

SAFETY FIRST

**Danger - These machines can cause serious injury
Read instructions thoroughly before attempting to install or operate**

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

Do not leave trap cocked when not in use. Not only is this practice very hazardous, but as the mainspring is stretched its useful life will be shortened.

Only one person should operate the trap at any one time.

Do not operate the trap without the safety ring fitted. The safety ring defines the danger zone of the throwing arm rotation.

Do not lift or move the trap by the throwing arm or the safety ring. Do not lean on the safety ring or the clay sweep plate.

Safety glasses must be worn by all personnel within close proximity to the trap to prevent eye injury from flying target fragments.

Always keep children and animals away from the trap machine.

Before approaching the trap for any maintenance, adjustments, or for the loading of targets, be sure the trap is turned off and the battery leads removed. The trap must be “DECOCKED” OR “DISARMED” with the throwing arm visible to the left of the trap.

“VERY IMPORTANT”

Should you have a situation where you wish to adjust the Trap in some way then the procedure for “DECOCKING” or “DISARMING” the Trap MUST be strictly adhered to.

(Instructions on the Trap as well as this manual)

It is possible that although the Trap may be electrically switched off, the arm could be in the Ready To Fire position SO FAILURE TO “DECOCK”- “DISARM” THE TRAP PROPERLY MAY RESULT IN SERIOUS PERSONAL INJURY

THE BOWMAN SUPERMATCH AUTO INSTRUCTIONS

THINK SAFETY

These machines can cause serious injury
IMPORTANT - do not attempt to fit battery
until ALL 3 assembly tasks have been
completed

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or operate.**

CHECK CONTENTS

Having removed protective card from around auto check contents:

- 1 Trap fixed to delivery pallet.
- 1 Carousel.
- 1 Coil of 50m cable & button unit.
- 1 Yellow safety ring.

POSITIONING AND FIXING AUTO

Your Auto Trap can be operated from the delivery pallet. However we would recommend a more permanent bolted position or the Bowman Barrow.

FIRST TASK - FIT SAFETY RING

Screw 10mm studding into front of casting and lock off with nut. Remove (R) clips from sockets underneath clay plate and insert ends of safety ring, align holes and secure by pushing (R) clips through socket and safety ring. Finally lock the two 17mm nuts up to the steel tube.

**THE SAFETY RING ONLY MARKS THE PERIMETER OF THE DANGER ZONE AND
UNDER NO CIRCUMSTANCES SHOULD ANY BODILY PARTS ENTER THIS ZONE.**

SECOND TASK - TO FIT MAIN SPRING

For safety reasons your trap is supplied with the main spring detached. To re-attach the main spring rotate the throwing arm until it points straight ahead. In this position there is no tension on the main spring allowing you to fit the M12 bolt through the spring tension block. Tighten the bolt to the desired spring tension using the spring tension lever. Once attained lock the 19mm nut and the spring tension lever tight and keep tight.

THIRD TASK - TO FIT CAROUSEL

With domes of clutch washers pointing towards each other and positioned between the 2 flat washers (see photograph), tighten the nut until carousel is stiff to rotate. **VERY IMPORTANT** pump grease into main boss for smooth rotation.

WITH ALL 3 TASKS COMPLETED THE TRAP IS NOW READY TO OPERATE

Before loading and firing clays it is advisable to familiarise yourself with the controls. When connecting the battery move to a safe position at the rear of the trap and make sure that **NO-ONE** is near or within the **DANGER ZONE** in front of the trap.

Connect the release button plug & socket.
Check program switch is in **OFF** position.
connect battery.

TO ARM AND ENERGISE TRAP - Turn program switch to ON/RUN.

The trap will power up and the motor will rotate the throwing arm and stop in the firing position . **FIRE TRAP** by pressing hand held button

TO DISARM & MAKE SAFE

Flick program switch to nudge fire.
Trap fires but does not re-arm.
Throwing arm is visible to left of trap.
Remove battery lead.

SAFETY NOTE
WHEN THE TRAP IS IN THE DISARMED OR DECOCKED POSITION
THE ARM IS VISIBLE OUT IN FRONT OR TO THE LEFT

ADJUSTING ELEVATION

There is one elevation lock handle with 2 hole positions. To elevate to springing teal unscrew the lock handle from first position and screw into the second hole.

Adjust to the desired elevation and lock the handle tight.

ADJUSTING ADVANCE AND RETARD LIMIT SWITCH

The Limit Switch is set to stop the throwing arm just before it goes over centre and fires. The Limit Switch ring can be adjusted quickly and easily to the desired position. For example, if a new, fully charged battery is fitted and the standard arming procedure is followed the trap may fire continually instead of only when the button is pressed. In this instance the "Disarm and Make Safe Procedure" should be followed. This includes removing the battery leads so that, with the arm visible to the left, it is safe to adjust the limit switch ring. Unlock by using a 6mm allen key. Viewing from the top of the trap, rotate the ring clockwise in small increments and re-lock the ring. Move to a safe position behind the trap and re-arm. Re-adjust as necessary using the same procedure.

ADJUSTING CLAY KNIVES SEPARATORS

The knife separators height can be adjusted for different makes of clays by using 2 x 10mm spanners. The stainless steel knife should clear the top rim of the bottom clay by 0.5mm to operate correctly.

The side penetration of the knives would ideally clear the driving band of the clay by 4mm thus not damaging the clay in any way.

ELECTRIC SAFEGUARDS

The motor is protected by either a Fuse or a Circuit Breaker housed in the control box.

If the fuse is activated it can easily be replaced. Two spare fuses are supplied in the control box.

If the Circuit Breaker is activated the Thermal Overload Reset button will pop up to cut the power.

Pressing the Thermal Overload Reset button will re-activate the Circuit Breaker.

ROUTINE MAINTENANCE

The two greasing points are located on the centre boss of the carousel and on the pivot of the carousel pulling arm. Grease these points regularly. Any other moving parts should be oiled with a high viscosity oil or new engine oil.

Periodically check tightness of linkages & nuts. Failure to do so could lead to irreparable damage to moving parts.