

BLACK QUAIL

Automatic Clay Trap - Assembly, Setup & Safe Operation

DANGER - STORED ENERGY AND MOVING ARM

If the main spring is attached and the throwing arm is at the 6 o'clock position, the trap is **ARMED**.
Keep everyone outside the full throwing-arm and clay flight area.

Safe disarming procedure

1

Select DISARM

Move the switch to **DISARM**.

2

Operate the release

Press the foot-pedal release. The arm rotates clockwise to the 12 o'clock, unloaded position.

3

Isolate the trap

Switch **OFF**, disconnect the battery, insert the safety pin and remove the main spring before adjustment, servicing, transport or storage.

Never place hands, tools or any part of the body inside the safety ring while the spring is connected.
Never allow anyone to stand in front of or beside the throwing arm.

All operators must read and understand this manual before using the trap. The operator is responsible for establishing a clear, controlled firing area and ensuring safe use.

GDK Trading cannot accept responsibility for injury or damage resulting from incorrect assembly, unauthorised modification, misuse or failure to follow these instructions.

Parts supplied



Check the contents before assembly

- 1 x main trap unit
- 1 x U frame mounting plate
- 4 x legs
- 4 x Clay target poles
- 1 x Horseshoes
- 1 x Black main spring
- 1 x spade bolt with 2 x M10 lock nuts
- 1 x cabled foot pedal
- 1 x safety ring kit
- 1 x safety pin with chain
- 1 x flat spanner

BEFORE ASSEMBLY

Place the trap on firm, level ground. Keep the main spring disconnected until all mechanical assembly and tray adjustments are complete.

You will also need

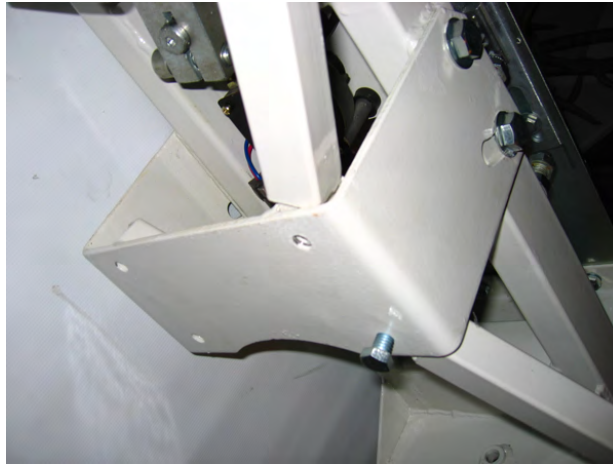
A suitable 12 V battery in good condition, eye protection, gloves and an unobstructed outdoor test area with a safe fall zone.

1. Assemble the frame and safety ring

1

Fit the legs

Insert each leg into its bracket and tighten the retaining bolt securely.



2

Fit the stacker poles

Install the **Thin poles at the front** and the **thicker poles at the rear**. If your model has 4 x poles the same thickness, please ignore this. Fit the the horseshoes across the tops and tighten the hex screws.



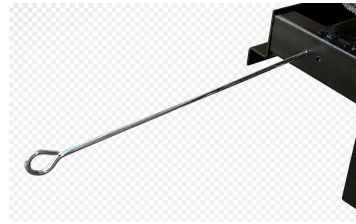
3

Fit the safety ring

Loosen the rear clamp bolts and slide both ends of the plastic guard into position. Remove one clamp bolt, place the end of the safety-pin chain beneath it, refit the bolt and tighten.

The safety ring shows the sweep of the throwing arm. It is a visual boundary - it does not make the moving arm safe to approach.

2. Secure and adjust the safety ring



- 1** Screw in the 2 x metal studs to the rear of the frame.
- 2** Screw in the 2 rods with hoop ends to the front of the frame
- 3** Thread the orange safety ring through the metal hoops and connect to the studs.

SAFETY PIN

The safety pin is a secondary restraint only. Insert it whenever the trap is not in use, but always DISARM the trap, switch OFF, disconnect the battery and remove the main spring before handling, adjustment, transport or storage.

Inspect the guard, safety pin, chain and all fasteners before every use. Do not operate with missing, loose, bent or damaged safety components.

3. Fit the mounting plate and set the tray

SPRING MUST REMAIN DISCONNECTED

Complete the full tray adjustment by moving the arm slowly by hand. Do not connect the main spring during this procedure.

The throwing arm must contact the clay on its middle (second) ring throughout the loading cycle. Incorrect contact can pinch the lower rim or lift the dome, causing repeated clay breakage.



- 1 Fit the mounting plate**
 Locate the three frame fixings - two hex-head bolts and one Phillips-head bolt. Remove the upper bolts, insert the mounting plate from the right, align all three holes, refit the bolts and tighten by hand.
- 2 Add test clays**
 Place several clays in the stacker tubes. Rotate the arm counter-clockwise by hand through a complete loading cycle.
- 3 Set the contact height**
 If the arm contacts too high, raise the tray using the level-adjustment bolts. If it contacts the thick bottom ring, lower the tray until the arm meets the middle ring.
- 4 Check the whole travel**
 Slide a clay along the arm and move the arm through its cycle. Confirm the contact remains on the middle ring without pinching the lower rim or lifting the dome.
- 5 Lock the adjustment**
 Hold each adjustment bolt so it cannot turn. Tighten the upper nuts to the tray, then tighten the lower lock nuts against the frame.

If clay breakage develops later, DISARM and isolate the trap, remove the spring, and repeat this alignment check.

4. Fit the spring and set the throwing angle



Fit the main spring

1. Confirm the switch is OFF and the battery is disconnected.
2. Rotate the arm counter-clockwise to 12 o'clock.
3. Insert the black spring into the silver swivelling spring hook.
4. Attach the spade bolt to the spring and pass it through the opening at the rear.
5. Tighten the outer lock nut until 1-2 threads show, then tighten the inner lock nut against the frame.



Adjust the throwing angle

With the trap safely disarmed, isolated and the spring removed, loosen the angle bolts on both sides. Set the required angle, then tighten both bolts securely before reconnecting the spring.

5. Connect and operate

OFF Stops the arm in its current position.	ON Cycles counter-clockwise and stops at the loaded 6 o'clock position.	DISARM Moves clockwise to the unloaded 12 o'clock position.
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1

Final checks

Confirm all bolts are tight, the safety ring is secure, the throwing area is clear and all people are behind the operator.

2

Connect controls

Connect the foot-pedal plug to the trap. Connect the battery leads with correct polarity.

3

Load and test

Load clays while the trap is disarmed. Move to a safe operating position, select ON and test-fire using the foot pedal.

Low-voltage light: If the LED illuminates, switch OFF, disarm and recharge the battery before continuing.

AFTER USE

DISARM to 12 o'clock, switch OFF, disconnect the battery, insert the safety pin . Store the trap clean and dry, away from children and unauthorised users.

Questions, spare parts or warranty support: **01582 879 588**