



SAVAGE[®]

RANGE SYSTEMS

Gunsmith Series
Models GD & GHD



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EXCLUSIVE LIMITED WARRANTY

PAYMENT REQUIRED: This Exclusive Limited Warranty will become effective and binding only upon timely receipt of payment in full to Savage Range Systems, Inc. ("SRS") for all amounts agreed to be paid to SRS for all services, or goods received or to be received, and will last for a period of one year from installation or delivery. Upon this Exclusive Limited Warranty becoming effective as set forth herein, SRS warrants that materials, equipment, goods, or services provided under this contract shall remain free from defects for a period of one (1) year. If within said 1-year period, SRS determines that a defect exists, then SRS will, at no charge to the customer, repair or replace materials and/or perform services so as to correct any defect covered under this warranty. Any claim made or submitted under this warranty must be issued or confirmed via a written notice received by SRS prior to the expiration of the 1-year period from the date of delivery or commissioning of the equipment. In the event warranty service, repair or replacement is requested, claimant shall (1) timely deliver written notice to SRS within the warranty period; (2) maintain a receipt of delivery of such timely notice; (3) fully cooperate with providing complete information necessary or as requested by SRS; and, (4) Upon request by SRS, provide access upon the premises as necessary to enable to SRS or its agent(s), to inspect, investigate or service the equipment.

SRS's obligations, and customer rights under this warranty, **shall become null and void** should customer fail to comply as set forth above or should the defect occur as the result of customer's failure to maintain the equipment as recommended herein. Additionally, this warranty **shall become null and void upon** misuse, abuse, usage of weapons or ammunition or procedures which exceed or differ from the specifications and parameters set forth in SRS product manuals, failure to timely deliver payment, or failure to timely provide written notice to SRS of a claim for warranty service, repair, or replacement, failure to take appropriate action under the circumstances so as to mitigate the damages or potential damages or injury. SRS accepts no liability for, and hereby specifically disclaims any direct, indirect, incidental, consequential or other damages incurred by the customer as a result of use or ownership of the equipment covered hereunder. The remedies detailed in this warranty shall represent SRS's sole and exclusive obligation and the customer's sole and exclusive rights under this warranty. No other warranties expressed or implied, **INCLUDING BUT NOT LIMITED TO WARRANTY FOR FITNESS FOR A PARTICULAR PURPOSE OR WARRANTY OF MERCHANTABILITY** shall apply to this contract, or the goods or services sold, performed or delivered.

I. INTRODUCTION

Congratulations on the purchase of your new Wet Snail™ Trap. The Snail Trap is the safest, cleanest, most cost effective method for capturing bullets available. Following the simple Operation & Maintenance procedures described herein will ensure that your Snail Trap will provide you with many years of trouble free, safe, containment of the ammunition used in your range.

The spent bullets from the Wet Snail Trap do not contain lead dust particles and can be sold directly to a metal salvage company.

Gunsmith Models GD & GHD are intended for high volume (>50 rounds per day) and will safely contain all ammunition rated up to 8100 (GD) or 13000 (GHD) Foot Pounds Energy (at Muzzle) excluding steel core, ceramic tipped or AP / API ammunition. Using ammunition that exceeds the above specification may result in damage to the Snail Trap and could result in injury to the Range Users.

In the unlikely event that a warranty issue arises, you may contact Savage Range Systems Customer Service at (800) 370 0712. Working with you, we will evaluate the problem and agree a solution. Failure to contact Savage Range Systems prior to taking corrective may limit our responsibilities under the warranty.

II. SAFEGUARDS & WARNINGS

THE GUNSMITH MODEL GD IS RATED TO SAFELY CONTAIN ALL AMMUNITION RATED UP TO 8100 FPE (AT MUZZLE) & THE MODEL GHD WILL CONTAIN ALL AMMUNITION RATED UP TO 13000 FPE. THIS EXCLUDES STEEL CORE, CERAMIC TIPPED OR AP / API AMMUNITION. USING AMMUNITION THAT EXCEEDS THIS SPECIFICATION MAY RESULT IN DAMAGE TO THE SNAIL TRAP AND INJURY TO THE RANGE USERS.

SHOOTING ANY FIREARM INTO ANY BULLET TRAP OR CONTAINMENT SYSTEM PRESENTS A POTENTIAL RISK OF HARM TO PERSONS AND / OR PROPERTY. EXTREME CAUTION SHOULD ALWAYS BE USED.

IMPORTANT SAFEGUARDS

Savage Range Systems, Inc. accepts no responsibility for the manner in which this trap is used and maintained. The owner completely accepts all risk and responsibility for the use of this trap, and shall take every precaution necessary to operate the trap in a safe manner. The owner must ensure that all applicable safety rules and regulations are followed. The trap should only be used as detailed in the attached instructions. This trap should be operated only by personnel trained in the safe use of firearms, and as instructed by the manual.

Read all instructions

Discard all bullets and bullet material in proper containers, as required by law and local ordinances

Only use manufacturer's recommended products with this unit.

Isolate the power supply to the pump prior to performing any maintenance on the Snail Trap unless otherwise instructed in this manual.

Do not exceed the ammunition rating as printed in these instructions and on the nameplate on the bullet trap.

WARNINGS

Close proximity shooting is by nature dangerous and we recommend the User wear proper Personal Protective Equipment (PPE) - gloves, face shields, hearing protection, etc. - when using or maintaining the Snail Trap.

To protect against risk of electrical shock do not operate the trap with a damaged pump or electrical cord. Use caution if the pump is dropped or damaged in any manner. A GFI receptacle is recommended.

Certain types of bullets may result in fragments being emitted from the trap.

Wash hands after each use or maintenance procedure.

III. INSTALLATION & STARTUP

NECESSARY TOOLS

Channel Locks or Adjustable Pliers
Drill with screwdriver attachment

Screw driver
Utility knife

INSTALLATION PROCESS

Unpack unit to verify that all components are accounted for as listed on the packing slip.

Attach the four (4) casters to the leg pads with the bolts provided.

Place the trap in a safe, well-ventilated location.

Insert the bullet collection tray into the tank. Place the tank beneath the bullet discharge chute so that the tray is directly beneath the opening.

Apply Teflon tape to the 1" threaded barb fitting and thread the fitting into the pump.

Connect the 1" vinyl tubing to the barb fitting and secure with one of the hose clamps.

Place the pump into the tank so that it is easily accessible.

Cut the 1" vinyl tubing to the desired length and connect the free end to the barb fitting in the bottom of the unit. Secure with the 2nd hose clamp provided.

Add fresh, clean water to the tank until it reaches a depth of approximately 9" - generally to the top of the pump.

Add the Xtreme Range 321 Oil to the tank. The ideal concentration is 5 - 6% oil / water. A useful guide is 1/2 cup of oil per gallon of water.

Plug the pump into a GFI protected outlet and allow the pump to run for several minutes while you check the hose & pipe connections for leaks. Tighten as necessary.

Secure the door.

If using the Snail Trap with a ventilation system, remove the 6" rubber cover and connect a 6" spiral extract duct to the spigot on the unit.

IV. OPERATION & MAINTENANCE

OPERATION

WARNING - Do not exceed the ammunition rating for the Snail Trap.

WARNINGS - Ensure that the operator is wearing proper hand, face and ear protection.

1. Plug in pump. Allow the pump to run for a few minutes to properly wet the bottom ramp and inside the deceleration chamber.
2. Place muzzle of firearm into the shooting port. Barrel should be horizontal to the floor and centered in the shooting port. **Improper barrel alignment will cause premature wear of the Snail Trap and could cause injury to the User.**
3. When finished using the trap, unplug the pump.
4. Remove all litter / debris from the collection tray.

NOTICE -The firing of any gun may cause liquid to splash onto the barrel. This is not harmful to the firearm as the liquid has an oil base. Simply wipe off with a dry cloth.

ROUTINE & PREVENTIVE MAINTENANCE

Daily

Check water level in tank with the pump switched off. Water should be above pump housing or at least 8" deep. Top up with clean water as necessary.

Check level of spent bullets in the tray. Remove salvage material before the level reaches the top of the tray. To empty the tray, remove the tray from the tank and dispose of the spent rounds in the proper recycling container.

Check the spray pattern of the spray bar to ensure that the ramps and deceleration chamber are being properly wetted.

Ensure that access door is tight. The vibrations from rounds striking the trap can loosen the bolt.

Weekly

Check Xtreme Range 321 Oil concentration using a refractometer*. Oil concentration should be between 5% & 6%. Add oil as necessary.

Inspect the trap for signs of damage or excessive wear. If any damage is noted, stop use of the trap and call Savage Range Systems (1-800-370-0712) immediately and speak to Range Product Support.

Using a metal scoop, remove any sludge build-up on the bottom of the tank and place in the proper container for either recycling or disposal.

V. TROUBLESHOOTING

Problem	Probable Cause	Possible Solution
No water flow	Pump not turned on	Switch on pump
	No power to pump	Ensure pump are plugged in Check circuit breaker
Poor water coverage / Low Flow	Pump is not working	Check power supply Plug pump into socket Reset pump - See Manufacturer's manual Replace pump
	Low water level	Add water until level to top of pump housing.
	Vinyl Tubing is kinked	Check tubing to ensure there are no kinks/blockages. Correct as necessary.
Pump is not working	No power to pump	Check plug Check circuit breaker
	Pump has overheated and tripped out	Reset pump Low water level - bring water level to top of pump Excessive sludge around pump - remove sludge
Lubricating fluid is foaming	Faulty pump	Replace pump
	Oil concentration is too high	Reduce concentration by removing some fluid and replacing with clean water
	Insufficient foaming retardant	Add anti-foaming agent - contact SRS
	Excessive un-burnt powder in fluid	Filter or replace fluid in tank

VI. MAINTENANCE PROCEDURES

Cleaning the Bullet Collection Tray

Depending on the amount of material on the tray, it may be possible to simply remove the tray from the tank and place the spent material in the proper container. For larger amounts of debris, it will be necessary to remove the material from the tray using a small flat-faced shovel.

1. Run the pumps for 2 - 3 minutes prior to clearing the trap to ensure that there is no dried dust on the material in the tray.
2. Remove the collection tray and deposit the spent material into the chosen reclamation container.

Replacing a Pump

1. Unplug / isolate the electrical supply to the pump.
3. Remove the bullet collection tray. If necessary, remove the spent bullets from the tray as described previously.
4. Remove the pump from the tank.
5. Loosen the hose clamp securing the vinyl tubing to the barb fitting.
6. Remove the vinyl tubing from the fitting. It may be necessary to use a pair of channel locks to loosen the tubing on the fitting. Care should be taken not to damage the tubing.
7. Remove the barb fitting from the old pump.
8. Install the barb fitting removed above into the new pump. Attached the vinyl tubing to the fitting using the hose clamp to secure it.
9. Place the pump into the tank. Run the pump to verify that the proper flow rate is obtained.
10. Replace the bullet collection tray.

VII. REPLACEMENT OF PARTS / COMPONENTS

Replacement or repair of parts can be ordered directly from Savage Range Systems, Inc. Call (800) 370 0712, Range Product Support, for assistance or visit our website at www.SavageRangeSystems.com.

Item	Part No.	Manufacturer / Supplier
Bullet Collection Tray	030116	Savage Range Systems
Ribbed Tank	710024	Savage Range Systems
Smooth Tank	030117	Savage Range Systems
Pump	030121 (115V) 501012 (230V)	Little Giant
4" Safety Cover (black)	710016	Savage Range Systems
6" Vent Cover	710026	Savage Range Systems
Xtreme Range 321 Oil		Savage Range Systems
1-quart	710028	
1-gallon	710029	
5-gallon	710030	
Anti-Foam (1-gallon)	710001	Savage Range Systems
Refractometer*	190121	Savage Range Systems

VIII. MANUFACTURER'S LITERATURE

- Little Giant Pump
- Xtreme Range 321Oil (MSDS)