



Snail[®] Systems
BULLET TRAPS AND RANGES

Dry Snail Trap

Operation & Maintenance
Procedures

Savage Range Systems, Inc.
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SAFEGUARDS & WARNINGS**USING AMMUNITION THAT EXCEEDS THE RATED CAPACITY OF YOUR TRAP
MAY RESULT IN DAMAGE TO THE SNAIL TRAP AND INJURY TO THE RANGE
USERS.****WARNINGS**

- Wear proper Personal Protective Equipment (PPE) when using or maintaining the range or equipment.
- Wash hands after each use or maintenance procedure.

IMPORTANT SAFEGUARDS

Savage Range Systems, Inc. accepts no responsibility for the manner in which this range is used and maintained. The owner completely accepts all risk and responsibility for the use of this range, and shall take every precaution necessary to operate the range in a safe manner. The owner of the range must ensure that all applicable safety rules and regulations are followed. The range should only be used as detailed in the attached instructions. This range 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.
- Do not exceed the ammunition rating as printed in these instructions and on the nameplate on the bullet trap.
- Do not store materials on the back of the upper ramps. It should not be used as a storage area or as a means of accessing high level items (HVAC, power, etc.) above the bullet trap.

ROUTINE & PREVENTIVE MAINTENANCE

Weekly

Bullet Trap

- Check level of spent bullets in the buckets. If supplied with an Automatic Bullet Collection System, check level of spent bullets in the drum.
- Remove any debris (target backing, shot gun wads, etc.) from the lower ramps.
- 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.

Monthly

In addition to Weekly Maintenance items:-

Bullet Trap

- Inspect: -
- Inspect: -
 - Deceleration Chambers, Upper And Lower Ramps - check for dents, gouges, scoring or other signs of wear or misuse.
 - Edge Protectors - check for sharpness of leading edge, dents, gouges, scoring or other signs of wear or misuse; proper alignment and tightness.
 - Sidewall Plates - check for tightness and wear.
 - Deceleration Chamber- check for dents, gouges, and scoring or other signs of wear or misuse.
 - All Trap Components - for corrosion of plates, supports, and nuts and bolts.

Auger

- Refer to the Martin Sprocket & Gear Maintenance Manual for complete maintenance procedures

REPLACEMENT 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.snailtraps.com.

Item	Part No.	Manufacturer / Supplier
Edge Protector	215123	Savage Range Systems
Deleading Handwash	501022	Savage Range Systems
Auger Components - See Martin Sprocket & Gear Manufacturer's Literature		Martin Sprocket & Gear
3-Gal. 29 Ga. Black Steel Pail	08W96N	The Cary Company
Dish Cover (bucket lid)	26WD6L	The Cary Company
Locking Ring	26WLLR	The Cary Company

TROUBLESHOOTING

Problem	Probable Cause	Possible Solution
Auger not functioning	Not turned on	Switch conveyor on
	No power	Check supply / circuit breaker
	Refer also to Martin Sprocket & Gear's literature	
Inclined Auger Faults	Bullet Collection Drum is over filled	Replace drum. Remove blockage in hose & auger.
	Rubber connection hose is kinked.	Reposition drum to remove kink. Clear blockage in auger.
Main Auger Faults on Start-up	Auger is overloaded as a result of the Snail Trap being used WITHOUT the auger running.	Remove 3" wide side pieces between auger housing and bullet trap. Manually remove material until system can operate.

MAINTENANCE PROCEDURES

- Replacing Edge Protector
- Replacing the Spent Bullet Collection Drum
- Replacing the Spent Bullet Collection Bucket
- Welding Procedures

Inspecting / Re-sharpening / Replacing the Edge Protector

The edge protector is shaped like an axe head and is designed to prevent bullets hitting the welded seam of the deceleration chamber endplates. This eliminates the hazard of bullet fragments returning towards the firing line while protecting the weld from damage. If the edge protector starts to have any more of a flat face measuring more than 3/16" across, it must be sharpened.

1. To remove the edge protector, remove the nut and bolt securing it in place. In some models, the edge protector may be welded in position. These can be removed by grinding the welds and use a hammer to loosen the protector.
2. Using a hard disc grinder, re-shape the edge protector to provide a sharp edge to the unit. **Proper PPE should always be worn when using grinding / rotating equipment.**
3. If there is insufficient material remaining to enable you to re-shape the unit, a new edge protector must be installed.
4. Re-install the edge protector using the bolt removed in Step 1. If the edge protector was welded in position, a 3/4" bead of weld on each side is sufficient.

Replacing the Spent Bullet Collection Drum

5. Lock-out / Tag-out the power supply to the Bullet Recovery System.
6. Remove the drum ring securing the drum head to the barrel. Remove the drum head.
7. Seal the filled drum and remove from beneath the auger.
8. Place an empty drum into position and attach the drum head using the clamp ring removed in Step 2.

Replacing the Spent Bullet Collection Buckets

1. Release the locking ring securing the metal cover to the bucket.
2. Lift the metal cover off the bucket and hold out of your way.
3. Remove the filled bucket and replace with an empty bucket.
4. Secure the metal cover to the new bucket.

Welding Procedures

1. Clean the area with a wire wheel or grinder.
2. Groove out the crack in the weld. This assures good penetration for the repair.
3. After the repair area is cleaned, weld the crack using 7018 welding rods or equivalent MIG wire.
4. Touch up with gray primer.