



COMPACT 150 INSTRUCTIONS

Key Points:

- Check your contents
- Read thoroughly before attempting to assemble or operate.
- Do not attempt to fit the battery until both assembly tasks have been completed!

Think! Safety First!

These machines can cause serious injury, read these instructions prior to assembly and use.

If you are missing any contents, are unsure or concerned about the use of your clay pigeon trap then please don't hesitate to call bowman's directly on 01777 870243.

Tools Required to assemble: 2 x 17mm spanners & wire cutters / scissors.



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Thank you for your purchase, please call if you need any help or advice. Your support online would be much appreciated. Kind Regards Andrew Davidson Managing Director of WJ Bowman (1984) LTD.

Check contents

Having moved the protective card from around the clay pigeon trap, check its contents to ensure they are all present. You should have included:

- Trap fixed to a plywood base
- Carousel (pre-mounted)
- Coil of 50m cable & button unit or wireless radio control (if purchased)
- Yellow safety ring
- Bowman mini barrow (if purchased with the trap)

Positioning and fixing clay pigeon trap

Your clay pigeon trap can be fixed onto and operated from a pallet however, we could recommend a more permanent bolted position or the bowman mini barrow. If you have purchased a Bowman mini barrow position the trap onto the barrow and line up the 4 bolt holes. Use the 10mm bolts provided to secure your trap to the mini barrow. A washer should be placed on either side, a spring washer goes on before the nut to secure.

BOWMAN

1. First task: fit your safety ring



Screw the 10mm studding into the front of the steel body and lock off with the 10mm nut



Locate steel tabs on either side of the traps main frame



Push the ends of the safety rings onto the steel mounts on each side of the trap to secure.

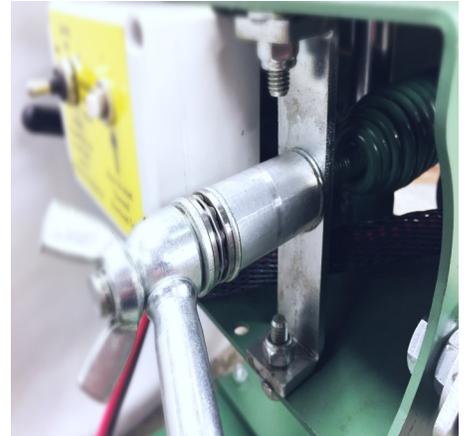
2. Second task: fit the main spring



For safety reasons your clay pigeon trap is supplied with the main spring detached. Remove the cable ties carefully to access the parts.



Place the washers and spacers carefully to the side in the order they were attached to the tension bar.



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 studding through the spring tension bar at the rear. Once through the bar, add the washers and spacers in the same order they were removed and tighten the hand nut to the desired spring tension and then finally secure with the 12mm wing nut.

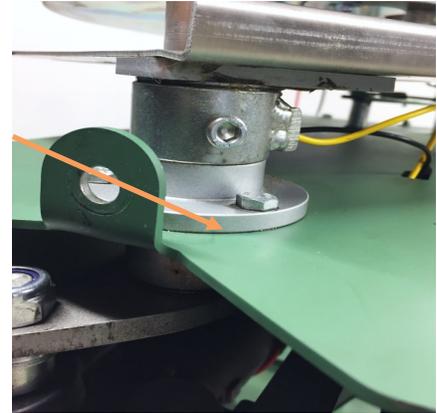
Use of the clay pigeon trap

With both tasks complete, the trap is now ready to connect to the battery. When preparing to connect the battery move to a safe position at the rear of the trap and make sure that NO-ONE is in the DANGER ZONE in front of the trap or inside the area marked out by the safety ring.

Connect the 50m cable release plug or wireless radio receiver to the green socket on the trap, check that the control box switch is in the off position and then connect the terminals to the battery. To arm the trap, turn the 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 the trap by pressing the hand held button (notice that the trap re-arms itself ready to fire again). Now you must disarm the trap in order to load clays and make elevation adjustments.

Disarm and make safe

To disarm and make the trap safe you 'flick' the program switch to 'nudge fire'. Notice the trap will fire, but does not re-arm with the throwing arm visible to the left. Remove the battery terminals from the battery. Load your clays into the carousel. To make elevation adjustments, there are two lock handles on either side of the trap at the rear. Release the lever handles, tilt the trap backwards to the desired height and then re-tighten the lever locks. Now you are ready to re-attach the battery terminals (ensuring the program switch is set to 'off') and then switch the program to 'on run' in preparation to fire clays.



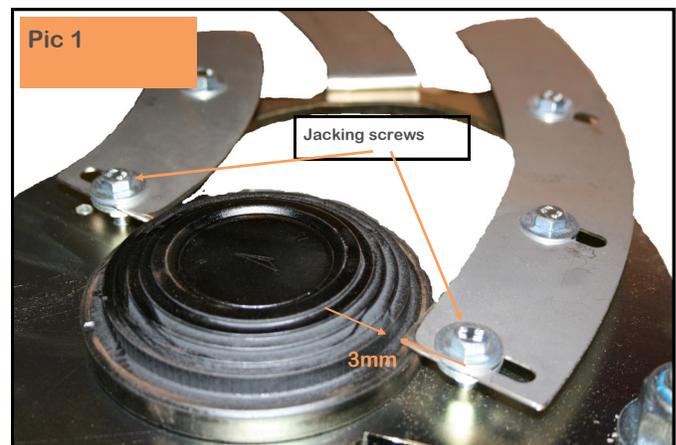
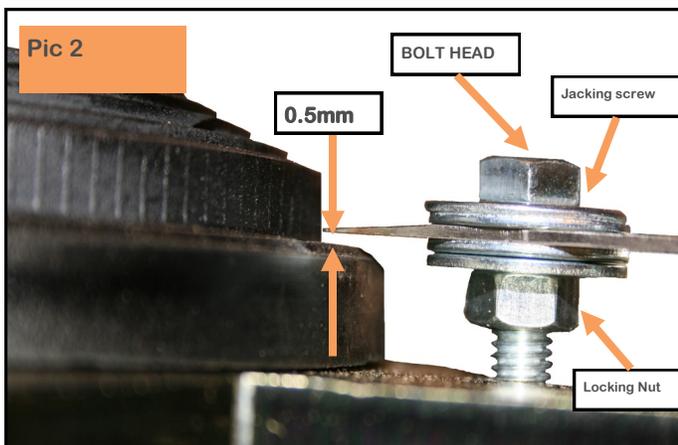
Adjusting advance and retard limit switch

The Limit Switch is set to stop the throwing arm just before it goes 'over centre' and fires. We set this at the factory however if the arm stops too far from the clay or too close to the centre causing 'auto firing', please follow these instructions to re-set it. "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. Standing in front of the trap and viewing from the top, rotate the ring clockwise in small increments to stop the arm further away from the clay and anti-clockwise to stop the arm closer to the clay. Re-lock the ring and move to a safe position behind the trap. On/run the trap to test the arm position and re-adjust if necessary using the same procedure.

Adjusting clay knife separators

We set the knife height at the factory to accommodate standard clays, if you need to alter the height please follow the written and photographic instructions. The knife separators height can be adjusted by using 2 x 10mm spanners. The stainless steel knife should clear the rim of the clay by 0.5mm to operate correctly. To adjust the height, loosen the locking nut, turn the bolt head clockwise to lower and anti-clockwise to raise the knife blades. Once the correct height is achieved re-tighten the locking nut. The knives should ideally clear the driving band of the clay by 3mm thus not damaging the clay in any way.



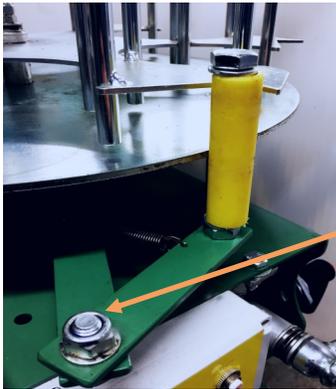
Electric Box

The motor is protected by either a fuse or 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. **Before replacing the fuse or pressing the Thermal Overload reset button to re-activate the trap you must turn the 3 position switch to off and disconnect the battery to investigate the reason for the malfunction.** Most commonly this is because of a flat battery or the throwing arm is jammed. **Please be aware the throwing arm may be parked in a dangerous position so be careful not to place yourself in harms way while you investigate or when you re-activate the trap.**

Servicing and maintenance

Lubrication

The following moving parts of the Supermatch 6&8 need top be lubricated once a month, particularly if the trap is left outside in all weather conditions. We use a chain oil lubricant CD90 for lubricating moving parts. GT85 is used as a water displacement spray to protect motors, wires and the main spring from damp conditions and for cleaning out clay dust from moving parts.



Ensure that the joint remains lubricated and free moving so the push bar can index the carousel.

Ensure moving joints powered by the motor are well lubricated



Lubricate these areas. Avoid putting any grease onto the plate of the throwing arm.

