



ATLAS MODEL: HARE

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

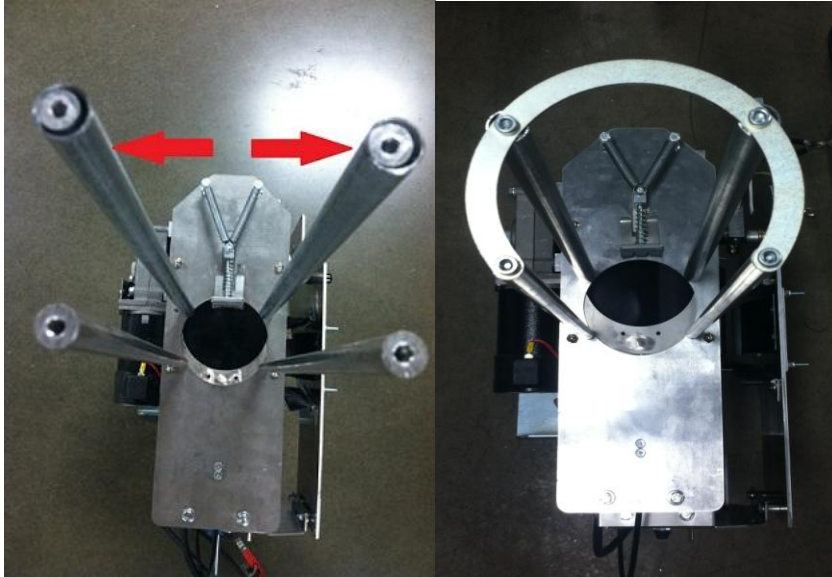
- Remove trap from packaging.
- On the rear of the trap you will find a control panel decal. On this decal you will find a toggle switch, firing button, 30-amp circuit breaker and a plug-in for the release mechanism. Make sure the toggle is switched down. Even though toggle is in the down position motor will still operate if firing button is pressed. **DO NOT PRESS FIRING BUTTON DURING SET UP!** The blue hand knob controls the spring tension. This tension sets the speed and distance of the target. To increase the speed/distance simply turn the hand knob clock-wise. To decrease speed/distance turn the hand knob counter clock-wise until the required speed/distance is set. Make sure that the target is traveling, at least, 30 yards. If it is not throwing 30 yards the spring tension is set too loose and you will need to tighten it.



- Plug in release cord at rear of trap (shown above).
- Adjust elevation by loosening the bolt below. Set elevation to desired angle and retighten the adjusting bolts.



- There are 4 aluminum magazine rods and 2 larger rods included in the packaging. Place 4 magazine rods over threaded studs on magazine and hand tighten. The 2 larger rods (shown with red arrows below) fit over the front 2 aluminum rods.



- 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 shown in right-hand image.
- Mount trap to sturdy base.
- Load rabbit targets upside down in magazine. **The Hare™ will not throw targets that are right side up.**



Correct

Incorrect

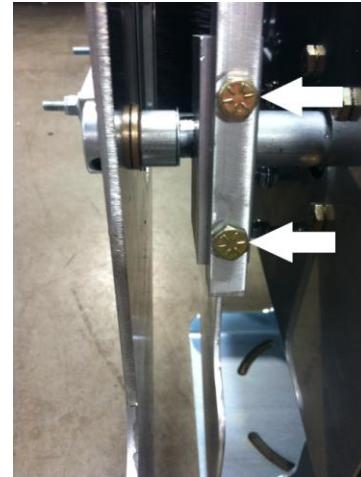
Your Hare™ is capable of throwing standard (chandelled or teal) or rabbit (rabbit) clays. Rabbit clays are thinner than standard clays and must be loaded upside-down. Standard clays must be loaded right-side up. Therefore, the throwing arm and chute will need to be adjusted depending on your desired target presentation. The white arrows (image on right) are pointing to the throwing arm mounting bolts. You will need to slightly loosen these 2 bolts to move the throwing arm left or right on the shaft. For rabbit clays you must loosen the 2 throwing arm bolts and slide the throwing arm to the right, as shown in the left-hand image. For standard clays loosen the 2 throwing arm bolts and slide the throwing arm to the left, as shown in the center image. Keep in mind the throwing arm must be “**in for rabbit**” “**out for standard.**”



(rabbit targets - in)

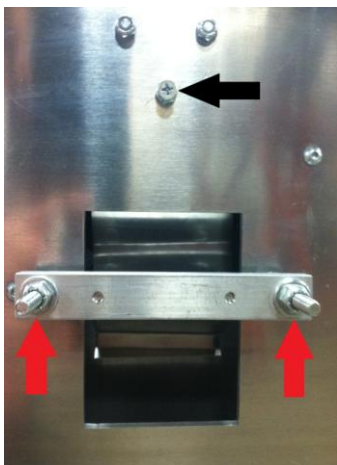


(standard targets - out)

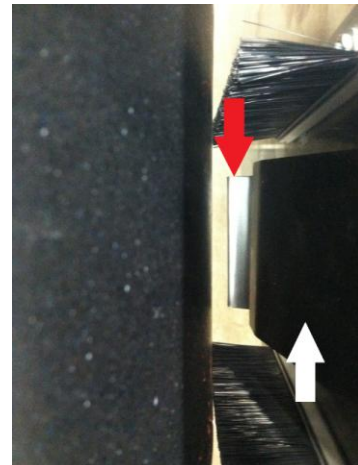


(throwing arm bolts)

In addition to moving the throwing arm in/out, you will also need to adjust the target chute shown below on the right. The red arrow is pointing to the bottom tensioner that clay will rest on until fired. For rabbit clays it will need to be adjusted closer into the chute to hold the clay. The top tensioner, shown below on the right with the white arrow, will also need to be adjusted closer to the clay to keep the top portion of the clay flat against the launch plate. There must be a gap of approximately 1/8” between the top tensioner and the clay. When using standard targets, both tensioners will need to be adjusted out away from the clay. To adjust the bottom tensioner you will need to loosen the locknuts shown below on the left with the red arrows. The black arrow is pointing to the top tensioner adjustment screw. To move the top tensioner in you will turn the screw clock-wise. The bottom tensioner is in proper adjustment when you can slide the target through the tensioner manually and feel slight tension on the clay – not enough tension will cause the clay to prematurely fall out the bottom of the chute before firing. Too much tension on the bottom tensioner will cause excessive clay breakage.



(red – btm tensioner, black – top tensioner)



(white – top tensioner, red – bottom tensioner)

- 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. To fire a target simply push remote button and let off. This will fire one target and reset for the next target. Holding the firing button down continuously will cause the trap to mis-feed and break targets. You can consecutively fire targets from the machine by pushing fire button and letting off. 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, 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.
- Excessive dry firing of trap puts a heavy load on trap components.

TIMING ADJUSTMENT

To adjust the timing you will need to locate the micro switch and timing cam (see image below, red arrow is pointing to the white timing cam). The timing is in proper adjustment when the clay target is approx ½” from the polyurethane throwing strip while in the cocked position. This distance can vary by 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.

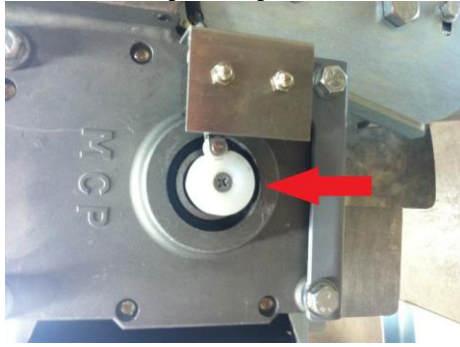
To advance timing:

1. Unhook all battery cables from the battery.
2. Loosen Phillips head screw in the side of the timing cam.
3. To advance the timing you will need to turn the timing cam clock-wise in 1/8” increments (see figure 2). 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 Phillips head 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 Phillips head 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 (see figure 3). 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 Phillips 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



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 1-3.
Step 1. Make sure there is a clay on the throwing arm and in the cocked position.
Step 2. Turn toggle switch, on rear of trap, to the “down” position.
Step 3. Tap firing button until trap fires. The arm will travel to the “9 o’clock” position and stop. The trap is in the semi de-cocked position. From here you can loosen the spring tension and store trap.

Trap is fully un-cocked when unhooked from the battery, the spring tension has been completely released and the throwing arm is then moved out in front of the trap.

CART ASSEMBLY:

Tools required:

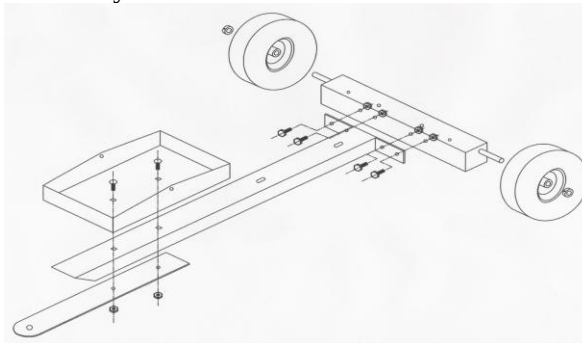
1 – 9/16” wrench

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.

TROUBLE SHOOTING

PROBLEM: Trap will not cock or blowing 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. Check Timing Adjustment page to determine if the trap's timing is out of adjustment

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: 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.