



ATLAS MODEL: PATRIOT

SAFE OPERATING MANUAL

IMPORTANT

READ OPERATING MANUAL BEFORE

OPERATING TRAP

ATLAS TRAP CO, INC.

14200 SW 50TH

BENTON, KS 67017

TEL 316-778-2002

FAX 316-778-2001

WWW.ATLASTRAPS.COM

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

- Remove trap from packaging.
- Rotate throwing arm counter clock wise until straight out in front of trap. Lay trap on side. Follow rubber band inside the trap. Remove rubber band and hook mainspring through spade bolt on crankshaft (where rubber band was connected). Hook spade bolt eye-bolt (included in packaging) over other end of spring and slide through 3/8 hole in rear of trap. Thread on 3/8" nut and jiggle spring as you tighten 3/8" nut, while keeping spring eyes from binding. Nut should be tightened until it bottoms out. Turn nut until snug. Install second 3/8" nut and jam against first 3/8" nut.
- Place trap upright. Plug in release cord on rear of trap. Adjust elevation by loosening 4 adjusting bolts (2 on each side of machine where the base attaches to the frame). Set elevation to desired angle and retighten the 4 adjusting bolts.
- Place magazine rods (included in packaging) over studs on magazine and hand tighten. The 2 rods with rubber sleeves attach to the front 2 studs on magazine.
- Place steel crescent ring (included in packaging) over top four magazine rods and install with 1/4"x3/4" Allen bolts, tighten bolts with wrench provided. Cut out should be toward the rear of trap.
- Mount trap to sturdy base.
- Load 108mm targets into magazine making sure black brake shoe is positioned with cutout portion down, if not, pull back spring loaded black and turnover.
- Before connecting to battery, read, understand all safety instructions noted in this guide.
- Stand at rear of trap and stay clear of throwing arm. Make sure toggle switch is in the "down" position. 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 is still in the cocked position. See safety precautions and de-cocking procedures.

BATTERIES

- You must use a 12-volt deep cycle marine type battery.
- Keep battery fully charged, low battery voltage causes excessive motor heat, slow

cocking time, 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.

RELOADING MAGAZINE

- When trap runs out of targets it is difficult to install targets while trap is in cocked position. Install new targets before trap runs completely out of targets.
- To reload magazine turn toggle switch to the down position and press firing button. This will fire the trap and allow the target plunger to move out of the way to allow for clays to be loaded. Make sure brake shoe is in the up position and reload clays. Stand behind the trap and turn toggle switch to the up position. Arm will now move to the cocked position.
- Excessive dry firing of trap puts a heavy load on trap components.

SAFETY PRECAUTIONS

- Stand to rear of trap. Stay clear of throwing arm path, which is 360°. When trap is connected to battery it will immediately cock. Thus fill with targets before connecting to battery.
- 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.
- 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. Remove positive battery clip from battery.
 Step 2. Push and hold firing button down.
 Step 3. Tap positive battery clip to positive post on battery until trap fires.
 Step 4. Remove both battery clips from battery immediately following firing of trap.
OR, simply remove spring tension 3/8" nut and manually rotate throwing arm counter-clockwise until throwing arm is straight out front of trap.

ATA/OSCILLATING BASE MOUNTING INSTRUCTIONS

1. Remove 2-3/8" bolts from top plate of ATA/oscillating base. You will reuse these bolts to secure trap to ATA/oscillating base.
2. Set trap on top of ATA/oscillating and secure in the middle 2 holes with supplied bolts.
3. When Trap is mounted to oscillating base it is ready to be used. Make sure the trap and oscillating base are clear from any obstructions that could bind either the trap or the oscillator. Hook both battery clips to a Deep-cycle marine battery.

For technical assistance please call 316-778-2002.

CART ASSEMBLY:

Tools required:

1 – 9/16" wrench

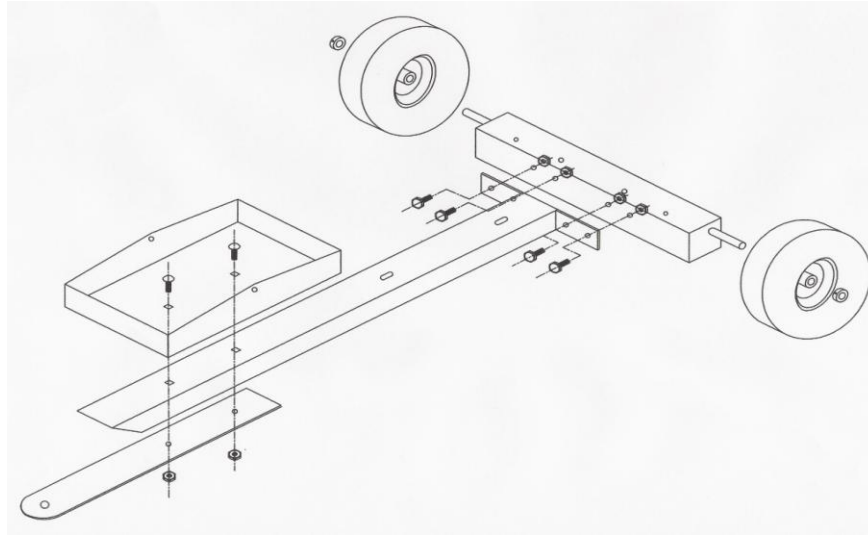
1 – 5/32" Allen wrench

1. Remove cart from packaging.
2. Remove axel from inside the long cart tongue.
3. Remove both battery box bolts and remove the hitch tongue that is inside the long cart tongue.
4. Turn this hitch tongue 180°. You want the small hole in hitch tongue extended outside of the long cart tongue.
5. The holes in the long tongue, battery box and hitch tongue will all line-up. Reinstall the battery box bolts (the ones you removed first) through all 3 items.
6. Place axel through axel housing and mount tires on axel. Use the 5/8" set collars to hold the tires on.
7. Mount trap on axel housing and tongue with the 4-supplied bolts.

For carts that have an ATA/oscillating base: skip step 7 and proceed to step 8.

8. Mount 12"x 2" strap to long cart tongue using supplied hardware. Align center hole of

- strap to center hole on long cart tongue (between battery box and axel housing).
9. You are now ready to set trap and ATA/oscillating base onto the cart. Trap should mount directly down on the axel housing. For rear of trap, use 3 washers (supplied) between the strap and the ATA/oscillating base, on each side, to create proper spacing. Use 1/4" bolts (supplied) in all 4 corners of base to secure.
 10. Trap should throw away from battery box.



WIRELESS REMOTE

- 1 – 12 Volt Transmitter
- 1 – 12 Volt Receiver LT-100

To connect the wireless remote to your Atlas Trap:

1. Find a suitable location to mount the receiver.
2. Plug in male adapter to trap. (AT50 - bottom-side of trap, AT250 & PATRIOT - rear of trap).
3. Connect red clip to positive terminal on battery. Connect black clip to negative terminal on battery. You may connect to the same battery that powers the trap.
4. 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.

TIMING ADJUSTMENT

To adjust the timing you will need to locate the micro switch and timing cam (see figure 1). The timing is in proper adjustment when the clay target is approx $\frac{1}{2}$ " 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 clay target is too close, or on top of, the throwing strip, you will need to retard the timing.

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 (see figure 2). 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 retard 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 $\frac{1}{8}$ " increments (see figure 3). 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.

Figure 1.

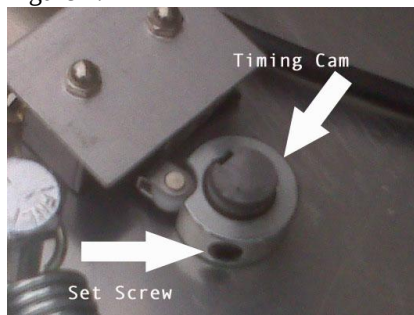


Figure 2.

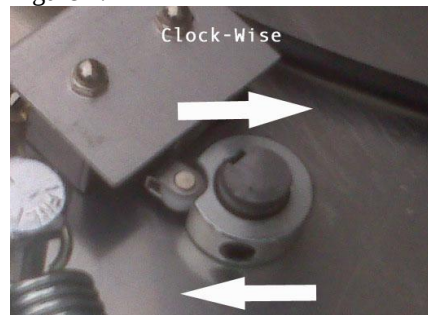
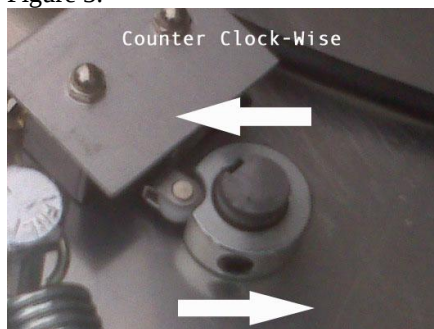


Figure 3.



COUNTER BALANCE INSTALLATION:

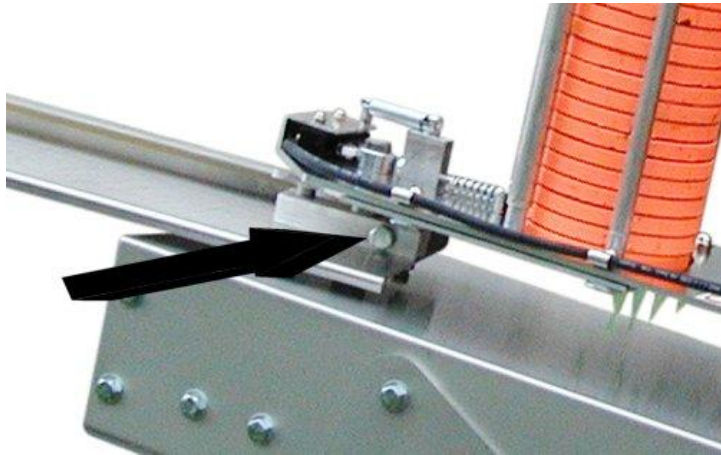
When an ATA/oscillating base is added to your Atlas Model AT50 or PATRIOT, a counter balance is needed. The counter balance is going to attach to the pinch clamp which is located on the throwing arm. Please follow the steps below to install the counter balance.

PLEASE UNHOOK THE TRAP FROM THE BATTERY AND REMOVE THE MAIN SPRING.

- Step 1. Move throwing arm until it is pointed straight out in front of trap.
- Step 2. Locate the pinch clamp. It is mounted to the throwing arm.
- Step 3. Remove the 3/8" pinch clamp bolt. You will need to reuse the 3/8" nut and washer.
- Step 4. Using the supplied counter balance and supplied 3/8"x 1 3/4" bolt, insert bolt through washer then insert through counter balance.
- Step 5. Slide entire mechanism through pinch clamp and re-attach 3/8" nut.
- Step 6. Tighten to 30 ft/lbs.

You are now ready to reinstall main spring and load with clays.

SHOOT SAFELY



TROUBLE SHOOTING

PROBLEM: Trap will not cock or blowing fuse/circuit breaker.

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.

SOLUTION: Shift plate is clogged with target dust or debris. Tap shift plate with plastic

hammer. Do not lubricate.

PROBLEM: 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, replace spring.

PROBLEM: Excessive target breakage.

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

WARRANTY INFORMATION

TRAP: 2 **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.