

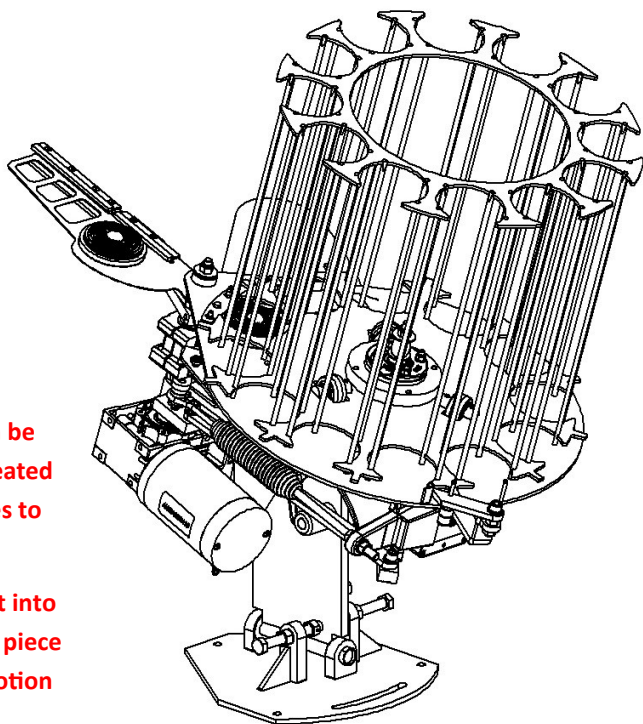


Operating Instructions Super Sporter Double

WARNING

Clay target launchers can be dangerous and must be treated with great care at all times to avoid accidents.

Never place any bodily part into the path of any mechanical piece whilst the machine is in motion or likely to be so.



You must treat a clay target launcher with the same caution that you would treat a loaded gun.

Assume at all times that a clay target launcher is armed and loaded and treat it accordingly



This document must be read in full before attempting to operate the machine

Preface:

Every effort has been made to ensure that the information contained within this manual is complete, accurate and up-to-date. Promatic International assumes no responsibility for errors beyond its control.

Conventions used within this manual:

Trap: Your Super Sporter Double - Clay target launcher - commonly known as a clay trap and may be referred to in this manual as “The trap” or “The machine”

Warnings & Cautions:



Warning: This section contains instructions which, if ignored or carried out incorrectly, may result in risk of personal injury.



Caution: This section contains instructions which, if ignored or carried out incorrectly, may result in malfunction or damage to the equipment or consumables.



Note: This section contains additional information which the user may find useful, but is not essential to the operation of the product.



12v DC Power Source:

This Trap is designed to be powered from a 12v DC battery. We recommend 85Ah (approx.) leisure batteries. Promatic part no. E30V/LB85

IT MUST NEVER BE DIRECTLY CONNECTED TO HOUSEHOLD AC POWER



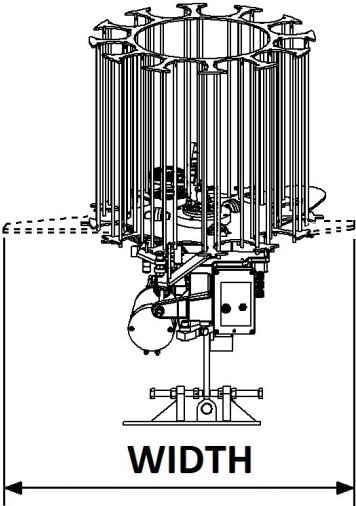
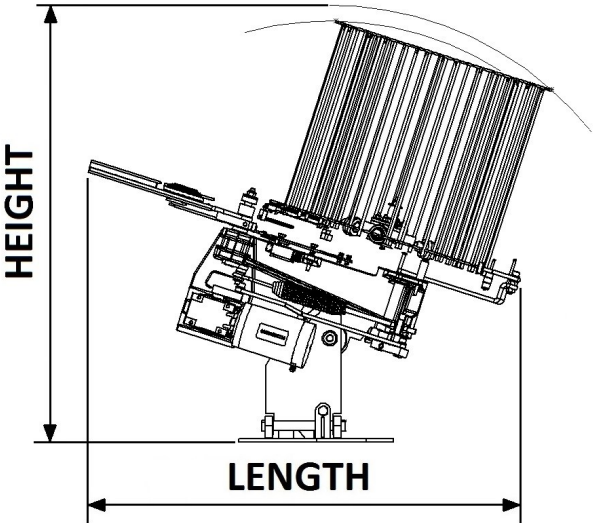
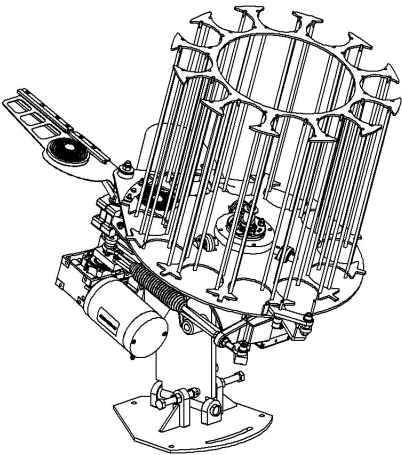
EYE PROTECTION MUST BE WORN WHEN WORKING ON OR AROUND A CLAY TARGET LAUNCHER AS SMALL SHARP PIECES OF CLAY MAY BE EJECTED DURING NORMAL USE.



Specifications:

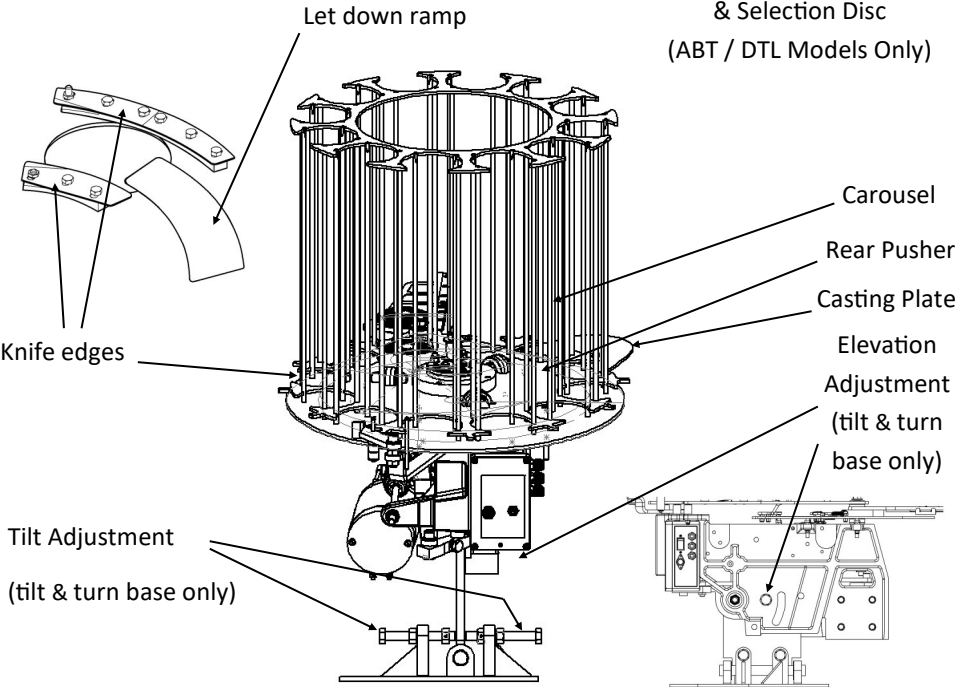
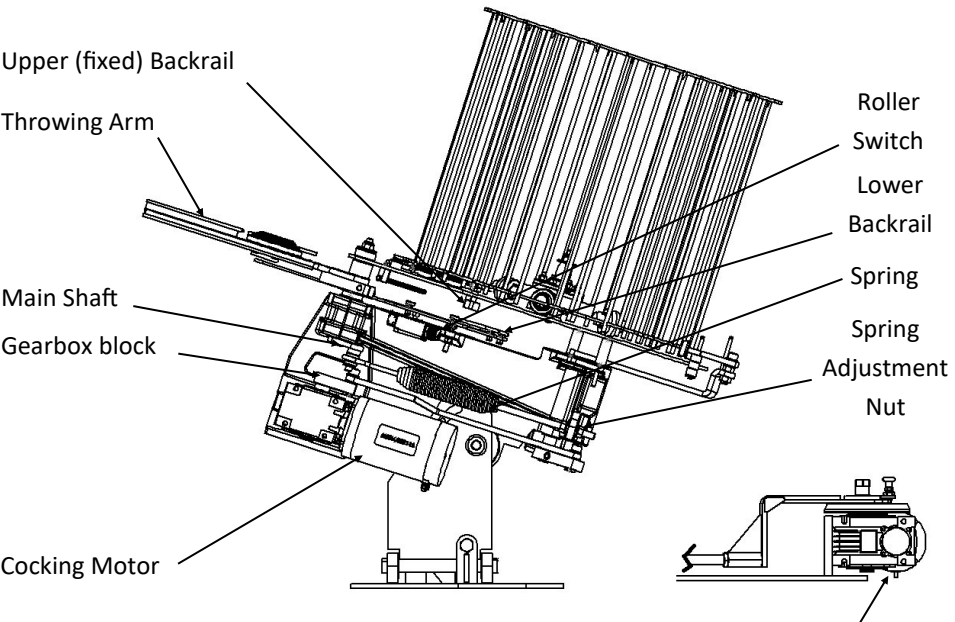
Super Sporter Double

Model:	12 Stack	
Carousel:	600 Birds	
Length:	1150mm	45 1/2"
Width:	870mm	34 1/4"
Height:	1162mm	45 3/4"



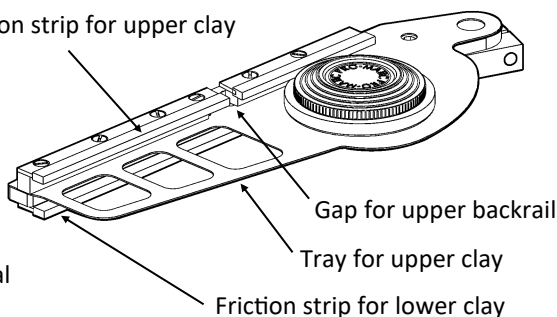
Super Sporter Double 12 stack on tilt & turn base

Understanding your new trap:



The Double Throwing Arm: Friction strip for upper clay

The Super Sporter Double throws two clays, one above the other from the same throwing arm. In operation the first clay is fed through the top plate and lands on the casting plate in the conventional manner, this is then contacted by the lower friction strip .



The second clay is then fed through as the arm advances, this lands on the tray and is contacted by the upper friction strip. A gap in the upper friction strip allows the arm to pass over an upper (fixed) backrail which guides the upper target.

With this arrangement both targets leave the trap at the same time, The angle (spread) between the targets is achieved by adjusting the lower backrail position.

Positioning the machine

1. Clay Target Launchers must be situated on firm level ground in a position that will allow unrestricted access to rear of machine.
2. There must be no obstructions to the path of the throwing arm.
3. Ensure that the power supply can be easily disconnected and cables cannot become tangled in any part of the mechanism.



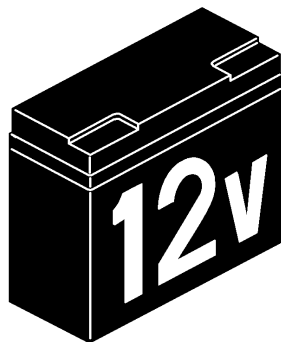
**Ensure the machine is stable on firm level ground before use.
This machine should be bolted to a solid base or the optional H
Frame (which itself should be securely pegged) before use.**

GENERAL WARNINGS - BEFORE OPERATING ANY TRAP

ALWAYS disarm the machine before any loading, adjustment or maintenance.
ALWAYS load clays from rear and **ONLY** if the machine is disarmed and safe.
NEVER approach the machine from the front or sides. **ALWAYS** from the rear.
NEVER allow children or untrained persons to approach or touch the machine.
NEVER move an armed/loaded machine. **ALWAYS** disarm and disconnect battery.
REMOVE the main throwing spring before transport in a vehicle.
BE AWARE of the fall zone of both broken and unbroken clays and that a change in wind direction will affect this.

Connecting the battery:

Ensure you are behind the machine, that the **ARM/**
DISARM switch is in the **OFF** position and the trap in
a safe condition (either disarmed or in safe mode).
Connect the red cable to the Red (+) terminal and
the black cable to the Black (-) Terminal. Ensure the
terminal fasteners are tight, the battery is safely
positioned and the charger has been removed.



Never approach the machine from the front or sides, Do not assume the trap is safe, even without electrical power it may still be armed and can fire without power being applied.

Battery Troubleshooting :

Trap fails to re-arm - If after a period of prolonged use the trap fails to re-arm itself and is found to be stalled (may also be making a humming sound) then this is an indication that the battery is depleted, and the voltage has fallen too low to operate the trap. Disconnect the battery immediately and re-charge (or fit a replacement fully-charged battery).

A depleted battery may appear to have recovered if left unused. The trap should not be used any further than necessary to make it safe as continued operation of a depleted battery at low voltage may cause damage to the motor, battery, or other electrical components.

Circuit breaker has operated - The battery may have been incorrectly fitted (terminals reversed) or an excessive amount of current was drawn either due to a fault or obstruction within the trap. Check for obvious faults or obstructions and reset the circuit breaker. If the fault persists, seek advice from Promatic.

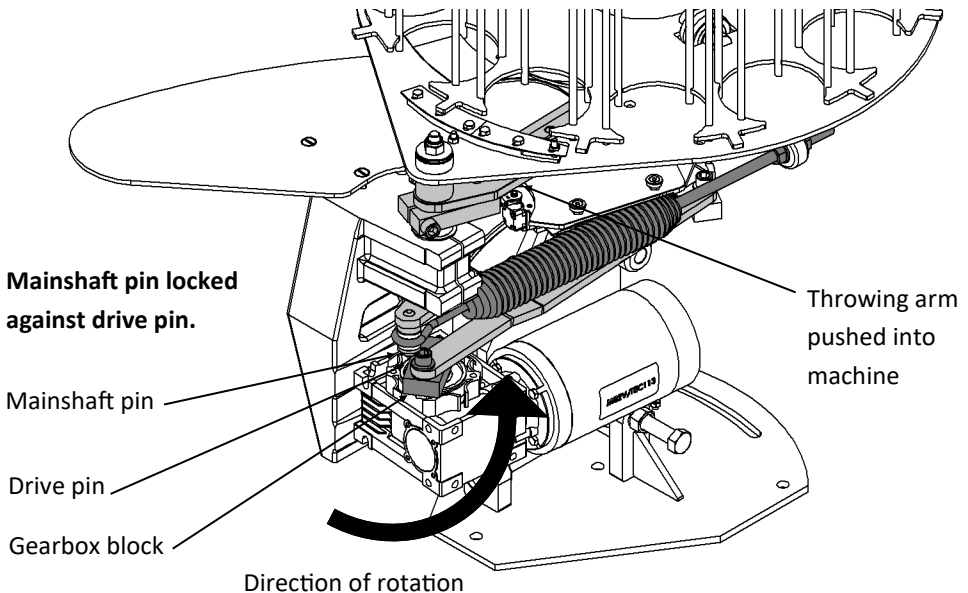


If the circuit breaker has tripped due to an obstruction DO NOT ASSUME THE TRAP IS SAFE it may still be armed with the obstruction holding back the energy from the spring. If this is the case it will be safest to remove the spring. Carefully clear the obstruction whilst remaining in the safe area behind the trap BE AWARE of the path of the throwing arm AND the debris that may be ejected.

Transit Mode Procedure - This is recommended for machine transportation.



Warning: Stand at rear of machine only

1. Disarm the machine by flicking the **ARM/DISARM** switch momentarily towards the **DISARM** position and immediately releasing (long enough for the trap to fire, but not giving the machine a chance to reararm). The throwing arm should be visible towards the front or side of the machine. The Gearbox block (A rectangular block attached to the gearbox shaft) should be in a position pointing towards the front of the machine. Push the **ARM/DISARM** switch momentarily in direction of **DISARM/NUDGE** just enough to allow the block to move slightly past the straight ahead position as seen in the diagram below. If the block has gone too far, follow this procedure again until the desired position is achieved.
2. Disconnect the power source from the machine.
3. Adjust the spring to reduce the tension.
4. The throwing arm can be pushed slowly, **USING THE PALM OF THE HAND ONLY**, around Anti-clockwise (Into the machine).





5. As the throwing arm gets to the firing position (pointing directly to the back of the machine) the spring will take over, moving the arm onto the drive bolt on the Gearbox block. This will stop the arm and prevent it from firing. Further jogging should now see the throwing arm follow the drive bolt. If not, repeat the procedure but jog the gearbox block slightly further round before pushing the arm around (4). Once the arm is locked onto the drive pin disconnect the battery.
6. This is **TRANSIT MODE**. The arm is now locked between the drive bolt and the one-way bearing within the trap, it cannot move or release again until power is applied and the **ARM/DISARM** switch operated.

Disarming the machine (Safe mode).

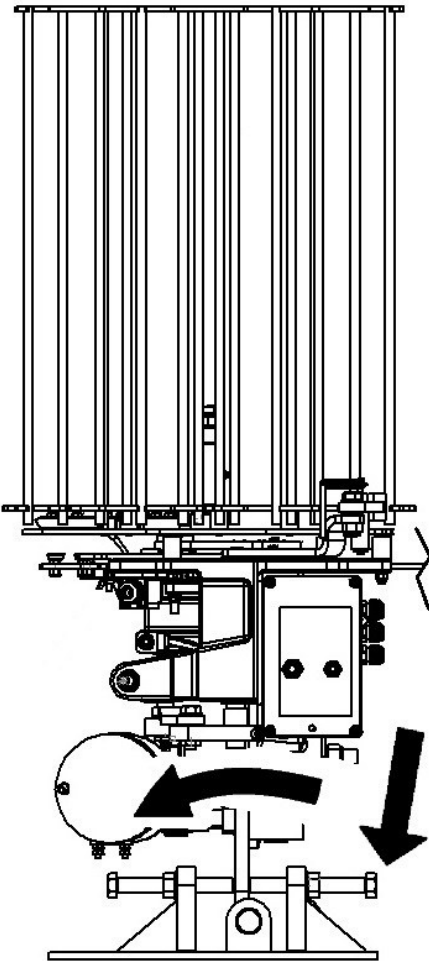
1. To disarm the machine push the **ARM/DISARM** switch momentarily to the **DIS-ARM** position and immediately release (long enough for the trap to fire, but not giving the machine a chance to rearm). The throwing arm should be visible towards the front or side of the machine.
2. Turn the **ON/OFF** or  switch (if fitted) to the OFF or  position and disconnect the battery.

Firing the machine (Ensure the range is clear at the front of the trap.)

1. Turn the **ON/OFF** or  switch (if fitted) to the ON or  position and set the **ARM/DISARM** switch to the **ARM/LOAD** position. The machine will move automatically and arm itself ready to launch a loaded clay.
2. Press the **FIRE** button on the command cable to throw a clay.
3. The machine will fire every time the **FIRE** button is pressed and will automatically rearm itself, until disarmed and switched off. When switched off, disconnect the power source.

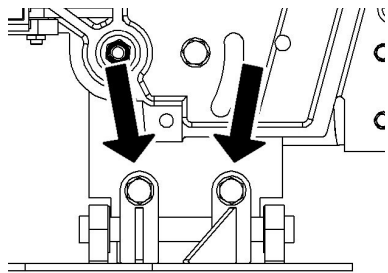
Tilt Adjustment:

On models fitted with the tilt & turn base, the machine may be tilted to either side to achieve either curling or flat targets. A 24mm spanner/wrench will be required for this adjustment.



Loosen the locknut on the side opposite to the side you wish the trap to tilt towards, back off the bolt and the trap should begin to tilt away from you.

Once the desired position is reached, extend the bolt on the other side until the bottom of the trap is once again firmly clamped between the two bolts. When the adjustment procedure is fully completed tighten the locknuts against the brackets to secure the base against loosening caused by vibration during use.



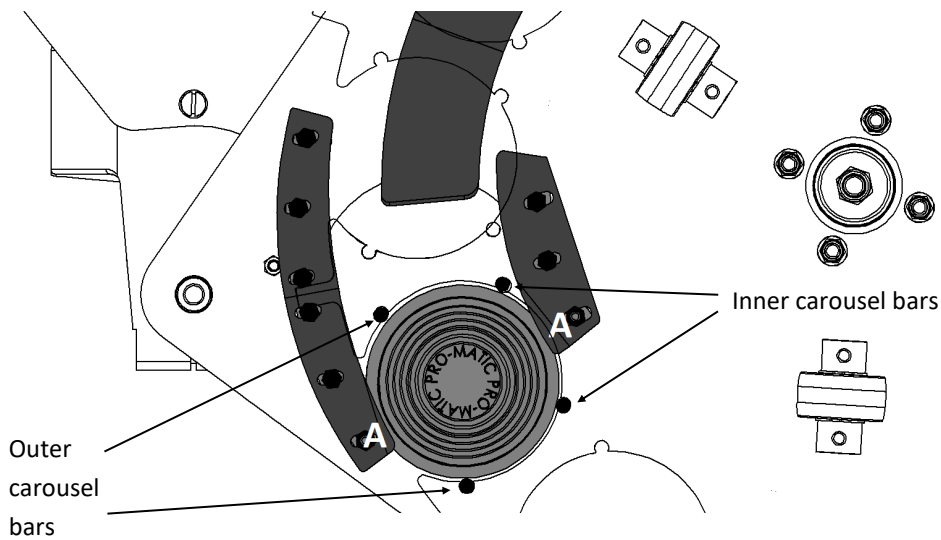
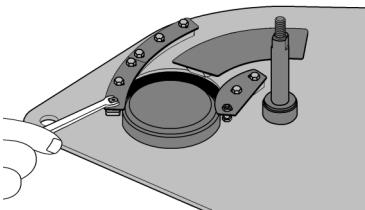
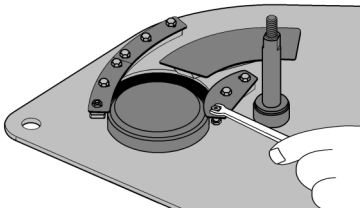
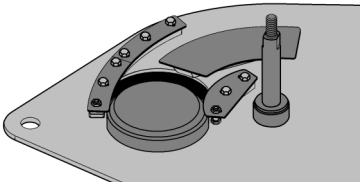
Be aware that if the machine is tilted in the opposite direction, when the locking bolt is undone the machine may remain over-centre. Support the weight of the machine from the top of the carousel (or have an assistant do this) and then gently lean the machine in the desired direction, so that it does not fall suddenly whilst making the adjustment.

Adjustment: Setting up knife edges

Place a clay target on the top plate and slide it half way under the two knife edges.

Using a 10mm spanner/wrench, adjust the height of the inner and outer leading edge of each blade (Position A in bottom diagram). It is desirable to have no less than 0.5mm clearance between the under-side of the knife blades and the horizontal shoulder of the clay.

It is also important that the knife edges have the correct clearance around the diameter of the clay and that they support the skirt of the clay resting on the knife edges for its entire travel along the knife edge. To set this, hold the clay against the inner two carousel bars and gently tap the inner knife edge until there is approximately 1mm clearance between the dome of the clay and the knife edge. Tighten fixing bolts. Now hold the clay against the two outer carousel bars. Again gently tap the outer knife edge until there is approx. 1mm clearance between the dome of the clay and the knife edge. Tighten fixing bolts.





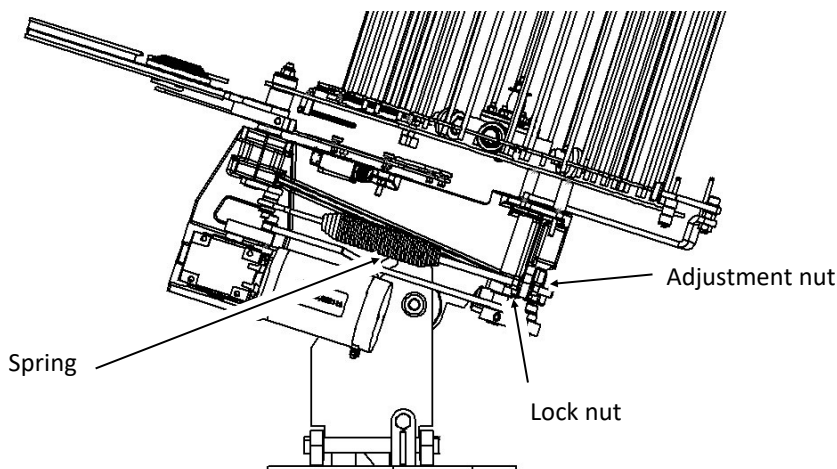
ALWAYS disarm the machine before carrying out loading, adjustment or maintenance.

Adjustment: Spring Tension

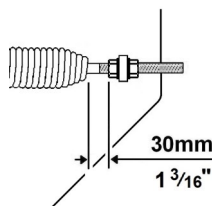
Spring adjustment is always easier if the spring roller on the main shaft is at its rear-most position, this relieves the spring of a large proportion of it's tension making adjustment much easier as well as reducing wear on the spring adjustment mechanism. To achieve this, first perform the Transit Mode Procedure (see page 7) and then nudge forward until the throwing arm projects forward from the front of the machine. At this point stop nudging and disconnect the battery. Loosen the spring lock nut.

To increase the spring tension, move the Lock nut towards the coil spring and then tighten the Adjustment nut behind it.

To reduce the spring tension, move the Adjustment nut away from the spring coil and tighten the lock nut behind it.



Important: leave 30mm (1 3/16") thread length between inside nut and spring coil. Increasing spring tension up to full length of thread will seriously detriment the performance of the machine and will cause spring damage or failure.



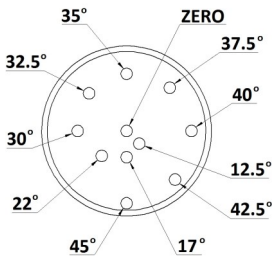
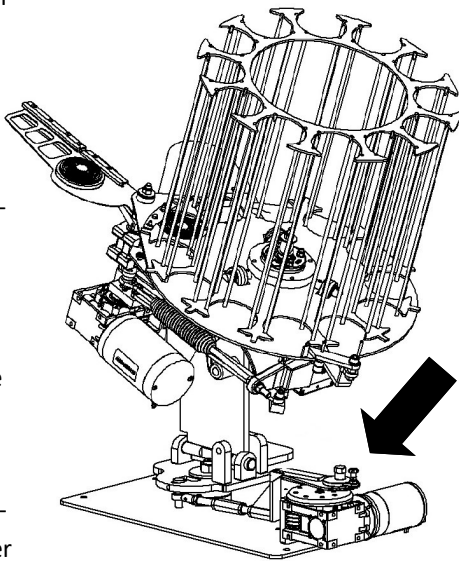
Adjustment: Oscillation

DTL and ABT (Wobble) Models are fitted with an adjustable oscillation mechanism. ABT models are fitted with an elevation mechanism which has a pre-defined offset.

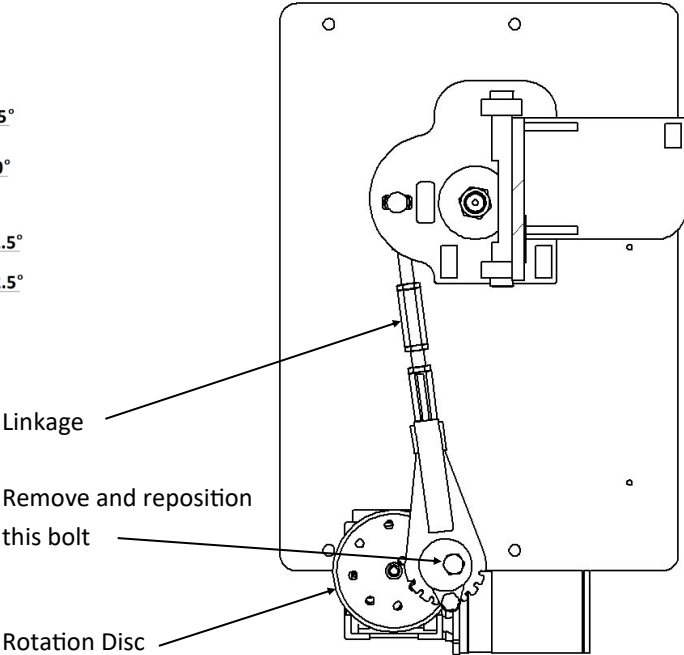
The width of the field in DTL mode can be adjusted by placing the rear bolt on the oscillation linkage in one of the alternative holes.

Disarm the trap and ensure it is safe to proceed, then using a 24mm spanner/wrench undo the bolt holding the rear of the Linkage into the Rotation disc, move to the desired hole and re-tighten.

Using a hole positioned further from the centre will give a greater spread of targets (wider field) The centre hole gives a fixed zero position to allow a “straight away bird” to assist when setting up the course.



ROTATION DISC ANGLES





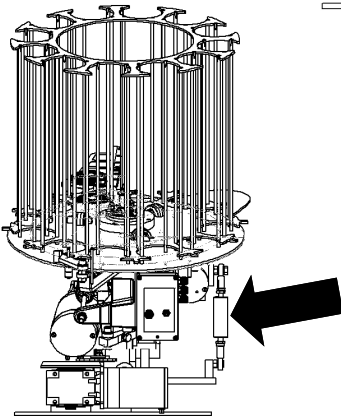
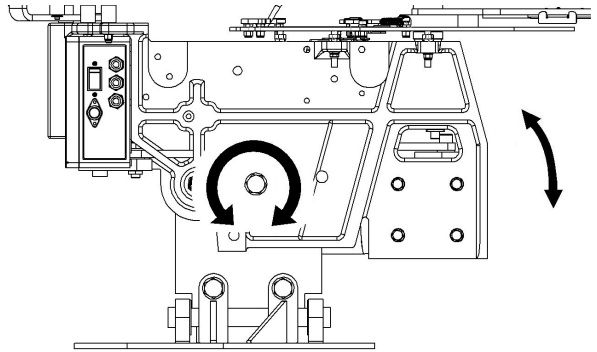
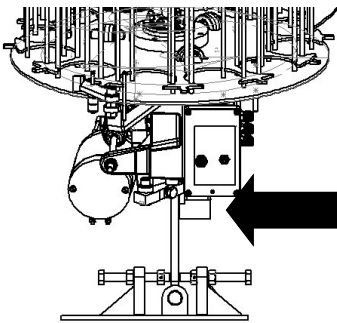
Never approach the machine from the front or sides, Do not assume the trap is safe even without electrical power it may still be armed and can fire without power being applied.



ALWAYS disarm the machine before carrying out loading, adjustment or maintenance.

Adjustment: Elevation

All models except ABT (Wobble): Loosen the locking nut as shown, tilt to desired angle, then re-tighten the nut.



ABT/DTL Models: The elevation can be adjusted by turning the Knurled adjuster.



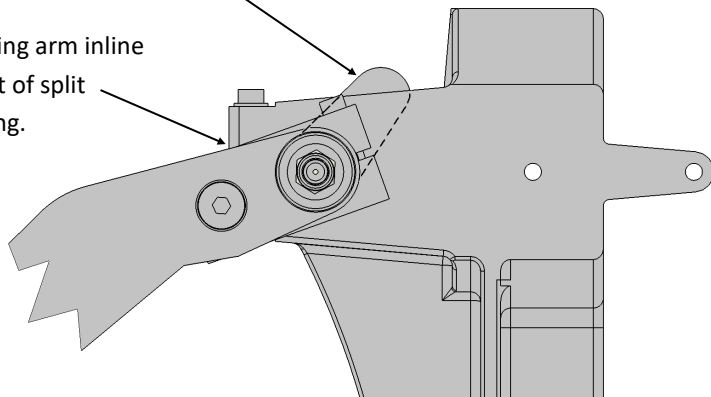
Be aware that if machine is already tilted upwards, when the locking nut is subsequently undone the machine will jolt forward. Support the weight of the machine from the top of the carousel (or have an assistant do this) when adjusting the elevation angle.

Adjustment: Throwing arm timing

1. Disarm the machine by flicking the ARM/DISARM switch upwards towards the DISARM position and immediately releasing (long enough for the trap to fire, but not giving the machine a chance to reararm). The gearbox block will now be pointing towards the front of the machine.
2. Flick the ARM/DISARM switch upwards towards the DISARM position repeatedly until the gearbox block points towards the back of the machine but does not contact the throwing arm. This reduces the spring tension.
3. Note the position of the inside nut before removing the spring (as this determines the amount of spring tension set) then undo the rear nut and remove the spring from the trap.
4. With the spring removed, rotate the throwing arm until the mainshaft crank is stopped with a “half moon” of lobe visible as shown in the diagram below.
5. Loosen the throwing arm clamp block bolt until the throwing arm will move around the mainshaft. Rotate the throwing arm **clockwise** (this is so the mainshaft is held by the one-way bearing and doesn't move) until the throwing arm is positioned as in the diagram below, where $X=15\text{mm}$.
6. Making sure both the mainshaft crank and the throwing arm are in the positions described, firmly tighten the throwing arm clamp block bolt. The arm timing is now complete.
7. Replace the spring paying attention to the orientation of the hook (Open side inwards towards the frame).

“Half Moon” of Mainshaft lobe showing under frame casting.

Back of throwing arm inline with front part of split clamp in casting.





ALWAYS disarm the machine before carrying out loading, adjustment or maintenance.

Troubleshooting:

1. Machine does not arm (i.e. come to the loaded position).

- (a) Check the battery is charged and that connections are tight.
- (b) Check the toggle switch is in the down (ON) position.
- (c) Check the Throwing arm is clear of the Roller switch under the Casting plate. If not, then press toggle up to nudge the Arm around until it is clear, then switch it back down to the ON position.

2. Machine still does not arm.

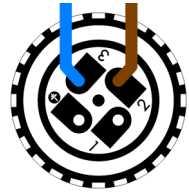
- (a) Check all connections are tight including those inside the electrical box. Check for broken wires and damaged connections.
- (b) If there are no broken connections (battery connected, all switches on) press toggle up to “NUDGE”, listen and watch for the 12v relay operation in the control box.
- (c) If the relay operates but the motor does not turn - momentarily short across the 2 large contacts on the relay with a screw driver or piece of wire. (These are the two terminals with red wires connected to them). If the motor does not turn - then the motor is suspect. If the motor does turn - then the relay is faulty. Contacts may be dirty or worn out.
- (d) If the relay does not operate – check the fuse has not blown. Replace fuse if it has blown and try again.
- (e) If the motor does not turn - then short the brown wire to the yellow/green wire on the back of the toggle switch with the switch in the “NUDGE” position. If the relay operates and the motor turns then the toggle switch is faulty. If the relay still does not operate, then it’s the relay that is faulty.

3. Machine runs in “NUDGE” position, but not in “ON” position.

If the arm is clear of the Roller Switch then the Roller Switch may be faulty. Check that the roller arm is not seized. If so, strip, clean and re-assemble. Otherwise replace the Roller Switch.

4. Machine arms, but will not fire on command cable button.

- (a) Either the connections, cable or command push button are faulty. Disconnect the Hirschmann connector from the control box socket and using a short piece of wire connect pins 2 & 3 in the socket (do not put anything into the other pin holes as one of these carries continuous +12v for radio use.)



If the trap does not fire then there is a broken wire in the cable or a bad connection within the Hirschmann connector or control box.

- (b) If the trap does fire then reconnect the command cable, remove the cover on the push button box and short across the two spade connectors. If the trap fires - then the push button is faulty. If the trap does not fire - then there is a broken wire in the command cable or a bad connection in the connector.

5. Trap fires by itself!

- (a) Disconnect the command cable and switch the trap back on. If the trap re-arms normally - then the command cable is damaged or shorted out. Alternatively, the push button switch is stuck in or faulty.
- (b) If the trap continues to fire - then check the arm to crank timing relationship as described on page 17 of this manual. If this relationship is correct then, after having put the trap into the disarmed/safe position, move the roller limit switch out along the slotted bracket to its maximum. If the machine now re-arms normally - then move the limit switch back to within 5mm of its original position. If the trap now fires by itself again then move the switch to 10mm of its original position and so on until the trap arms normally under all conditions.

ALWAYS disarm the machine before any loading, adjustment or maintenance.

ALWAYS load clays from rear and **ONLY** if the machine is disarmed and safe.

NEVER approach the machine from the front or sides. **ALWAYS** from the rear.

NEVER allow children or untrained persons to approach or touch the machine.

NEVER move an armed/loaded machine.

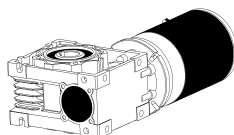
ALWAYS disarm and disconnect battery.

REMOVE the main throwing spring before Transport in a vehicle.

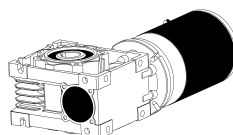
BE AWARE of the fall zone of both broken and unbroken clays and that a change in wind direction will affect this.

Spare Parts

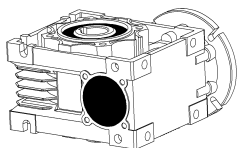
For parts not listed please
call Promatic or you local
dealer / service agent or
visit www.promatic.co.uk



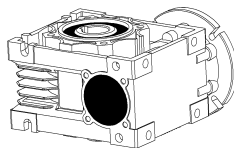
12v Motor & Gearbox
100:1 Ratio (Rotation)
M05V/MG100



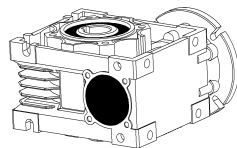
12v Motor & Gearbox
80:1 Ratio (Elevation)
M05V/MG80



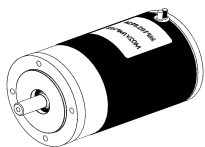
GEARBOX ONLY TYPE:
NMRV50 R100:1 MOTOVARIO
(Rotation) M03V/MV50R100



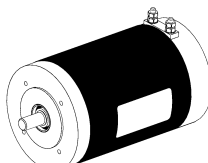
GEARBOX ONLY TYPE:
NMRV50 R80:1 MOTOVARIO
(Elevation) M03V/MV50R80



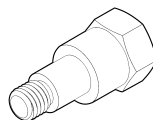
GEARBOX ONLY TYPE:
NMRV50 R60:1 MOTOVARIO
(Cocking) M03V/MV50R60



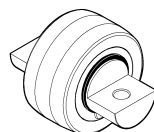
MOTOR ONLY TYPE - MP102
(Elevation/Rotation) M02V/MP102



MOTOR ONLY TYPE - MP113
(Cocking) M02V/TEC113

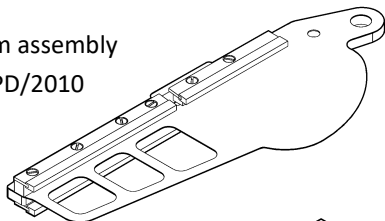


Locking Pin Adjustor
SPIDA/4465

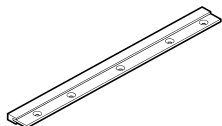


SDA/1440 Carousel
Wheel Assembly

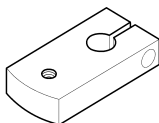
Arm assembly
SSPD/2010



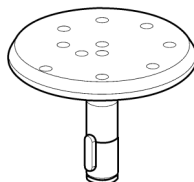
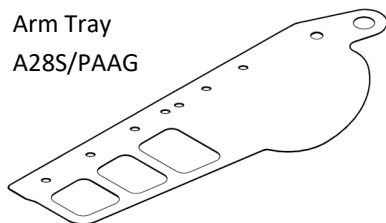
Friction Strip
SSPD/2200



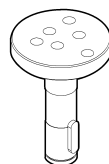
Arm Clamp Block
SP/2500



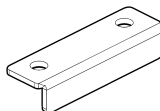
Arm Tray
A28S/PAAG



Rotation Gearbox Shaft & Disc
OABT/4100



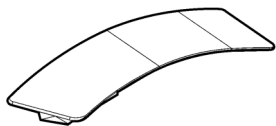
Elevation Shaft &
Disc SPIW/4125



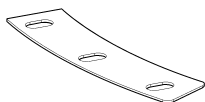
Clay Sweeper
SSPD/2700



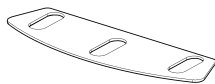
Rubber Buffer
(Clay Stop)
D06L/1566



Let Down Ramp
SSPD/3400



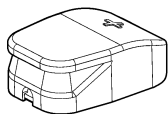
Outer Knife-edge
A28S/BDZS



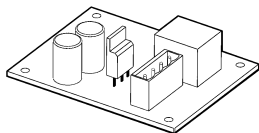
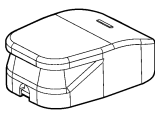
Inner Knife-edge
A28S/AZLN



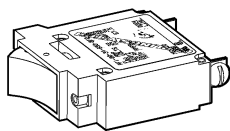
Carousel Bearing
B01V-FC20



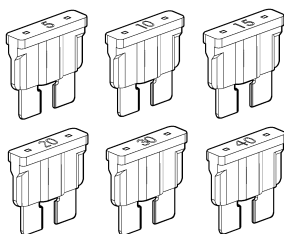
Quick Battery Terminal Clamp
Positive (Red) E06V/45100
Negative (Blue) E06V/45110



Sleep Timer board
E23V/BLNST



Trip Switch (50a)
E10V/MB50A 12v



E10V/F05A FUSE 5AMP (Lt Brown)

E10V/F10A FUSE 10AMP (Red)

E10V/F15A FUSE 15AMP (Blue)

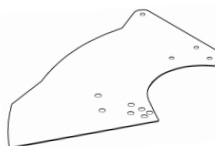
E10V/F20A FUSE 20AMP (Yellow)

E10V/F30A FUSE 30AMP (Green)

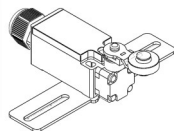
E10V/F40A FUSE 40AMP (Amber)



Back Rail
RCH/3440



Soft Fall Plate
A28F/PAJJ



Roller switch
RN6/7200



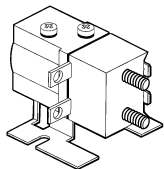
Short Hook
Trap Spring
S01Z/SHTR



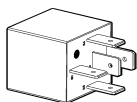
Spring Roller
RN6/2630



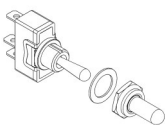
Rear pusher roller
D04N/RN25



12v Relay (Albright)
E09V/SW618



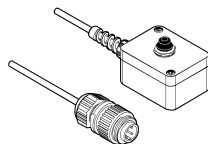
5 pin relay
E09V/5PIN



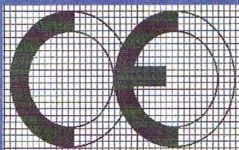
Toggle switch
E11V/7430



Fire Button
E11V/7410



Command cable
E03V/CCCH



Barclay-Phelps

CE Marking Consultants

Barclay Phelps CE Marking Consultants, 29/8 City Mill Lane, Gibraltar 646, Europe

CERTIFICATE & DECLARATION OF CONFORMITY FOR CE MARKING

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Station Works, Hooton Road, Hooton, S Wirral, CH66 7NF, United Kingdom

Tel: +44(0)151 327 2220 Fax: +44(0)151 327 7075 e mail: info@promatic.co.uk

Promatic International Ltd. declares that their:

Clay Target Launchers listed as the following models

Elite, Hawk, Superhawk, Harrier, Harrier ABT/Wobble, Eagle, Eagle Battue, Falcon, Hobby / Merlin, Ranger 8, Osprey/All American Ranger, Ranger Battue, Ranger ABT/Wobble, Sporter 400TT, Sporter 400TT ABT/Wobble, Super Sporter Battue, Super Sporter, Super Sporter Downhill Thrower, Super Sporter ABT/Wobble, Rabbit, Squirrel, Ranger Chondell, Chondell, Hunter Wobble, Huntsman, Huntsman XP, Fieldsman, Club Skeet, Pro Skeet, Int Skeet, Olympic Trap, Club 275 DTL/ATA, International DTL/ATA, Pro ABT/Wobble, Auto Trap DTL/ATA/ABT/Wobble, International Doubles DTL/ATA/Wobble and Sporter Doubles DTL/ATA/Wobble

are classified within the following EU Directives:

Machinery Directive 2006/42/EC

Electromagnetic Compatibility Directive 2004/108/EC

and further conform with the following EU Harmonized Standards:

EN 12100-1:2003+A1:2009 EN 12100-2:2003+A1:2009

EN 61000-6-3:2007 EN 61000-6-1:2007

Dated: 19 April 2011

Position of signatory: Group Technical Director

Name of Signatory: Graham Stephen Fair

Signed below:

p.p. Promatic International Ltd.



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