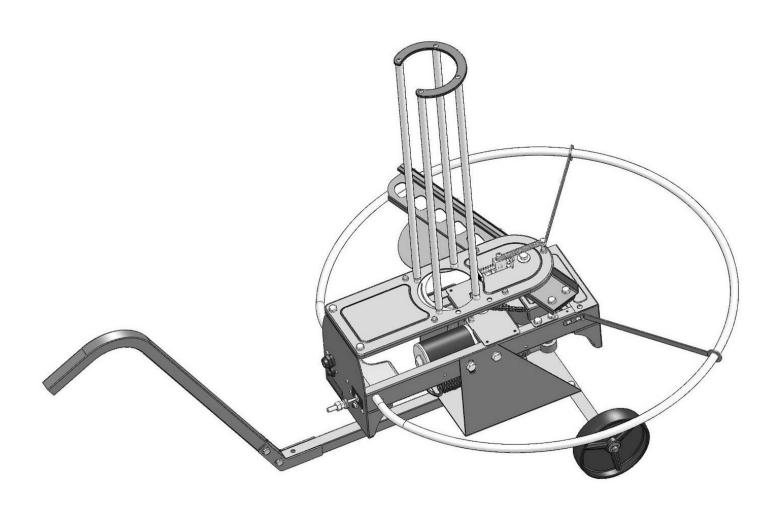


WHEELYBIRD™ AUTO-FEED TRAP

Part No. 40909



Instruction Manual

WARNING: THIS MACHINE CAN CAUSE SERIOUS INJURY OR DEATH!
THOROUGHLY READ INSTRUCTIONS BEFORE INSTALLING OR OPERATING TRAP!

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I. Introduction

The WheelyBird[™] Auto-Feed Trap is designed for the active sporting clays, trap, and skeet shooter looking for an automatic, lightweight, and portable machine for practice/fun shooting.

Features and benefits of the WheelyBird[™] Auto-Feed Trap:

Safety

- ON-OFF-SAFE RELEASE switch provides safe method to uncock throwing arm
- Arm path indicator ring provides visual indication of throwing arm path for safety
- 20 amp circuit breaker protects electrical wires and motor

Convenience

- Lightweight and portable approximately 48 lbs
- Detachable magazine holds 50 targets
- Throws standard 108 mm or 110mm international clay targets
- 25 ft. release cord with foot pedal release
- Two-wheeled frame with handle for easy movement

Performance

- Fast, 2-second cycle time
- Standard throwing range of 55yds at 25 deg elevation angle
- Runs off 12 volt battery (deep cycle type recommended)
- Balanced throwing arm with replaceable flight rail

II. Safety



WARNING: THIS MACHINE CAN CAUSE SERIOUS INJURY OR DEATH!!!!

THOROUGHLY READ INSTRUCTIONS BEFORE INSTALLING OR OPERATING TRAP!

DO NOT STAND IN FRONT OF THE TRAP WHEN IT IS IN THE COCKED POSITION. SERIOUS INJURY OR DEATH CAN RESULT.

THIS TRAP IS CAPABLE OF THROWING TARGETS A DISTANCE OF OVER 65 YARDS. USE ONLY IN AREAS WHERE THERE IS NO RISK OF CAUSING DAMAGE, OR HITTING A PERSON WITH A TARGET.

KNOW YOUR BACKSTOP. ENSURE THERE IS A SAFE PERIMETER THROUGHOUT TARGET FLIGHT PATH SUFFICIENT FOR AMMUNITION USED.

WARNING: IF THERE IS A TARGET ON THE THROWING ARM, SAFE RELEASING THE ARM WILL THROW THE TARGET. DO NOT STAND IN FRONT OF THE TRAP WHILE SAFE RELEASING THE THROWING ARM.

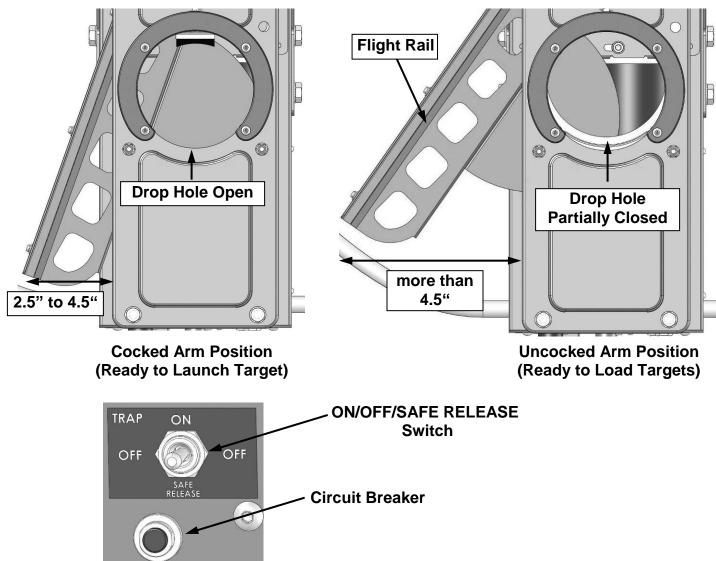
CAUTION: THE TRAP MUST HAVE AMPLE CLEARANCE AROUND THE TRAP. THE ON/OFF/SAFE RELEASE SWITCH FOR THE TRAP IS LOCATED ON THE REAR OF THE TRAP AND ALLOWS THE TRAP TO BE UNCOCKED BEFORE APPROACHING IT.

DO NOT INSTALL THE TRAP IN AN AREA THAT DOES NOT ALLOW SAFE (REAR) ACCESS TO THE TRAP AND THE ON/OFF/SAFE RELEASE SWITCH DURING LOADING AND USE.

- 1. All personnel operating the trap should be thoroughly familiar with the operating instructions and the safety issues relating to the trap.
- 2. Do not leave trap in the cocked position. Not only is this potentially dangerous, but it puts undue stress on the mainspring.
- 3. Always load and operate the trap from the rear (switch end).
- 4. Keep hands and body outside the trap and throwing arm path indicator areas while the trap is operating. This ring shows the throwing arm's path when throwing a target, and should always be attached to the trap when it is in use.
- 5. Be aware that a cracked or broken target thrown from the trap will sometimes scatter pieces out the right side of the machine as the arm throws. These pieces may hit nearby unsuspecting bystanders.
- 6. Always wear eye and hearing protection when shooting.

WARNING: BEFORE PERFORMING ANY REPAIR, MAINTENANCE, OR ASSEMBLY, MAKE SURE THE THROWING ARM IS IN THE UNCOCKED POSITION (SEE BELOW), THE ON/OFF/SAFE RELEASE SWITCH LOCATED ON THE REAR OF THE TRAP IS IN THE 'OFF' POSITION (SEE PHOTO BELOW), AND THE BATTERY IS DISCONNECTED FROM THE TRAP.

If the throwing arm is in the cocked arm position (see photo below), uncock the throwing arm by first connecting the red battery lead to the positive (+) terminal and the black battery lead to the negative (-) terminal on the battery. Momentarily press the on/off/safe release switch to the "SAFE RELEASE" position to release the throwing arm. After the trap fires, release the ON/OFF/SAFE RELEASE switch allowing it to return to the "OFF" position. The throwing arm should now be in the uncocked position. Disconnect the battery from the trap.



A

WARNING: FAILURE TO FOLLOW SAFETY RULES CAN RESULT IN SERIOUS INJURY OR DEATH!

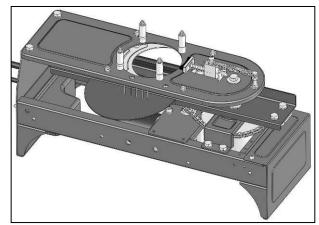
III. Assembly

1. Unpacking

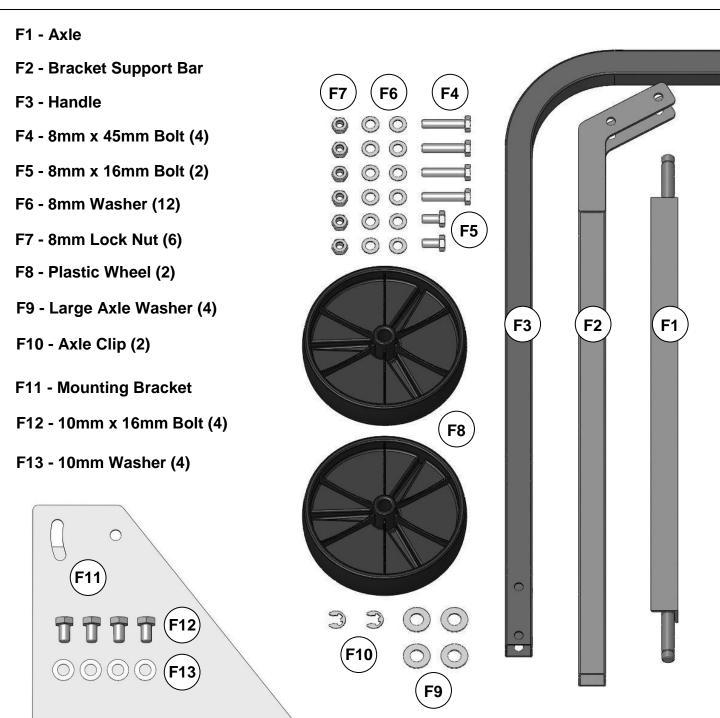
- 1. Carefully inspect the carton and trap machine to be sure that damage hasn't occurred during shipping. Report any damage found immediately to the shipper.
- 2. Carefully remove trap assembly and all other components from cardboard shipping box and other smaller boxes. Remove all hardware from bags.
- 3. Check that all parts were included. If any parts are missing, call the CHAMPION Customer Service Department at (800) 379-1732 to obtain replacement parts.
- 4. Save all packing material and box if trap should ever need to be returned for service or replacement.

2. Contents

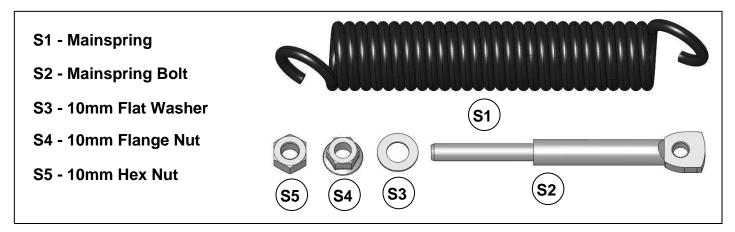
Trap Assembly



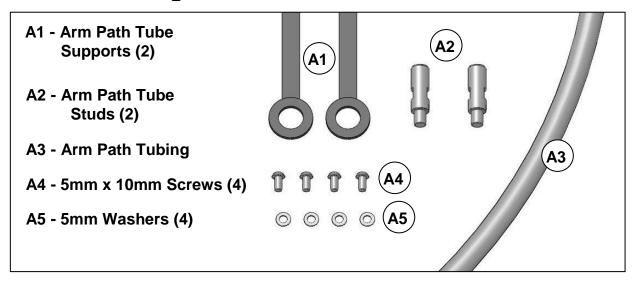
Frame Parts



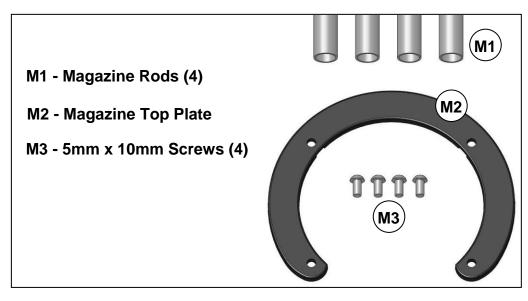
Mainspring Assembly



Arm Path Tubing Parts



Magazine Parts



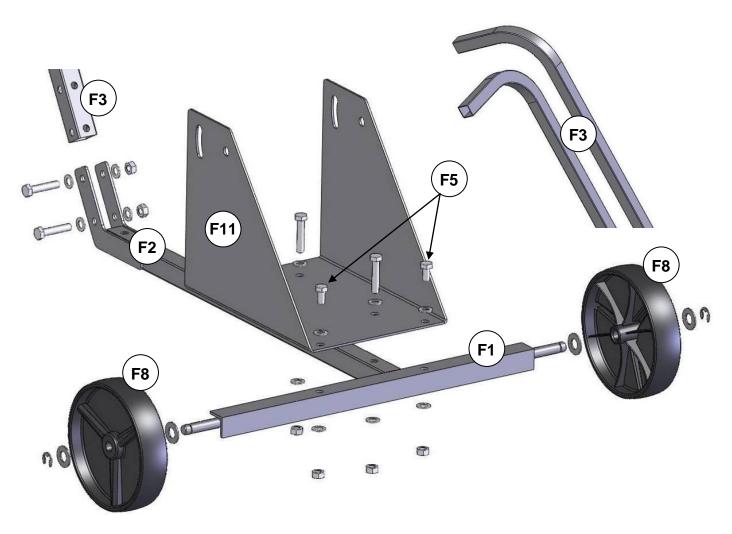
3. Assembly

Caution: Provide ample clearance around the trap.

DO NOT OPERATE THE TRAP IN AN AREA THAT DOES NOT ALLOW SAFE (REAR) ACCESS TO THE TRAP AND THE ON/OFF/SAFE RELEASE SWITCH DURING LOADING AND USE.

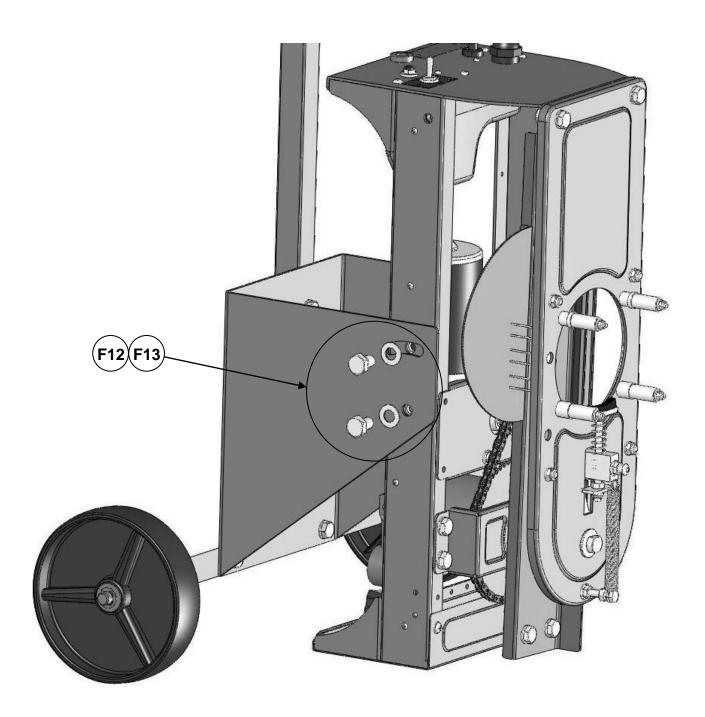
A. Assemble Frame

- 1. Assemble F1 (Axle) and F2 (Bracket Support Bar) to F11 (Mounting Bracket) using F4 (8mm x 45mm Bolt), F5 (8mm x 16mm bolt) with F6 (8mm Washers) and F7 (8mm Nut).
- 2. Attach F3 (Handle) to F2 (Bracket Support Bar) using F4 (8mm x 45mm Bolt) with F6 (8mm Washers) and F7 (8mm Nut). F3 Handle end can point back or to the left as shown.
- 3. Assemble F8 (Plastic Wheel) to each end of F1 (Axle) with F9 (Large Axle Washer) on each side of wheel. Install F10 (Axle Clip) in groove on each end of Axle.



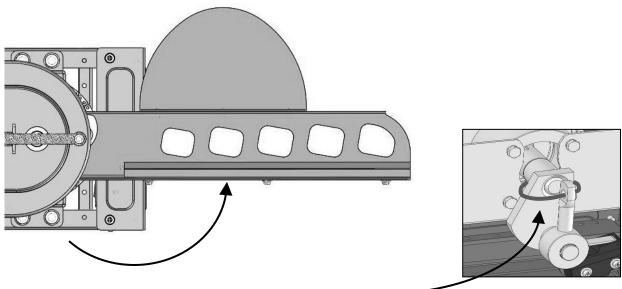
B. Attach Trap to Frame

- Stand and support trap assembly on front panel as shown.
 Attach F11 (Mounting Bracket) to trap using F12 (10mm x 16mm Bolt) and F13 (10mm Washer) as shown.
- 3. Pivot trap and frame back when finished.

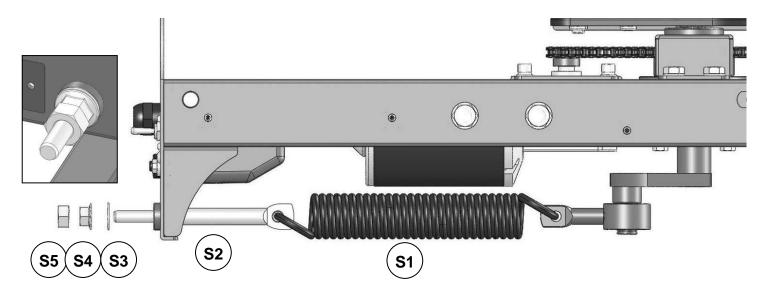


C. Install Mainspring

1. Remove the plastic tie holding the throwing arm in place and rotate the arm counter clockwise 180° so it is facing forward of the trap in the 12 o'clock position.



- 2. Remove the wire tie holding the crankshaft eyebolt.
- 3. Attach the hook on one end of the S1 (Mainspring) through the crankshaft eyebolt. (Eyebolt should be pointing toward rear of trap.)
- 4. Push threaded end of S2 (Mainspring Bolt) through hole in rear of body.
- 5. Attach the hook on other end of S1 (Mainspring) through the hole in end of S2 (Mainspring Bolt).
- 6. Attach S3 (10mm Flat Washer) and S4 (10mm Flange Nut) to S2 (Mainspring Bolt).
- 7. With the throwing arm still facing forward of the trap, tighten S4 until all the slack is taken up in the spring and the bolt is tight. Add S5 (10mm Hex Nut) and tighten against S4.
- 8. The throwing arm is now in the uncocked position and is under standard tension.

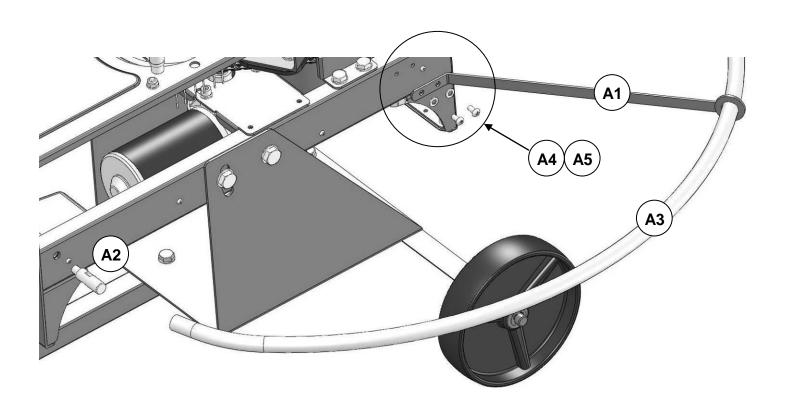


D. Attach the Throwing Arm Path Indicator

- 1. Attach A1 (Arm Path Tube Support) to each front side of trap using A4 (5mm x 10 Bolt) and A5 (5mm Washer).
- 2. Thread A2 (Arm Path Tube Stud) into each rear tapped side hole of trap and tighten securely.
- 3. Unwind A3 (Arm Path Tubing) and thread thru each A1 and connect each end to A2.

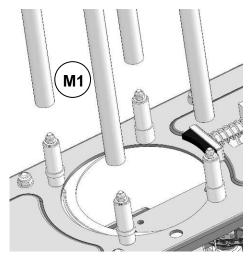
WARNING: FAILURE TO KEEP HANDS AND BODY OUTSIDE THE THROWING ARM PATH INDICATOR AREA CAN RESULT IN SERIOUS INJURY OR DEATH FROM BEING STRUCK BY THE THROWING ARM DURING USE.

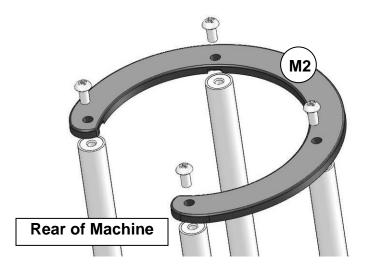
<u>Caution</u>: Do not lift trap by throwing arm path tubing, or front arm path tube supports, these were not designed to be a lifting point.



E. Attach the Magazine

- 1. Slide M1 (Magazine Rod) over each magazine stud as shown.
- 2. Attach M2 (Magazine Top Plate) using M3 (5mm x 10 Screws). Opening of M2 should be toward rear of machine.





Magazine Rods

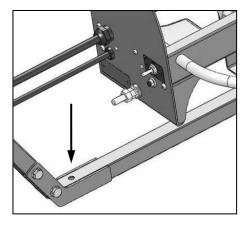
Magazine Top Plate

F. Setup

WARNING: MAKE SURE THAT THE "ON-OFF-SAFE RELEASE" SWITCH IS SET TO THE "OFF" POSITION BEFORE CONNECTING POWER TO THE TRAP.

DO NOT OPERATE THE TRAP IN AN AREA THAT DOES NOT ALLOW SAFE (REAR) ACCESS TO THE TRAP AND THE ON/OFF/SAFE RELEASE SWITCH DURING LOADING AND USE.

- 1. Connect the red battery lead to the positive (+) terminal and the black battery lead to the negative (-) terminal of a charged deep cycle 12V battery.
- 2. Remove wire ties from foot pedal release cable and unwind cable as needed and place foot pedal switch on ground.
- 3. For additional stability of trap, a large screwdriver or stake can be placed through rear hole of F2 (Bracket Support Bar) and driven into the ground (see below).

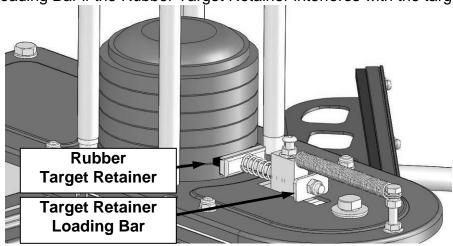


IV. Operation



WARNING: DO NOT STAND IN FRONT OF TRAP OR IN THE PATH OF THE THROWING ARM! SERIOUS INJURY OR DEATH MAY RESULT!

- 1. The throwing arm path indicator must be mounted properly before using trap.
- 2. Make sure that the trap is located to allow ample clearance around machine and provides safe access to the rear of the trap during operation. The trap must be located so that the user has safe access to the rear to operate the On/Off/Safe Release switch and reload the trap.
- 3. Make sure that the On/Off/Safe Release switch is in the "OFF" position, and the arm is in the uncocked position (page 3).
- 4. Place six (6) targets into magazine and hold them flat. Pull back on Target Retainer Loading Bar if the Rubber Target Retainer interferes with the targets.



- 5. Release the Target Retainer Loading Bar if it was being held. The rubber target retainer should be pressing on the 2nd target. Release the targets. Continue to load targets into the magazine column.
- 6. Make sure that there is a fully charged 12VDC battery connected to the trap and that the remote release cord is safely away from and behind the trap.
- 7. Turn the On/Off/Safe Release switch to the "ON" position.
- 8. The trap should cock the throwing arm and at the same time drop one target onto the throwing arm as it is cocking.
- 9. Activate the Foot Pedal Switch and the WheelyBird Trap will release the throwing arm (launching the target), re-cock the throwing arm and deliver another target to the throwing arm.

WARNING: IF THERE IS A TARGET ON THE THROWING ARM, SAFE RELEASING THE THROWING ARM WILL THROW THE TARGET. DO NOT STAND IN FRONT OF THE TRAP.

10. When reloading the trap, first move the ON/OFF/SAFE RELEASE switch on the trap to the "SAFE RELEASE" position momentarily to uncock the throwing arm. Allow the switch to return to the 'OFF' position. The trap magazine can then be safely reloaded with targets from the rear of the trap.

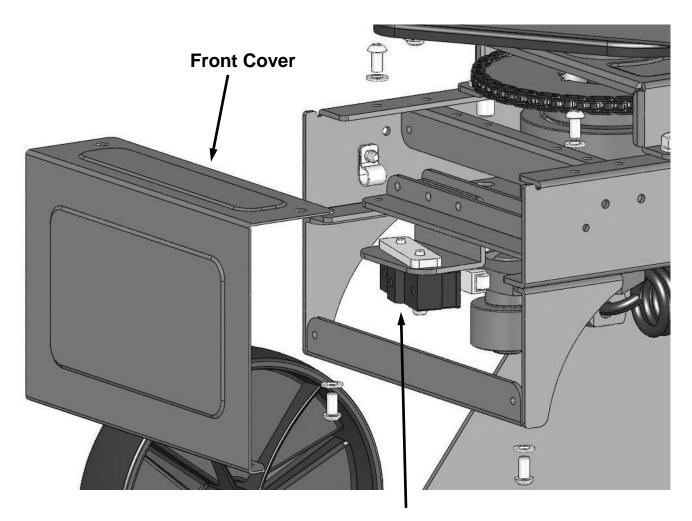
V. Adjustments

1. Throwing Arm Limit Switch

WARNING: BEFORE MAKING ANY ADJUSTMENTS, MAKE SURE THE THROWING ARM IS IN THE <u>UNCOCKED</u> POSITION, THE ON/OFF/SAFE RELEASE SWITCH IS IN THE "OFF" POSITION, AND THE BATTERY IS DISCONNECTED FROM THE TRAP.

The machine is set at the factory. Only make adjustments to the limit switch if a target doesn't drop onto the throwing arm as the throwing arm is cocking, or the throwing arm continuously fires. TEST MACHINE FIRST WITHOUT ANY TARGETS.

1. The limit switch controls the stop position of the throwing arm during the traps cocking cycle. The limit switch is located under the trap near the front. The front cover can be removed to gain easier access to the switch. Replace cover after adjusting switch.

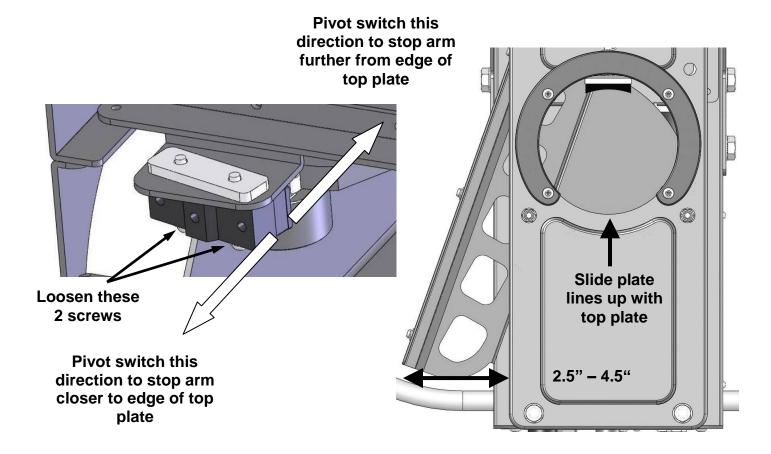


Limit Switch

2. Adjustments to the limit switch are made by loosening the two mounting screws and moving the switch slightly. Pivot the switch slightly towards the center of the trap for the arm to stop further away from the edge of the main body. Pivot the switch slightly towards the front of the trap for the arm to stop closer to the edge of the main body. Re-tighten the mounting screws after adjusting the switch. Adjust switch so that a target drops onto the throwing arm as the arm is cocking. With the on/off/safe release switch set to "on", the tip of the arm should stop within 2.5" to 4.5" from the edge of the top plate of the trap. The opening in the sliding plate should line up with the opening in the top plate and allow a target to drop..

<u>Caution</u>: Adjusting the arm to stop at a point too far away from the spring's over-center point can result in a delayed release or improper loading and targets breaking.

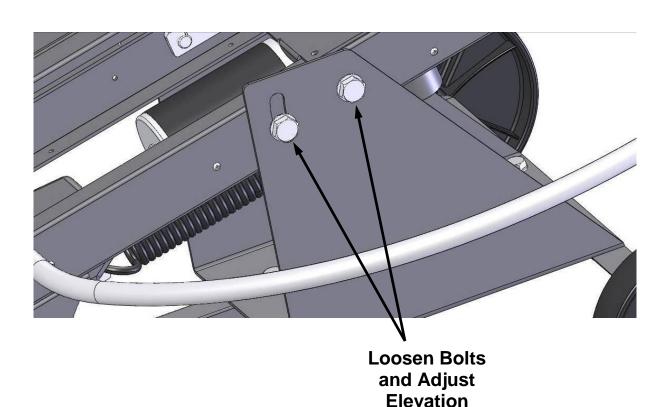
WARNING: ADJUSTING THE ARM TO STOP AT A POINT TOO CLOSE TO THE SPRING'S OVER-CENTER POINT CAN RESULT IN THE ARM CONTINUOUSLY FIRING OR FIRING UNEXPECTEDLY AND CAUSING POTENTIAL INJURY FROM BEING STRUCK BY THE ARM.



2. Elevation Adjustment

WARNING: BEFORE MAKING ANY ADJUSTMENTS, MAKE SURE THE THROWING ARM IS IN THE <u>UNCOCKED</u> POSITION, THE ON/OFF/SAFE RELEASE SWITCH IS IN THE "OFF" POSITION, AND THE BATTERY IS DISCONNECTED FROM THE TRAP.

- 1. To adjust the elevation, slightly loosen the four bolts (two on each side of the trap).
- 2. Change the elevation by grasping the trap main body and pivoting the trap to the desired position.
- 3. Re-tighten the four bolts to secure the trap in the new position.



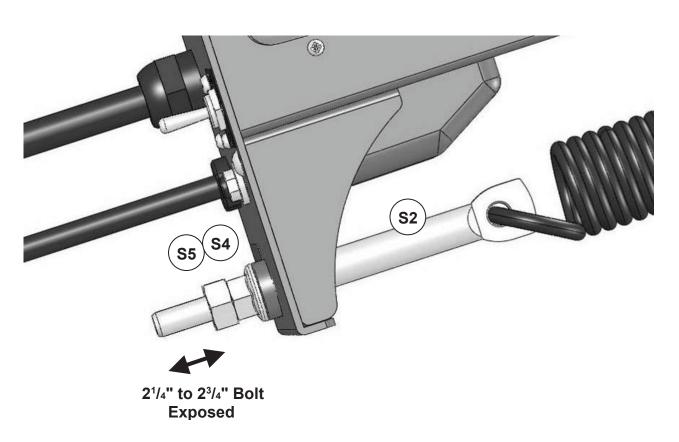
3. Distance Adjustment

WARNING: BEFORE MAKING ANY ADJUSTMENTS, MAKE SURE THE THROWING ARM IS IN THE <u>UNCOCKED</u> POSITION, THE ON/OFF/SAFE RELEASE SWITCH IS IN THE "OFF" POSITION, AND THE BATTERY IS DISCONNECTED FROM THE TRAP.

THIS TRAP IS CAPABLE OF THROWING TARGETS A MAXIMUM DISTANCE OF OVER 65 YARDS. USE ONLY IN AREAS WHERE THERE IS NO RISK OF CAUSING DAMAGE, OR HITTING A PERSON WITH A TARGET.

Adjustment to throwing distance is made by adjusting the mainspring tension.

- 1. With S4 (10mm Flange Nut) fully tightened and S2 (Mainspring Bolt) tight, the mainspring is under standard tension. The trap will throw targets a distance which should be suitable for most users.
- 2. If reduced throwing distance is desired, mainspring tension can be adjusted to reduce the throwing distance approximately 10 yards. First loosen S5 (10mm Hex Nut) and then S4 can be loosened up to a 1/2" on S2. **DO NOT EXCEED THIS AMOUNT.**
- 3. After adjusting the spring to the desired tension, tighten S5 against S4 to lock the setting in place. There should be a minimum of 2¹/₄" of S2 left exposed.



VI. Troubleshooting

I. THE MOTOR WILL NOT START

- 1. The "ON-OFF-SAFE RELEASE" switch on the trap is in the "OFF" position.
- 2. Circuit breaker on rear of trap is tripped determine cause before resetting.
- 3. Battery is inadequately charged recharge battery.
- 4. Electrical connections are loose or damaged.
- 5. The motor is hooked up incorrectly check battery wires for correct polarity.
- 6. The motor is burned out.
- 7. The throwing arm is blocked from rotating.
- 8. The "ON-OFF-SAFE RELEASE" switch is broken.
- 9. The relay is burned out.

II. THE MOTOR RUNS, BUT DOES NOT COCK THROWING ARM

- 1. Battery is inadequately charged recharge battery.
- 2. Drive chain broken.

III. THE TRAP COCKS, BUT DOES NOT FIRE

- 1. The "ON-OFF-SAFE RELEASE" switch is in the "OFF" position.
- 2. Electrical connections are loose or damaged.
- 3. The foot pedal switch is damaged.

IV. THE THROWING ARM STOPS, BUT A TARGET DOESN'T DROP

- 1. The throwing arm limit switch is damaged or out of adjustment.
- 2. Adjust limit switch so arm stops closer to the edge of the top plate.
- 3. Test with a different brand or shipment of targets.

V. THE THROWING ARM DOES NOT STOP AND CONTINUES FIRING

- 1. The throwing arm limit switch is damaged or out of adjustment.
- 2. Adjust limit switch so arm stops farther away from the edge of the top plate.
- 3. Foot pedal switch stuck.
- 4. Foot pedal switch cord wires are shorted together.
- 5. The relay is burned out.

VI. EXCESSIVE TRAP NOISE OR VIBRATION

- 1. Check all bolts to make sure they are tight.
- 2. The mainspring is too loose causing "spring slap". Check to make sure flange nut is backed off no more than 1/2" from fully tight position.

VII. Maintenance

WARNING: BEFORE PERFORMING ANY MAINTENANCE ON THE TRAP MAKE SURE THAT THE THROWING ARM IS IN THE UNCOCKED POSITION, THE ON/OFF/SAFE RELEASE SWITCH ON THE TRAP IS IN THE "OFF" POSITION AND THE BATTERY HAS BEEN DISCONNECTED.

Preventive Maintenance Action	Frequency	
Remove dust, dirt, and target debris with soft brush	Before every use	
Check mounting bolts to insure they remain tight	Every month or 8,000 cycles	
Lubricate moving parts with a good quality lubricating oil	Every month or 8,000 cycles	
such as HOPPE'S® Black Gun Grease		
Disconnect Battery	After Every use	

VIII. Replacement Parts

PART NUMBER	DESCRIPTION
60R188	S1 - Mainspring (see page 6)
40226	Flight Rail (see page 3)

These and other replacement parts are available by calling Champion Customer Service Department at (800) 379-1732.



Warranty Card (Please fill out completely & return with a copy of the receipt)

Owner's Name:			
Owner's Signature:			
Address:	Ph #:		
City:	State:	Zip:	
Date of Purchase:			
Business Where Trap Was purchased:			

WARRANTY CERTIFICATE

Your new **WHEELYBIRD**TM **AUTO-FEED TRAP** is warranted to be free from defects in material or workmanship for a period of six (6) months from the date of purchase. This warranty is extended only to the original consumer purchaser. Should you believe that your trap is defective in material or workmanship, you should contact the **CHAMPION** Customer Service Department via phone at 800-379-1732. In the event a warranty repair is required, all parts will be provided at no charge. THIS WARRANTY DOES NOT COVER DEFECTS OR DAMAGE RESULTING FROM: CARELESSNESS, MISUSE, IMPROPER INSTALLATION, MODIFICATION, OR NORMAL WEAR AND TEAR.

IN ORDER FOR THIS WARRANTY TO BE IN EFFECT, YOU MUST FILL OUT THIS WARRANTY CARD AND RETURN IT WITHIN 30 DAYS OF PURCHASE. THE ATTACHED WARRANTY CARD MUST BE FILLED OUT COMPLETELY AND SIGNED BY THE OWNER IN ORDER TO BE VALID. WARRANTY SERVICES CANNOT BE PROVIDED WITHOUT MEETING THE ABOVE REQUIREMENT. Retain this warranty certificate for future reference. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY.

CHAMPION IS NOT LIABLE FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT AND UNDER NO CIRCUMSTANCES SHALL **CHAMPION** BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES. HOWEVER, SOME STATES DO NOT ALLOW LIMITATIONS ON INCIDENTAL, OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

The above warranty provides the sole and exclusive warranty available to the customer in the event of a defect in material or workmanship in the **CHAMPION WHEELYBIRD**TM **AUTO-FEED TRAP.** This warranty gives you specific legal rights, and you may also have other rights which vary from State to State.

CONTACT INFORMATION



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