



RTC

SAFE OPERATING MANUAL

IMPORTANT

READ OPERATING MANUAL BEFORE

OPERATING TRAP

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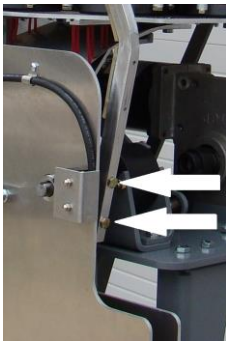
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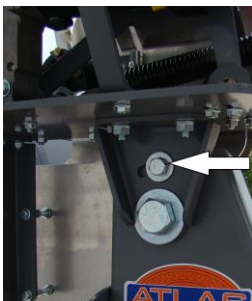
All personnel required to operate the trap or load targets into the magazine, should read this instruction manual and be trained by someone knowledgeable as to the safe operation of the equipment.

ASSEMBLY INSTRUCTIONS / SET UP

- Remove trap from packaging.
- Inspect packaging and make sure there is no damage. If any damage has occurred during shipping, contact the freight carrier and Atlas Trap Co.
- Mount trap to sturdy base. The palette that the RTC was shipped on can be used as a secure base.
- Always stand at rear of trap, never on either side or in front.
- The RTC will throw regular targets in the chandelle and teal positions.
- On the back of the trap you will find a control box. On this control box you will find a toggle switch, firing button, 30-amp circuit breaker and a plug-in for the release mechanism. Make sure the toggle is switched down. Even though toggle is in the down position motor will still operate if firing button is pressed. **DO NOT PRESS FIRING BUTTON DURING SET UP!**
- Plug in release cord to the 3-prong twist-lock plug hanging from control box.
- There are 2 throwing arms that are used with the RTC: the straight arm is for throwing rabbit targets across the ground. The bent arm is for throwing chandelle or teal targets. To change from one arm to the other you will need to remove the 2 – ¼” bolts from the throwing arm. After removing both bolts the arm is free to remove. Install desired throwing arm and reuse the 2 – ¼” bolts. See image below:



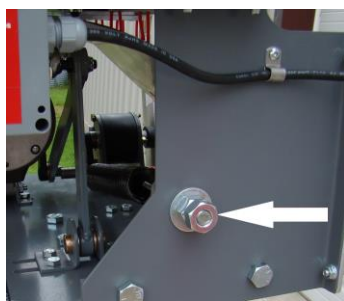
To throw rabbit targets across the ground the RTC will need to be level with the ground and have the straight arm installed. You can slightly adjust the vertical angle to change the distance at which the clay contacts the ground. By adjusting the vertical angle the clay will either contact the ground closer to the machine or farther away, depending on the angle adjustment. To change the angle adjustment you will need a 3/4” wrench. Slightly loosen bolt shown in image below and set machine to desired angle.



- Use caution when adjusting the angle elevation of the trap. It is advisable to do this with the trap empty. Once the trap is full of targets it will be much more rear-heavy and could tilt backward very quickly.
- To throw chandelle or teal targets the bent throwing arm will need to be installed. For chandelle targets the RTC will need to be parallel with the ground. For teal targets the machine will need to be tilted back by adjusting the bolt shown on the previous image. You can fine-tune the angles by tilting the machine up or down.
- The RTC comes with a tilting base. You can tilt the machine left or right by loosening the bolts in the picture below. Slightly loosen the top bolt and support the trap with by hand until it reaches the desired tilting angle. Once it is in place retighten the top bolt. The trap must be secured to a sturdy base prior to setting the tilt angle. If the machine does not tilt after loosening the top bolt you may need to loosen bottom bolt. See image below.



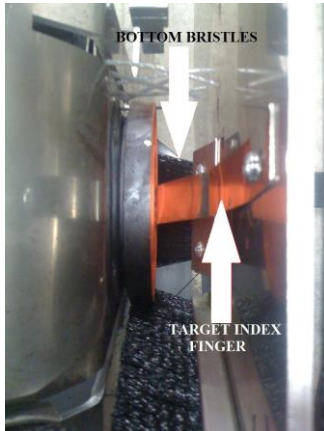
- Load targets into magazine.
- The blue spring has already been installed in your new RTC. The spring is adjustable to throw different speed and distances. To throw faster or farther targets you will need to tighten the main spring. To throw slower or shorter distances, loosen the spring. Should you decide to loosen or tighten the spring you will need a 3/4" wrench. Once you have set the spring to the desired tension, tighten jam nut so that the tension bolt is tight and not flopping when it passes through the frame. See image below.



- Before connecting to battery, read and understand all safety instructions noted in this guide.
- Stand at rear of trap and stay clear of throwing arm. Attach battery terminals to battery. Flip the toggle switch to the up position. Trap will cock at this time. Always remember, when trap is connected to battery, trap is cocked and ready to fire. When trap is disconnected from battery, it may still be in the cocked position. See safety precautions and de-cocking procedures.

TARGET CHUTE ADJUSTMENT

- For proper feeding of the clay target, the carousel will advance after every throw. The clay should drop onto the target ramp and slide down into the chute while resting on the bottom black bristles. You will notice there are other black bristles that help align the clay target. You will also find a stainless steel target index finger that pushes the clay target flat against the target launch plate. If the clay is not flat against the launch plate the clay will break upon firing. The target index finger can be adjusted in or out to position clay flat against the launch plate. The clay needs to rest on the bottom bristles, if it does not the bottom bristles can be adjusted in or out as needed.



BATTERIES

- You must use a 12-volt deep cycle marine type battery.
- Keep battery fully charged, low battery voltage may cause excessive motor heat, slow cocking time, blowing of circuit breaker and early motor failure, etc.
- Always inspect battery clips on trap, keep them clean.
- Charge battery when not in use with a trickle charger.
- Trap is polarity protected.

TIMING ADJUSTMENT

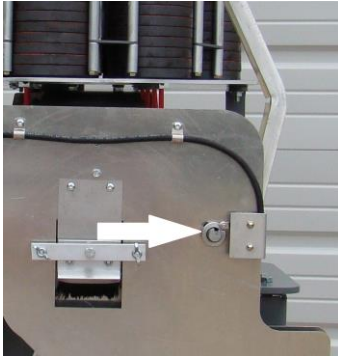
To adjust the timing you will need to locate the micro switch and timing cam (see image below). The timing is in proper adjustment when the clay target is approx $\frac{1}{4}$ to $\frac{3}{4}$ " from the polyurethane throwing strip while in the cocked position. This distance can vary by $\frac{1}{4}$ " either way. If the clay target is too far from the throwing strip you will need to advance the timing. If the trap continues to fire through the timing adjustment is too far advance and will need to be slowed down.

To advance timing:

1. Unhook all battery cables from the battery.
2. Loosen set screw in the side of the timing cam.
3. To advance the timing you will need to turn the timing cam clock-wise in $\frac{1}{8}$ " increments. For even finer tuning you may need to turn the timing cam in increments of $\frac{1}{16}$ ".
4. Make sure timing cam does not move while you retighten set screw.
5. Load trap with clays, hook trap to battery and throw 2 clays to see if trap is in proper adjustment. You may need to repeat steps 1-5.

To slow timing:

1. Unhook all battery cables from the battery.
2. Loosen set screw in the side of the timing cam.
3. To slow the timing you will need to turn the timing cam counter clock-wise in 1/8" increments. For even finer tuning you may need to turn the timing cam in increments of 1/16".
4. Make sure timing cam does not move while you retighten set screw.
5. Load trap with clays, hook trap to battery and throw 2 clays to see if trap is in proper adjustment. You may need to repeat steps 1-5.



RELOADING MAGAZINE

- When trap is completely out of targets you will need to turn toggle switch to down position and fire trap – unhook from battery.
- Manually place a target in the target chute and hook trap to battery. Hold firing button down until trap fires and unhook from battery. You are now ready to reload the magazine. Once the magazine is full you may hook trap to battery and turn toggle switch to the “up” position. Make sure that the target is positioned correctly in the target chute. You are now ready to resume firing targets.
- It is much easier to reload machine prior to running out of targets. As long as there is one row of targets in carousel you should be able to simply add targets to carousel after unhooking trap from battery.
- Excessive dry firing of trap puts a heavy load on trap components.

WIRELESS REMOTE

1 – 12 Volt Transmitter

1 – 12 Volt Receiver LT-100

To connect the wireless remote to your RTC:

1. Find a suitable location to mount the receiver.
2. Plug in 3-prong twist-lock plug at rear of trap.
3. The receiver is now in ready-mode.

To use transmitter:

1. Once receiver is connected to trap, trap and receiver are connected to battery, transmitter is ready to use.
2. When ready to fire, press button on transmitter until trap fires. Do not hold button down. This will cause the trap to continuously fire and break targets.

***Transmitter is NOT waterproof. Approximate range on transmitter is 100 yards line of sight.

SAFETY PRECAUTIONS

- Stand to rear of trap. Stay clear of throwing arm path, which is 360°. If toggle is in the up

position, trap will immediately cock. If toggle is in the down position, trap can still fire if firing mechanism is pressed.

- Mount trap only to secure fixture. Throw targets only in a safe direction. Know target path as well as shooters zone of fire.
- All spectators, bystanders, operators and shooters stand behind trap, not to either side or front. Wear safety glasses. Never allow children near trap.
- Approach trap only from rear, not from front or either side.
- Never allow persons less than 18 years of age to operate or approach trap. Never allow persons to operate trap who have not read and understand information contained in this instruction manual.
- Never leave cocked trap or firing button unattended. Always un-cock trap after use and before moving.
- Targets may be thrown in rapid succession. However, continuous cycling may cause motor to overheat. Do not allow motor to overheat!
- Never adjust, tamper or transport trap while cocked or connected to battery. Remember if trap is disconnected from battery it is still cocked unless it is un-cocked by you.
- **To partially un-cock trap**, follow steps 1-4.
Step 1. Switch toggle to down position.
Step 2. Make sure there is a clay in the machine and tap firing button until trap fires.
Step 3. Remove both battery clips from battery immediately following firing of trap.
OR, simply remove spring tension nut that is attached to spade bolt at rear of trap and manually rotate throwing arm counter-clockwise until throwing arm is straight out front of trap.
- **Never touch or push on throwing arm. Touching or pushing on throwing arm could cause trap to fire without warning. Also, pushing on throwing arm will cause crank shaft to crash into gearbox gear and will void warranty.**

TROUBLE SHOOTING

PROBLEM: Trap will not cock or blowing fuses.

SOLUTION: Battery is dead or weak. Charge battery or replace. Check wire to make sure that it is not broken at clip. It is not good to operate trap on a weak battery.

PROBLEM: Trap will not feed targets. Trap breaks targets

SOLUTION: Make sure targets are not moist. Old targets draw moisture.

PROBLEM: Target has short throwing distance.

SOLUTION: Spring is too loose. Spring may have lost temper, if so, tighten or replace spring.

PROBLEM: Excessive target breakage.

SOLUTION: Allow throwing arm to completely stop before holding down on the firing button.

WARRANTY INFORMATION

TRAP: **5 year Limited Warranty** against defects in material and workmanship.

CLUTCH: The Dura-Clutch™ - **Lifetime Limited Warranty** against defects in material and workmanship.

WARRANTY applies to original purchaser with original receipt.

Equipment, with factory inspection, that reveals to be defective in material or workmanship within the terms of this warranty shall be replaced or repaired at no charge. Equipment that reveals to be abused, misused, or damaged by exposure, water, or lightning will not be covered under warranty. But, will be repaired at a reasonable charge to customer. Gears in motor are not covered under warranty. However, gear motors that are denied warranty will be replaced at a 50% reduction of current published price. Mainsprings are not covered under warranty.

Shipping for warranty related items are to be paid by customer to and from factory.

DISCLAIMER: Atlas Trap Co., Inc. liability under this warranty shall be solely limited to repair or replacement of products or components within the warranty period. Atlas Trap Co., Inc. or its officers or employees shall not be liable under any circumstances for consequential or incidental damages including but not limited to personal injury or labor cost acquired and not authorized by Atlas Trap Co., Inc.