

OWNER'S MANUAL 3 GALLON EXTRACTOR

Designed, manufactured and assembled in the **U.S.A.**



NSS Enterprises, Inc.



Specifications

Rally 55

Rally 55H

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3-GALLON QUICK START GUIDE



Stainless steel tool w/ clear view head & brass valve & jet



External hoses set

Quick Start Machine Preparation

1 Switches



Make sure all switches are in the OFF position.

2 Hoses & Straps



Assemble your vacuum & solution hose. Small loop goes over small hose velcro over large vacuum hose.

3 Connecting your vacuum & solution hose



1. Connect your hose to vacuum recovery tank.
2. Connect solution hose to solution tank.
3. Push back locking sleeve, insert brass post, let it spring back covering retaining balls.
4. Push vacuum hose & cuff over 1.5" hose barb.

4 Liquid detergent only



Use liquid detergents only. Powder clogs pumps & filters. Use only recommend mixtures. Over use of chemicals clogs fittings and increases foaming.

5 Fill cleaning liquids up to fill line



Pour solution into lower solution tank. Access this tank by removing the recovery tank.

Do not fill above line. This will cause liquid to enter the motor as the recovery tank over fills.

6 Electrical



Plug into grounded outlets. DO NOT use if ground plug is broken.

DO NOT use GFI outlets for best performance.

Caution



Now you're ready to begin. Turn your solution pump on.



Squeeze hand trigger. Pull trigger until liquid sprays from spray jet. Pump and heater (if equipped) is now primed. With water / cleaning solution.

9 **HOT!** Many surfaces are hot, wear protective clothing



Turn pump off. Leaving pump on while unit is pre-heating will cause wear.



If equipped with a heater. Turn it on for 5-minutes to pre-heat



Turn the vacuum and pump motor on. All 3 switches are now on.



Heated units
Never run heater DRY or without liquid throughout the machine and hose system. Failure to do so, will damage the heater.

Spot, Upholstery & Carpet Cleaning



After start sequence above

1. Start in the far corner and plan exit.
2. Do a series of 2x2 area is done go over it again vacuuming only at a slow pace to remove any missed liquids to improve.
3. After your 2x2 area is done go over it again vacuuming only at a slow pace to remove any missed liquids to improve.



When doing upholstery it's important not to over wet. Test on an unseen area and allow to dry prior to starting.

When Finished, Drain Your Recovery Tank



Disposing of dirty water

1. Unplug the spotter.
2. Unlatch front latch, lift out the recovery tank and dispose of the water to the sewer system.
3. Never dispose of liquids onto soil, outdoor gutter or into the environment.

When you're finished

1. Run clean water (warm if possible) throughout the machine to remove cleaning chemicals from internal hoses / jets.
2. Unplug the equipment, wipe it down with clean cloth and soap and return it to a safe storage area.

3-Gallon Spotter Filter Maintenance

Filter Maintenance:

1. The filter will not appear dirty as the dirty material is trapped on the front of the filter. Clean the filter regularly.
2. Failure to clean the filter will allow liquid to travel on the lint/fibers to the motor. This is known as the "straw effect."
3. Always use defoamer, if defoamer is not available use less liquid in the recovery tank to keep the liquid levels below the vacuum intake.
4. If liquid appears on the clear-view cap "Stop". Drain the tank and clean the filter.
5. Pre vacuuming areas will prevent major debris clogging the filter.

1. Filter Location



2. Remove Filter



3. Clean Off Debris



4. Reinstall Around Stand Pipe



3 Gallon Extractor

Dear Customer:

Congratulations on the purchase of your new 3-Gallon Spotter/Extractor. As the world of carpet and upholstery cleaning evolves, we set out to be on the cutting edge of quality, simplicity, durability, technology and performance.

Before using your new machine, please read this manual thoroughly paying close attention to the safety, start-up sections. This machine will afford you many years of trouble-free operating satisfaction, provided it is given proper care and maintenance.

Should you have any questions regarding replacement parts, ordering parts or warranty issues, please contact your distributor or service center.

Happy cleaning!



Important Safety Information

Please read and follow all warnings and directions. Always follow these steps to protect yourself and personal property.

SAVE THESE INSTRUCTIONS

FOR SAFETY

1. Only use this machine as described in this manual using only the manufacturer's recommended attachments.
2. DO NOT operate this machine if any part or accessory appears to be damaged.
3. Always inspect power cord for damage. DO NOT operate if ground plug or cord is broken or damaged.
4. Unplug the power cord from the electrical outlet before making any adjustments or repairs.
5. DO NOT unplug by pulling on the cord. Unplug by grasping the plug, not the cord itself.
6. DO NOT pull or carry this machine by its cord. Do not close a door on the cord or pull cord around sharp corners or edges.
7. Keep cord away from heated surfaces.
8. DO NOT operate machine in standing water.
9. DO NOT use volatile substances, or operate where volatile, flammable or combustible materials are present.
10. DO NOT use citrus acid, butanol or harsh degreasers inside the machine.
11. Always unplug the unit from the power source when not in use.
12. DO NOT use this machine as a toy. Close attention is necessary when used by or near children.
13. DO NOT leave the machine exposed to elements of harsh weather or temperatures below freezing as it may damage the components and void the warranty.
14. DO NOT use water that is more than 120 degrees Fahrenheit inside the unit.
15. Use caution when placing chemicals directly into the solution tank, as this may damage the pumps seals and void your warranty.
16. Use only liquid detergents. Powders do not fully dissolve and will damage the motor.
17. Always use de-foamer, as foam will suspend moisture particles that damage the vacuum motor.
18. Use only the appropriate handles for lifting and moving this machine.
19. Keep hair, loose clothing, jewelry, fingers and all parts of the body away from all opening and moving parts.
20. Use care and caution when cleaning on stairs.
21. Do not use as a dry vacuum.
22. Do not leave machine unattended while in operation.
23. When cleaning and servicing the machine, local or national regulations may apply to the safe disposal of liquids which may contain: chemicals, grease, oil, acids, alkaline, or other dangerous liquids.

120V Grounding Instructions

This machine must be grounded. If it should malfunction or break-down, grounding provides a path of least resistance for electrical shock. This machine is equipped with a cord having an equipment grounding conductor and grounding plug.

The plug must be plugged into an appropriate outlet that is properly installed in accordance with all local codes and ordinances. Do not remove ground pin; if missing, replace plug before use.

Improper installation of the equipment-grounding conductor can result in a risk of electric shock. Be sure to check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. If the plug will not fit in the outlet do not modify either the plug or the machine's cord, instead have a proper outlet installed by a qualified technician.

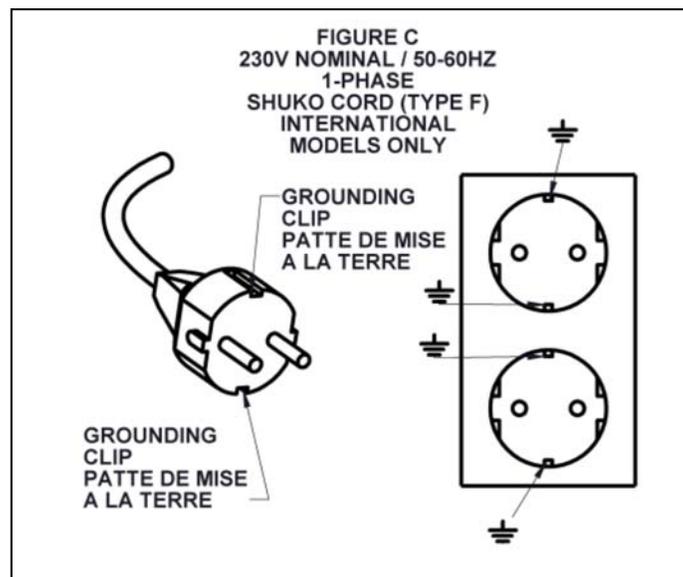
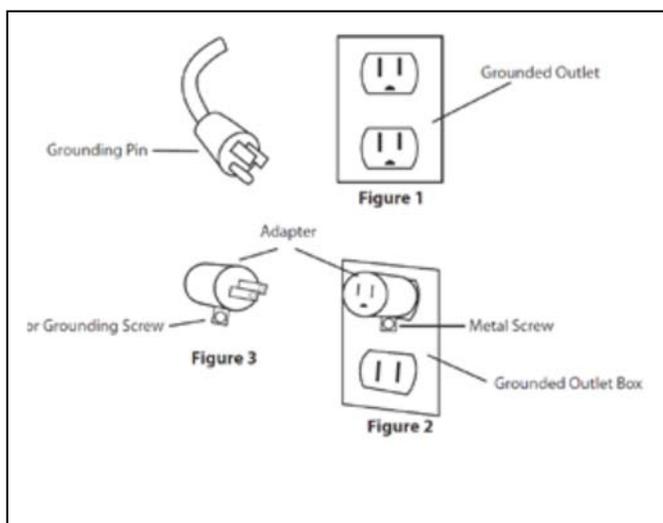
This machine is for use on a nominal 120-volt circuit and with a grounding plug similar to the one in Figure 1 below. If a proper outlet is not available, follow the illustrations of Figure 2 & 3 to install a temporary-grounding plug. This temporary work-around should be used only until a proper outlet (Figure 1) can be installed by a qualified electrician. When and if this type of adapter is employed, screw the adapter's extended tab into place with a metal screw. However, grounding adapters are not approved for use in Canada. Again, be sure to check the grounding pin for damages and replace if necessary. The Green, or Green-Yellow, wire in the cord is the grounding wire. When replacing a plug, this wire must be attached to only the grounding pin.

220-240 Volt Grounding Instructions

This machine must be grounded. If it should malfunction or break-down, grounding provides a path of least resistance for electrical shock. This machine is equipped with a cord having an equipment grounding conductor and grounding plug. The plug must be plugged into an appropriate outlet that is properly installed in accordance with all local codes and ordinances. Do not remove ground pin; if missing, replace plug before use.

Improper installation of the equipment-grounding conductor can result in a risk of electric shock. Be sure to check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. If the plug will not fit in the outlet have a qualified electrician or service person install the proper plug on to the cord.

This machine is for use on a nominal 220-240 volt circuit with a grounding plug similar to the one in Figure C shown below. Changes to the attachment plug or use of adaptors to other plugs must be done in accordance with local regulations.



3 Gallon Extractor

Pre-Operation

1. Carefully inspect the machine for any damage. If damage is evident, save all boxes/packing materials and contact the carrier immediately to file a freight damage claim.
2. Inspect power cord for damage. Replace/repair immediately if there is any damage.
3. Vacuum carpet and upholstery and remove other debris from the surface prior to using this machine.
4. Attach the solution hose. Make sure the quick disconnects snap together firmly. Inspect the hose for damage and replace immediately if necessary.
5. Attach the other end of the solution hose to the hand- tool or wand.
6. Attach vacuum hose to the recovery tank.
7. Fill solution tank with water or approved cleaning agent. Water must be less than 120 degrees. If using a cleaning agent, read and mix to the dilution ratios as directed. Use only non-flammable liquid in this machine.
8. Plug machine's cord into a grounded outlet (See grounding instructions). Do not operate machine with an extension cord.

Operation

1. Turn pump switch on.
 2. Pull up on tool trigger to release air in the line. Hold until a steady flow of water comes out of the hand tool/wand.
 3. Once pump is primed and there is pressure in the solution line, release the tool trigger.
 4. If the model is equipped with a heater, you can now turn on the heater and wait a few minutes for it to heat up.
 5. Turn the vacuum motor on.
 6. Begin cleaning making two dry passes to every wet pass.
 7. When recovery tank is full, turn on machine and separate from solution tank. Dispose off the used solution in the toilet or janitor's closet sink.
- Work away from cords to avoid damage.
 - Do not use citrus acid, butanol or harsh degreasers inside the machine.
 - Use a defoamer in the solution tank.
 - To clean heavily soiled areas, repeat cleaning from different directions.
 - When cleaning upholstery always check manufacturer's cleaning instructions.

After Use

1. Relieve water pressure from tool before disconnecting hose. Squeeze trigger for five seconds after turning main power switch off.
2. Unplug cords and hoses. Clean and wrap up hoses.
3. Inspect hoses and replace if damaged.
4. Inspect solution filter and clean or replace if damaged.
(depending of hour use, every 50 hours)
5. Open recovery tank cover to promote air circulation.
6. Store machine in a clean, dry place.
7. Do not expose to rain. Store indoors.

Maintenance Schedule

	Daily	Weekly
Clean and inspect tanks	X	
Clean and inspect hoses	X	
Check power supply cord	X	
Clean machine with all purpose cleaner and cloth	X	
Check spray nozzles on tools		X
Inspect vacuum hoses for holes and loose cuffs		X
Inspect machine for water leaks and loose hardware		X

Trouble Shooting

No power - Machine will not run

1. Inspect cord for damage.
2. Check power connection. Make sure the outlet is working by plugging another electrical item in, such as a drill, lamp or hair dryer.
3. Be sure machine is plugged into a proper outlet.

Pump not working properly - Loss of solution pressure

1. Make sure all quick disconnects are firmly pushed together and free of debris.
2. Ensure solution tank is not empty.
3. Jet may be clogged. Remove jet and flush clean. Pull trigger on hand tool or wand to ensure there is water pressure.
4. Remove any filters and rinse with clean water.
5. Check pump motor brushes. If worn, replace pump.
6. Switches on switch plate may need to be replaced.
7. Ensure all wires on the pump are connected.

Vacuum motor not working properly - Loss of Vacuum

1. Ensure vacuum hose cuff is attached securely to the vacuum hose port on the machine.
2. Clean out jets on hand tool/wand.
3. Remove any filters and rinse with clean water. Let dry.
4. Ensure recovery tank is properly installed back on the solution tank and the latch is tight.
5. Check all wire connections to the vacuum motor
6. Check vacuum motor carbon brushes. If worn, replace the carbon brushes or Vacuum motor as needed.

If all procedures have been made, and machine is still not working properly, contact your local authorized Dealer

NSS® Enterprises, Inc. Limited Warranty

Effective for machines purchased after August 1, 2015 (Revision S)

Warranty Registration

Register your new product by visiting www.nss.com and clicking on the "Product Registration" link.

Warranty Policy

NSS Enterprises, Inc. (NSS) warrants its new machines against defects in material and workmanship under normal use, service and maintenance (defined in the NSS Operation and Maintenance Manuals) for the warranty period as detailed below. This warranty is limited to machines and products that are purchased from an NSS Authorized Distributor or directly from NSS and is limited to the original end-user. Under this warranty, NSS will repair or replace, at its option, any covered part which is found defective in material or workmanship during the applicable warranty term or until the hour meter reaches the specified amount, whichever is first. This repair or replacement shall only be performed by an NSS Authorized Distributor or Service Center. All shipping charges for replacement parts or repaired machines will be the responsibility of the original end-user. When requested, machines and/or parts must be returned to NSS for inspection to obtain this warranty. NSS reserves the right for final determination of warranty coverage. Parts repaired or replaced under this warranty are warranted for the remainder of the original warranty period. When covered, a maximum of 4 hours travel time will be allowed. When out of the continental USA, Labor, Freight and Travel may have different considerations.

NSS will not be liable for any other or additional damages, including but not limited to indirect or special consequential damages arising out of or in connection with the furnishing, performance, use or inability to use the machine. The buyer agrees and understands that the remedies provided under this limited warranty are the sole and exclusive remedies available to the buyer. NSS reserves the right to change its warranty policy without notice.

Start date of warranty for MACHINES

The start date of this warranty is the purchase date by the original user, or six months from the date the machine was shipped from the factory, whichever is earlier.

Start date of warranty for BATTERIES, including those installed in machines at time of purchase

The warranty period for the batteries starts on the date of sale or 90 days after the machine was shipped from the factory, whichever is earlier. Batteries must be recharged at least once every 90 days.

Exclusions

This warranty shall not apply to: (1) Damage incurred during shipment. (2) Any product that has been subject to misuse, abuse, negligence, overloading or accident. (3) Improperly used products or use of the product for other than its intended purpose. (4) Failures due to lack of mandatory maintenance as described in NSS Operation and Maintenance Manuals, Videotapes and/or Wall Charts. (E.g., lack of scheduled lubrication or inadequate flushing of chemical solutions.) (5) Any machine modified from its original design (unless authorized by NSS) or repair services performed by non-authorized service centers. (6) Damage or failure resulting from the use of corrosive or incompatible chemicals. (7) Replacement of ordinary wear items including but not limited to: bumpers, belts, carbon motor brushes, electrical components exposed to moisture, filter bags, hoses, casters, wheels, gaskets, seals, cords, circuit breakers, switches, check valves, solenoids, pumps, squeegee blades, M-1 fans and fan hoods, and shoes on NSS manufactured cast aluminum tools. (8) Machines using after-market parts not supplied by NSS, including the ordinary wear items listed above.

Product	Parts	Labor	Travel	Hour Meter	Exceptions
BP Ranger, Model M-1 "Pig", Thoroughbred, Charger 1500, Charger 2500	7 years	1 year	6 months	-	Thoroughbred with weights (1 year parts)
Champ, Wrangler, Charger battery burnishers, eForce	3 years	1 year	6 months	2500 hours	Hour meter limit does not apply to W2016, W1710/2010 and W1503.
Maverick, Mustang, Galaxy, Colt, Outlaw, Pacer 30, Pony, Stallion, Aero	3 years	1 year	-	-	
Pacer 12/15 UE	2 years	1 year	-	-	Pacer 12/15 includes belt
Manta, Sidewinder, Alpha, Bronco, Predator, Surge, AquaForce, Whisker, Rally	1 year	1 year	-	-	
Polyethylene Rotomolded Tanks & Components	10 Years	1 Year	6 Months	-	
NSS Manufactured Cast Aluminum Tools	10 Years	1 Year	-	-	Does not include shoes
Tools and Accessories	1 Year	-	-	-	
SPE/Delta Q On-board Battery Chargers	2 Years	1 Year	6 Months	-	
Dual Pro On-board Battery Chargers	3 Years	1 Year	6 Months	-	
Batteries	1 Year, prorated	1 Year	1 Year	-	Prorated 1 year from warranty start date
Service Parts for out-of-warranty machines	90 Days	-	-	-	

Icon Definitions



Caution



Read manual



Vacuum Motor



Pump



Heater

RALLY 55 / 55H SPECIFICATIONS	
CAPACITY	
SOLUTION TANK	2.9 GALLONS (11 LITERS)
RECOVERY TANK	2.6 GALLONS (10 LITERS)
SOLUTION PUMP	
55 PSI	
VACUUM MOTOR	
2-STAGE, 1.25 HP	
RALLY 55H - HEATER	
1000 WATT	
SOUND LEVEL	
79 dBA (ISO 11201)	
DIMENSIONS	
HEIGHT	21 in (53 cm)
LENGTH	19.5 in (50 cm)
WIDTH	10 in (25 cm)
WEIGHT	
RALLY 55	32 lbs (14.5 kg)
RALLY 55H	34 lbs (15.4 kg)



NSS® Enterprises, Inc.

3115 Frenchmens Road, Toledo, Ohio 43607

PHONE (419) 531-2121 FAX (419) 531-3761

mailus@nss.com

www.nss.com