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 Grouse Trailer and its attached Falcon Clay target launchers - commonly known as clay traps 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.

This product uses an AC Mains power charging system.

Traps operate from 12v DC Power Source:
TRAPS MUST NEVER BE DIRECTLY CONNECTED TO HOUSEHOLD AC POWER

CAUTION
AC Mains wiring is present in this product
Great care should be taken when undertaking servicing or repair that any AC mains wiring is correctly identified and is properly isolated before any work commences.

Isolating the AC Mains charging system will not prevent the traps from being moved or fired

Battery: Where a trap is connected to any other suitable power source i.e. a Transformer - the relevant sections of instructions should still be observed, i.e. “Disconnect the battery” and applied to this or any other power source.

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

Length: 3300mm 130”
Width: 1905mm 75”
Height (over radio mast): 2370mm 93 1/4”
Height (over traps): 1400mm 55”
Targets (Grouse 6 trap): 1014 Birds 6 x 8 stack carousels (169 each)
Targets (Grouse Combo): 1014 Birds 507 x Standard, 338 x 70mm & 169 x Midi
Introduction

Please take the time to read the contents of this manual before you attach the trailer to the towing vehicle, or attempt to use it. It is a good idea when reading this manual, to take a tour of the trailer with all persons who will be using it. Make sure everyone responsible is fully conversant with the procedures for attaching to the towing vehicle, towing, operating and maintaining the unit. By following, understanding and practising the information and procedures in this manual, your Grouse Trailer will give you many years of trouble free operation.

Legal Considerations For The Un-braked Trailer

This trailer is not fitted with lighting system and is classified for off-road use only. It should therefore only be towed on private roads and grounds. This trailer should not be towed on the public highway.

Towing Vehicle Suitability

Although this trailer is for off-road use, for safety reasons (and to avoid potential warranty issues) the towing vehicle must still be suitable for towing this weight of un-braked trailer. Information on recommended maximum towing weight can usually be found in the vehicle handbook or stamped on a plate under the bonnet. If this figure is not available, you should obtain confirmation of the maximum allowable unbraked towing weight from the vehicle manufacturer.

Towing Brackets

The towing vehicle must have a properly fitted, good quality towing bracket of the correct specification for the vehicle and be fitted in accordance with the vehicle manufacturers recommendations. An ISO Standard 50mm ball (UK & Europe) should be fitted to suit your trailer. Maintenance of the towing bracket, tow ball and fixings is most important. Regularly check all mounting nuts and bolts for condition and security. It is good practice to have the ball inspected by the supplier whenever your vehicle is serviced.

When connected, the trailer must sit horizontally level. Do not tow the trailer if it is tipping backwards or forwards. Always be aware of the condition of your tow-ball. Keep it well greased and covered when not in use. regularly check the wear indicator on the coupling head, especially if towing with different vehicle. If you are in any doubt about the tow-ball have it replaced.
Attaching The Trailer To The Towing Vehicle

Turn the jockey wheel’s operating handle anticlockwise to raise the coupling head to a height greater than that of the vehicle’s tow ball. Reverse the towing vehicle towards the trailer so that the coupling head is directly over the tow ball. Grip the coupling head operating handle with one hand and squeeze the trigger within the handle, then tilt it forwards to open the mechanism. Using the jockey wheel lower the head onto the ball, at this point release the handle and allow it to return to the locked position. To confirm that the head has locked, try lifting it off the ball without operating the handle. *When reversing your vehicle towards the trailer use an assistant to direct you (especially the first time) take great care to avoid striking the coupling head which could cause damage to towing vehicle and trailer coupling.* Unclamp the jockey wheel and lift it as high as possible before firmly re clamping, it is good practice to lock the jockey wheel (by fully closing it) and position it with the wheel parallel to the drawbar.

Always attach the secondary coupling cable

Ideally you should attach the secondary coupling cable to an attachment eye or strong point provided on the towing bracket, If such an attachment point is unavailable it should be looped over the tow ball stem. If you do not have a secondary coupling fitted to your trailer, or if it or any part of the coupling head or operating assembly appear to be damaged or are missing any parts - DO NOT TOW ! Check that the jockey wheel and the rear prop-stand are raised and securely clamped before moving off.

Parking The Trailer

Before detaching the trailer from the towing vehicle, you should choose the area where the trailer is to remain with care. Ideally the trailer should be parked on firm level ground to safeguard against the trailer rolling or sinking into the ground. Where you have no option but to park on soft ground, the trailer should rest on suitable scaffold type boards. Always chock the wheels or otherwise secure the trailer when it is parked independently of the towing vehicle as these trailers have no hand brake.

Detaching The Trailer

With the trailer positioned on firm level ground, apply the towing vehicle handbrake and switch its engine off. Where the trailer is on un-levelled ground, chock the trailer wheels. Release the jockey wheel clamp, lower the jockey wheel to the ground and securely tighten the clamp. Release the coupling head as described under coupling the trailer, use the jockey wheel to raise the coupling head clear of the ball. Finally disconnect the secondary coupling from its attachment point.
Powder Coated Finish & Long Term Storage

The main body of the trailer is powder coated to prevent corrosion of steel components. It is an accepted and effective method of protection against corrosion for steel. However should the coating become chipped or damaged it is necessary to touch up to ensure long term protection. It is also important that any deposits of corrosive substances such as road salt, mud, fertilizer and slurry be removed by immediate washing.

If the trailer is to be put into storage, it is recommended that the axles are supported on suitable stands with the wheels clear of the ground. This will prevent the tyres from suffering permanent distortion if they should lose pressure.

Setting up the Oscillation Linkage

The trap drive bars (2 short adjustable linkages to gearbox at front of trailer) will have been placed in the centre hole of the rotation disc for delivery, this is to reduce shock from the movement of the traps which could potentially damage the gearbox in transit. It is recommended that this method is used whenever the trailer is towed any distance.

The range of oscillation can be adjusted by placing the drive bolt to the drive bars in one of the alternative holes.

Disarm the traps and ensure it is safe to proceed, then using a 19mm spanner/wrench undo the bolt holding the drive bars into the rotation disc, move to the desired hole and re-tighten.

Using a hole positioned further from the centre will give a wider spread between each covey. The centre hole gives a fixed straight ahead position where all the traps will be inline and perpendicular to the side of the trailer.

The short drive bars can be adjusted individually to change the angle of either the front or rear bank of traps, Adjust individual bars to change the angle between pairs of traps.

When adjusting tie bars a 17mm spanner/wrench will also be required to hold the fixed part of the tie bar assembly.

It is important to note that when adjusting the angle between the traps that tie bars should not be adjusted to any less than 900mm (between fixing centres) to do so would allow the possibility that the traps could clash when in use. Ensure that locknuts are re-tightened after adjusting drive or tie bars.
The Control Box

Once the trailer has been properly parked, remove the locking pin from the base of the control box arm and swing the control box out to its operating position.

Insert the locking pin to prevent the control box from swinging back towards the traps during use.

Control Box Layout

For each of the six traps there is an Arm/Disarm switch and Fire button, these replace the controls normally found on the trap’s electrical box. The rotation control operates on all six traps simultaneously. All controls can be disabled by turning off the control box isolator.

Control Box Isolator

This is located on the right hand face of the control box. Disarm ALL traps before switching this to OFF as it isolates the individual controls on the front of the box. Before switching back on, ensure ALL arm/disarm switches are in the OFF position.
About the Grouse trailer radio

The radio control handset provided enables you to run pre-programmed flushes, fire each individual trap or fire 3 or 6 traps simultaneously.

Sporting Mode

Pressing the Mode button will toggle between Simulated Game / Sporting mode. In Sporting mode any of the six traps can be fired directly from the numbered buttons or one of the two buttons below this group can be used to throw either the front or rear bank of traps (or both banks) at once putting 3 or 6 birds in the air at the same time.

Simulated Game Mode

The controller has as standard 20, 60 & 100 bird flushes (Buttons 1-3), 40 & 80 bird flushes (Double push on buttons 1-2) and 60, 100 & 200 grouse flushes (Buttons 4-6). To use these flushes first select simulated game mode using the Mode button and then press the corresponding numbered button to select the flush you wish to shoot.

The screen will display the name of the flush you have selected along with “select sequence” press the OK button to confirm selection.

The screen will then display the last used flush speed and the message “select speed” select the desired speed (see below) and then press the OK/Start button to confirm selection. The screen will then display “ON = Start/Pause”. Upon pressing the OK/Start button the controller will emit 3 beeps then begin throwing the flush. The first line of the display will give a count down showing the birds remaining, whilst the second line will show which traps are currently throwing i.e 345 , 3 6 , 1 2   etc..

Pausing / Escaping from a flush

Push the OK/Start button to pause a flush, and push it again to re-commence. To abort a flush once commenced, pause it using the OK/Start button and then press the Mode button. The controller will return to the flush selection menu.

Speed control

Speed Control Up/Down Can be used to increase or decrease the speed of the a flush whilst it is in progress as well as during its selection.

Solo Delay

In Sporting mode this button toggles the delay on or off, when ON the controller will pause for 3 seconds before throwing the selected target, emitting 3 beeps as it does so, allowing the shooter time to put down the radio and mount his gun.
Switching off

The radio can only be turned off when in Sporting mode. Toggle into Sporting using the mode button then press and hold the OK/Start button for about 2 seconds to turn off the handset. If left unused for approximately 10 minutes the handset will automatically turn off. (when powered up again the controller will have been reset and any paused flush will have been lost)

Batteries

The handset is powered by 4 x AA size batteries (Alkaline batteries recommended), which can be changed by removing the rear cover to allow access.
Understanding the traps:

- Roller Switch
- Throwing Arm
- Main Shaft
- Gearbox block
- Cocking Motor
- Spring Adjustment Nut
- Spring
- Let down ramp
- Knife edges
- Rear Pusher
- Carousel
- Casting Plate
- Elevation Adjustment
Positioning the machine:

1. The Trailer must be situated on firm level ground in a position that will allow unrestricted access to rear of all the traps.
2. There must be no obstructions to the path of the throwing arms.
3. Ensure that the control box is easily accessible without crossing the firing line of any traps and cables cannot become tangled in any part of the mechanism.

Ensure the machine is stable on firm level ground before use. The propstand and jockey should be used to level the trailer and all wheels should be chocked before the traps are operated.

Safety fencing & guards should always be erected at an appropriate distance around the machine when it is in 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 isolate control box.
BE AWARE of the fall zone of both broken and unbroken clays and that a change in wind direction will affect this.

SPECIAL PRECAUTIONS - MULTIPLE TRAPS

ALWAYS disarm ALL machines before carrying out reloading or adjustment.
Reloading with clays should be carried out from the rear of the machines.
Be aware that when reloading any trap on this machine that the neighbouring traps must also be made safe and properly dis-armed, and that performing this procedure will cause any clay (or clay pieces) present in the trap to be thrown.
Re-arm/cock machines only when all personnel are either behind or at a safe distance.
Ensure that the machine is sited in a way that will prevent people from being struck by either the clay in flight, or broken pieces of clay being ejected sideways from the machine.
Never allow members of the public or untrained personnel to approach or touch the machine.

Think very carefully about the result that your actions will produce before proceeding.
Connecting / charging the batteries:

When fitting the batteries for the first time, ensure you are behind the machine, that the ARM/DISARM switches and control box isolator is in the OFF position and the traps are in a safe condition (either disarmed or in safe mode). For each battery, connect the red cable to the Red (+) terminal and the black cable to the Black (-) Terminal. Ensure the terminal fasteners are tight, the cables are safely positioned and the straps are secure around each group of batteries. The charger set is permanently connected to the battery installation, to charge the battery set simply connect the flying lead provided to the inlet socket and plug the other end into a suitable AC Mains outlet. The intelligent chargers monitor the battery conditions and adjust the charge rate to suit, with an automatic cut out when the batteries are fully charged. Chargers will operate on voltages from 100-240V AC. It is strongly recommended that if charging occurs outdoors that the AC outlet is protected by a suitable earth leakage device (Ground fault interrupter) to ensure the safety of all personnel involved.

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 fully-charged replacement).

Although the battery may appear to have recovered, the trap should not be used any further than necessary to make it safe as continued operation 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.

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 - 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.
Adjustment: Spring Tension

Spring adjustment is always easier if the spring roller on the main shaft is at its rearmost position, this relieves the spring of a large proportion of its tension making adjustment much easier as well as reducing wear on the spring adjustment mechanism. To achieve this, first perform the Safe Mode Procedure (see page 16) to put the machine into safe mode and then nudge forward until the throwing arm projects forward from the front of the machine. At this point stop nudging and isolate the control box. Loosen the spring adjustment 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: 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 underside 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.
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 rearm). The throwing arm should be pointing towards the front 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. Isolate the control box to remove power 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.

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 **DISARM** 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 pointing towards the front of the machine.
2. Turn the **ON/OFF** or **OFF** 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 **OFF** 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.

**Fault Finding**

It is Promatic’s policy to upgrade or modify any of its products if they are ever proved suspect. Problems, which do occur, usually revolve around the clay pigeons themselves or the variation in their sizes between the different manufacturers. Poor maintenance and cleaning or physical damage caused during transportation of the machine are the other normal causes. Items that should be treated with great care are the throwing arm, casting plate and electrical box.

The following pages offer some diagnostic procedures to help you pinpoint any problems and get your traps back up and running as quickly as possible.
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 that the Control box isolator is turned on.
   
   (d) 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

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**ALWAYS disarm the machine before carrying out loading, adjustment or maintenance.**
4. Trap fires by itself!

(a) If the trap fires by itself - first check the arm to crank timing relationship as described on page 20 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.

(b) If the machine still fires by itself - check if the relay contacts have stuck together, and if so replace. If the relay operates correctly, but the trap still fires by itself, then the roller limit switch is faulty and should be replaced.

**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 isolate the control box.

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

Loosen the locking nut as shown, adjust to desired angle, then re-tighten the nut.

Trajectory of clays are from flat to approximately 50 degrees.

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 rearm). 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 put 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 pointing towards the mainframe with the leading curve aligned with the front edge of the square bearing tube. Refer to 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=15mm.

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).
Spare Parts
For parts not listed please call Promatic or your local dealer / service agent or visit www.promatic.co.uk

Oscillation linkage Bars
Short - HM-2800  Long - HM-2810

Battery charger (Single)
E30V-2140

Coupling Head (Hitch)
T01V/TOWHCH

Drawbar support
T01V/BACB

Secondary coupling cable
T01V/BACC

50mm Towball
T02V/TOWBALL

Oscillation linkage Bars
Short - HM-2800  Long - HM-2810

Battery charger (Single)
E30V-2140

Coupling Head (Hitch)
T01V/TOWHCH

Drawbar support
T01V/BACB

Secondary coupling cable
T01V/BACC

50mm Towball
T02V/TOWBALL

Radio Handset
E24V/GRT

Clamp Bracket
T03V/STLGBRK

Propstand / Leg
T03V/ADJSTLG

Jockey Wheel
T03V/ADJW

Trailer Mudguard (Pair)
T03V/MUDGDLRG
CERTIFICATE & DECLARATION OF CONFORMITY FOR CE MARKING

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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/AWobble and Sporter Doubles DTL/ATA/Wobble

are classified within the following EU Directives:
Machinery Directive 2006/42/EC

and further conform with the following EU Harmonized Standards:
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:

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