



# FIREFLY Auto Trap

**MODEL: FF550**

# INCLUDED PARTS



Trap Head



(2) Safety Ring Arms and (4) M6X7 Allen Screws



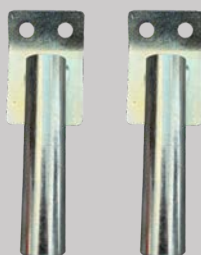
Main Spring and Spade Bolt with Hand Crank



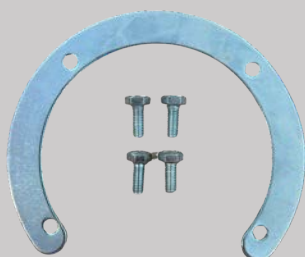
(4) Stacker Poles



(2) M8X10 Studs



(2) Front Leg Brackets



Horseshoe and (4) 1/4" x 1/2" bolts



Rear Base Stand



Ground Stake

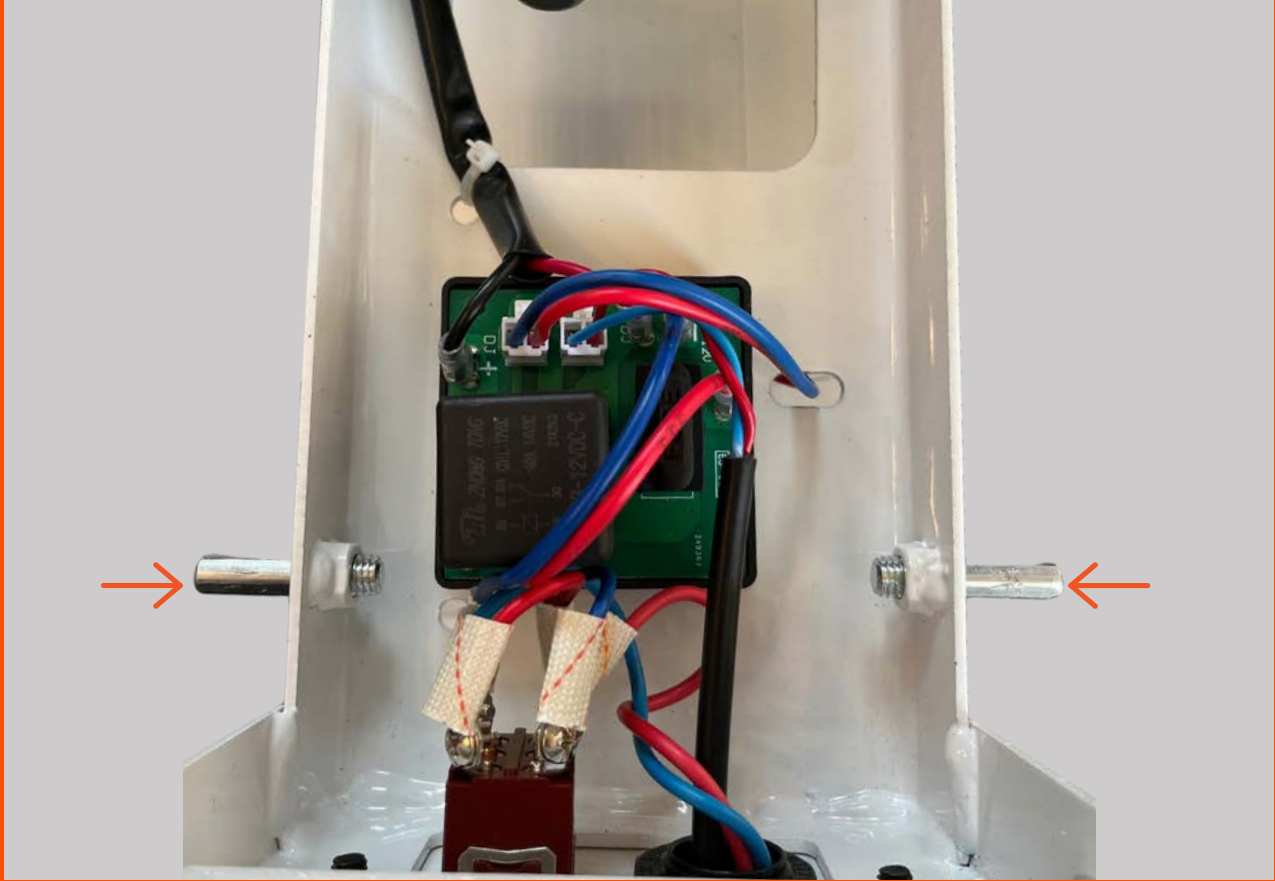


Safety Ring



(2) Front Legs

TOOLS NOT INCLUDED



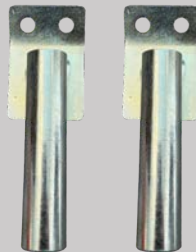
## STEP 1



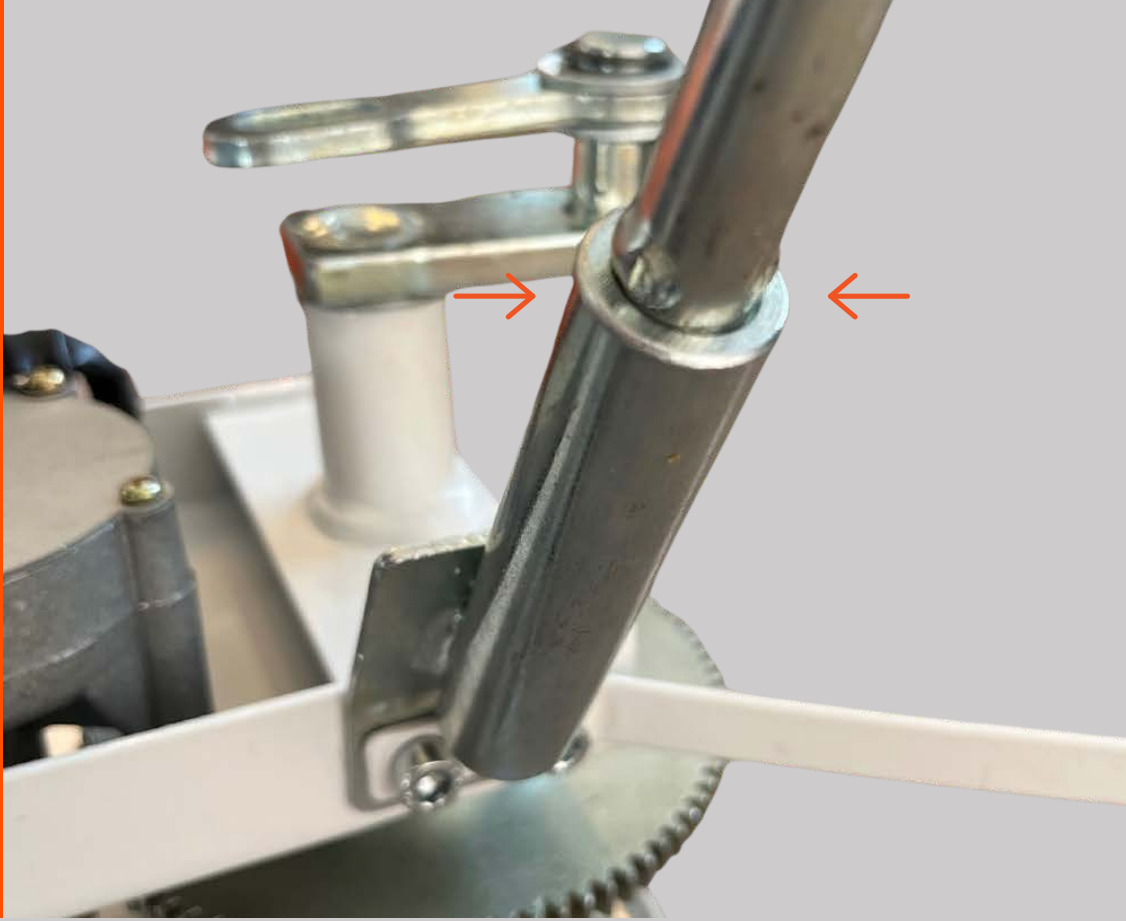
Begin by flipping the Trap Head upside down. First, thread in the studs for the safety ring, which thread, by hand, from the outside in on each side of the rear of the trap, as shown above.



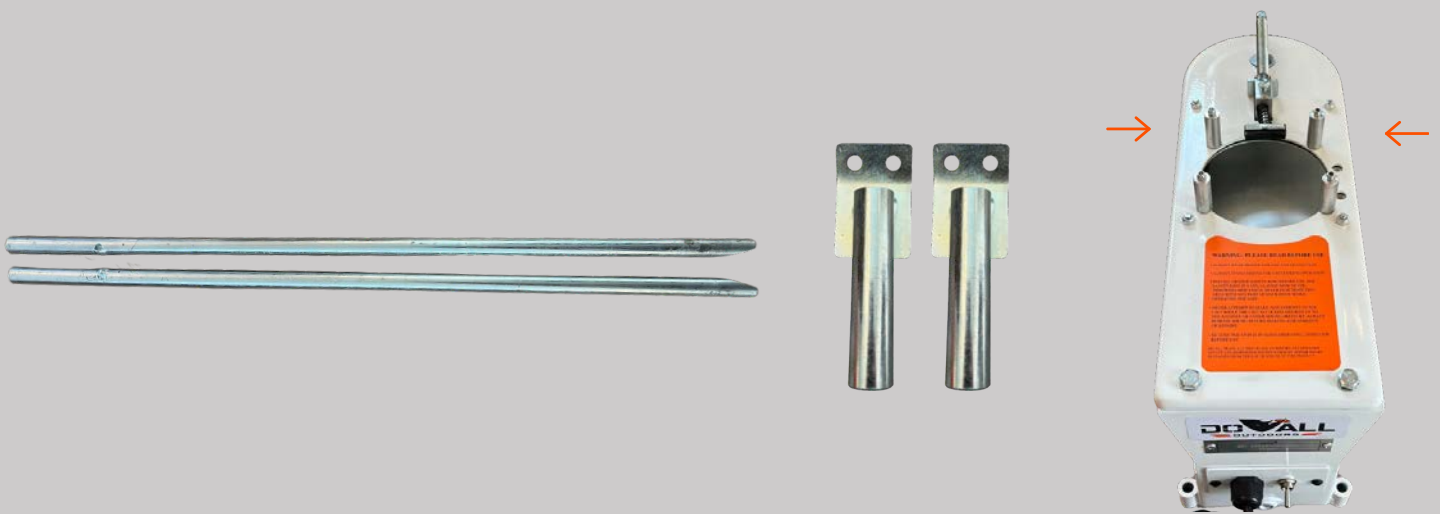
## STEP 2



While the trap is still upside down, install the Front Leg Brackets and Safety Ring Arms (pointing forward, in the direction that the arm will throw the clays) using the (4) provided allen head screws. Secure the bolts with a 6mm allen wrench.



## STEP 3

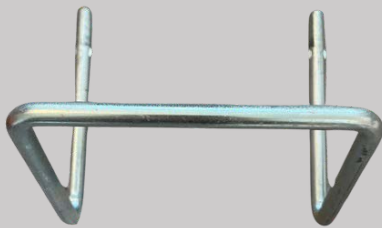


Next, slide each of the Front Legs onto their brackets.





## STEP 4



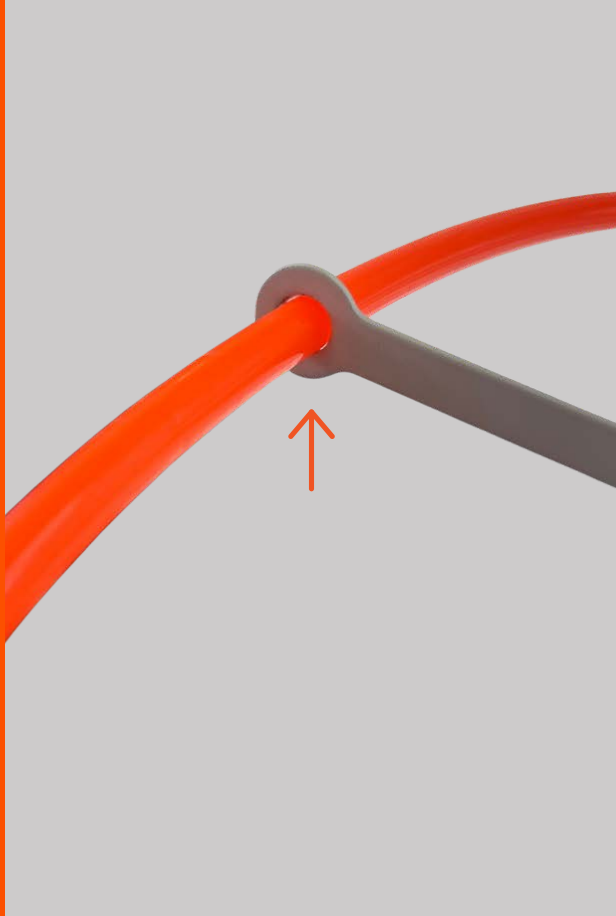
Next, slide the Rear Base Stand on the rear of the trap, as pictured above.



## STEP 5



Now, rotate the throwing arm out to the 12 o'clock position as depicted above. Hook Main Spring onto the eyelet towards the front of the Trap Head. Remove the Hand Crank and slide the Spade Bolt through the hole in the rear of the trap. Then, secure the hand crank back onto the Spade Bolt. Once tension on the spring can be felt while securing, stop tightening. Use this as a starting point for your trap, tighten or loosen to desired tension after testing the trap's throw once the remaining assembly is complete.

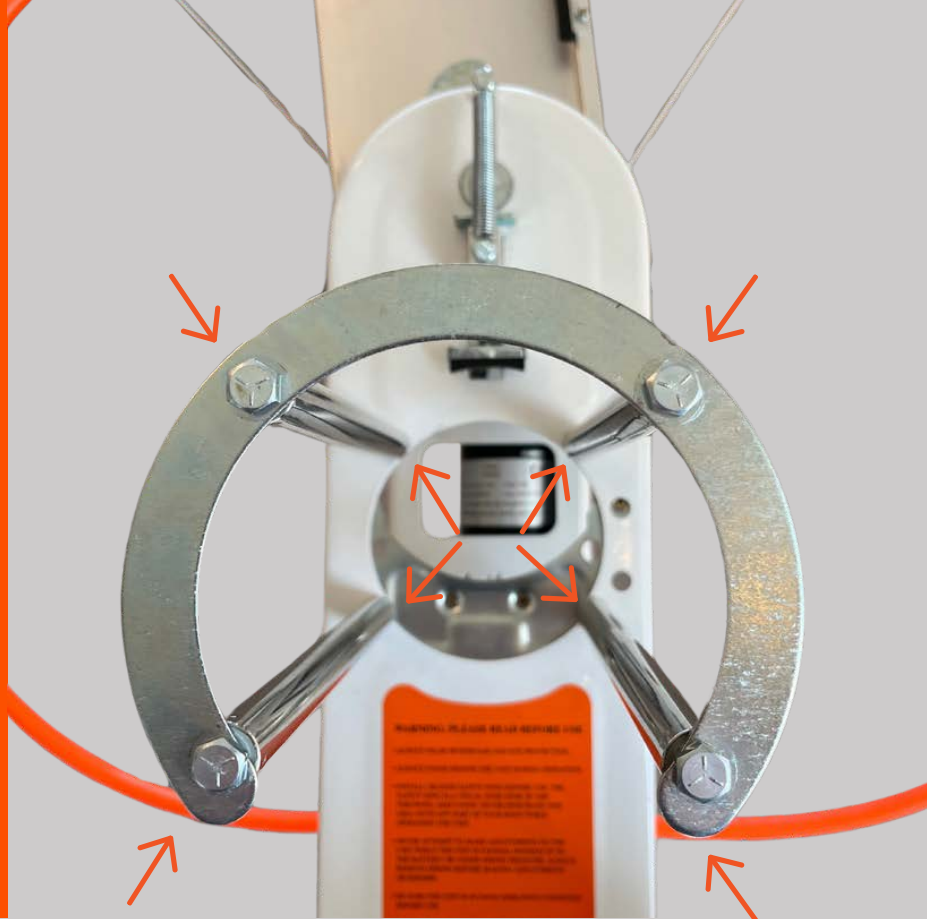


## STEP 6

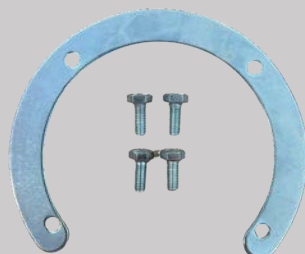


With the trap now flipped back to the upright position, Slide the Safety Ring through the Safety Ring arms and connect to each of the M8X10 Studs towards the rear of the Trap.





## STEP 7



Remove the (4) rubber caps on top of the Trap Head, then slide each of the Stacker Poles onto the now exposed mounts.

Then, secure the Horseshoe to the top of the Stacker Poles using the (4) provided bolts and an 11MM socket, with the opening facing the rear of the trap.



# THANK YOU

ONCE THE MAIN SPRING IS INSTALLED, THE TRAP IS NOW LIVE AND CAN GO OFF IF LEFT IN THE COCKED POSITION. PLEASE USE EXTREME CAUTION AND ALWAYS REMOVE SPRING WHEN TRANSPORTING, ADJUSTING, OR STORING THE TRAP.

# Operation

1. Make sure deep cycle battery (not included) is fully charged. Before clamping trap alligator clips to battery, make sure the toggle switch on the trap is set to off. **\*\*NEVER CARRY TRAP BY THROWING ARM - THIS CAN BEND AND AFFECT PERFORMANCE!**
2. Connect red alligator clip to the positive battery post and the black alligator clip to the negative battery post.
3. Flip the toggle switch on the trap up to "disarm." Once arm moves to 12 o'clock position, turn the machine back off and load **STANDARD SIZE CLAYS ONLY** into the stacker tube assembly. Once the trap is loaded, you can flip the toggle switch down to "on." The arm will rotate counter-clockwise and automatically load a clay onto the throwing arm. **THE TRAP IS NOW COCKED. PLEASE USE EXTREME CAUTION.**
4. **ALWAYS** set trap up pointing away from bystanders, trees, and animals with a recommended 400 meter open field/shot fall zone. Always look over the trap for damage and test throw a few clay pigeons before use to make sure the trap is operating properly. **NEVER ADJUST TRAP WHEN COCKED AND IN FIRING POSITION!!!**
5. With the shooter/bystanders standing to the left or behind the trap, press the foot pedal to throw the clay!
6. When you are done shooting, switch the toggle switch to disarm, hold the foot pedal down until the throwing arm reaches 12 o'clock, and turn the toggle switch to off. The trap is now safe to unload/move.

# Troubleshooting

**\*\*\*ALWAYS REMOVE MAIN SPRING PRIOR TO TROUBLESHOOTING\*\*\***

## MACHINE NOT TURNING ON

1. CHECK BATTERY CONNECTION. THE MACHINE DRAWS 16 AMPS TO WORK PROPERLY. WE RECOMMEND A DEEP CYCLE BATTERY WITH A MINIMUM OF 675 COLD CRANKING AMPS.
2. CHECK THE 15A AUTOMOTIVE BLADE FUSE IN THE REAR OF THE TRAP HEAD. REMOVE THE COVER AND PULL THE FUSE OUT TO INSPECT. REPLACE AS NEEDED. SEE FIGURE 1 ON THE NEXT PAGE.
3. CHECK RELAY. PLEASE EMAIL OR CALL CUSTOMER SERVICE IF ISSUES CONTINUE.

## AUTO FIRING/NOT FIRING

1. CHECK THE LIMIT SWITCH. SEE FIGURE 2 ON THE NEXT PAGE FOR LOCATION. IF YOUR TRAP CONTINUES TO AUTO FIRE, USE A 2.5MM ALLEN WRENCH TO LOOSEN THE ALLEN SCREW AND ADJUST THE LIMIT SWITCH UP, SO THE ARM WILL TRIGGER THE LIMIT SWITCH EARLIER TO STOP THE ARM FROM CONTINUOUS FIRING
2. IF THE TRAP WILL NOT FIRE AND COINCIDES WITH THE LIMIT SWITCH, THIS MEANS THE ARM IS STOPPING TOO SOON. THE LIMIT SWITCH NEEDS TO BE ADJUSTED DOWN AND THEN RECHECKED TO ENSURE PROPER FIRING
3. A GOOD RULE OF THUMB FOR ARM PLACEMENT WHEN LOADED IS TO MAKE SURE THE CLAY LOADS BETWEEN 1/2 AND 1 INCH FROM THE RUBBER STRIP. IF IT'S FARTHER, THE ARM IS STOPPING TOO SOON.

## BREAKING CLAY PIGEONS

1. MAKE SURE THE STACKER TUBE HORSESHOE OPENING IS FACING THE REAR OF THE TRAP. IF IT IS FACING FORWARD, REMOVE THE CLAYS AND TURN IT AROUND SO THE OPENING FACES THE BACK OF TRAP AND THE ARM SHOULD ALWAYS BE IN THE 12 O'CLOCK POSITION WHEN LOADING CLAY PIGEONS.
2. IF TRAP IS "JUMPING" AROUND WHEN THE ARM SWINGS, THIS COULD BREAK CLAYS IN THE STACK OR WHILE LOADING ONTO ARM. THE TRAP SHOULD BE SECURED USING STAKES (NOT INCLUDED) OR BY MOUNTING TO A BOARD OR PIECE OF PLYWOOD FOR STABILITY.
3. SOMETIMES WHEN THE STACK IS DOWN TO A FEW CLAYS, THE MOTION OF THE TRAP CAN THROW THE CLAY PIGEONS AROUND AND THEY BREAK. ONCE YOU GET DOWN TO 2-3 CLAYS LEFT, ADD MORE TO WEIGH DOWN THE STACK AND CONTINUE SHOOTING!
4. CHECK TO SEE WHERE THE BASE OF FEEDER BRUSHES ARE TO THE TOP OF THE CLAY ARM. THE MOUNTING HARDWARE SHOULD NEVER TOUCH THE TOP OF THE BIRD. IF THIS IS HAPPENING, THE ARM OR CHASSIS IS BENT

## OTHER

1. IF THE CLAY IS FLYING WITH A WOBBLE, THE THROWING ARM IS BENT AND WILL NEED TO BE BENT BACK OR REPLACED. NEVER CARRY THE TRAP BY THE ARM.

2. IF THE MAIN GEAR AND MOTOR ARE MOVING BUT THE THROWING ARM ISN'T THEN THERE MAY BE AN ISSUE WITH THE CLUTCH ASSEMBLY. PLEASE REFER TO THE CLUTCH TEST INSTRUCTIONS ON THE TROUBLESHOOTING PAGE ON OUR WEBSITE.

3. ALWAYS CHECK THE GREASE ON MAIN GEAR & MOTOR SPROCKET. ADD SILICONE GREASE WHEN NECESSARY TO KEEP GEARS IN PROPER WORKING ORDER

## Warranty & Customer Service

Register your product online at [www.doalloutdoors.com](http://www.doalloutdoors.com). Receipt is required for warranty registration. ONE YEAR PARTS WARRANTY.

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