



CLAY TARGET MACHINES

OWNERS MANUAL FOR MEC MODELS 100E



CAUTION: ANY MEC CLAY TARGET MACHINE MUST BE IN THE DISARMED STATE WITH THE BATTERY DISCONNECTED PRIOR TO MAKING ANY ADJUSTMENTS, LOADING THE CLAY TARGETS OR TRANSPORTATION OF MACHINE.

Step 1 – Securely set the machine on level ground, either on the optional T Cart with hardware supplied or a pallet. If using a pallet, please make sure that it is fastened with clamps to keep machine from tipping. **IF NOT FASTENED SECURELY, SERIOUS INJURY OR DAMAGE TO MACHINE CAN OCCUR!!!**

DO NOT CONNECT THE BATTERY. Ensure that the machine is in the **DISARMED/SAFE** position.

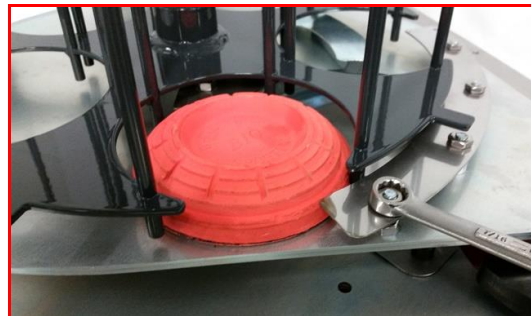
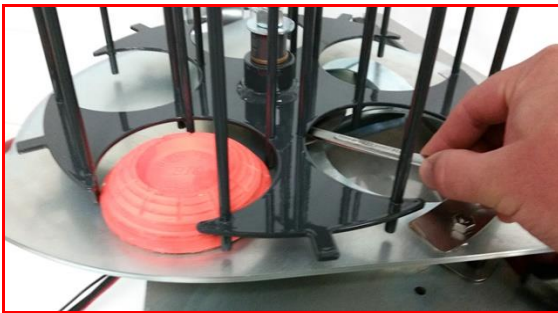
Step 2 – In most cases, your machine has been supplied to you ready to fire. If so, please proceed to **Step 3**. If your machine is supplied in a box without its carousel (shown below) fitted, you will need to attach it to the machine. Simply slide the carousel weldment onto the top plate shaft. If no grease is present, please add a little bit to the shaft. You may have to spin/rotate the carousel for it to slide on. Next, place the gray plastic collar over the shaft and onto the flange bearing in the carousel. Now place the $\frac{3}{4}$ " washer and nut onto the threads and tighten. Do not over tighten. You want a little bit of resistance there, but not too much. You shouldn't be able to spin the carousel with one finger.



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Step 3 – The machine comes set to White Flyer standard clays. If using something different you will need to check the height / clearance of the knife-edges by placing a clay in the carousel. Rotate the carousel so that the clay starts to pass underneath the inner and outer knife separator blades. The clay must pass freely under the knife separator blades without binding but with the minimum of clearance. Adjust if necessary with 7/16" open ended wrench. The height on both the inner and outer knife edge will need to be adjusted. Photos below show adjustment with carousel fitted, but you can remove the carousel to make adjustment easier if preferred.



Step 4 – Now, you can lay out the battery terminals and control box at the back of the machine. DO NOT CONNECT BATTERY AT THIS POINT.



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Step 5 – Check that the ON/OFF/DISARM toggle switch on the grey control box in the OFF position. Connect the terminals from the wire harness to the battery. A fully charged good quality deep cycle marine battery is recommended. It is imperative that the **Red Wire** goes to positive (+) and **Black Wire** goes to negative (-) on the battery. Never hammer the terminals onto the post of the battery and do not over tighten the terminals.

Step 6 – Visually check, from the rear of the machine, that the motion of the Throwing Arm is not restricted or blocked in any way.

CAUTION: ALWAYS OPERATE THE MACHINE FROM BEHIND, NEVER FROM THE FRONT OR THE SIDES OF THE MACHINE. KEEP HANDS AND BODY PARTS AWAY FROM THE MACHINE WHEN ARMING, RELEASING AND DISARMING.

Step 7 – Standing at arm's length behind the machine and making sure that all body parts are clear of the machine, push the ON/OFF/DISARM toggle switch into the DISARM position and then release it as soon as the throwing arm fires. The toggle switch is spring loaded and will return to the off position as soon as the switch is released stopping the machine from re-arming itself. If done correctly the arm will be pointing away from the left side of the machine when viewed from behind (right handed machines only). On left handed machines the arm will point away from the right side of the machine. The machine will now be in a safe condition.

Disconnect the terminals from the battery to ensure that the machine is not accidentally armed while adjusting and loading the machine.



Step 8 – Adjust the machines elevation by loosening the ½”-13 nut on the side of the machine. Tip machine backwards to the desired angle and then retighten the nut securely.



Step 9 – Adjust the machines tilt by loosening the ½”-13 nut on the front and rear on the base of the machine, as shown below. Tilt the machine to the desired angle and then retighten both nuts securely.



Step 10 - Carefully load carousel with clays, removing any clays that show signs of damage. Load clays as evenly as possible and do not over load.

Step 11 – Your machine is now loaded and ready to fire. Make sure that the machine is pointed in a safe direction.

Step 12 – Standing at arm's length behind the machine, press the ARM/OFF/DISARM toggle switch to ARM. The machine will load a clay and come to the armed position and is now ready to fire and must be treated with **extreme caution**.



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Step 13 – To check for clay flight and direction, fire the trap using the ON/OFF/DISARM toggle switch exactly as before, and press and release the DISARM toggle. This will fire one clay and will not rearm itself. Note – holding the disarm toggle will continually fire clay targets. Please use caution!

Step 14 – You can adjust the distance that the clay is thrown by extending the spring. This is achieved by winding tension on or off the main spring using a $\frac{3}{4}$ " wrench or the optional $\frac{3}{4}$ " extended socked which can be attached to an impact drive. This should be done with the machine in the disarmed/safe condition for small adjustments. After adjusting the main spring for the correct throwing distance, the nuts on the spring stud must be tightened securely against each other.





Step 15 – The pull cord or optional radio release can now be connected to the machine.

Step 16 – The machine can now ready for use by pressing the ARM/OFF/DISARM toggle switch, down to the “ARM” position.

Step 17 – With the machine pointed in a safe direction, press the fire button on the pull cord or radio release. This will cause the machine to fire a clay and then reset to the firing position. Pressing the fire button again will do the same as above. Pressing and holding the fire button will continuously fire clays without delay.

Your machine is now operating smoothly and ready for use. It is critical that you never load or make adjustment to the machine unless it is disarmed and the battery disconnected. While in storage, the machine must be left in the disarmed state and the battery disconnected. Any spring tension does not need to be released.

Thanks for choosing MEC! Every machine is hand set and tested prior to leaving our shop to ensure quality. We take pride in our products, so you can have a better experience in the field. Your patronage is very much appreciated!

For any questions regarding setup or use of any MEC Clay Target Machines, please give us a call or you can visit us on our website for video footage showing how setup and adjustments are made.

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