

The Sporting Multitrap Handset. Including the Non LCD Controller.



The first of a range of Alternative handsets compatible with Evolution Style controllers, the MULTITRAP SPORTING HANDSET is a lower cost handset offering full use of up to 8 connected traps in a Sporting scenario.

The Multitrap Sporting Claymate Offers...

Handset

- Full control of up to 8 traps.
- Simultaneous targets by simply pressing two (or more) buttons simultaneously.
- Solo Shooter delay offering singles, pairs or following pairs.
- Cancel launch (Solo shooter safety feature)
- A target audit with a capacity of one short of 10 million targets.
- Fully compatible and interchangeable with LCD equipped Evolutions Systems.
- Tough weather proof enclosures

Controller (Basic Sporting model)

- Credit button, the value of 25 birds being fixed.

The Release Controller.

The Multitrap Sporting Claymate is supplied as two component parts.
The HANDSET and the RELEASE CONTROLLER.

The Release Controller houses the trap detection circuitry, the Clay Counter interface and the Release Electronics.

There are 8 wires that should be connected, using suitable connectors, to your traps.
You do not have to connect all 8 traps.

The white power lead needs only a 12 volt source from either a battery or a mains adapter.
Do not exceed 24 volts DC or 12 volts AC.
The unit is polarity protected.

The Orange cable is a 3 core Claymate standard type and connects to the Handset using the waterproof connectors supplied. The cable length has been tested to over 300 metres.

The CREDIT button.

The only user button on the Controller is the Credit Button.
Pressing this button with a valid counter connected will add 25 targets to the counter and store 25 targets in the credit cache.

The counter may be removed after this process, in which case, targets will cease to be launched once the credit cache is empty.

The Credit Feature is not mandatory.

If the user simply plugs in the counter and fires off one target, they can remove the counter with one target added to the counter.

Unused credits will remain (in this software version) until they are used or the unit is reset or switched off.

The Handset.

The Handset houses all the user buttons and part of the processing brains of the System.

The tough orange rubber boot is designed to protect the unit against accidental knocks and bumps.

It is not recommended that you allow operation without the boot.

It is also recommended that the handset is taken in at night to reduce the chances of internal condensation or the handset being stolen!

The user is presented with 9 buttons.

One button for each trap and a Solo Delay Button.

Operation of the Handset Explained.

Pressing the Solo Delay Button toggles the Solo Delay ON or OFF.

The internal sounder will issue a long tone to indicate delay ON and a short beep to indicate delay OFF.

With the Delay ON...

- Pressing a single trap button will start the Solo Countdown and after 3 seconds, the selected target is launched.
- Pressing TWO (or more) buttons will start the Solo Countdown and after 3 seconds, the selected targets are launched.
- Pressing one, or more buttons will start the Solo Countdown BUT if additional buttons are pressed DURING the countdown the secondary buttons will be released as following targets. The first button(s) pressed will be regarded as the 'PULL' targets. The LAST buttons pressed (during a countdown) will be regarded as the 'REPORT' targets. 'REPORT' targets can be changed as required using the same technique but the PULL targets will remain as the first targets selected.
- If the Solo Delay button is pressed DURING a countdown, the entire launch will be aborted.
- If the Solo Delay button is pressed AFTER the 'PULL' targets are launched but BEFORE the 'REPORT' targets are launched, the report targets will be cancelled.
- Cancelling a launch using the Solo Delay Button leaves the Delay ON.

It can be seen therefore that this handset allows previously difficult target sequences in that a Solo Shooter can, if they have the right gun (!) send off a single followed by a Simultaneous pair, if they wish.

With the Delay OFF...

- Pressing any single button will send off that traps immediately.
- Pressing two or more buttons will send those traps off simultaneously.

WARNING.

Due to the fact that the keypad is a simple matrix, some combinations of three targets will be send off as four targets!

A demonstration of such a 'feature' is to call for traps 1,2 and 4 as a triple.

The targets will be fired but with trap 5 as well, making 4 targets.

Targets 1,2 & 3 will launch correctly. In fact any combination where THREE buttons form a square, 1,2 & 4 for instance 'square up' with button 5 will hence send all 4 traps.

It is unlikely that users will ever detect this anomaly, as sending Simultaneous pairs will be all that is usually ever required.

If the feature ever begins to become a problem, a redesign of the handset matrix can resolve the issue.
Please keep BLN informed of any features that you may wish changed.

Operation with High Level Handsets & interchangeability.

The Sporting Multitrap Handset is designed to operate with the Sporting Multitrap Controller. Operating the Sporting **CONTROLLER** with an **EVOLUTION** (LCD equipped) **HANDSET** will transform the System, partly, into an Evolution Multitrap Claymate, in that all the features and power of the Evolution Handset will work happily with the slightly lower specification Controller.

Features that cannot be used with the above combination will be the Solo Delay feature, as the Sporting controller does not have a Solo Delay button (The Evolution Controller does).

The 'Credit Tracking' of the Evolution Controller is not present in the Sporting Controller.

Certain Configuration adjustments are denied to the Evolution Handset by the Sporting controller, typically, the **Terminal** Option to adjust **Bonus targets, Mode lock and Local sounder** operation have NO MEANING to a Sporting controller.

Locking an LCD equipped Evolution **CONTROLLER** into any function **OTHER** than Sporting will require the lock to be removed before fitting a Sporting (non LCD) handset as the lower specification handset has no buttons allocated to "FIRE" or "No Bird".

The Configuration Key as fitted to the Sporting Multitrap has NO FUNCTION other than to allow a reading of the Audit Value which is read by pressing the CREDIT button.

The Key is also used for factory setting using an Evolution Handset to gain access to memory functions not directly supported with a Sporting Handset.

A Sporting Handset will operate an Evolution Controller perfectly and is a recommended 'Hot Spare' in the event that the high cost Evolution Handset fails at a critical time. Note the limitations however in that a Sporting Handset cannot take over an automated 5-Stand, for instance, other than to launch 'wild' targets as required.

The Philosophy behind a Claymate Trap Control System that embodies several Controllers (Two) and several Handsets (currently Two) is to allow the Ground to mix and match Controllers and Handsets to specific requirements where the versatility of an Evolution Handset, for instance, may not be desired or required.

Interchangeability of Handsets and Controllers to achieve the highest level of compatibility is a design requirement set by BLN.

GUARANTEE & POLICY STATEMENT

Claymate Trap Control Systems is wholly owned and operated by **BLN Technical Services**.

BLN Technical Services guarantees the Claymate product described to be free of manufacturing defects for the purpose of clay trap launcher control for a period of one year from date of purchase in the UK. Non UK countries may be subject to a different warranty period at the discretion of local dealers.

This guarantee specifically does not cover wear and tear to cables or enclosures, faults caused by wear and tear, misuse, abuse or application of excessive or inappropriate voltages, including lightning strikes.

The owner shall at all times be responsible for the care of the product and shall take steps to ensure that the product is protected from the damaging effects of wind, rain or snow.

BLN Technical Services reserve the right to change or amend the specification or software without notice. Software changes as requested by customers become the copyright of BLN technical Services and such changes may be included in future software releases, or may be offered to existing customers as an option or an upgrade.

The software supplied at any time has been thoroughly tested and is believed to be free from bugs or anomalies.

Software upgrades may or not be chargeable at the discretion of BLN.

Neither Claymate Trap Control Systems, BLN Technical Services or agents of BLN will be responsible for accidents or injury or loss caused by operation of traps or associated equipment under the control of any Claymate System whether the operation of such equipment is desirable or not; is caused by operation of any equipment when it is unsafe to do so, or under any fault condition of any equipment howsoever caused including 'acts of God', or man.

Repair policy, and care of the Equipment

Suspected problems can usually be rectified or explained after a few minutes on the telephone. If in doubt... Read the instructions.

If Claymate is returned for warranty work, a copy of the original invoice may be required.

The printed board has no user serviceable parts apart from the processor which can be changed to implement a software upgrade or special change.

Do not remove or replace the processor or short processor pins on powered equipment. That path can lead to large repair bills.

The Handset will stand rain but it is a valuable piece of kit. Do not leave out when not in use.

The Release Controller IS waterproof yet it too should be treated with some respect.

Warranty does not include stupidity or neglect.

Do not dry a damp unit out in a microwave oven.

This will destroy the unit completely and BLN will not entertain anything other than a complete replacement at your expense.

In all cases, BLN reserves the right to repair or replace boards at the discretion of BLN.

Replacement parts may be new or 'reworked' at the discretion of BLN.

The design of mechanical or electronic components may change without notice.

Sporting Multitrap Claymate Technical Specification.

Supply voltage range.

- 12 volts DC
- 15 volts AC

Current requirements.

30mA total of which 10mA is the Handset, at 12v DC

Trap Release Specification. 2 build options.

- 12 to 48 volts AC/DC (standard UK build state)
- 'Volt free' relay contacts rated at 240v 3A max. (USA Option for Winchester traps)

Built in Trap Cycle Timer.

Timing is factory set in software at 2.5 seconds.

Controlling elements.

Arizona Microchip PIC.

Auditing.

To one target short of 10 million launches.

Printed Circuit Boards.

Conformal coating to high specifications.

All Claymate products have been tested and certified to exceed European EMC regulations and specifications including conducted and radiated emissions and susceptibility to external electromagnetic fields.

An independent EMC test house was employed to perform the certification.

The specifications achieved exceed FCC specifications.

BLN Technical Services reserve the right to change specifications in the pursuance of product improvement without notice.

Such changes are, however, usually announced on the web site.

If you have any good experiences whilst using the Claymate product, tell your friends.

If you have any bad experiences... Tell me!

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