



Lamb Weigher

Model - 3661G & 3662G

Instruction Manual
& Operating Guide

Rev 0 – 24/09/18



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Lamb Weigher – Model 3661G & 3662G

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Safety Notes and Warnings

- Ensure the operator in charge of the weigher is an experienced stock person who can maintain a high standard of animal welfare.
- Ensure that there is sufficient space in the area designated for the weigher to allow the operator to work safely and efficiently.
- If using an adjoining race and pen with the weigher should be of sufficient build for the safety of both animals and operators.

Training

Do not attempt to carry out any procedure on a machine unless you have received the appropriate training or read the instruction manual.

Retain all instructions in a safe place for future reference.



Introduction and Intended use

Ritchie weighing model 3661G & 3662G, are digital lamb scales, and are intended to be used by the agricultural industry purely for the weighing of lambs. The cage is designed to give maximum safety and to minimise stress in both the animal and the operator.

EziWeigh5i, 7i, ID5000 & XR5000 Tru-test indicators are the 4 options available for weighing using the Ritchie 3661G Lamb weigher.

The weigher should only be used by an experienced stock person, who can maintain a high standard of animal welfare.

Features:

- Mesh floor.
- Designed to be built into a race.
- Two lever operation for entry and exit. Both within easy reach, without the need for the operator to move from one position.
- Animals can enter from either left or right side.
- Self-locking hinged entry and exit gate.
- Wheeled and fold away transport handles.
- 250 Kg / 550 Lb (3661G) & 200 Kg / 440 Lb (3662G) capacity.
- Fully galvanised.

Deviations from the intended use should not take place without the notice and approval of David Ritchie (Implements) Ltd.

Specifications:

- | | | |
|-------------------|---|--------|
| • Internal Length | - | 1100mm |
| • Internal Width | - | 390mm |
| • Internal Height | - | 725mm |
| • External length | - | 1216mm |
| • External Width | - | 676mm |
| • External Height | - | 1228mm |
| • Unladen Weight | - | 70Kg |



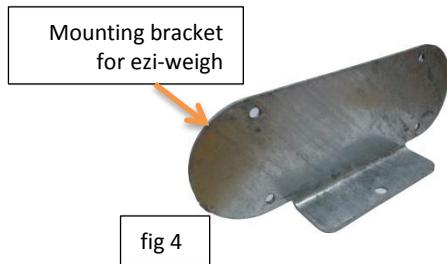
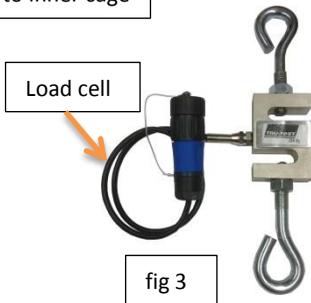
Overview (3661G)



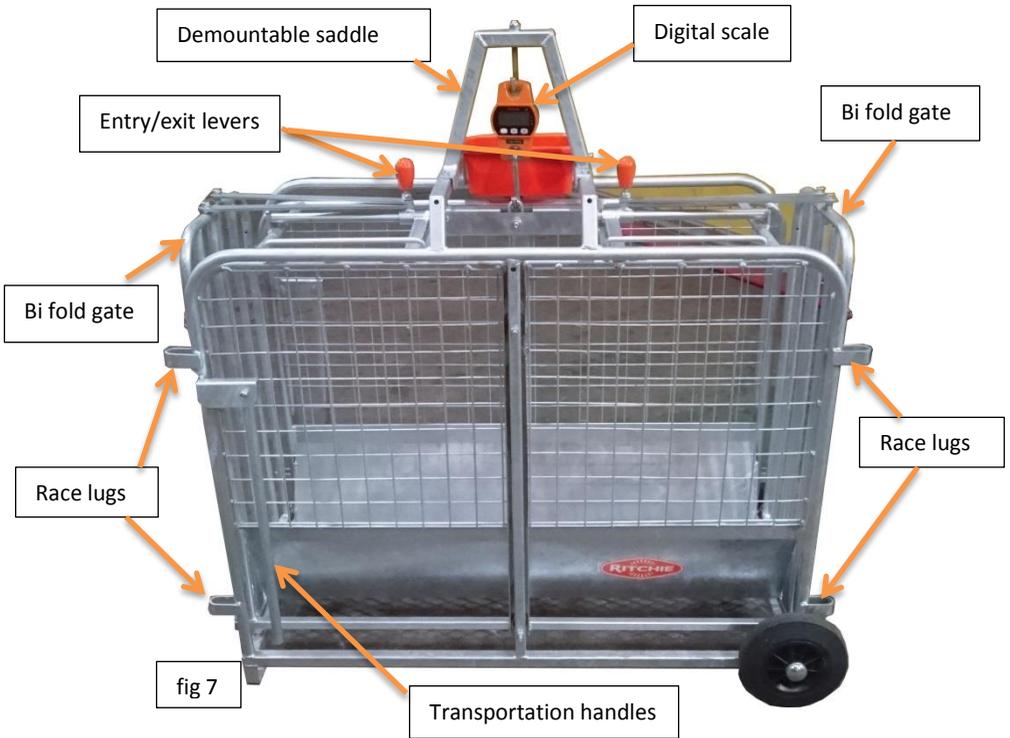
Overview (3661G) continued

Loose parts to be attached

Please note that the ezi-weigh indicator is **not** shown here as there is a choice of the following options. ezi-weigh5i, ezi-weigh7i, ID5000 & XR5000



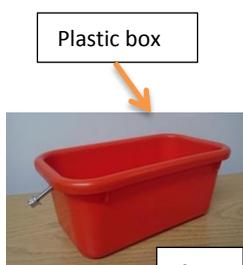
Overview (3662G)



Loose parts to be attached



Demountable saddle



Digital scales

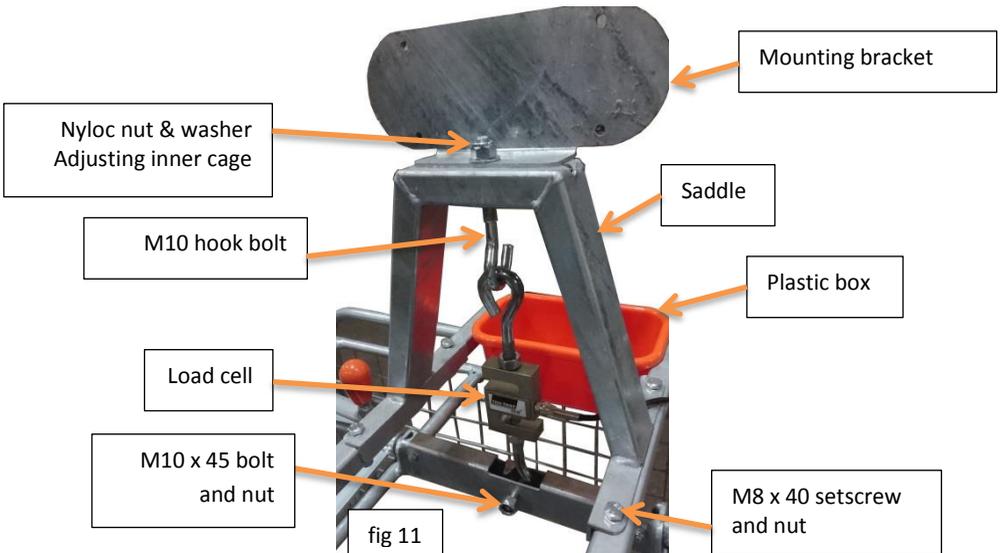


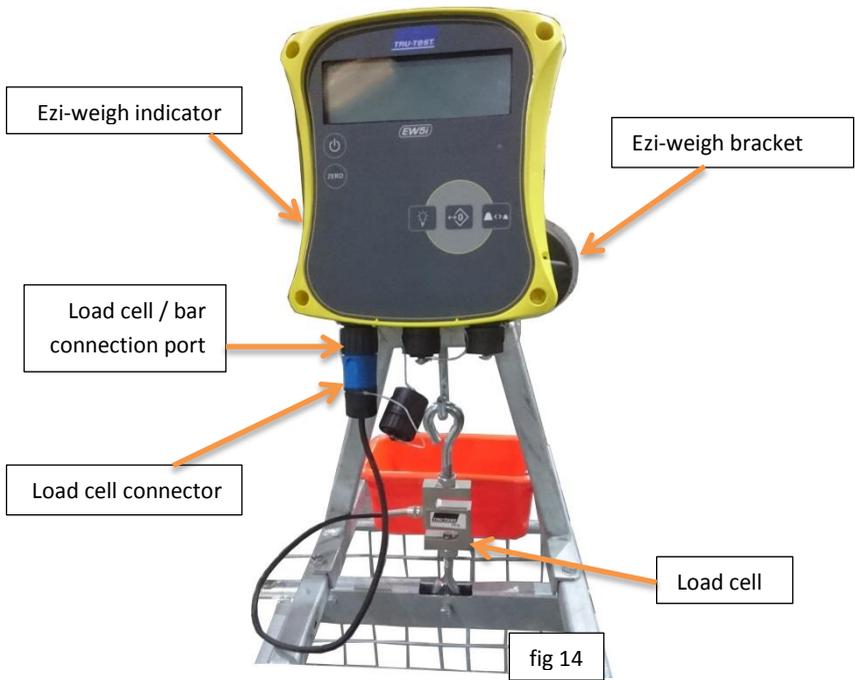
Preparation for Use

3661G & 3662G: Bolt the demountable saddle to the top/middle of the main weigher frame using the provided nyloc nuts and bolts (fig 2, 6, 8, 11 & 15).

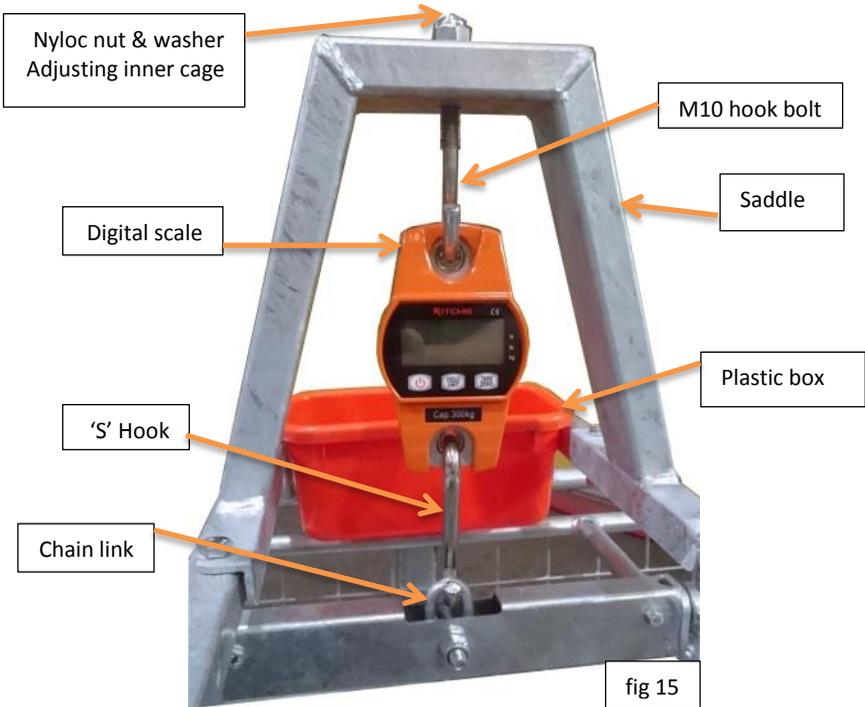
3661G: Unpack the ezi-weigh indicator and **read the included instructions for ezi-weigh indicator set up. Charge fully before use.** Locate the M8 x 40 setscrews and nyloc nuts. Secure the saddle to the outer frame at the top middle. Use the M10 x 45 bolt and nut and locate thru the inner frame and through the lower loop of the load cell. Lift or lever the inner frame up, and thread the M10 hook bolt thru the upper loop of the load cell, saddle, washer, nut and mounting bracket (**The indicator will face out from the non-bolt side of the mounting bracket. The mounting bracket can face either way and is down to operator preference**), and tighten so that the thread is thru the nyloc nut (fig 11). Check that there is an approximate gap of 10 – 15mm gap between the inner and outer frame at the bottom (check at front and back of weigher). Adjust by winding the M10 nyloc nut to achieve the required gap.

Using the plastic bracket that is included with the ezi-weigh indicator. Attach it to the mounting bracket using the M6 x 35 bolt, washer & nyloc nuts (fig 12 & 13). The ezi-weigh indicator then just slides onto the bracket and the load cell plugs into either one of the Load Bar Connection Ports. Screw the dust caps together to keep out dirt and grim (fig 14)





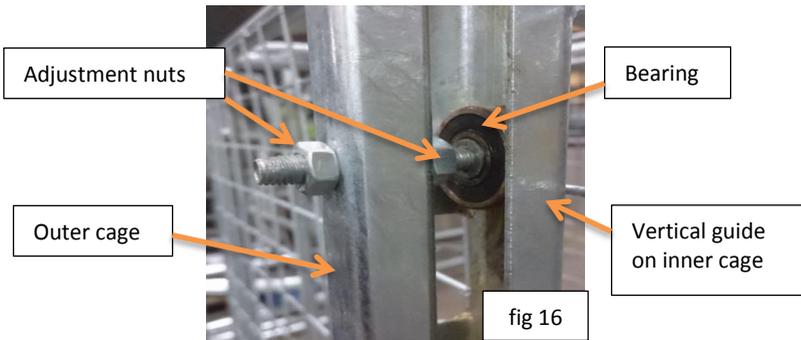
3662G: Using the digital scales and 'S' hook (fig 10), attach the 'S' hook thru the chain link in the cross member and then thru the digital scales. The way the digital scale faces is down to operator preference. Lift or lever up the inner frame to allow the digital scales to be connected to the M10 hook bolt (the M10 hook bolt may need to be unscrewed from the saddle to achieve this connection). Ensure that the M10 hook bolt is through the nyloc nut. Check that there is an approximate 10 – 15mm gap between the inner frame and outer frame at the bottom (check at front and back of weigher). Adjust by winding the M10 nyloc nut to achieve the required gap.



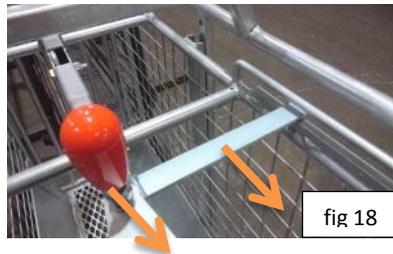
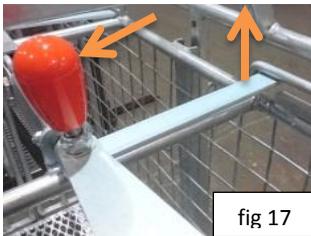
3661G & 3662G: The Plastic box sits between the top / middle frame rails and is bolted thru (using the M6 x 40 bolt, washer & nyloc nut) at one side, at either side of the weigher, dependant on operator preference (fig 14 & 15).



The vertical guide / runners that hold the 4 bearings (2 per side) can be adjusted, by slackening the inner nuts and tightening / slackening the outer nuts to take out any excessive play between the inner and outer frame (fig 16).



To release the locking mechanism on the entry / exit gate handles. The handle should be pushed or pulled (depending on where the operator is standing) to lift the locking bar above the lock block (fig 17). Then the handle can be slid outwards to open the gates (fig 18). When the handle is slid inward to close the gates, the mechanism will lock by itself.



The weigher should be positioned on an even, level site and may be joined to a race or pen system if required. Lugs are provided at each end of the weigher (fig 1 & 7) for this purpose, and can be installed either way around.

Grease and oil all components as indicated on the Maintenance and Lubrication page **before use**. Failure to do so, could reduce the lifespan of components and the weigher.



Operating Instructions

The Ritchie Lamb Weigher can be easily operated from either side by one operator.

Before admitting an animal to the Lamb Weigher, check that the ezi-weigh indicator / digital scale is reading zero (see ezi-weigh indicator / digital scale instructions on how to do this).

To admit an animal

Push / pull handle (closest to animal), to release locking mechanism, and slide handle outward to open the bi fold gates (fig 20). Allow the animal to enter the weigh cage. Then slide the handle inwards to close the gates (fig 19). **Ensure that the self-locking mechanism has engaged.**

To weigh an animal

Use ezi-weigh indicator / digital scales to weigh. Complete any other operations required.

To release an animal

Push / pull the other handle, to release the locking mechanism, and slide the handle outwards to open the bi fold gates (fig 20). Allow the animal to exit. Then slide the handle inwards to close the gates (fig 19). **Ensure that the self-locking mechanism has engaged.**



Operating Instructions Continued

To move weigher to a different location

Disconnect the ezi-weigh indicator & Load cell / digital scale from the saddle. Failure to do this could damage these components.

Ensure all gates are closed and that the self-locking mechanism is engaged.

Lift the transportation handles out and up so that they are horizontal and against the stops (fig 21). Lift the handles further to lift that end off the ground. It can now be easily moved around on the wheels at the opposite end. Move the weigher to the new location and set down. The handles will return to the hanging position out of the way.



ID5000 & XR5000 Bracket Installation

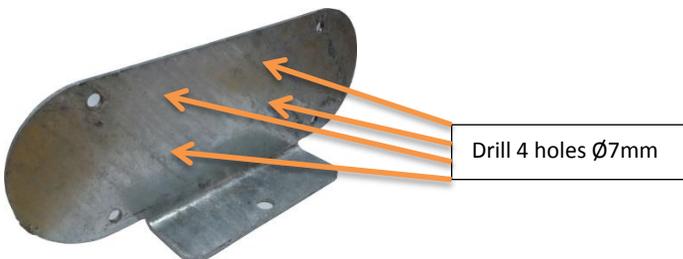
- When using the ID5000 or XR5000, four holes \varnothing 7mm must be drilled in the mounting bracket that sits on top of the saddle. Use the included bracket for the ID500 / XR5000 as a guide for where to mark the holes (see below).
- Some of the information and features noted in the following pages may be applicable to the XR5000 model only.
- You will need to install the Tru-test Data Link software on your PC which has been supplied with the indicator on a USB flash drive. It is also available from the Tru-test web site. www.Tru-test.com.

Included bracket (front and back).

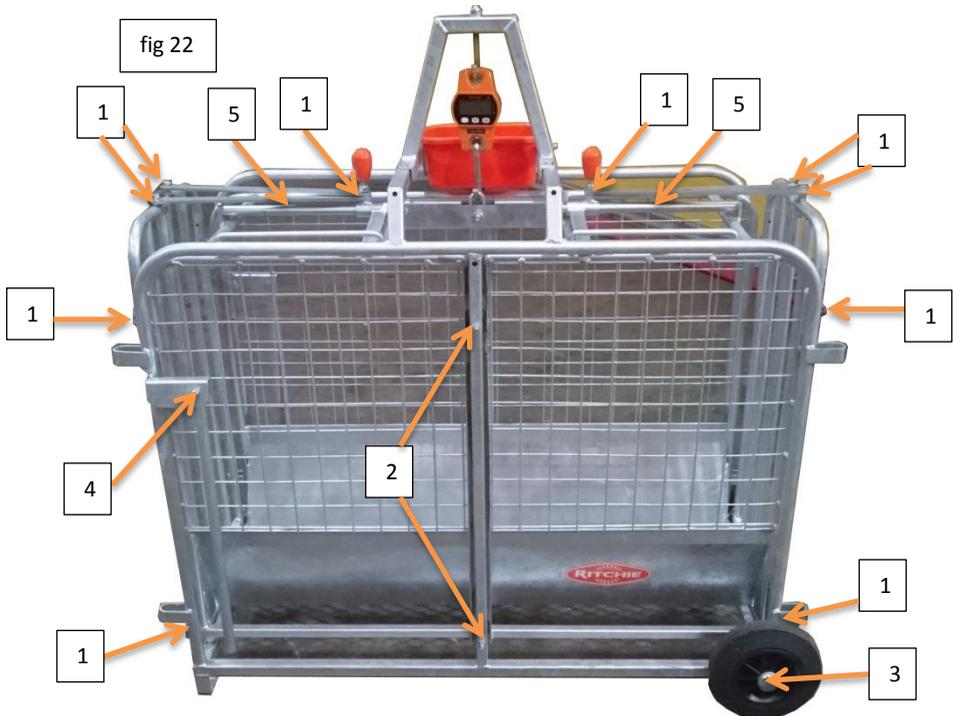


Mounting bracket (below)

Mounting holes \varnothing 7mm



Maintenance and Lubrication



Oil and / or Grease regularly during operation

- 1 - Entry / exit gate pivot points
- 2 - Inner cage guides and bearings
- 3 - Wheels
- 4 - Transport handles pivot points
- 5 - Handle sliding tubes



Spare Parts

<u>Part</u>	<u>Ritchie Part No.</u>
Wheels	WHPL200
Bearing & Bearing Spindle	BEAR162012RS & DSPIN663/38
Handle (knob only)	HANDLE121062
Plastic Box	3669GPTUB
Digital Scales	LOADCELL-OCS-03-L
Starlock Fastener	STARLOCK19MM

If any other parts are required please contact your local David Ritchie supplier or David Ritchie (Implements) Ltd directly.



Plastic Box



Handle (Knob only)





Digital Scales



Starlock Fastener



Bearing & Bearing Spindle

Wheel





the perfect partner

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