up to 200°F. It is usually easiest to move at a moderate rate forward and backward. You need only overlap enough to assure complete coverage. You will be surprised at how quickly you can clean with the SX-15. Moving too fast will create a spiral pattern in the grout or tile. Slow down so this pattern does not occur. Get air movers going 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.

Do the detail work last. There are five other Gekko tools for edging, corners and cleaning in tight places, all of which will connect to the AR51A handle. The Gekko tool with the Edge & Corner attachment works great for cleaning the tile coving and edges. For heavier soiling not removed by the SX-15, use the Gekko tool with a four inch head straight on, blasting the soil off of the grout.

Recommended Tools for Tile Detail Work



Gekko Edge Corner
Coving Head
AR51C



14" Gekko Brush Head
AR51H

4" Gekko Head
AR51D



Gekko SX-7 Head
AR51G



14" Gekko Squeegee Head
AR51E

SX-15 Gekko Tool Parts

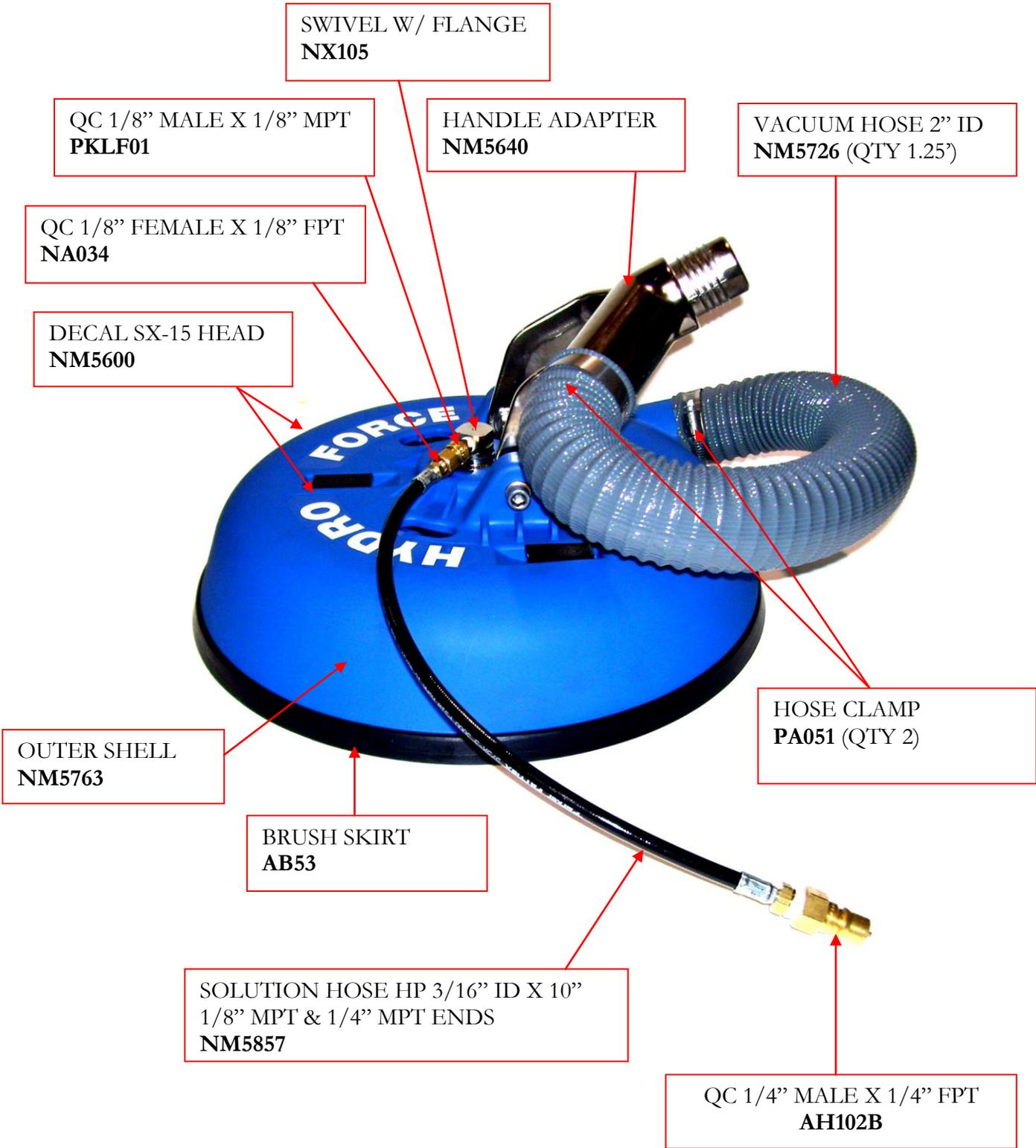


**GEKKO HANDLE COMPLETE
AR51A**
(Parts Detailed on Pages 16-18)

**SX-15 GEKKO HEAD COMPLETE
AR51S**
(Parts Detailed on Pages 11-15)



SX-15 Gekko Head Parts



SX-15 Gekko Head Parts

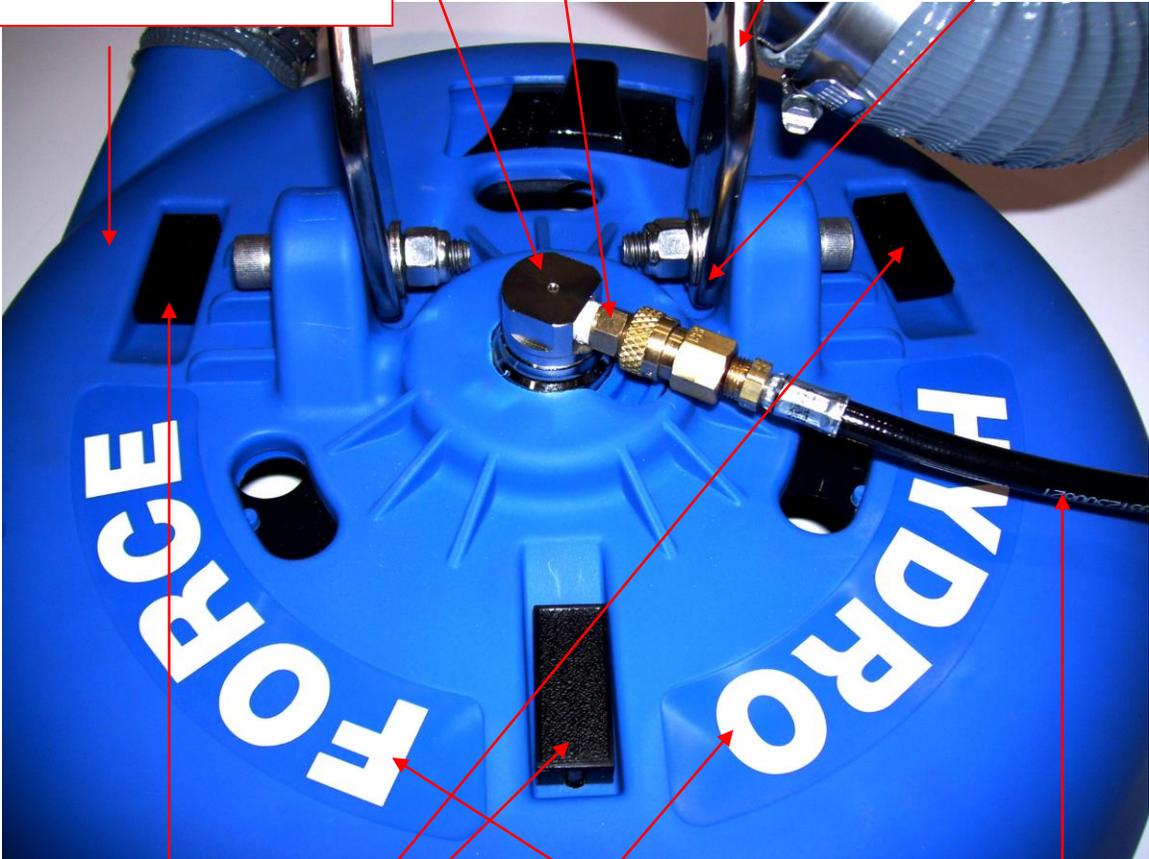
QC 1/8" MALE X 1/8" MPT
PKLF01

QC 1/8" FEMALE X 1/8" FPT
NA034

SWIVEL W/ FLANGE
NX105

HANDLE ADAPTER
NM5640

OUTER SHELL- TOP VIEW
NM5763



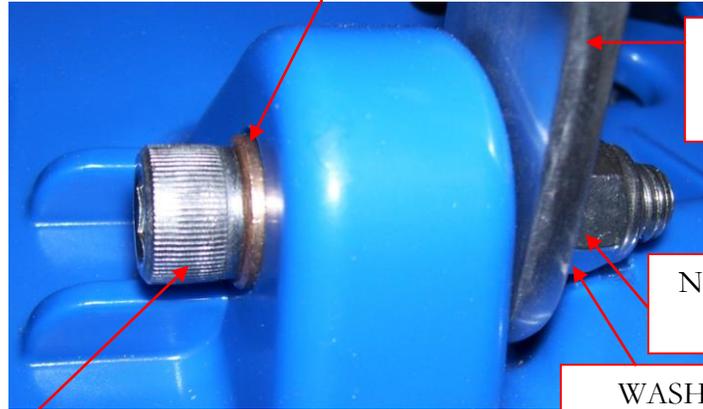
DECAL SX-15 HEAD
NM5600

SWELL LATCH (QTY 3)
NM5768

SOLUTION HOSE HP 3/16" ID X 10"
1/8" MPT & 1/4" MPT ENDS
NM5857

SX-15 Gekko Head Parts

BUSHING BRONZE 3/8" ID X 5/8" OD X 2"
NM5770 (QTY 2)



HANDLE ADAPTER
NM5640

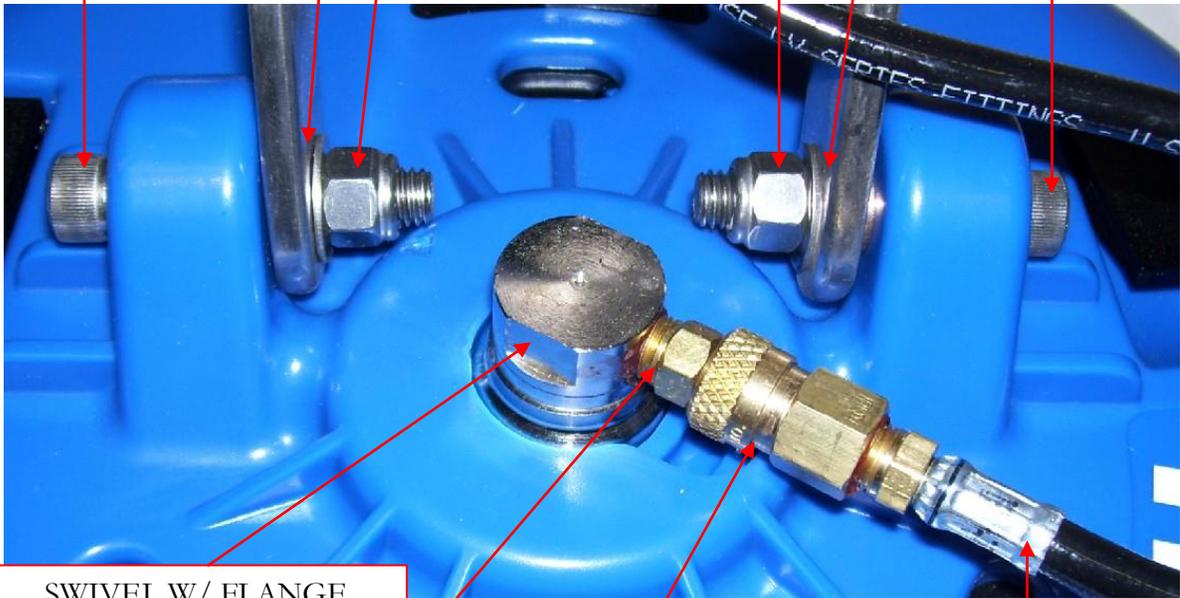
NUT 3/8-16 SS NYLOCK
NM4085 (QTY 2)

WASHER FLAT 3/8" SS
PA189 (QTY 2)

SCREW 3/8-16 X2" SS SOC HEAD
NM5780 (QTY 2)

WASHER FLAT 3/8" SS
PA189 (QTY 2)

NUT 3/8-16 SS NYLOCK
NM4085 (QTY 2)



SWIVEL W/ FLANGE
NX105

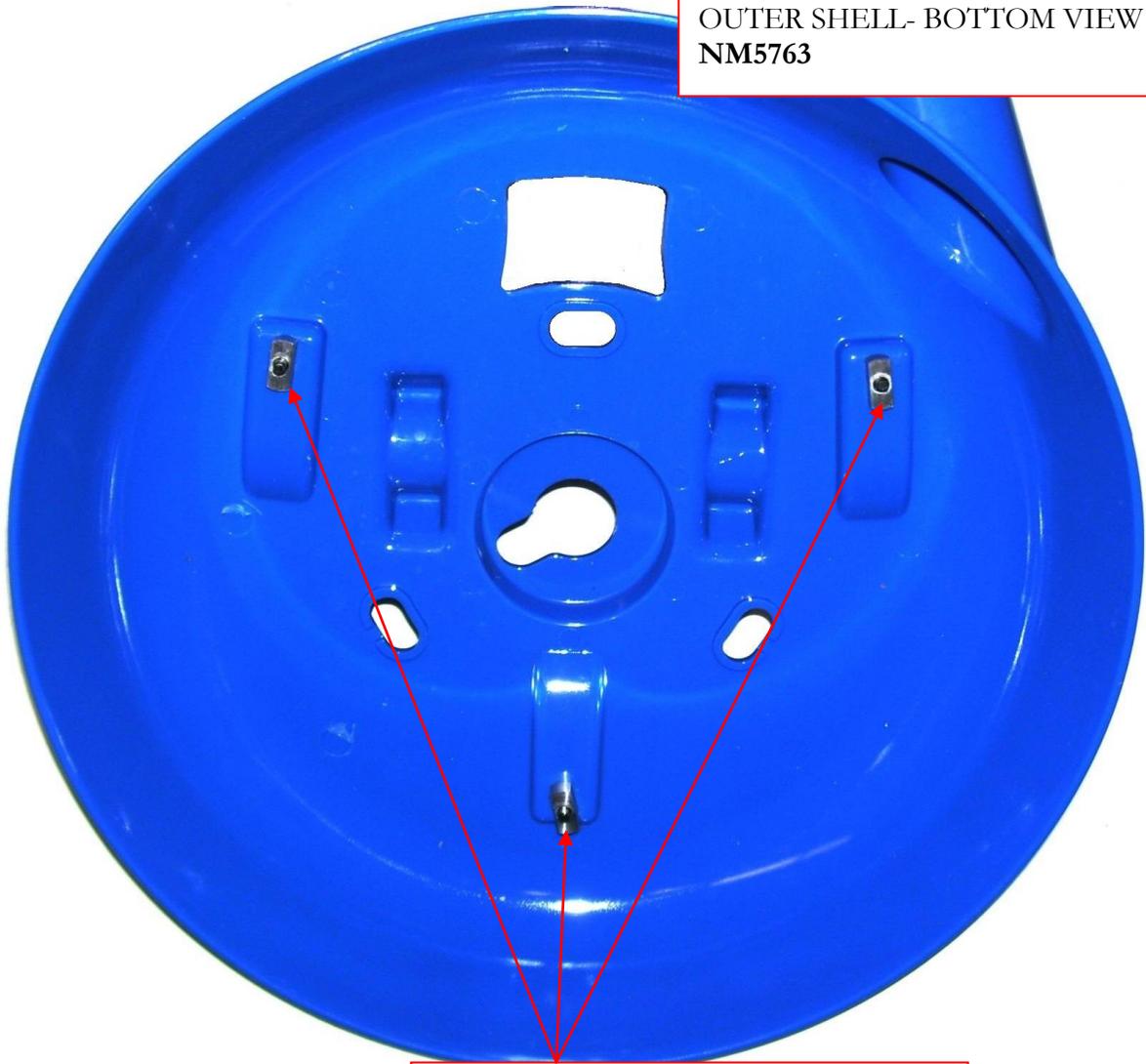
QC 1/8" MALE X 1/8" MPT
PKLF01

QC 1/8" FEMALE X 1/8" FPT
NA034

SOLUTION HOSE HP 3/16" ID X 10"
 1/8" MPT & 1/4" MPT ENDS
NM5857

SX-15 Gekko Head Parts

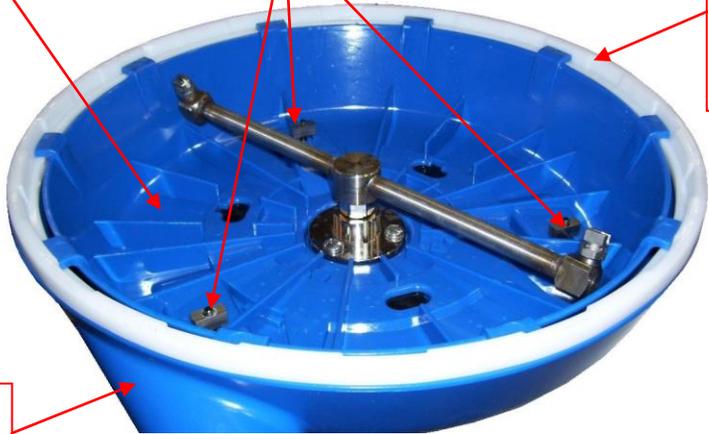
OUTER SHELL- BOTTOM VIEW
NM5763



RETAINING NUT - RECTANGULAR
NM5784 (QTY 3)

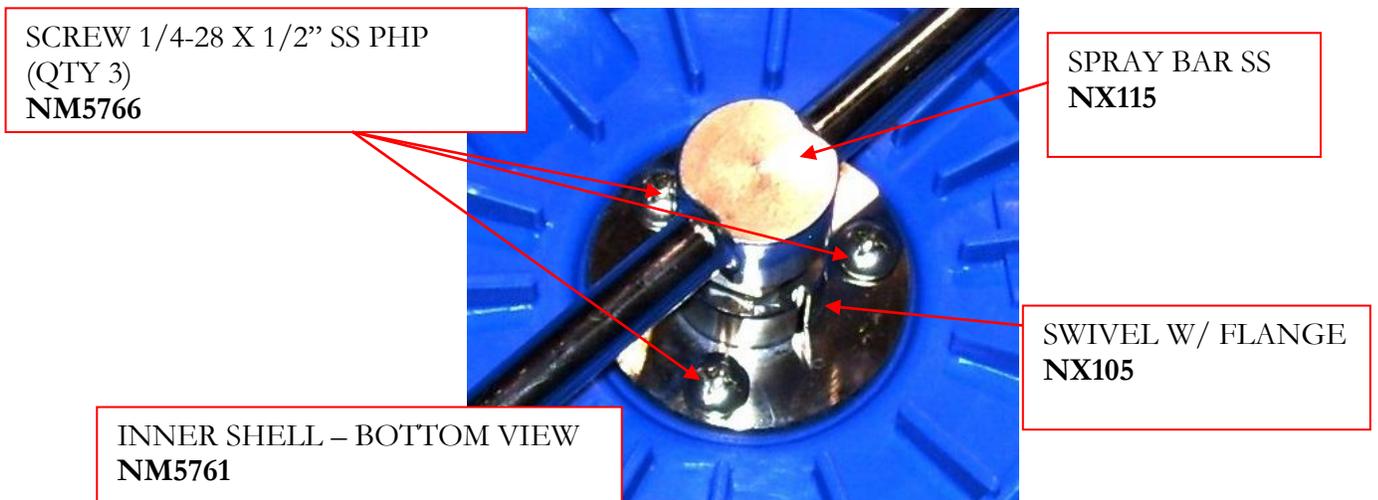
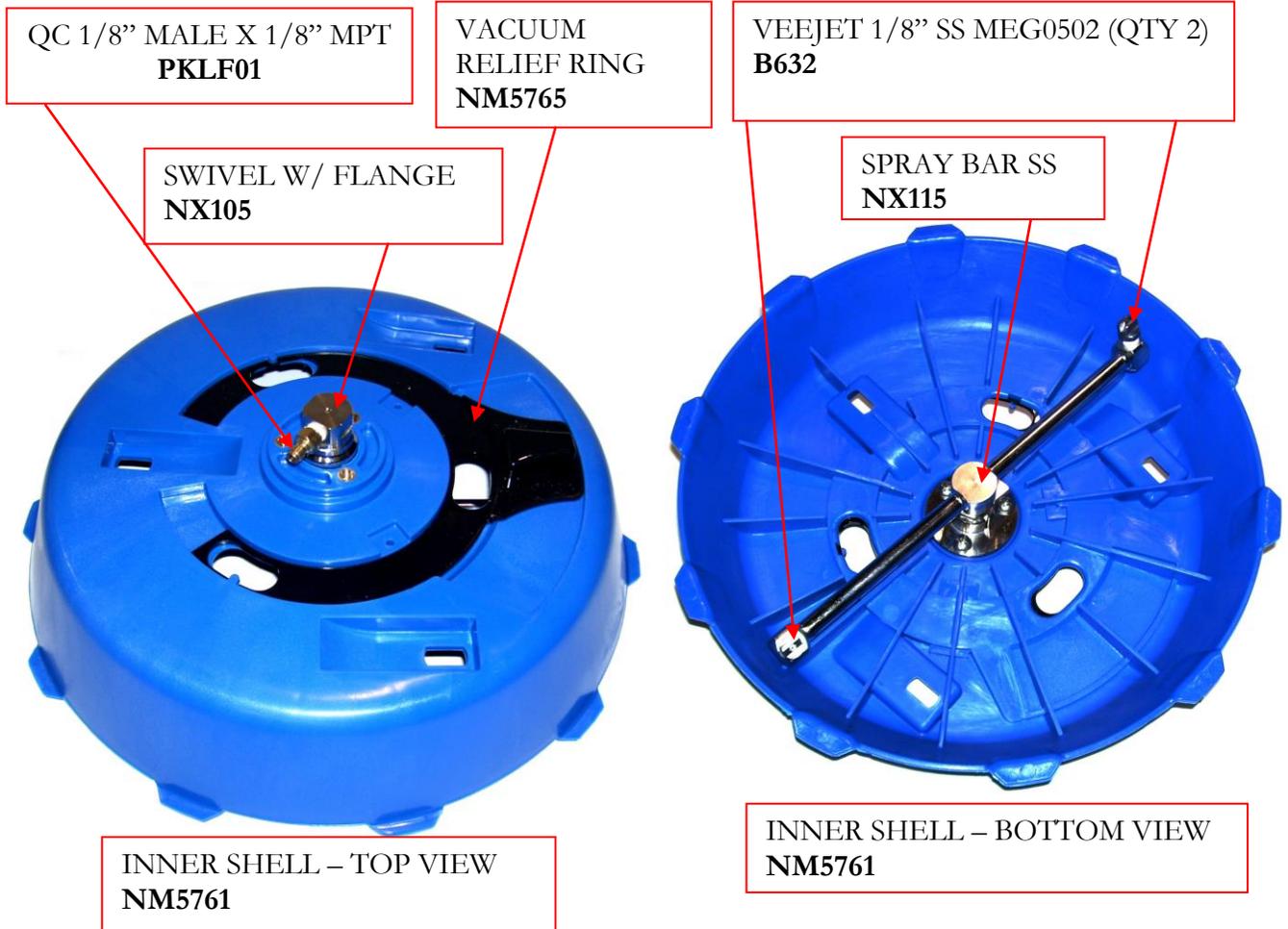
INNER SHELL
NM5761

HARD BOOT
NM5772



OUTER SHELL
NM5763

SX-15 Gekko Head Parts



AR51A Handle Parts

NM4080 – Screw 10-32 x 1-5/8" SS BHSOC
NM4028 – Nut 10-32 Nylock

SPRAY GUN
100010 - (Detailed on Page 16)

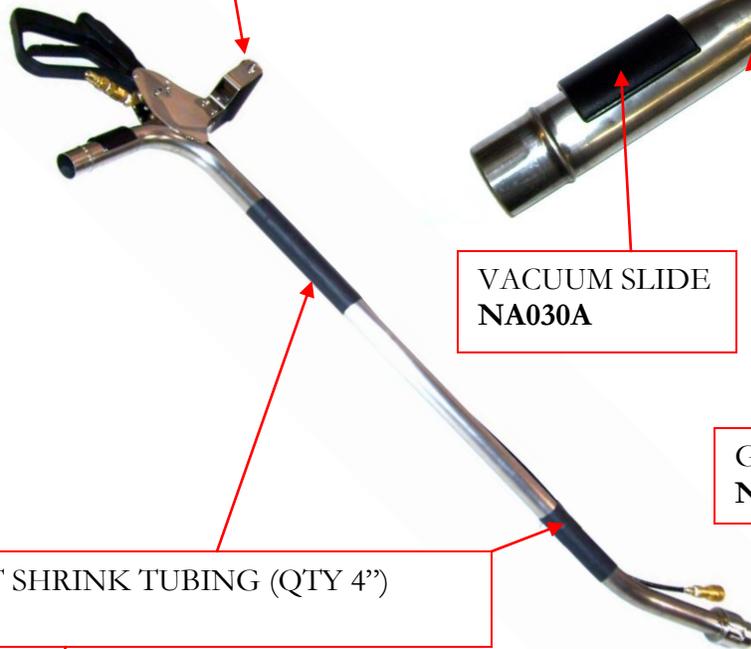
GEKKO GRIP HANDLE ASSEMBLY
NM5858 - (Detailed on Page 17)



GEKKO DECAL
LB85

VACUUM SLIDE
NA030A

GEKKO WAND TUBE
NA030



2" HEAT SHRINK TUBING (QTY 4")
NA038

SOLUTION HOSE 44" 1/4" MPT ENDS
NM5856

GEKKO WAND TUBE
NA030

1/4" FEMALE QUICK CONNECT
AH101B

GEKKO COUPLER ASSEMBLY WITH SCREWS
NM5855

Spray Gun Fittings & Parts



BR272



BR282



NA0804



NA0803



NA0802



AH102B

Spray Gun - **100010**

HP Solution Hose Assembly
NM5856



45° Elbow - **BR272**

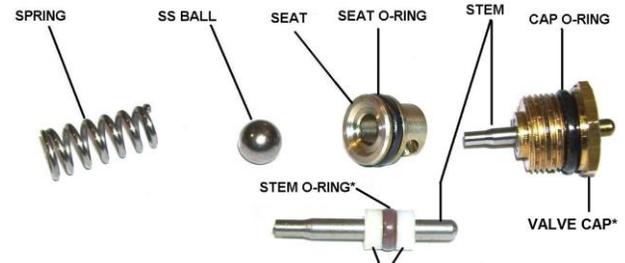
90° Elbow - **BR282**

Filter Adapter - **NA0804**

Filter Body - **NA0802**
(**STRAINER NA0803 INSIDE**)

1/4" Male QC - **AH102B**

REPLACEMENT VALVE
FOR 100010 SPRAY GUN
NA033



Valve Cap is not included in repair kit BACK-UP RINGS (QTY 2)

VALVE REPAIR KIT
FOR 100010 SPRAY GUN
NA033A

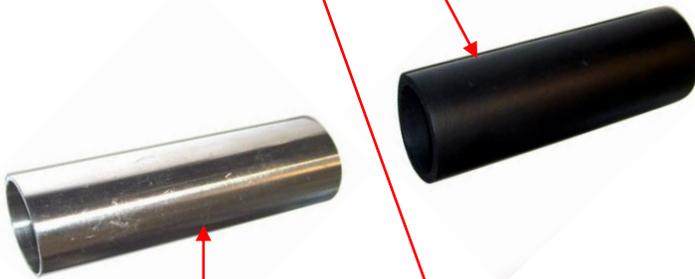
Gekko Grip Handle Parts



NM5858 Gekko Grip Handle Assembly
Complete with mounting screws

NM5698 – Screw 10-32 x 1/2" PPH SS (QTY 4)
NM4028 – Nut 10-32 Nylock (QTY 4)

NM5858D – Foam Grip – Gekko Handle



NM5858B – Tube – Gekko Handle

NM5858C – Screw 1/4-20 x 5" PPH SS



NM5862 – Acorn Nut 1/4-20 SS



NM5858A – Bracket Gekko Handle
(QTY 2)

LIMITED WARRANTY

Your SX-15 tile cleaning tool is designed to give you years of reliable service. If a problem should arise contact your distributor or Hydro Force for assistance.

Hydro-Force warrants the SX-15 tile cleaning tool to be free from defects in material or workmanship for one year for the deck and handle and 90 days for all other items excluding normal wear and tear items such as, but not limited to, the hard Boot, brush Ring, quick connects, strainer screens, spray jets, swivel seals and valve seals.

During the warranty period, Hydro Force will, at its option repair or replace components which prove to be defective. This warranty does not provide for replacement of complete units due to defective components. Any costs for transportation or related service labor are not covered in this warranty. Replacement parts are warranted only for the remainder of the original warranty period.

This warranty shall not apply to defects resulting from improper operation, lack of maintenance, unauthorized modification, chemical incompatibility, misuse, abuse or exposure to freezing temperature conditions.

To obtain warranty service for the SX-15, contact your distributor or Hydro Force. If the tool must be returned to Hydro Force or an authorized service center, the purchaser shall prepay shipping charges for products returned for warranty service. No returned items will be accepted by Hydro Force without prior authorization. All returns must have a return authorization number, issued by Hydro Force, clearly marked on the exterior of the package.

Hydro Force makes no other warranty either expressed or implied with respect to this product.

The remedies provided herein are the purchaser's sole and exclusive remedies. In no event shall Hydro Force be liable for any direct, indirect, special, incidental or consequential damages.

This warranty gives you specific legal rights. You may also have other rights which vary from jurisdiction to jurisdiction.