

Globaltec Innovation Ltd

**BALL LAUNCHER**

*Your Players will get better quicker*

**INSTALLATION, OPERATION AND MAINTENANCE**

**USER AND INSTRUCTION MANUAL**

**ISSUE 3**

MACHINE

Ball Launcher

Name and Address  
of  
Manufacturer

Globaltec Innovation Ltd  
Unit 26  
Morses Lane  
Brightlingsea  
CO7 0SF

# **YOU MUST READ THE ENTIRE DOCUMENT BEFORE OPERATING BALL LAUNCHER**

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## SCOPE

### Overview of the Machine

#### **1. SCOPE**

The Ball Launcher is a quality and transportable device designed to enhance the quality and output of football training and coaching.

Using Ball Launcher you will be able to achieve over 200 good balls an hour and embrace a training density otherwise impossible to achieve manually.

The Ball Launcher can replicate deliveries found from Grass Roots up to Professional level and is suitable for the rapid and engaging development of goalkeepers and outfield players alike in team or individual settings.

Specifically, the Ball Launcher can support unparalleled development in the following scenarios:

- Set pieces
- Goalkeeper handling and saving
- Crossing and Finishing
- First touch, technique and control

If you haven't already, go to our website [www.ball-launcher.com](http://www.ball-launcher.com) and click the You Tube link for many demonstrations and examples of the Ball Launcher in action.

By using Ball Launcher, coaches and players can expertly hone techniques and be ready for real match play situations like never before.

What's more, Ball Launcher can be easily transported in a small family car between training sessions due to its compact, lightweight and quality assembly.

Here are the benefits to you as a customer of using Ball Launcher:

## 2. THE MANUFACTURER

Ball Launcher is manufactured by the company Globaltec Innovation Ltd. We are a company who pride ourselves on creating innovative, affordable and quality products for the mass markets.

## 3. WHAT BALL LAUNCHER IS DESIGNED TO ACHIEVE

Ball Launcher is designed specifically to enhance the quality and output of football training and coaching. It should be operated by adults or with adult supervision at all times.

As a company we feel we can count you as a customer success if you are able to achieve one or more of the following as a team or individual as a result of using Ball Launcher:

- Concede less goals in matches.
- Score more goals in matches.
- Be more confident, composed and in control of any regulation football size 3 – 5 using any match legal part of your body.
- Develop assured technique and match play awareness of teammates and opposition.

To enable these outcomes, Ball Launcher will provide you with a complete range of football deliveries including inswingers, outswingers, chips, dips, long and short range passes, shots, crosses and knuckleballs from 5mph to 65mph+.

**We will not accept liability for Ball Launcher being used for any other purpose and it is our upmost stipulation that it is not to be used for any other purpose.**

**Under no circumstances should you attempt to deliver anything other than footballs regulation size 3 – 5 through Ball Launcher.**

## 4. INSTRUCTION MANUAL SAFETY WARNINGS AND HEADLINE DO NOT'S

### WARNINGS

Throughout this manual these symbols & notes are used to indicate the following;



**DANGER**

Imminent danger that is likely to cause serious injury or loss of life.



**WARNING**

Safety situations that may cause serious injury or loss of life.



**CAUTION**

Safety situations that may cause problems or damage to the equipment.

**NOTE**

To draw attention to procedures which it is essential to observe for correct operation.

It is your responsibility to ensure that you **Do Not** perform the following with your Ball Launcher. We have applied the relevant safety warning under each:

- **Do Not use or launch anything other than size 3, 4 and 5 regulation footballs.**

**WARNING**

Safety situations that may cause serious injury or loss of life.

- **Do Not use the Ball Launcher as a toy, it is serious football training and coaching tool.**

**WARNING**

Safety situations that may cause serious injury or loss of life.

- **Do Not repeatedly overcharge your battery for longer than 8 hours maximum and only use the charger that comes with the Ball Launcher machine.**

**WARNING**

Safety situations that may cause serious injury or loss of life.

- **Do Not operate or allow operation without strict adult supervision below the age of 18.**

**DANGER**

Imminent danger that is likely to cause serious injury or loss of life.

- **Do Not place hands or any part of the body inside Ball Launcher head section when it is operational and the firing wheels are moving.**

**DANGER**

Imminent danger that is likely to cause serious injury or loss of life.

- **Do Not allow any individual to be present directly in front of Ball Launcher to a range of 5 metres when it is operational.**

**WARNING**

Safety situations that may cause serious injury or loss of life.

- **Do Not ignore the safety stickers on Ball Launcher and guidelines of proper installation and disassembly, use, lifting and transportation and**

maintenance within this manual. It is your obligation to read and understand before you use Ball Launcher. It is also your responsibility to ensure that those using Ball Launcher alongside, you or on your behalf are aware and understand these guidelines before any use.



**DANGER**

Imminent danger that is likely to cause serious injury or loss of life.



**CAUTION**

Safety situations that may cause problems or damage to the equipment.

- Do Not feed footballs through quicker than a 3 second time delay between each ball.



**CAUTION**

Safety situations that may cause problems or damage to the equipment.

- Do Not purposefully aim or direct footballs at any individual or object under any circumstances, unless it is part of an agreed and prepared training and coaching routine supervised by an adult.



**WARNING**

Safety situations that may cause serious injury or loss of life.

- Do Not seek to resolve any electrical, mechanical or general product fault without consulting us at [info@ball-launcher.com](mailto:info@ball-launcher.com)



**CAUTION**

Safety situations that may cause problems or damage to the equipment.

- Do Not use Ball Launcher without conducting a maintenance check at the advised frequencies.



**CAUTION**

Safety situations that may cause problems or damage to the equipment.

The safety warnings will continue to be applied throughout this manual where appropriate with detail as to why warnings should be adhered.

## 5. THE MANUFACTURERS PLATE AND CE APPROVAL AND WARRANTY

Your Ball Launcher machine will come with a manufacturers nameplate including a serial number and confirmation of CE safety standard qualification. If this important sticker is not present on your machine upon receipt, you should contact us immediately [info@ball-launcher.com](mailto:info@ball-launcher.com) .

Presence of this sticker confirms that we as a company have followed all requested legal and moral obligations to ensure your safety whilst using Ball Launcher.

Presence of this sticker also confirms that we have tested the individual performance of the Ball Launcher alongside safety prior to dispatch.

You should reference the serial number in any communication with the company regarding faulty or non-operational equipment.



With your Ball Launcher order you have a 12 month component warranty from the date of dispatch included. This means that if any components fail within this timeframe, we will gladly replace them providing that Ball Launcher has been used for the purpose intended and we believe that all instructions within the manual have been followed.

Your warranty does not include generalised wear and tear as deemed by us.

We do not accept return and refund once the Ball Launcher machine has been used.

**Any misuse or abuse of Ball Launcher that results in any parts failure will not be covered by warranty.**

Our sincere aim is to ensure that you have a working Ball Launcher at all times.

## 6. NOISE LEVEL ASSESSMENT

As part of receiving CE marking approval, your Ball Launcher machine has been independently tested for **acceptable noise levels**.

The United Kingdom Health & Safety Executive requirements for Noise are 80 dB(a) for the first Threshold limit, and 85 dB(a) for the second Threshold Action level.

We are therefore pleased that the Ball Launcher machine when Noise tested under normal operating conditions recorded 72 dB(a), which is well below the first Threshold limit.

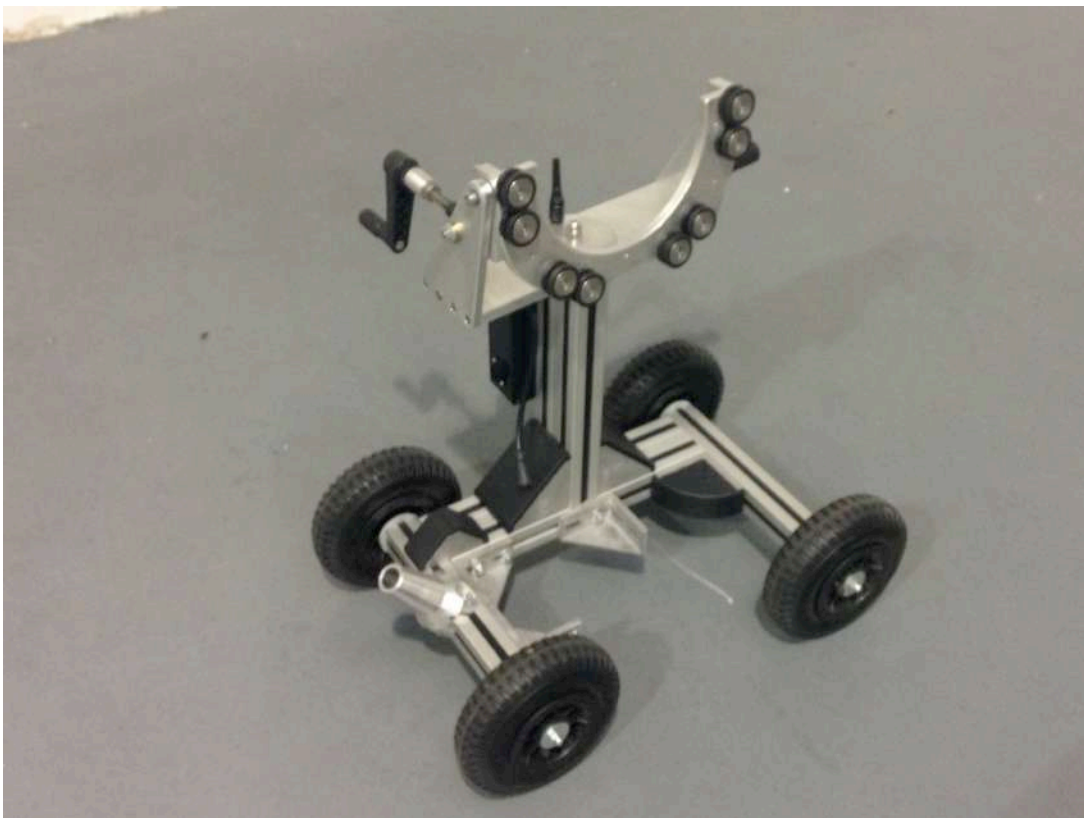
A full in depth Ball Launcher Noise report is kept on file by Globaltec Innovation Ltd should this ever be required by customers.

## **7. INSTALLATION, SET UP and DISASSEMBLY**

Your Ball Launcher will come with 6 main independent sections included.

- **A) The Trolley Frame section**
  - **B) Trolley Handle**
  - **C) Battery Box (containing battery)**
  - **D) Head section**
  - **E) Ball Feed**
  - **F) Battery Charger**
- 
- **A) The Trolley Frame section**

The Trolley Frame section has been engineered and designed to be compact, lightweight, robust, transportable and weather proof using quality materials. The shape and design of this section allows the energy forces generated to be safely dissipated upon ball delivery.





The dimensions of the Trolley Frame section are 66 cms height, 47 cms width and 66cms length.

The Trolley Frame section also includes the Ball Launcher Control Panel. This provides the function to turn the machine on and then generate speed in the two firing wheels independently, which in turn launches the ball at varying speeds and spin.

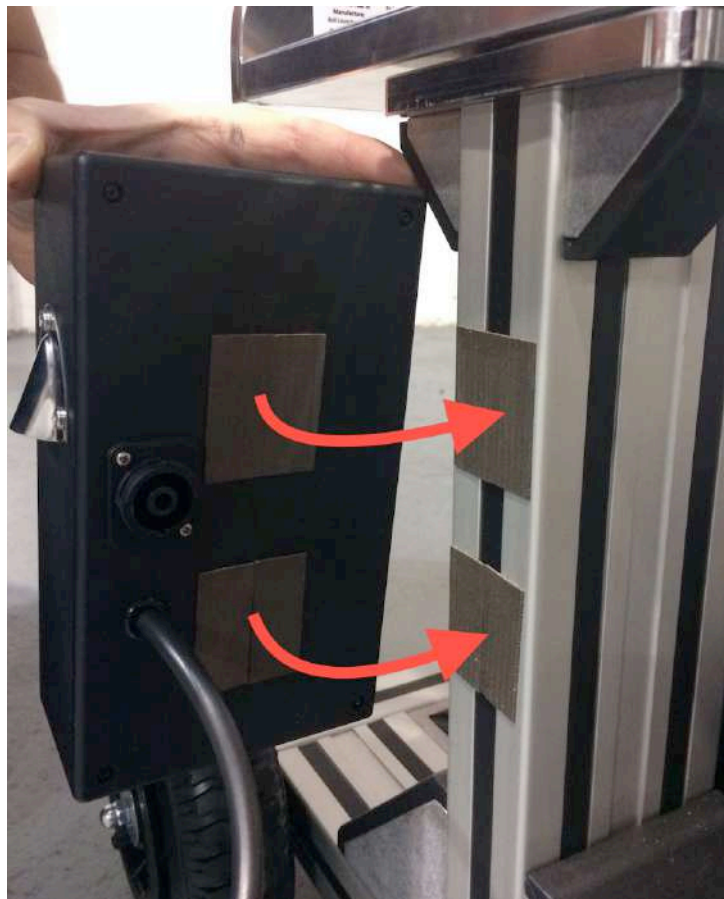
The Control Panel is secured to the Trolley Frame section using strong magnets that are placed on both the rear of the Control Panel and the Trolley Frame section. It can be detached from the Trolley Frame section if needed.

When placing and securing the Control Panel on the Trolley Frame section, it is important to line up both the magnets on the Control Panel and the Trolley Frame section accurately, otherwise the strength of the magnetism will be reduced.



**NOTE**

To draw attention to procedures which it is essential to observe for correct operation.



- **B) Trolley Handle**

The Trolley Handle fits into Trolley Frame section by gently slotting the Trolley Handle over the Trolley Handle base. Then line up the holes in the Trolley Handle

and the Trolley Handle base and insert the pin through the holes to lock into position. The ring pin is designed to remain attached to the machine so you do not lose it. Do Not try to pull this away from the machine or apply significant force to it so it is removed.

**You should never move or operate the machine without the Trolley handle fitted to the Trolley frame section successfully secured.**



**CAUTION**

Safety situations that may cause problems or damage to the equipment.

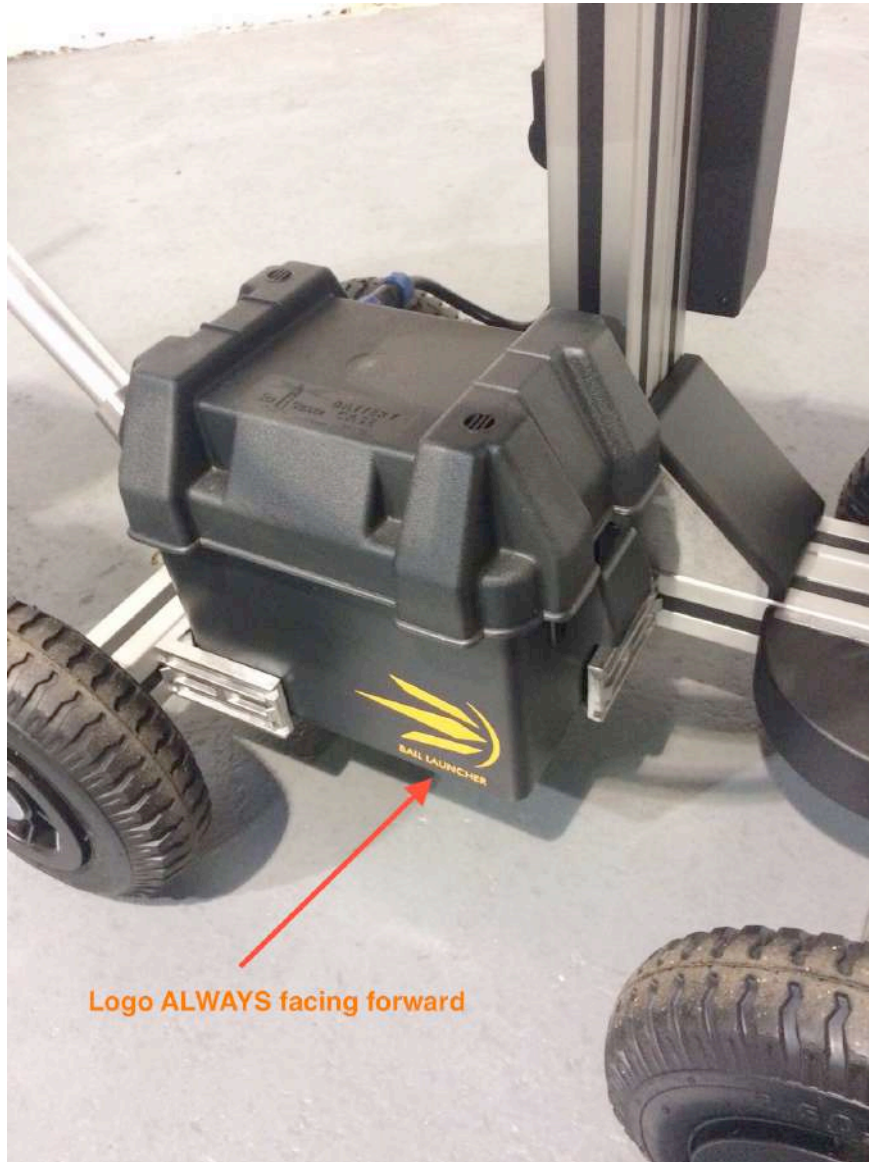


The dimensions of the Trolley handle are 92 cms height 26 cms width.

- **C) Battery Box (containing battery)**

The Battery Box contains the power output for Ball Launcher in the form of a 12 volt sealed leisure battery.

The Battery Box containing battery is placed in the holding section on the Trolley frame section with the Ball Launcher logo facing forwards in ball launching direction and the plug insert to the rear as follows:

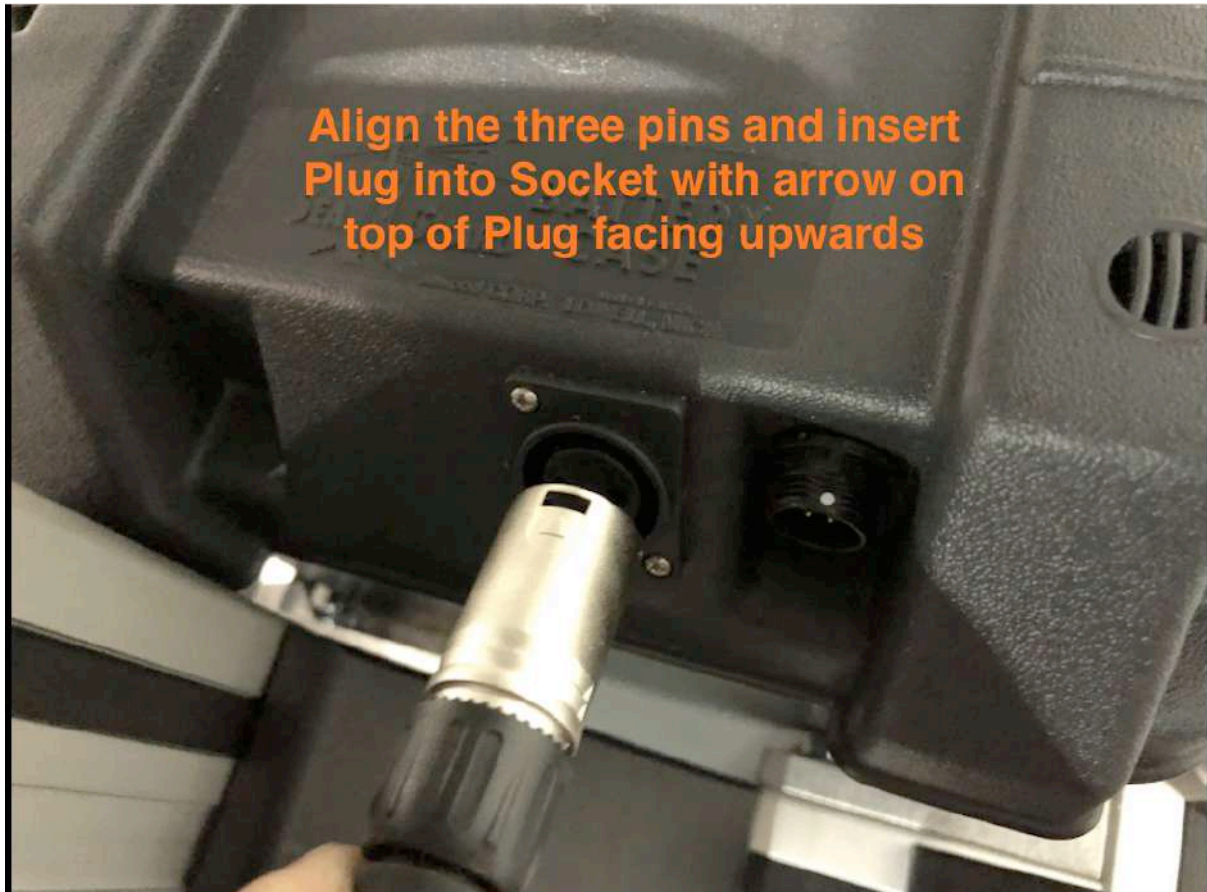


**CAUTION**  
Safety situations that may cause problems or damage to the equipment.

**You must ensure that the Battery Box is stable and fits rigidly within the holding section.**

Insert the cable extending from the back of the Control Panel into Battery Box making sure that the 3 pins align and the arrow on the top of the plug is facing upwards.

Always insert into Battery Box carefully and do not force it to avoid damage.



To remove cable on disassembly simply carefully pull the plug out.

You do not need to go inside the battery box at any time, as charging can take place externally as per section F.

**The Ball Launcher lid is sealed via two screws on each side of the Battery Box. Never operate Ball Launcher with the Battery Box lid unfitted and do not expose or submerge the battery box containing the battery in water.**



**WARNING**

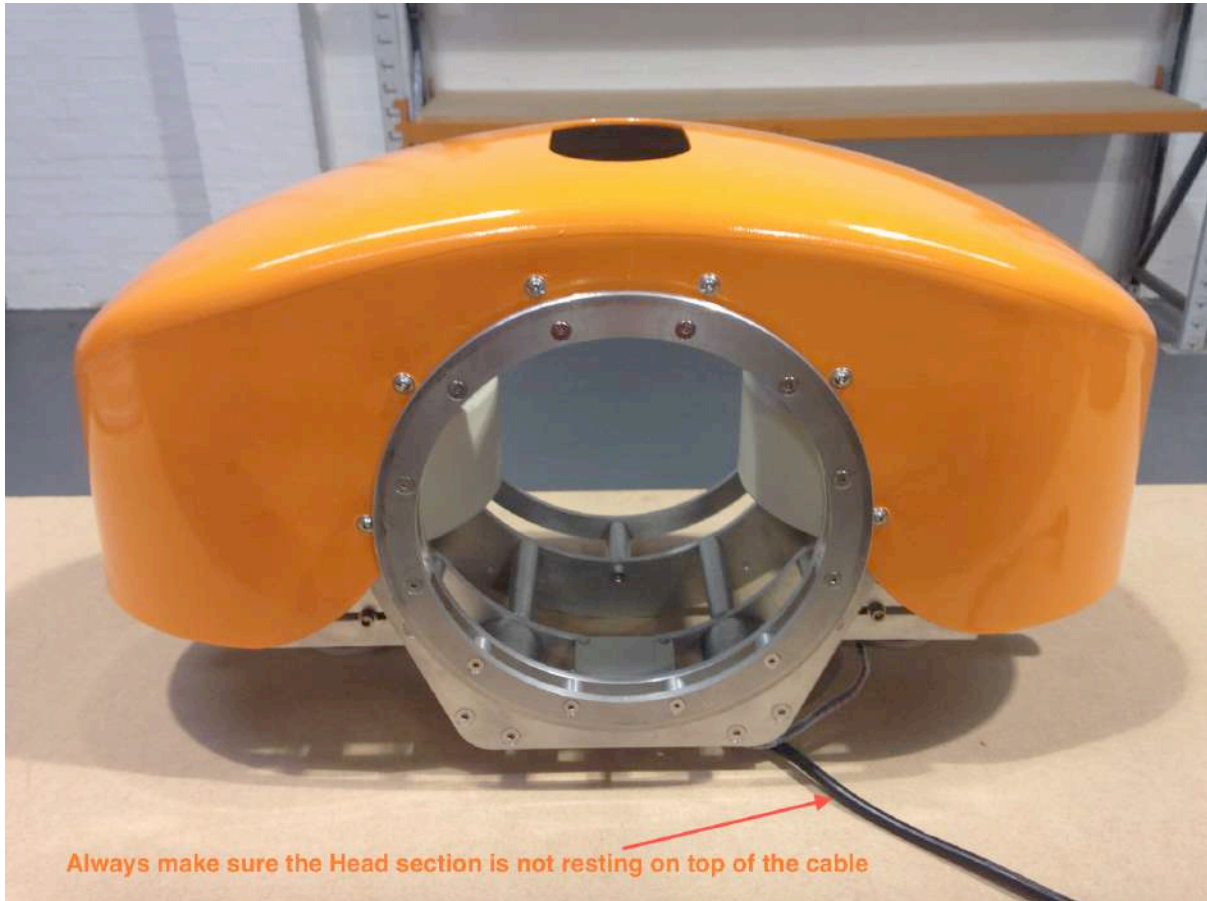
**Safety situations that may cause serious injury or loss of life.**

Store your Battery Box containing battery within indoor, dry and mild conditions.

The dimensions of the Battery Box are 21 cms height 18 cms width and 27 cms length.

- **D) Head section**

The clever engineering elements occur within and around Ball Launcher's Head section. It is has been expertly designed to be compact, lightweight, robust and reliable.



Once fitted into place on the Trolley Frame section the head can be rotated from a horizontal position to a vertical position both left and right, but not further. Alongside changing the speed of each firing wheel using the rotary dials on the Control Panel, this allows the user to create backspin, top spin, side spin and knuckle ball effect.

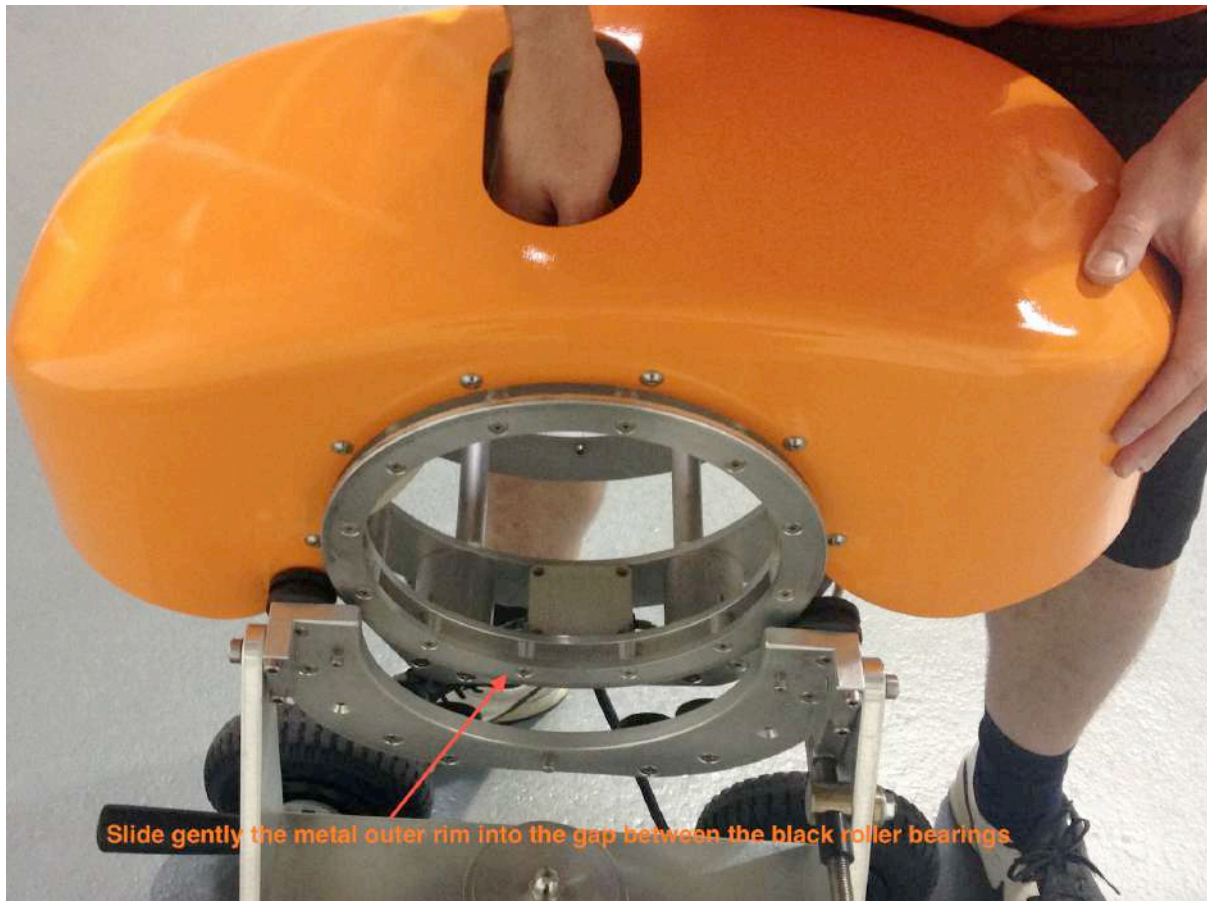
The Head section is connected to the Trolley Frame section as follows by inserting the outer rim (of the double metal rim side) of the Head section snugly between roller bearings on the Trolley Frame section. You will hear it clip and feel it fall into place to confirm that you have connected the two sections correctly. You will only be able to rotate the head from horizontal to vertical in either direction when it has been attached and connected successfully.

**Under no circumstances should you operate the machine without absolute confidence that the Head section has been connected to the Trolley Frame section successfully.**



**WARNING**

Safety situations that may cause serious injury or loss of life.



To remove the Head section from the Trolley Frame section gently lift the Head section out and upwards out of the roller bearings on the Trolley Frame section using the handle in the Head section. This should be easy to execute without considerable force.

Take care not to damage the roller bearings on the Trolley Frame section when inserting or removing the Head section. You must do this with gentle and slow movements to avoid the risk of any damage.

If you need to rest or lay the head section on any surface always do so on its side with the double ring section facing down or standing up so the motors are facing downwards. **Never rest the Head section on a surface any other way and be careful not to damage the machine.**



**CAUTION**

**Safety situations that may cause problems or damage to the equipment.**

The Head section is connected to the Control Panel by inserting the cable from the Head section into the socket on the Control Panel at the rear of the Control Panel. This will allow the Head section to draw battery power from the battery once the rest of the installation process has been completed. Be sure to align the plug with the socket correctly so it correctly slots into the socket, it will not fit otherwise.

The correct way to do this is to remove the Control Panel from its magneted position and hold with one hand firmly at the rear securing the back of the Control Panel. Then simply align and insert the plug. Once inserted resecure the Control Panel to its magneted position on the Trolley Frame section. You must use the same procedure to remove the plug. Always insert or remove carefully and with gentle force and ensure that you secure the back of the Control Panel with one hand.



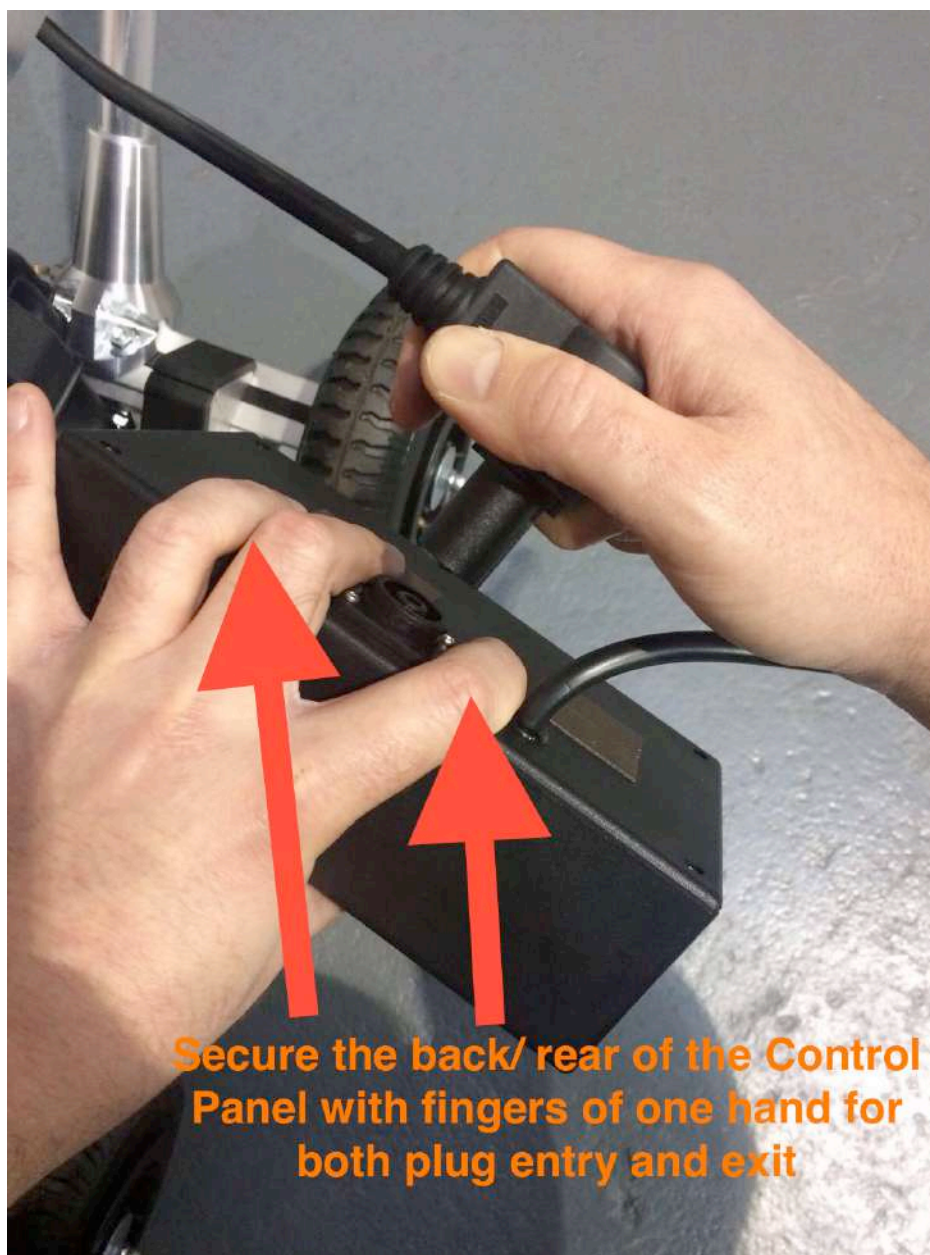
**CAUTION**

Safety situations that may cause problems or damage to the equipment.



**NOTE**

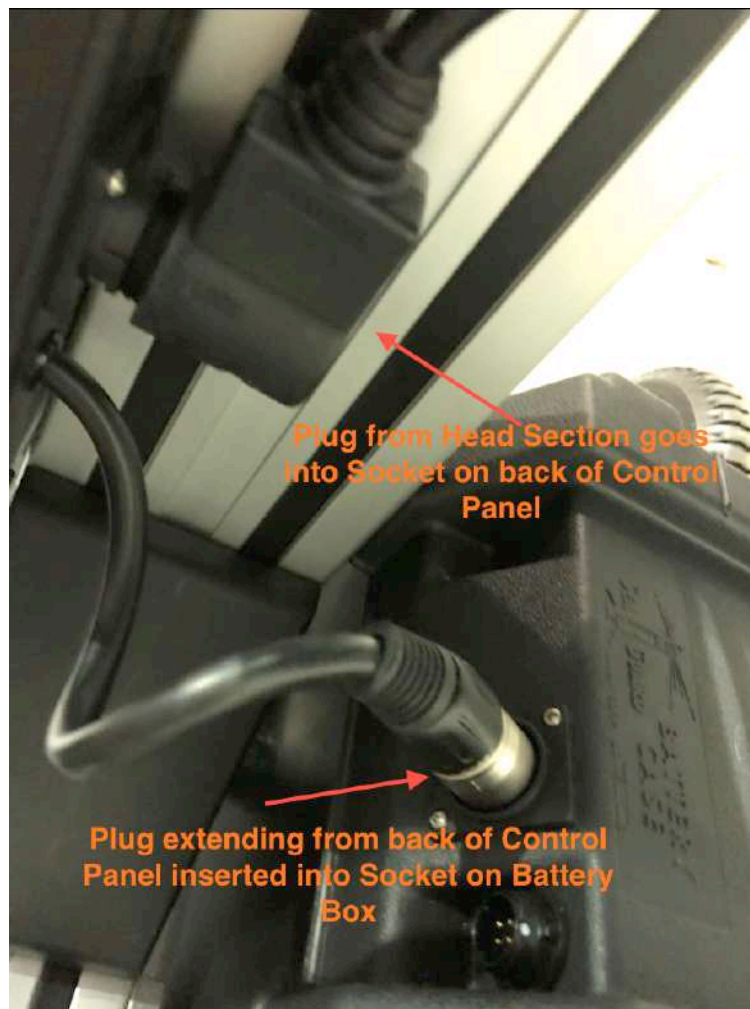
To draw attention to procedures which it is essential to observe for correct operation.



**Always ensure that the correct plugs are placed into the correct sockets.  
Remember:**

**The Plug from the Head Section goes into the Socket on the back of the Control Panel.**

**The Plug extending from the back of the Control Panel goes into the Socket on the Battery Box.**



The dimensions of the Head section are 60 cms height 26 cms width and 67 cms length.

- **E) Ball Feed**

The Ball Feed must be used with your Ball Launcher to ensure maximum consistency in football delivery. It can be used to accommodate regulation size 3,4 and 5 footballs.

The Ball Feed cannot be added to the machine or used unless the Head section has been successfully connected to the Trolley Frame section.



You cannot remove or disconnect the Head section from the Trolley Frame section during disassembly with the Ball Feed in place.

The Ball Feed has three key holes that fit over three pins located the same on the Trolley frame section. You must first push the Ball Feed over the pins using the larger part of the key hole section, then push gently downwards so the pins move to the upper smaller part of each key hole section. If the Ball Feed rests tight against the Trolley Frame section, you can take assurance that it is fitted correctly.



Take care when removing the Ball Feed from Ball Launcher, you must gently lift and then pull the Ball Feed away from the machine taking care not to damage the Ball Feed or the three pins on Trolley Frame section.

The Ball Launcher orange logo must always be nearest to you as per the image. Never insert the other way as the Ball Feed will touch the internal components and you will cause damage to both the Ball Feed and the internal components of the Head section.

**Under no circumstances should you put any part of your body through the hole that the ball is placed to launch the football when operational. The central line halfway across the Ball Feed marks the point that your fingers or any part of your body should NEVER pass when operational.**



**DANGER**  
Imminent danger that is likely to cause serious injury or loss of life.

The dimensions of the Ball Feed are 16 cms height, 17cms width and 28cms length.

- **F) Battery Charger**

If you have followed the above steps correctly each and every time before use, you have successfully installed your Ball Launcher for use.

However, you cannot use your Ball Launcher before you have read and understood the remainder of this manual and also successfully fully charged your battery. This is because your battery does not come fully charged for safety and transportation reasons.

To charge your battery you will need the Battery Box containing battery and the Battery Charger.

It is advised that you independently place the Battery Box containing battery and place this next to an AC wall plug socket. You do not need to station the whole Ball Launcher machine next to an AC wall plug socket.

Then simply plug the Charger into the AC wall plug socket and insert the end of the Charger cable into the socket at the rear of Battery box and turn on power at the AC wall plug socket to start charging.

**Note: The Charger comes with a UK plug only fitted only. International orders will need to source a plug adaptor that is suitable for the county that the machine is being used. These are widely available.**



Typically the battery will take up to 4 hours to charge to 95% and will go onto a slower safety charge between 4 and 8 hours. It is fine to use the battery after 4 hours charge. Once charged, you will then be in a position to place The Battery Box in the holding section on the Trolley Frame section.

- **Do Not repeatedly overcharge your battery for longer than 8 hours and only use the charger that comes with the Ball Launcher machine.**



**WARNING**

Safety situations that may cause serious injury or loss of life.

You may need to charge your battery 1 – 3 times from flat to full capacity for it to gain its full working capacity. This is standard industry practice with new batteries.

Store your Charger within indoor, dry and mild conditions.

If you take care of your battery and charger, it will take care of you and your Ball Launcher.

**Summary of installation, set up and disassembly:**

**It is vital that you not only understand, but you always undertake the installation instructions as advised and in the correct order. Failure to do so could not only result in serious injury, but in extreme cases death.**

Always treat your Ball Launcher with care and sensitivity. It is a robust machine, but there is scope to break it or its components if you do not care for its components or sections. We will not take responsibility for general wear and tear caused by the customer.

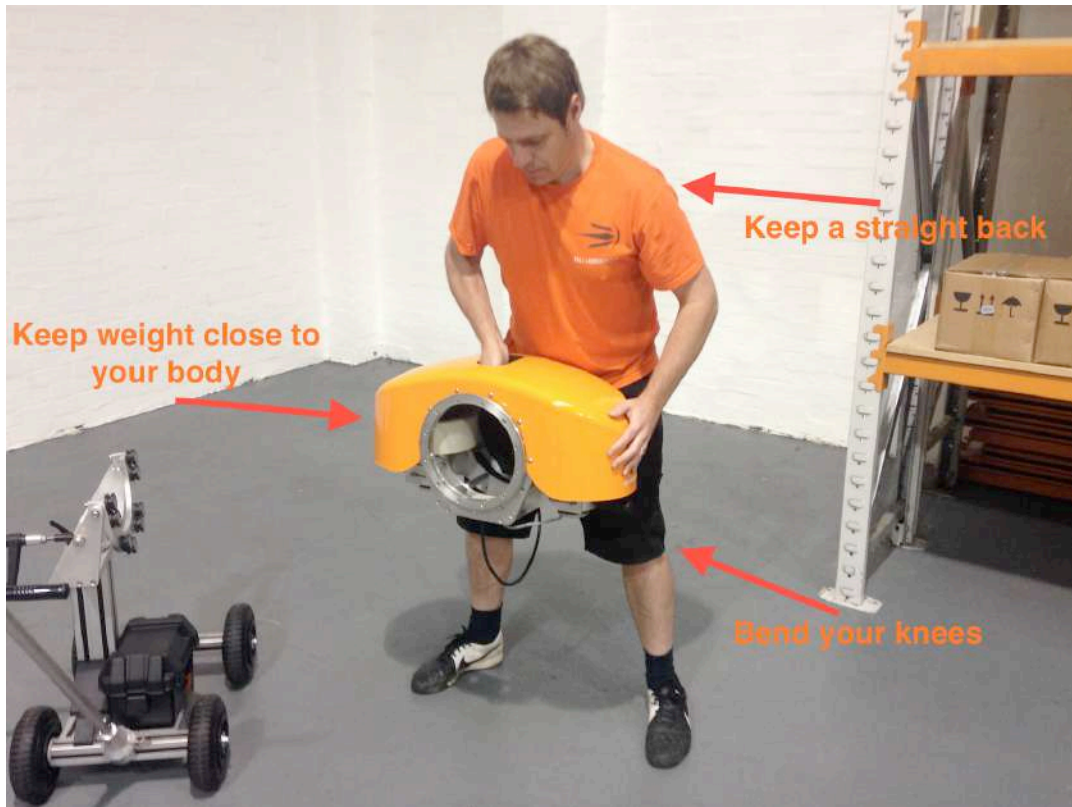
Do not attempt to operate or use Ball Launcher following installation until you have successfully read and understood the entire instruction manual.

## **8. LIFTING AND MANOEUVRING BALL LAUNCHER**

Ball Launcher has been designed so it is as easy as possible to lift and manoeuvre if you follow the correct steps and guidelines. There are important Do's and Don'ts to understand and apply:

**Do's:**

- When lifting, keep the weight of your lift close to you body by bending your arms.
- When lifting, always bend your knees and keep a straight back.



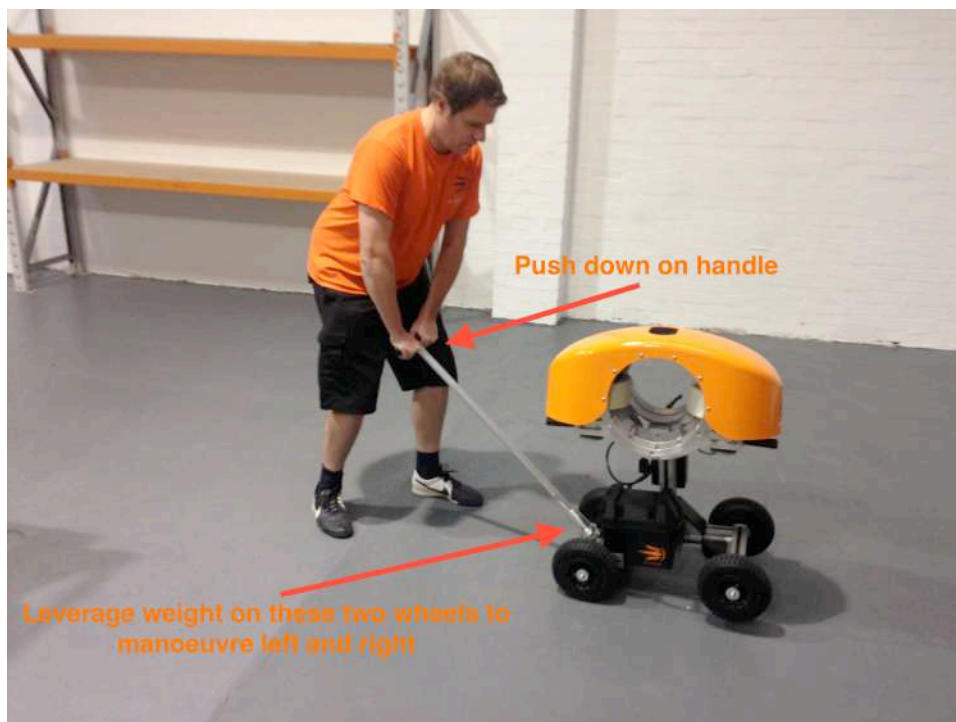
- Always lift and carry the sections of Ball Launcher independently.
- On the Head section, use the available hand hole and visible metal bar to grip and lift.



- On the Trolley Frame section grip using both hands underneath.



- Always ask for help if you feel any section is too heavy to lift independently.
- To steer Ball Launcher use the Trolley Handle to apply weight and manoeuvre like you would using a lawnmower for example. The wheels of Ball Launcher do not independently steer like on a go-kart. This is to maximise safety and stability.



- Read the following lifting guidelines as advised by the UK NHS

<http://www.nhs.uk/livewell/workplacehealth/pages/safe-lifting-tips.aspx>

### Don'ts:

- Do not ever attempt to lift the Ball Launcher machine as a whole fully assembled.
- Do not lift or manoeuvre Ball Launcher if you are experiencing any musculoskeletal pain, ask for help.
- Do not rush when mobilising or manoeuvring Ball Launcher. Take the appropriate time and effort.

Failure to comply with the above guidelines could result in:



#### **WARNING**

Safety situations that may cause serious injury or loss of life.



#### **CAUTION**

Safety situations that may cause problems or damage to the equipment.

## 9. VEHICLE TRANSPORTATION

Ball Launcher has been designed compactly so it is possible to fit into a small family car for transportation between training sessions and locations.

We are able to offer broad important guidelines for you to understand and acknowledge, but we cannot take responsibility for the safe packing into a vehicle and transportation of Ball Launcher, as there are many car makes and models of different shapes, sizes and capacities. This will be your responsibility as the customer, alongside any additional possible insurance requirements.

- We have found that the ideal place to store the Ball Launcher in a car is fully assembled (without the Trolley handle inserted) and in an upright secured position in the boot section of the vehicle and clearly separate from any passengers.
- If this is not possible, we have also transported it by breaking in down into smaller sections and securing each section firmly.
- If you place the Head section in a different location within the vehicle to the Trolley Frame section, never rest the Head section in a position **other than** i) on its side with the double ring section facing down or ii) upright with the motors facing downwards. Do not crush any cables under the Head section.
- We advise you strongly that Ball Launcher and all independent sections of it are secured firmly in position so it cannot move under transportation in any way shape or form.

- We advise you strongly that the Ball Launcher or any parts of it should not be placed in the same car section as any travelling passengers i.e. front or back seats.
- When lifting sections of Ball Launcher into a vehicle, it is imperative that you lift safely as per section 7 of this document.
- Always lift Ball Launcher sections independently and never attempt to lift more than one section at a time.
- Always take into account that Ball Launcher fully assembled is a heavy (over half the weight of the average male) and solid item made from strong materials that may cause damage to the vehicle or passengers if it is allowed to move.
- Always plan the vehicle placement of Ball Launcher. For example, always think safety first and think is that position safe and secure in the event of an accident. If you are not sure, don't do it.
- Tuck any hanging power leads safely inside the Ball Launcher or away from danger during transportation.
- We will not take responsibility for any injuries caused in packing or removing Ball Launcher in transportation or accidents or damage during transportation. As the customer you undertake this at your own risk.
- Should you allow anybody else to transport the Ball Launcher, and at your own risk, it is your responsibility to inform these parties in full of these guidelines.

The below warnings apply to all of the above points:



**WARNING**

Safety situations that may cause serious injury or loss of life.



**CAUTION**

Safety situations that may cause problems or damage to the equipment.



**NOTE** To draw attention to procedures which it is essential to observe for correct operation.

## **10. OPERATING BALL LAUNCHER AND 'GETTING THE BEST' OUT OF YOUR MACHINE**

If you have read sections 1 – 8, you are now ready to learn how to use your Ball Launcher in action and effectively.

We want you to get the very best out of your machine, for the longest lifespan possible, please read and understand all of the below points.

### **Turning on and off:**

Once you have installed correctly and set up your Ball Launcher including charging the battery, you can turn it on to initiate power. To do this, press the switch in the centre of the Control Panel.

To turn the Ball Launcher off simply press the switch to the off position. Never leave Ball Launcher on when not in use and in the event of injury turn power off immediately.

You should always unplug the cable that enters the Battery Box overnight or if the machine is being left for extended periods.

When the battery level indicator light comes on below after you press the switch to the on position, this is confirmation that your Ball Launcher is successfully gaining battery power.

### **Reading Battery level:**

The meter on the top of your Control Panel allows you to view how much battery charge is remaining on your battery.



To work this correctly you must plug in all plugs on the machine and turn the switch on the front of the Control Panel to ON. Both Left Wheel and Right Wheel dials must be set at 0 MPH to get a true and accurate reading of how much battery power it remaining.

The meter shows you the level of battery remaining using a scale where green is fully charged, amber some charge and red means you have lower battery charge remaining.

### **Safe and correct Ball Launching:**

**You must at all times feed footballs into Ball Launcher for delivery properly and safely.** It is vital that you follow our guidelines, failure to do so may result in the following:



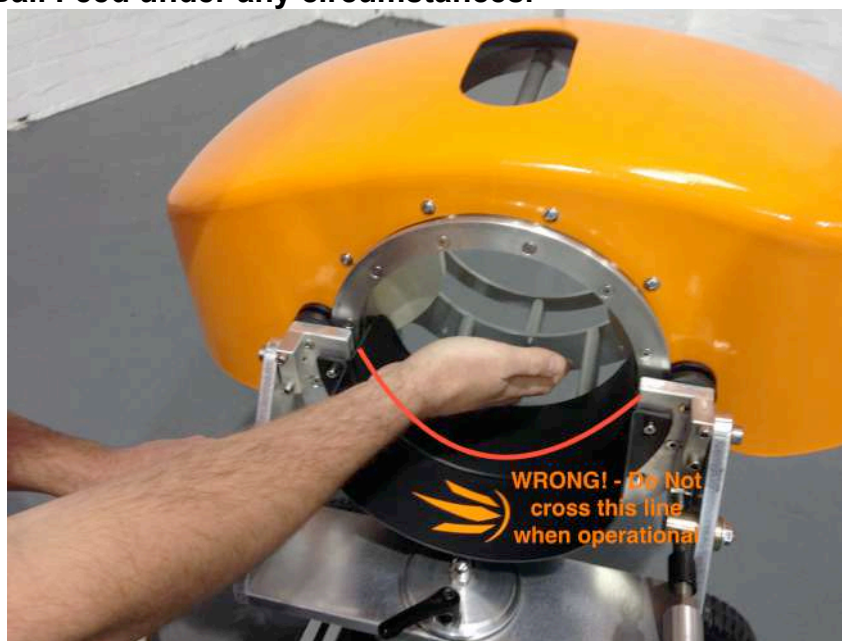


**DANGER**  
Imminent danger that is likely to cause serious injury or loss of life.

The correct technique is to gently and slowly push the football into the Ball Launcher using one centrally placed hand directly behind the football.



Your hands or any part of your body should never cross the middle section line of the Ball Feed under any circumstances.



When in operation, inside the Head section of Ball Launcher is a distinct danger zone due to the firing wheels being capable to spin in excess of 3300 RPM. **You must take great care that no part of your body, or anyone else present enters inside the Head section or touches the firing wheels when the machine is operational.**



**DANGER**  
Imminent danger that is likely to cause serious injury or loss of life.

When feeding a football into Ball Launcher, you do not need to force the football through or apply any additional movement to enhance ball delivery performance. The machine does this work for you through correct application of its speed settings and Head section position.

This is your responsibility at all times. If you are an adult supervising children in a training or coaching session, this is especially important. We recommend having a safe zone of 5 metres around the Ball Launcher that children do not enter without confirmed adult supervision.

We have provided safety covers on the underside of the Ball Launcher. This prevents fingers entering and touching the moving firing wheels from underneath when the machine is operational. It is essential that you keep fingers and body parts away from any moving parts at all times.



## Using Ball Launcher controls effectively to deliver footballs:

The two rotary dials on the front of the Control Panel are clearly marked left wheel and right wheel.

These two rotary dials control the independent speed of each firing wheel that is located within the Head section of Ball Launcher. The speed of each firing wheel influences the speed and spin at which the football will exit the machine when placed into the machine.

Each firing wheel has the capability to spin up to 80mph by turning the dial and marker on the dial to the desired speed setting. The Left Wheel Dial controls the Left Firing Wheel and the Right Wheel Dial controls the Right Firing Wheel.

For example, if both the Left and Right firing wheel speeds are set to 40mph, the ball will exit the machine in a straight line at 40mph. The same applies if firing wheels are set the same at any speed.



CURL, if the Head section of the Ball Launcher is placed in a horizontal position and the right wheel is placed on 60mph and the left wheel at 20mph, the football will exit the machine and curl to the left. The opposite effect will occur if the left firing wheel is placed on 60mph and the right wheel on 20mph and the football will curl to the right.

For guidance on how to perform each of the different ball deliveries with the Ball Launcher please see the video zone on our website.

**You should never operate Ball Launcher at maximum speed (both dials placed on maximum speed of 80mph) for periods longer than one hour at a time without taking a quick break for at least five minutes, ensuring the machine is turned off during this break. Not doing so may compromise your safety or risk damage to the equipment through overheating.**



**WARNING**

**Safety situations that may cause serious injury or loss of life.**



**CAUTION**

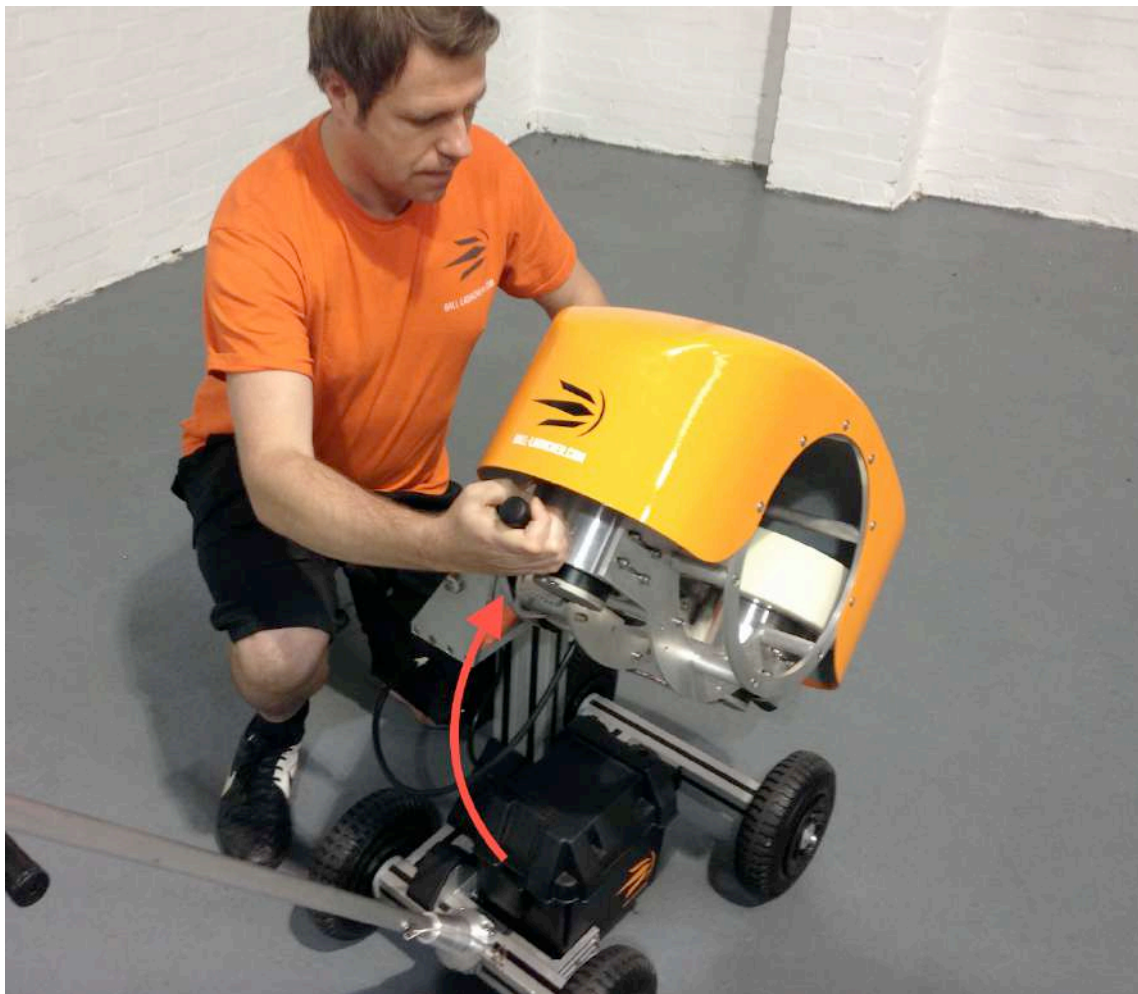
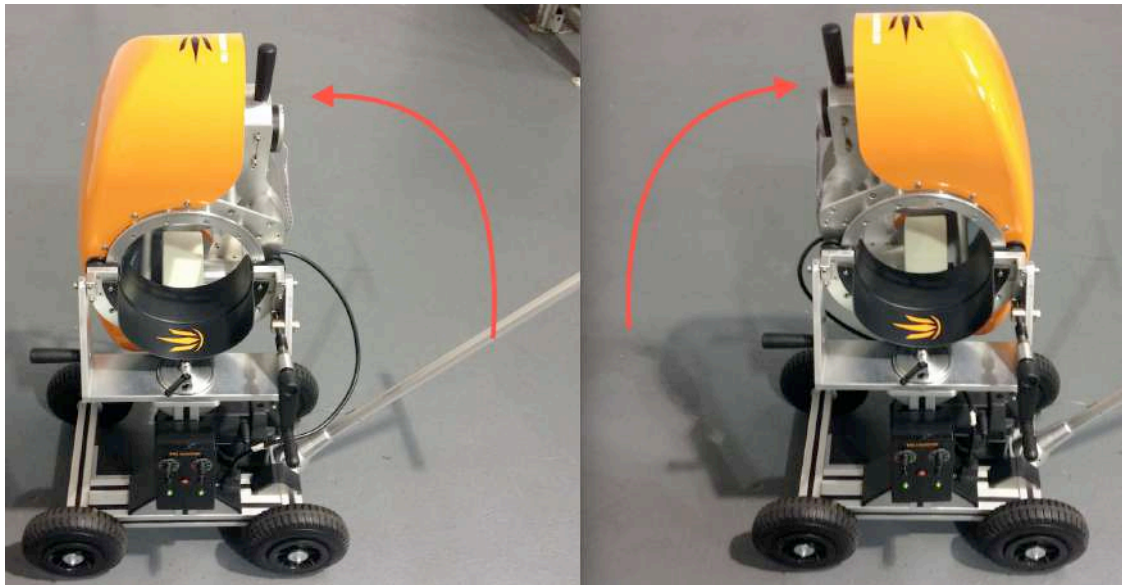
**Safety situations that may cause problems or damage to the equipment.**

For best practice we also recommend that you turn off the Ball Launcher by using the central switch when you are physically moving it between training and coaching positions for delivery or discussing coaching. This will help to prolong the charge of your battery in each session and the long term lifespan of your machine electronics.

It is possible to adjust the dials on your Control Panel by gently pulling and removing the black dial and placing it back on in the position you require. When you place the black dial back on you must make sure that the metal dial underneath is turned as far as possible to the left so the speed is at 0mph. Then you can place the black dial back on also placed at 0mph so they match.



You can **rotate the Head section** of the machine left or right to a vertical position using the side handles pictured, you will be able to create top spin or back spin by increasing the speed of either wheel using the rotary dials on the Control Panel.



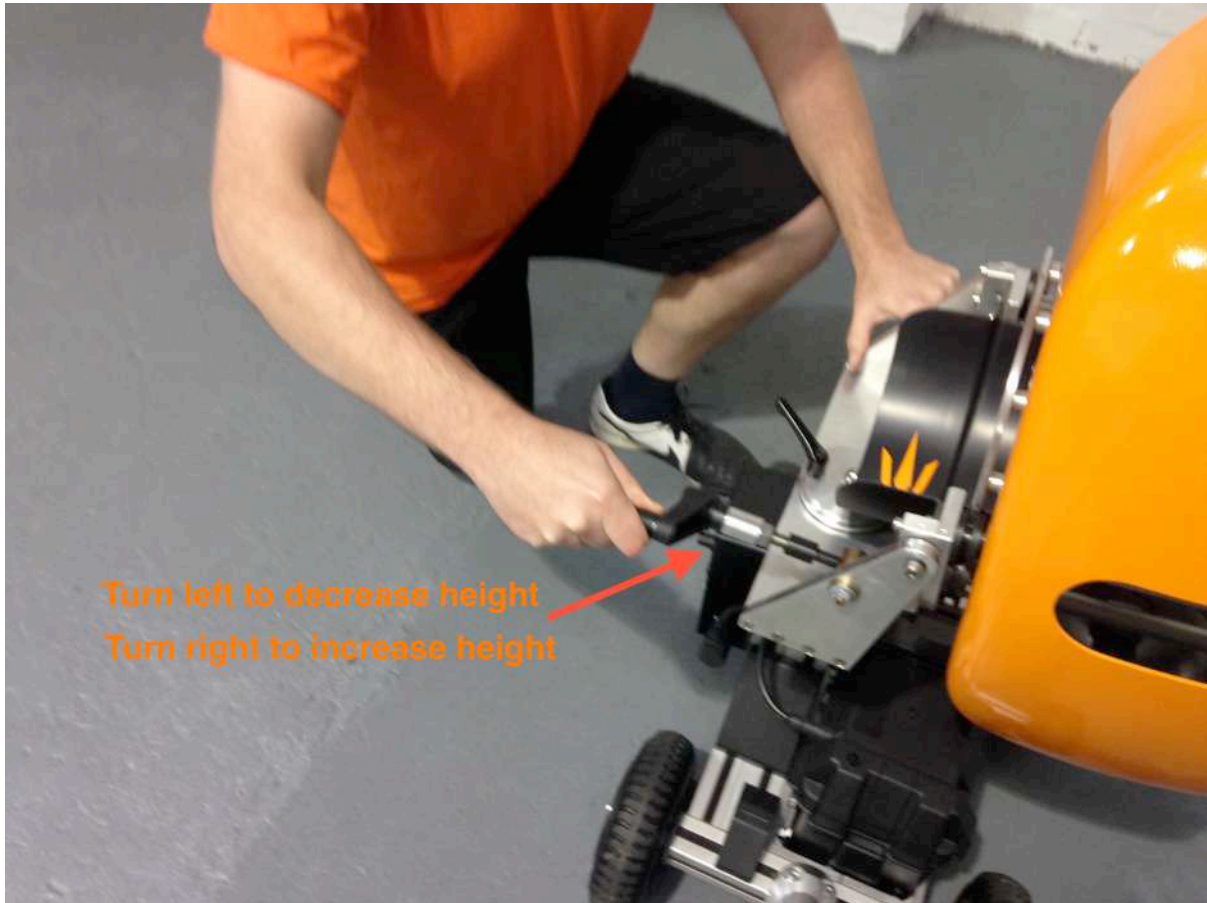
It is perfectly safe to rotate the Head section when operational or move any other of the handles when operational. This is why Ball Launcher can rapidly replicate many different deliveries from grass roots to professional level in quick succession.

You can now begin to learn that by a) changing the speed of each firing wheel using the rotary dials on the Control Panel and b) by rotating the Head section of the Ball Launcher at any angle between horizontal and vertical and c) changing the elevation and direction of Ball Launcher you can create all manner of deliveries from Grass Roots up to Professional level including inswingers, outswingers, chips, dips, passes, shots, crosses and knuckleballs from 5mph to 80mph.



**The Elevation handle and changing ball delivery height:**

The handle on the right hand side of the Trolley Frame section is used to control the ball delivery height.



By turning this handle clockwise, you will increase the ball delivery height and can do so up to a maximum of +45 degrees. **Do not exceed this as you risk damaging the machine or compromising your safety.**

By turning this handle anti clockwise, you will decrease the ball delivery height and can do so to a minimum of -10 degrees. **Do not exceed this as you risk damaging the machine or compromising your safety.**



**WARNING**

Safety situations that may cause serious injury or loss of life.



**CAUTION**

Safety situations that may cause problems or damage to the equipment.

### **The push button swivel handle and changing ball delivery left to right:**

The push button swivel handle at the centre of the Trolley Frame section allows you to tighten and loosen so you can change the direction the Head section is facing from left to right by a maximum of 30 degrees each way. We have named the left to right motion swivel. To turn the handle you must push the button and you will feel it tighten as you turn it. **Never over turn or force the handle in either direction as you will damage it.**

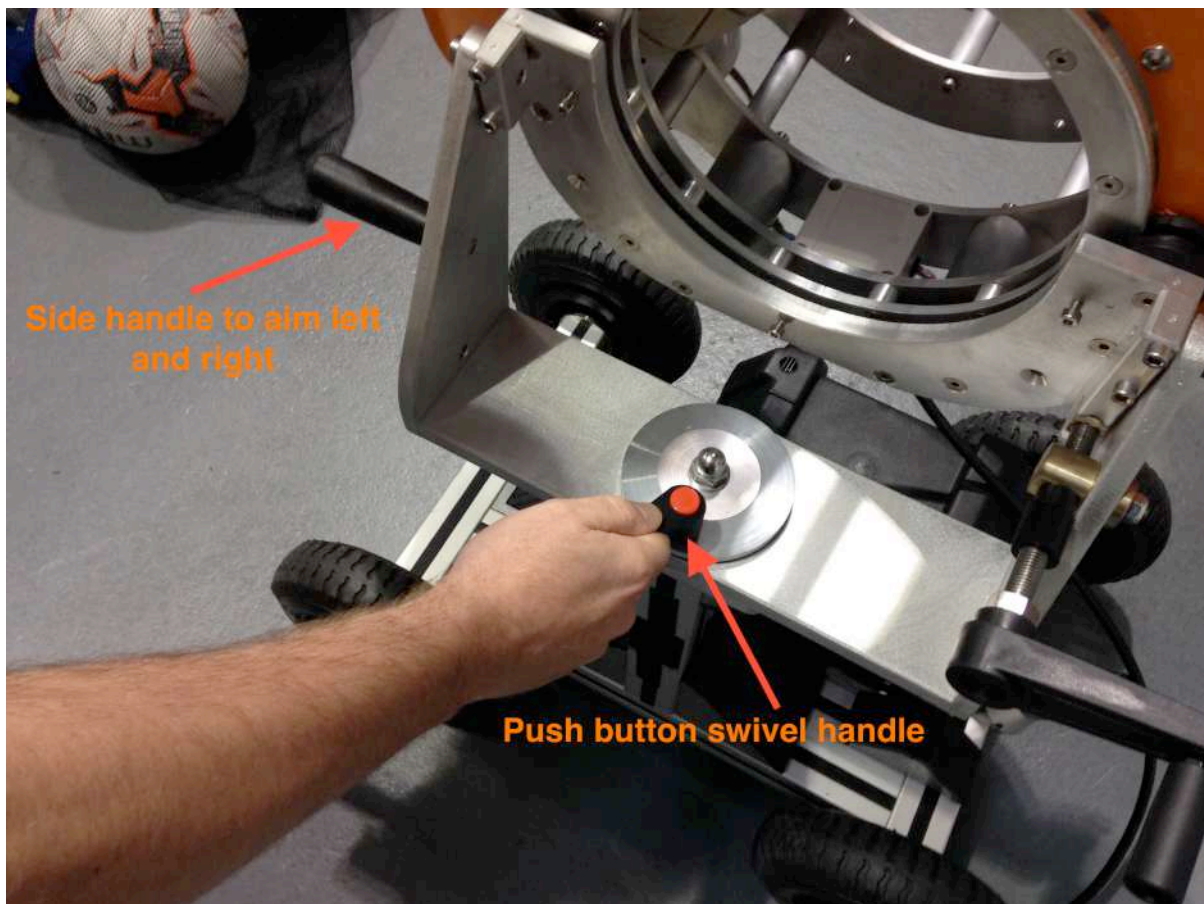


#### CAUTION

Safety situations that may cause problems or damage to the equipment.

If you are not using Ball Launcher or it is in transportation we recommend that you tighten this handle to keep the machine rigid. **When using Ball Launcher we recommend that you slightly untighten the handle and leave it slightly untightened until you have finished using the machine.**

When the push button swivel handle is untightened you are able to turn the Head section of Ball Launcher using the handle on the side of the Trolley frame section. You can turn and aim the machine a maximum of 30 degrees left and 30 degrees right. **Do not exceed this as you risk damaging the machine or causing injury.**



One of the main benefits of Ball Launcher is that you can use the functions of Head section rotation, elevation and swivel in connection with one another by quickly amending any of them to achieve the desired delivery.

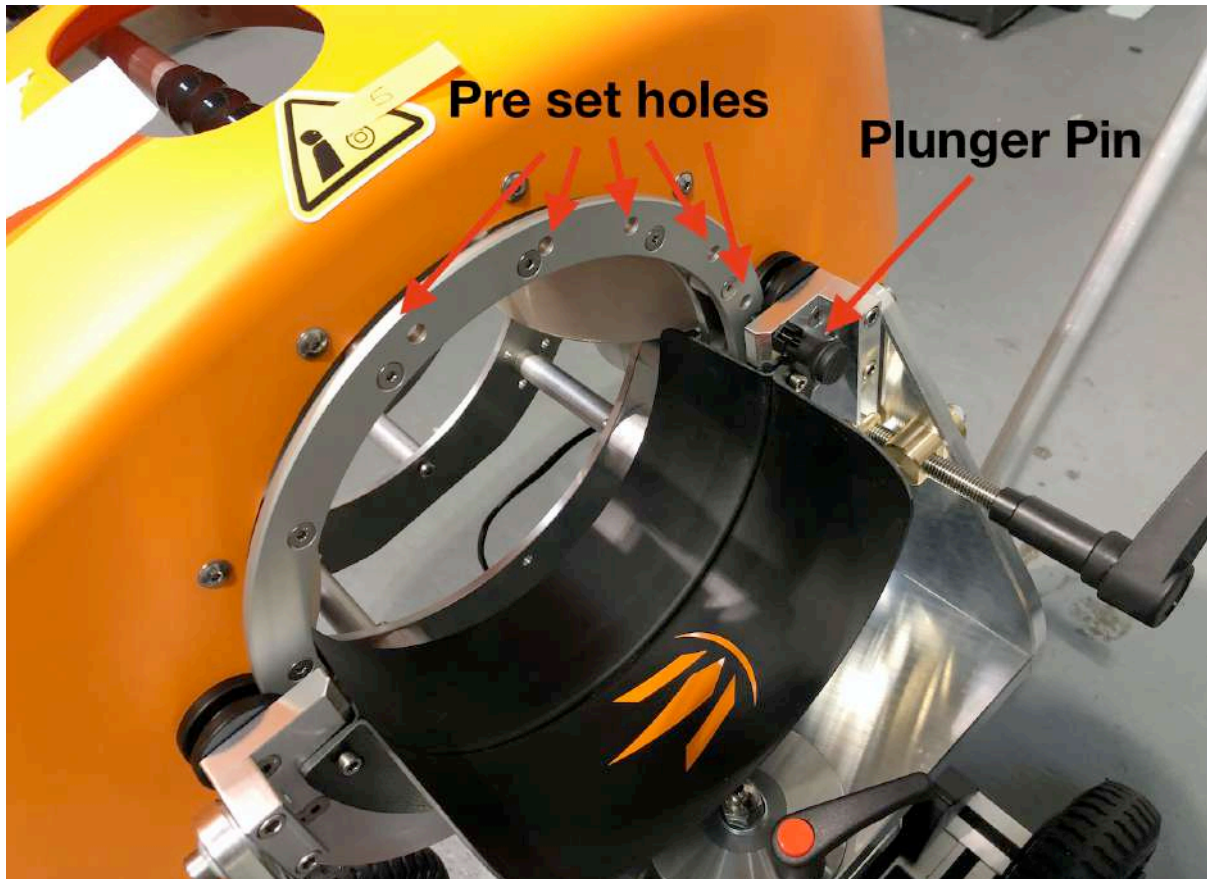
Getting the best out of your machine will take some limited practice and we have compared it to learning to ride a bike or driving a car. If you follow our guidelines and are prepared to practice, we believe it is possible to start replicating football deliveries from grass roots up to professional level in as little as two 1 hour sessions of consistent delivery.



### **Locking the Head section into your chosen pre set delivery angle:**

You can lock the Head section into 7 pre-set angled positions using a Plunger Pin and pre set holes. This will help you when you want to use the same type of delivery for each Ball Launcher session time after time.

In basic terms this means that you can rotate the Head section and fix it into different positions ranging from horizontal to vertical rather than you needing to remember the position each time.



Below is the Plunger Pin in a resting fixed 'out' position. **You can only rotate the Head section when the Plunger Pin is in this 'out' position.**



**Below is the Plunger Pin in a fixed 'in' position where you can see that the Pin of the Plunger is inserted into the hole of the metal ring behind therefore fixing it into position.**



**Please note that you must never try and remove the Head section from the machine when the Plunger Pin is in this position. It is locked into position and therefore you will not be able to remove it without putting the Plunger Pin into the fixed 'out' position.**

The below picture shows how to operate the Plunger Pin by simply pulling it back slightly to release it. To fix it in the 'out' position you must turn it slightly so it rests in the 'out' position.



#### **Wet or adverse conditions:**

It is advisable that in wet weather conditions that the footballs are wiped dry prior to entering into the machine in order to achieve performance. We have supplied one microfibre towel to support you with this, you may wish to purchase more. If you do choose to use Ball Launcher in these circumstances, we do not advise using the machine in heavy rainfall.

We have conducted suitable testing in the wet to assure no water leakage or saturation of electrical components will occur.

**Under no circumstances should you use Ball Launcher during a thunderstorm or if there is risk of lightning.** Ball Launcher is largely metal in its structure and carries the risk of drawing atmospheric electrical energy.



**DANGER**  
Imminent danger that is likely to cause serious injury or loss of life.

Don't push, pull or drag the machines independent parts across rough surfaces. You will damage it and wear and tear is your responsibility, not ours.

Having been supplied and read this instruction manual. It is your responsibility to contact us if you are unhappy with any parts of your machine or the complete instructions to use it within 2 weeks of the receipt of your Ball Launcher at [info@ball-launcher.com](mailto:info@ball-launcher.com)

## Static charge:

Your Ball Launcher machine comes with a small induction lead fitted. In the unlikely event that you receive a static shock or charge from the machine in certain extremely sunny/ hot weather conditions or synthetic pitch surfaces this lead will prevent it from happening.



To operate, when in use and power is on move the induction lead to a position where the end of the lead is touching the ground and stays in contact with the ground. This has the effect of earthing any static charge generated by the machine and releasing it.

**When not in use and power off firmly tuck the induction lead under the machine so it does not drag along the ground.**

## Quality and inflation of footballs:

Like many high performance items, you cannot expect the best and most consistent performance if you are operating under inconsistent conditions.

It is important that all footballs used are consistently inflated to maximise consistency. Do not over inflate or under inflate balls, regulation inflation levels suit perfectly.

Ball Launcher will work with all regulation sized footballs. However, if you choose to operate with a £5 cheaper synthetic football, you can expect a similar low performance as you would if you were kicking with these footballs.

Personally, we have found that there is no need to invest huge amounts in £80 - £100 footballs. There are many footballs on the market that represent excellent value for money and produce excellent results, especially those that have an inbuilt subtle nodule system such as the following that are intended to maximise grip:

- Mitre Ultimatch Hyperseam football.
- Mitre EFL Delta replica football.
- Nike Strike Premier League football.

Our recommendation is to avoid footballs with a high gloss synthetic coated finish in order to maximise grip.

Please be aware that we have found in rare instances that certain expensive balls, such as the Nike Ordem Premier League match football, are particularly sensitive to friction with the surface of these balls being scratched whilst using Ball Launcher.

### **Sand based pitches:**

We do not support the continued use of Ball Launcher on sand based astro turf pitches. These type of pitches were fairly common place in the 1990's when astro turf solutions first became popular. However, not only from a playing perspective but also a Ball Launcher perspective, they are now often frowned upon for football training and coaching.

These sand based pitches have the potential to damage the internal components of Ball Launcher, with the finer grains of sands seeping into mechanisms that will hinder performance or damage components over time.



#### **CAUTION**

**Safety situations that may cause problems or damage to the equipment.**

## **11. MAINTENANCE REQUIREMENTS**

Overall Ball Launcher is a low maintenance high performance machine. However, for safety and to maximise extended lifetime, we offer guidelines to ensure the maintenance of your Ball Launcher at the advised frequencies. This is your responsibility to undertake.

### **Vinyl Wrapped Hood:**

Some of our designs utilise vinyl wrapping technology to cover the Hood Section of your machine. If you have a vinyl wrapped Ball Launcher hood be careful not to scratch or damage the surface on sharp edges or corners as it is a more sensitive material than plastic. Wear and tear Damage to this item is not covered in your warranty.

### **Remove rubber fragments and particles:**

Frequency = after every use recommended

Time taken = 5 minutes

Tools or materials required = soft towel

The rubber firing wheels are made from the highest quality rubber and are designed to be soft to maximise grip on the football without damaging it. To this end, they are engineered to shed some rubber particles on every use to keep the surface fresh. You will notice these collect on the Ball Launcher surfaces, external and internal components. We recommend that you wipe these clean **with the machine turned off** using the towel after every use of the Ball Launcher including the inner surfaces and firing wheels within the Head section.

**Plastic head cover flat dome head bolts:**

Frequency = after 6 months of collective use

Time taken = 10 minutes

Tools or materials required = Allen key size 3mm

The plastic head cover is affixed to the Head section of Ball Launcher via eight screw holes and flat dome head bolts.



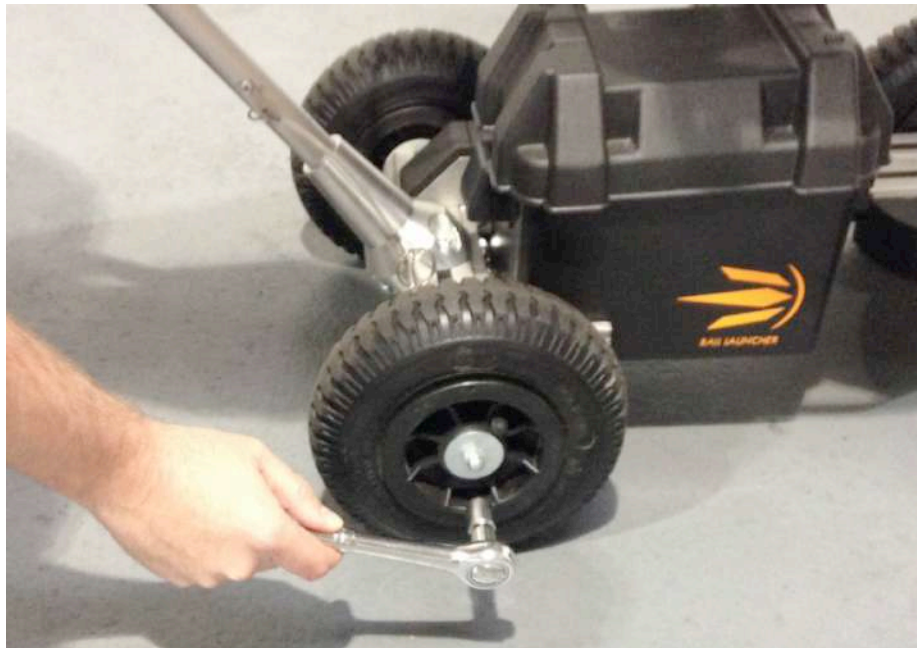
**Tightening trolley wheel bolts:**

Frequency = after 6 months of collective use.

Time taken = 3 minutes

Tools or materials required = 13 mm socket set or ring spanner

Ball Launcher has four trolley wheels that are affixed to the frame via bolt studs. These are affixed firmly but should be tight at all times. You should check that these are tight after every 6 months of collective use.



**CAUTION**

Safety situations that may cause problems or damage to the equipment.

**Moving the location of firing wheels:**

Frequency = after 18 - 24 months of collective use

Time taken = 15 minutes

Tools or materials required = 4mm allen key

The firing wheels are designed to release rubber particles over time to maintain the perfect grip and performance.

The distance between the firing wheels can be adjusted, either being enlarged or minimised. With the rubber firing wheels releasing rubber particles over time the firing wheels will reduce in size meaning that you may need to reduce the distance equally on each side to match the decrease in size.

For example, if your firing wheels have reduced in size by 3mm on each firing wheel in 18 months, you may want to decrease the gap between the firing wheels by 3mm on each firing wheel.

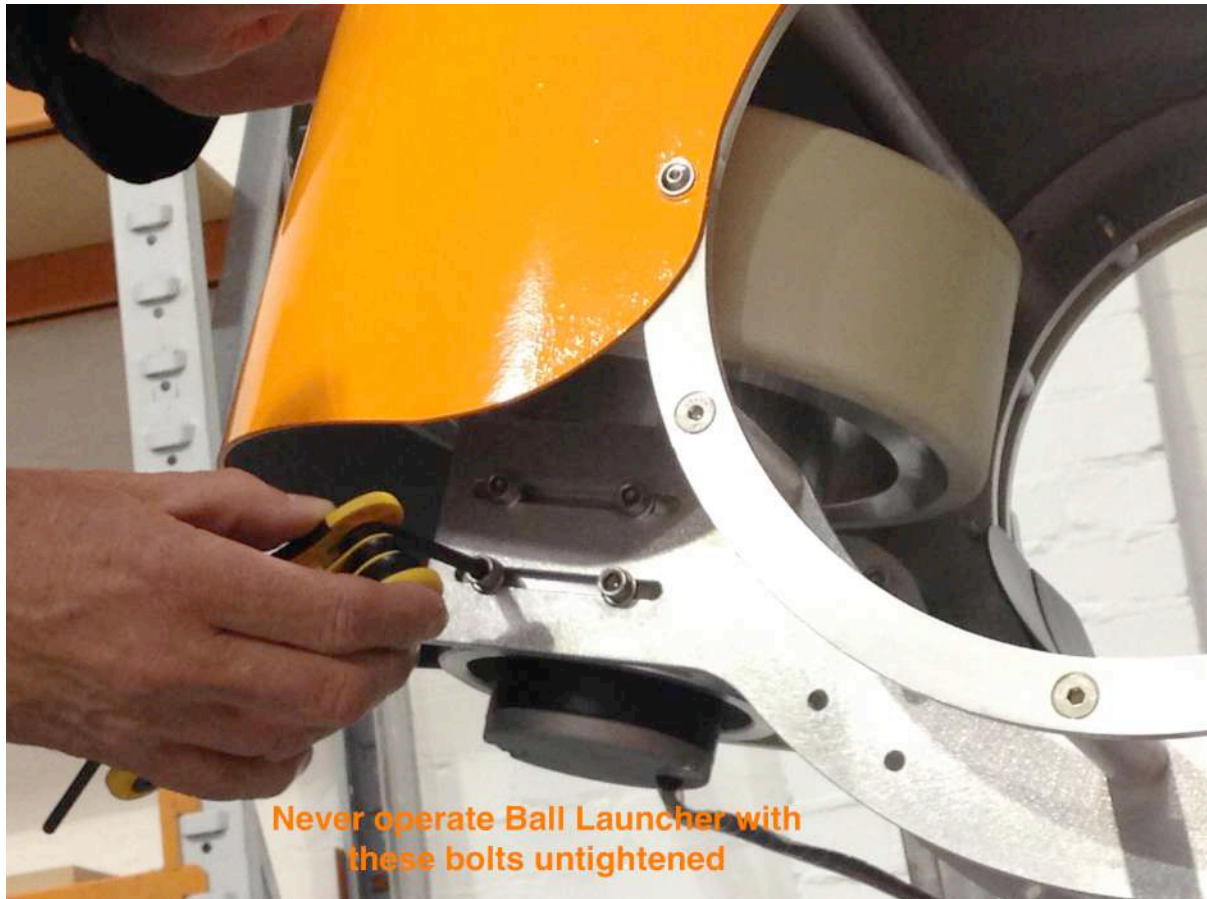
To do this you need to untighten each of the 8 allen key bolts on each firing wheel (there are 16 in total, 8 on each wheel, 4 either side).

You then simply push/ move the firing wheel the desired distance and **retighten and fasten the allen key bolts very securely.**

If you do not feel confident in performing this activity, ensure that you ask someone who is capable or qualified mechanically to do so.

**Do not adjust the distance or positioning of the firing wheels for any other purpose than the above, doing so presents significant risk.** These have been pre set for you in the ideal location to accommodate regulation size 3, 4 and 5 footballs.

Alternatively we sell new firing wheels and a fitting service. Pls contact us directly.



**WARNING**

Safety situations that may cause serious injury or loss of life.



**CAUTION**

Safety situations that may cause problems or damage to the equipment.

**Tightening brackets on Trolley frame section:**

Frequency = after 6 months of collective use

Time taken = 5 minutes

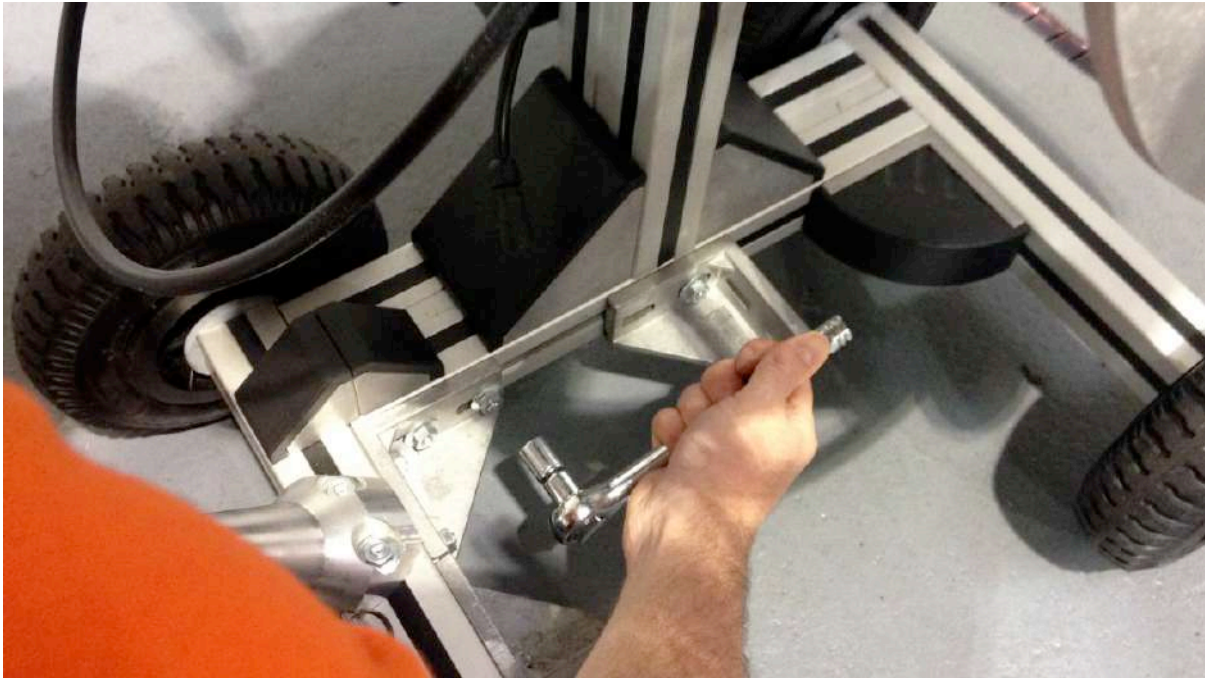


Tools or materials required = 13mm socket set or ring spanner

As advised earlier in this document the Battery Box containing battery is placed in a holding section at the base of the Trolley Frame section.

The holding section is made up 3 brackets that are bolted to the aluminium extrusion using 2 bolts each.

It is advised that you simply ensure that each of these are tight and have not become loose every 6 months.



## **Battery**

Frequency = after 12 months of collective use

Time taken = 1 charge from empty to test the battery.

Tools or materials required = no additional tools or materials.

Charge the battery as standard from empty and record the time it takes to reach full charge. If this takes longer than 5 hours, you may need to review the quality of the battery.

**Finally**, in terms of maintenance remember that Aluminium is one of the strongest, lightest and workable metal materials available on the market. It will always retain its strength, but may scratch on the surface over time. Take care of your Ball Launcher machine against sharp edges and objects if you wish to retain its aesthetic appeal. Damage to this is not covered in warranty.

## 12. FAULT FINDING PROCEDURES

The list below advises what to do if certain faults are found in use. If unsure, please contact us at [info@ball-launcher.com](mailto:info@ball-launcher.com)

**I have turned the power switch on, but the battery indicator light is not coming on the Control Panel or the firing wheels are not speeding up when I turn the rotary dials on the Control Panel?**

Ensure that the two plugs are correctly inserted into the correct sockets 1) plug that enters the Control Panel and 2) plug that enters the Battery Box.



**NOTE** To draw attention to procedures which it is essential to observe for correct operation.

**The Head section does not rotate properly from horizontal to vertical in either direction when fitted?**

Re read the installation instructions for connecting the Head section to the Trolley Frame section and ensure that you have correctly clipped it into place. Do not force it, only a subtle placement movement is required.

**I cannot fit the Ball Feed?**

Re read the installation instructions for affixing the Ball Feed to the device.

Do not force it on and ensure that the key holes on the Ball Feed are aligned with the 3 pins of the Trolley frame section.

The Head section must also be connected to the Trolley frame section correctly to be able to connect the Ball Feed.

**My battery will not charge?**

Check that you have correctly inserted the charger into the battery box and that the plug socket is turned on at the wall socket.

**The speed on the Rotary dials on the control panel do not match the ball speed from the machine?**

It is possible to adjust the dials on your Control Panel by gently pulling and removing the black dial and placing it back on in the position you require. When you place the black dial back on you must make sure that the metal dial underneath is turned as far as possible to the left so the speed is at 0mph. Then you can place the black dial back on also placed at 0mph so they match.



### 13. COPY OF WARNING NOTICES ON MACHINE

Warning not to place hands or any part of your body insidier the Head section of Ball Launcher when operational.



This is placed on the top of the Head section of Ball Launcher.

**Warning for no individuals to be less than 5 metres in front of Ball Launcher on the ball delivery side when operational.**



This is placed on the delivery exit side of Ball Launcher adjacent to the football exit.

**Notice to ensure that you read, accept and employ all contents of the instruction manual at all times.**



This is placed on your Ball Launcher manufacturers nameplate.

## 14. CE DECLARATION OF CONFORMITY



# EC Declaration of Conformity

with the

## European Machinery Directive 2006/42/EC

*We hereby declare that the machinery stipulated below complies with all the relevant provisions of the EC Machinery Directive and the UK National Laws and Regulations adopting this Directive. Modifications to the machine without prior approval from the undersigned will render this declaration null and void.*

**Declaration Ref. No.:** CE 000101 *Technical File Reference GT/CE Doc 002*

**Manufacturer:** *Globaltec Innovation Ltd*  
(name and address) *Unit 26*  
*Morses Lane Industrial Estate*  
*Brightlingsea*  
*Essex*  
*CO7 0SF*

**Authorised Representative in EU:** *Not applicable*

**Equipment:** *Manufacturer's model: Ball Launcher*

**Description:** *Ball Launcher Machine*

**Notified Body:** *Not applicable.*  
(name and address)

**Other EC Directives:** *Not applicable*  
(delete if not applicable)

**Harmonized Standards Applied:** *EN ISO 12100*

**Other Applications Specifications:** *Not applicable*

**Person empowered to** *David Bayliss*  
**draw up the declaration:**

**Signature:**

**Position:** *Globaltec Innovation Ltd Manufacturing Director*