TE PARI

Racewell HD3 - HD6 Sheep Handlers

Installation and Operation Manual

Including scale indicator quick setup guides and Racewell sheep handler troubleshooter

CONTENTS

Setting up scale indicators for use on your Racewell - Quick set up guides

Racewell HD6

6 WAY DRAFTING HANDLER

SUPER SHEEP HANDLER MAIN COMPONENTS OVERVIEW

Drafter Gates • Infra-red Sensors (eyes) • Control Dash • Indicator Stand • New model Leadup Race • Drafter Base • Sheep Unit, Crush Tilt and Base • Pedal Section • Auto Entry Gate • Leadup Race
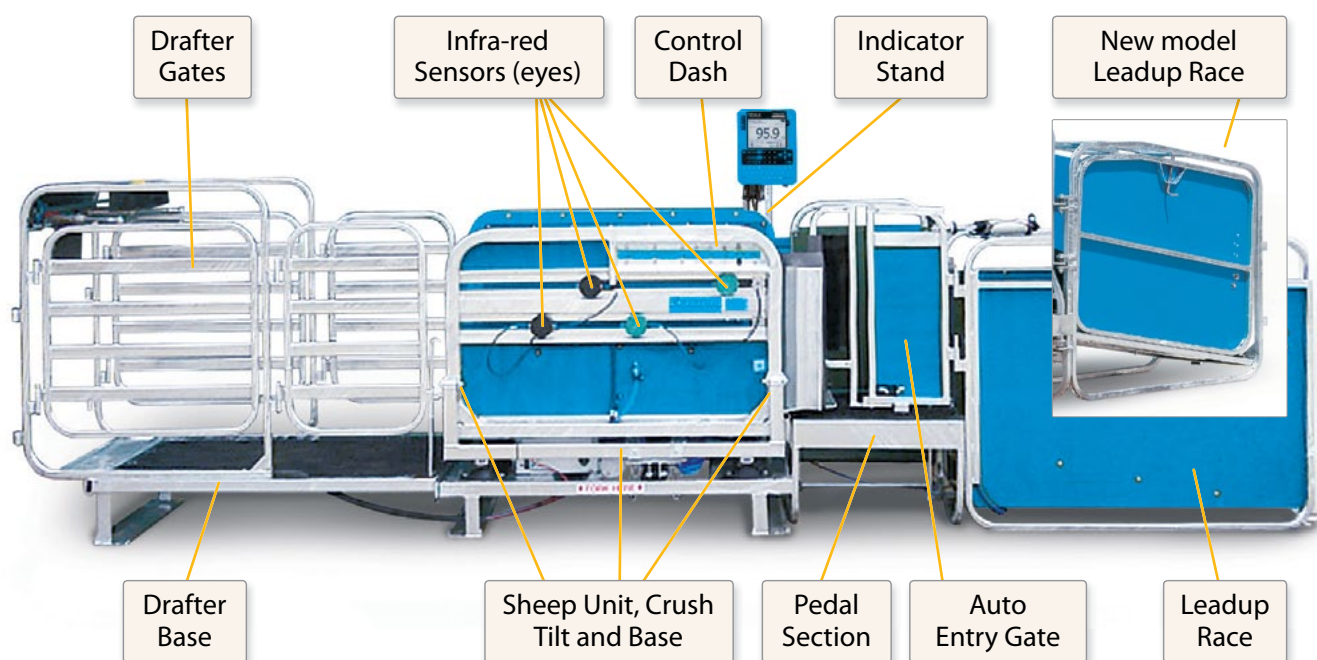
IMPORTANT - PLEASE READ

- If using an Iconix weighing indicator charge it for at least 24 hours prior to use. Trutest and Gallagher scales will run directly from the power source.

- Please pay particular attention to the information relating to the use of the sensor eyes on pages 11 and 12.

- Your Racewell Sheep Handler is designed to make handling sheep easier. If you require any assistance with the assembly of your Sheep Handler, please ask us, we are here to help.

SETTING UP THE SHEEP HANDLER

All components on the system clip together with drop locks, like on the tailboards of utes. This makes for an end unit that is stable and firmly connected but is easy to dismantle should you need to move your system to another set of yards.

1.   Place the **'Leadup Race Section'** in position at the end of the race that the sheep will feed from.

2.   Now connect the **'Pedal Section'** to the front of the race and join the two together.

3.   Place the **'Base and Sheep Unit'** in front and join to the pedal section. You may want to pin the base to the ground. Some farmers find placing a sheet of ply under the base provides a good surface and makes tidying up wool pieces easy at the end of the day. This is optional.

4.   The moving **'Crush Wall'** can now be mounted. Do so by placing the fixed end to the rear of the crush in one of the holes provided. Use the spring pin at the front of the wall to position the wall in the corresponding hole at the front.

   Take the green ram, and mount it to the back of the wall - we suggest the centre hole. Bolt to the base with the bolt provided.

   WARNING: Adjust this pin so the wall cannot touch the opposite side. This is a safety feature so that hands and fingers cannot be caught in the empty unit accidentally.

   One 10mm airline goes in the bottom, the black 6mm airline in the top. Be sure they are pushed in firmly.

ENTRY ACCESS DOORS

The entry access doors can now be fitted. These simply hook onto the hinges at the front of the leadup race. The flat door goes on the far side.

Note: It can be adjusted on the floor of the pedal section to provide variable entry size depending on the animals being dealt with. The auto gate fits on the working side.

THE COMPRESSOR

We recommend a 12cfm belt driven compressor, if the compressor is too small the Racewell will run slowly and may not operate properly.

The compressor does not need to be close to the Racewell in fact having it at some distance reduces noise levels in the working area. It is important to run compressors in a well ventilated area as close as possible to a main supply near a switchboard - this avoids the use of leads which can affect the power input. From time to time the oil level on the dipstick should be checked and the water drained from the air reservoir.

Please Note: When turning the compressor on or off use the switch on the compressor. Do not turn on or off at the power source switch.
This applies to all compressors, because air is not discharged, the compressor is being asked to start under load and this can burn out its capacitor.

ATTACHING THE AIR FITTINGS AND COMPRESSOR HOOK UP

Pipe the air to the compressor to the unit via standard 15mm (1/2 inch) alkathene water line. We have some units working with the compressor up to 2kms from the work site.

From your Compressor

1 metre (approx)

To your Racewell

Ball or tap valve
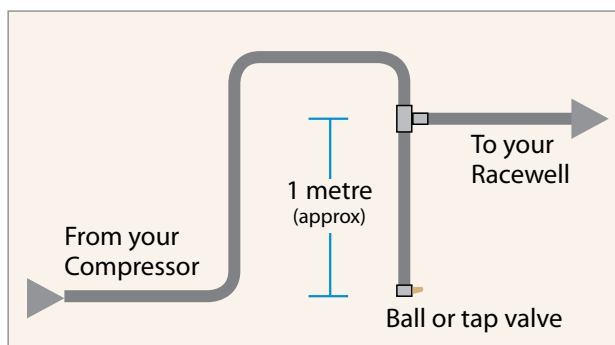
If your compressor is situated some distance from your Racewell we recommend the airline configuration shown here.
This provides a purge tap or ball valve so that condensation can be periodically removed from the air system.

Assemble the airline and connect to the compressor. Plug the compressor into a power source and turn the power source on, then using the switch on the compressor turn the compressor on. Always turn the compressor on or off at the compressor, not the wall.

The 3 pin socket on the power pack situated under the sheep unit can now be connected to the power source. The airline from the compressor (female end) can now be plugged into the male fitting on the underside of the sheep unit. This is on the same side as the power pack was plugged in. It is just inside the frame, toward the back.

Using the Hoist Switch on the dashboard or the manual hoist lever under the floor section, carefully tilt the unit. Disconnect the air from the sheep unit. You now have access under the unit. Non-tilt options are tilted for access by hand, just lift up until the weight is taken on the safety chain.

INSTALLING THE AUTOGATE

The autogate comes with two airlines, installed on the leadup race.
Two 6mm joiners are located under the raised ramp.

Under the sheep crush (next to the rear loadbar) there are two lines coiled up.
These are taped up for transportation.

1. Untape the lines. Lead them under the mounting plate that holds the rear set of loadbars and pass them through the pipe welded on the off side underneath the pedal section.

2. Bring the airlines across to the working side of the unit and push firmly into the 6mm joiner under the ramp.

3. On the working side of the lead up race, there is a hole in the top rails. Using the long 12mm bolt and nut supplied, mount the ram with fittings facing outwards. Pull out the ram spear so that the ball end of the spear can be bolted onto the gate bracket. Tighten firmly using second bolt provided.

4. The airlines can now be plugged into the ram. One goes to the front, one to the back. Be sure to push them in firmly. Remember if the gate is working opposite just change the airline to the other side.

INSTALLING THE ANTI BACKING HOOK

The anti backing hook comes with two airlines. These are coiled up underneath the crush near the automation box.

1. Untape the airlines and run them up through the hole in the floor of the unit, then through the two cable ties on the outside of the crush wall and into the fittings on the anti backing hook ram.

2. Push airlines in firmly.

INSTALLING THE DRAFTER

The drafter attaches to drop locks at the front of the sheep unit. Remove the wooden transport supports. The drafter will come with 4 x 4mm airlines. These will have 4 colours attached to the airline ends. Please push the airlines into the side of the automation box to the corresponding colours.

The main air supply from the compressor can now be reconnected and the hoist lowered.

REMOTE CONTROL

The remote is already synchronised to your unit. If you need to use an alternative remote, it must be programmed to operate with your unit.

This is done by turning on the Racewell and holding down buttons **A** and **B** on the remote for 3 seconds.

Please Note - If your remote has been programmed for use on another Racewell, you will need to re-programme it to your Racewell before you can use it again.

Button	**A**	is	**Catch**
Button	**B**	is	**Release**
Button	**C**	is	**Left**
Button	**D**	is	**Right**

SHEEP BACKING GATES - IF NOT ALREADY FITTED

The standard backing gate can be fitted on either side of your race. There are just two bolts to fix. The height of the bolt holes is approximately 500mm off the ground or the sheep rub line. You may need to experiment to find out where the best place in your race system for the backing gate is.

Some farmers find one backing gate at the entry to their race and one backing gate close to the system works really well. You may find more than one backing gate is needed for optimum performance.
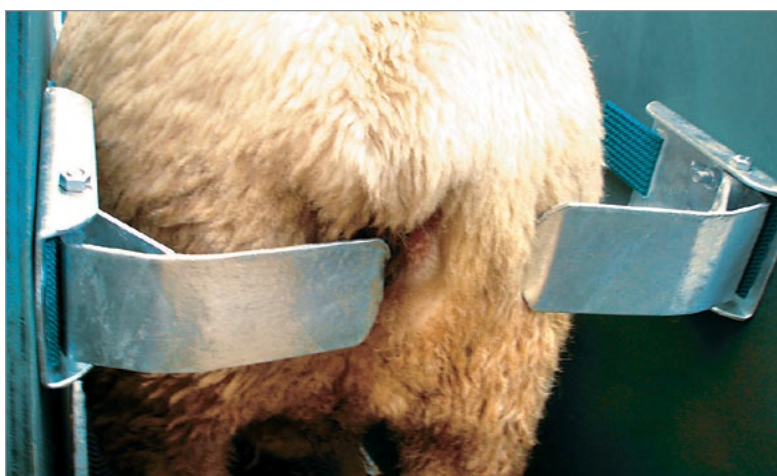
USING THE CRUSH - DASH CONTROLS

TE PARI Racewell HD	www.tepari.com NZ 0800 837 274		DRAFT	HOIST	HOLD		HOLD PRESSURE
On POWER Off	On EYES Off	AUTO On RELEASE Off	L↔↕→R	UP DOWN	↕	Decrease Increase	

There are several operating options on this unit. Starting from the right on the dash.

HOLD PRESSURE KNOB

HOLD PRESSURE — Decrease Increase

Turning the knob anti clockwise as far as it will go, will operate the crush wall with very little pressure, too little to hold a sheep. This is a test mode only. Turning the knob in a clockwise direction increases the pressure up to a maximum pressure. This knob can be used to regulate pressure for small lambs through to large rams.

HOLD SWITCH

HOLD ↕

To activate this switch, move switch to the upward position. This catches the sheep on activation. To release the switch, move to the downward direction. This is a master switch and will over ride any mode.

TILT OPTION / FOOT PEDALS

HOIST UP DOWN

Twin operated foot pedals are supplied with an electric 12v lead and plug. This connects to the plug found on the operating side of the unit. The left pedal tilts the unit up, and the right pedal lets it down. If something goes wrong, removing your foot off the pedals will stop all movement. In the event of power failure or no air, an emergency valve is used on the back side under the unit.

DRAFT SWITCH

DRAFT L↔↕→R

As on the panel, moving the switch to the left, drafts to the left, in the centre is straight ahead, and to the right drafts to the right. When using in autodraft mode, the switch must be left in the centre. However, this switch can also be used to override autodraft at any time. Remember to place it back to the centre before continuing.

AUTO RELEASE SWITCH

AUTO
On RELEASE Off

Having this switch in the On position, allows the animal to be released after the weigh process is completed. If you want to manually release the animal after weighing e.g, inoculating or dagging as well as weighing, this switch must be turned off.

THE EYE SWITCH

On EYES Off

This switch turns the front (black) eyes only on or off. The third and fourth eyes (green) remain active unless the Racewell is turned off.

Two black and two green eyes are supplied.

The two black eyes are the catch eyes. These are positioned one above the other in the forward part of the Racewell. There are two of these to ensure that animals entering the clamp with their heads either up or down still trigger the catch mechanism at the correct time. They are on a magnetic slide for easy positioning according to animal size and task variances that are being carried out - e.g. eyes well forward for the capsule drenching or well back for crutching.

An added safety feature is that one of the green eyes (at the back) has to be covered for the black eyes at the front to operate.

If you drop a tool into the unit and want to retrieve it, you can do so safely as long as you do not cover both black and green eyes simultaneously.

The two green eyes are used to indicate the presence of an animal in the unit and to close the entry gate. Use one of the green eyes to shut the entry gate at the precise moment required. As an indication this usually means the eye should be placed to the far right of the Racewell.

The second green eye should be placed just forward of the centre of the unit so that this eye and at least one of the black eyes are covered by the animal.

This enables the control box to recognise the animal in the unit and catch it.

ON/OFF SWITCH

On POWER Off

This is a master switch, which completely disables the Racewell. We recommend that the Racewell be turned off here at the end of each session so that children or dogs do not get inadvertently caught in the unit between operations. This switch must be on for your Racewell to operate.

POSITIONING THE SENSORS (EYES)

The sensor eye positioning graphics below are a general guide only because the difference between mature and young animals is great.

- Always use the black eyes for catching only.

- Use one green eye to shut the entry gate at the time required.

- Position the other green eye so it is always covered by the animal while it is caught.

Sensor eye position guide for dagging smaller sheep

Sensor eye position guide for weighing smaller lambs

Sensor eye position guide for weighing larger lambs or sheep

Please Note: Wool or dust etc covering any of the four eyes can affect operation. Make sure that the lenses of the eyes are clear at all times.

ANTI BACKING HOOK

This works in conjunction with the auto or bi-fold gate, and ensures that the animal can't backup in the Racewell. You can control the speed of the hook using the airflow control on the ram in the same manner as the autogate.

The best-set speed is as slow as you can get away with. If the end of the hook extrudes beyond the edge of the ply, there is an adjustment on the spear of the ram.

The hook can be deactivated using the ball valve on the ram.

AUTOGATE

There is an airflow control on the front end of the entry gate ram that can be used to slow down, speed up, or deactivate the entry gate. Should you require the auto entry gate to be deactivated, wind the screw right in to stop its air supply.

This screw only controls the speed that the gate shuts. If you have this adjusted correctly, the gate can be made to operate very smoothly.

ADJUSTING THE CRUSH WIDTH

On the off side of the crush at the bottom of the moving wall, you will find there are adjustment holes.

The width of the unit can easily be adjusted by pulling the moving wall towards the fixed side, and filling with air. Then pull the spring lock to select a different width setting.

Size can also be adjusted differently from front to back if required. This allows for a tapered operating crush.

The push length of the squeeze ram can also be adjusted. In the middle of the moving wall there are four adjustments for ram length.

Adjust this pin so the wall cannot touch the opposite side. This is a safety feature so that hands and fingers cannot be caught in the empty unit accidentally. As a guide when a sheep is clamped the top face of the crush wall should be near to vertical.

OPERATIONAL MODES   Automatic sheep handlers have 3 operational modes.

Mode 1   Normal operation mode, best for most tasks like crutching, ear marking, weighing etc. This mode is the default setting at start-up. It provides delayed opening of the entry gate following an animal's release from the crush.

Mode 2   Quick throughput for weighing and drafting. Best if weighing and auto-drafting large mobs of animals. Mode 2 gives you manual control of the entry gate. By supervising the operation of the entry gate throughput can be increased because the delay in opening the gate can be reduced.

Mode 3   Disables auto-catching and the auto-gate but still allows catching with the manual controls. The "eyes" must be turned off in this mode. This allows most animals to run through but lets you catch the ones you want for dagging etc.

To change Modes:

Mode 1 - The default mode. Whenever you **Power On** from **Off** the Handler will be in Mode 1.

Mode 2 - To go to Mode 2, **Power Off** then hold the **Hold** switch in the **Release** position for 3 seconds while turning the **Power On**.

Mode 3 - To go to Mode 3, **Power Off** then hold the **Hold** switch in the **Hold** position for 3 seconds while turning the **Power On**.

Switching **Power Off** then back **On** will return you to Mode 1 from Mode 2 or 3.

The Hold Switch
Up to HOLD

HOLD

Down to RELEASE
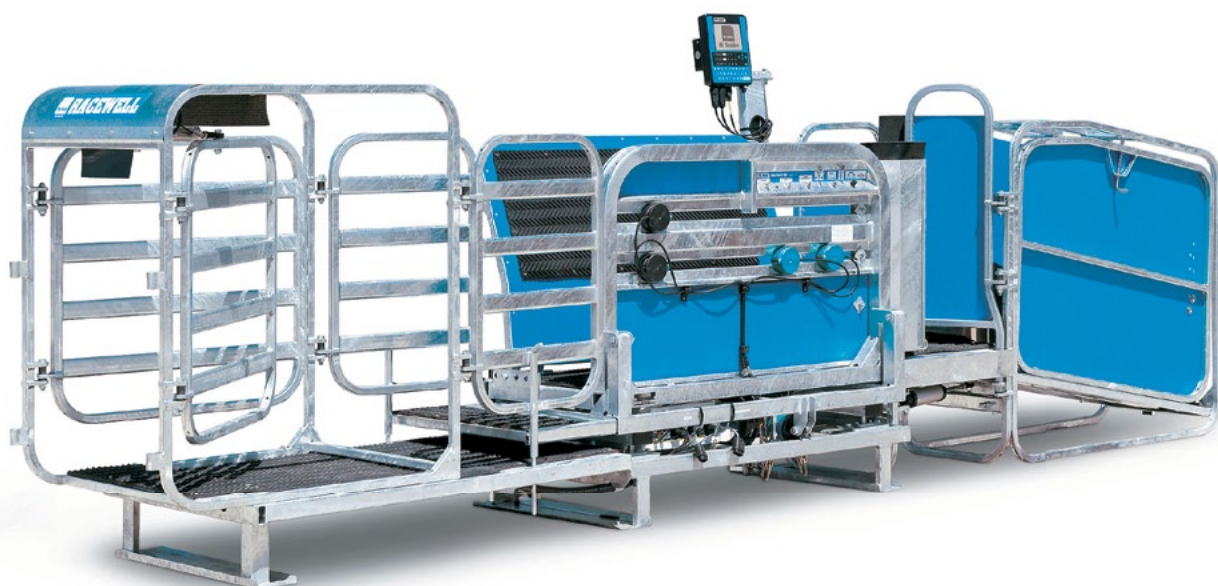
Te Pari Racewell Trailer System Guidelines

Before using please check that all drawbar, lift and axle retaining pins are fitted and are secure before towing any Te Pari Racewell trailer.

Please be aware of the LTSA (Land Transport Safety Authority) requirements, shown below, regarding agricultural trailers.

Motor Vehicles Exempt from Registration and/or Licensing

The following agricultural motor vehicles are covered by the defence and may not be required to be registered or licensed:

- A trailer attached to an agricultural tractor.

- A trailer designed exclusively for agricultural operations and used on a road only when proceeding to or from a farm or when being inspected, serviced, or repaired.

4.7 Towing

When you are towing a vehicle, it is essential that the combination can stop safely (within the required distance from a given speed). With agricultural vehicles, this is often critical because many agricultural trailers are unbraked. Towing speeds therefore need to be carefully controlled. Towing connections must be strong and secure. The hitch pin must be large enough, not worn, and must be well secured in position. A safety chain fitted between the vehicles must be of adequate strength.

5.1 Does your vehicle require a warrant of fitness?
The requirement to obtain a WoF generally depends on the speed the agricultural motor vehicle is operated at.

The following vehicles do not need a WoF:

- An agricultural tractor or machine operated at no more than 40 km/h.

- A trailed agricultural implement towed at any speed.

- A goods trailer used principally for agricultural purposes towed:

    At no more than 40 km/h, or

    At no more than 50 km/h by a tractor that is not capable of exceeding 50 km/h, or
    By an agricultural machine at any speed.

The following vehicles need a WoF:

- An agricultural tractor or machine operated at more than 40 km/h.

- A goods trailer used principally for agricultural purposes towed at more than 40 km/h (such a trailer is no longer an agricultural motor vehicle) by:

  A tractor that is capable of exceeding 50 km/h
  (if the trailer has a GVM, Gross Vehicle Mass, exceeding 3,500 kg,
  then the trailer needs a CoF), or

  A vehicle that is not an agricultural tractor or machine
  (if the trailer has a GVM, Gross Vehicle Mass, exceeding 3,500 kg,
 then the trailer needs a CoF)

Note: The above requirements apply regardless of whether the operator is a farmer or an agricultural contractor.

5.3 What are the safety requirements for vehicles that do not need a WoF?

Vehicles not requiring a WoF still have to be in good condition and safe to use on the road. This means that generally they need to meet the same requirements as vehicles on a WoF. However, there are some exceptions, especially regarding lighting equipment.

Note - These are guidelines only

It is important to understand your obligations regarding both the classification and safe operation of trailed agricultural machinery. If you are unfamiliar with the rules please refer to the Agricultural vehicles guide, it can be viewed or downloaded from the NZTA (New Zealand Transport Agency) website at www.nzta.govt.nz
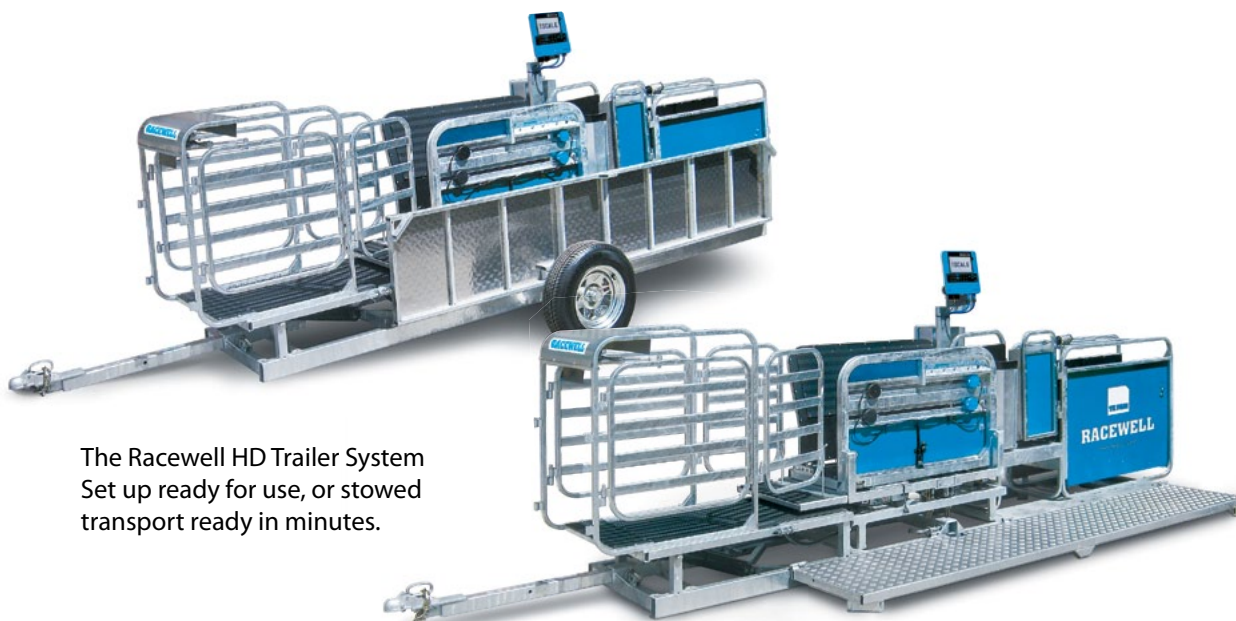
The Racewell HD Trailer System Set up ready for use, or stowed transport ready in minutes.

SETTING UP A TE PARI T20 or T20E SCALE

Press the power button

Then the [SETUP WEIGH] button to enter setup and set the following highlighted settings

SETUP PAGE 1 OF 3

CURRENT FAVORITE:	SHEEP
SAVE/NAME FAVORITE:	SHEEP
BACKLIGHT MODE:	ON
SET DRAFT TYPE:	WEIGHT
DRAFTING SETUP:	PRESS SELECT
HEALTH MODE:	HEALTH 1 ON
SET HEALTH 1 TYPE:	SCANDA
CALCULATED DOSE:	15ML / 0100KG
SET HEALTH 2 TYPE:	5N1
CALCULATED DOSE:	01ML / 0100KG
WEIGHT RECORD:	AUTO FAST
AUTO ZERO:	ON
WEIGHT GAIN:	GAIN/DAY
TARE WEIGHT:	0000.0KG

Press Select to set Favorite Setup

Press **RECORD/SELECT**

to enter SETUP DRAFT ZONES select the WEIGHT draft type

SETUP PAGE 2 OF 3

COM PORT 1 MODE:	AUTO DRAFTING
COM 1 BAUDRATE:	9600
COM 1 POWER:	ON
COM PORT 2 MODE:	EID READ/PC CONNECT
COM 2 BAUDRATE:	9600
COM 2 POWER:	ON
SYSTEM SETUP:	PRESS SELECT
SYSTEM INFORMATION:	PRESS SELECT

FLASH MEMORY: 4M OK
VER G FLASH
FIRMWARE VERSION: B2.13.59 MAY 14 2013

Press Select to setup System Settings

Press **RECORD/SELECT**

to enter SYSTEM SETUP

SETUP PAGE 3 OF 3

ID MODE:	NO ID QUICK WEIGH
ENABLE AUTO VID:	OFF
AUTO VID START:	VID001
ENABLE PID:	NO
PID DEFAULT:	
ENABLE CODE 1:	NO
CODE 1 TITLE:	CODE1
CODE 1 DEFAULT:	
ENABLE CODE 2:	NO
CODE 2 TITLE:	CODE2
CODE 2 DEFAULT:	
ENABLE CODE 3:	NO
CODE 3 TITLE:	CODE3
CODE 3 DEFAULT:	
LOAD CODES WITH PREV WEIGHT:	NO

Select what ID modes are enabled

Enter weight ranges in the WEIGHT draft type

SETUP DRAFT ZONES

GATE	FROM	TO	HOLD
1	0000.0 KG	0050 KG	OFF
2	0050.1 KG	0100 KG	OFF
3	0100.1 KG	0200 KG	OFF
4	0200.1 KG	0300 KG	OFF
5	0300.1 KG	0500 KG	OFF
6	0500.1 KG	1000 KG	OFF
7	1000.1 KG	2000 KG	OFF
8	2000.1 KG	2500 KG	OFF
9	2500.1 KG	3000 KG	OFF
0	NO EID	OFF	

ENABLE AUTO EID IN DRAFTING   10s
ALLOW DUPLICATE EIDS: YES
PRESS SETUP TO ACCEPT SETTINGS

SYSTEM SETUP

WEIGHING MODE:	LOCK-ON 1S
ALGORITHM MODE:	START 20LB
LOADBAR MODEL:	ISWP
mV/V SETTING:	1.325
LOADBAR FULLSCALE:	2000 KG
LOADBAR m/V	- - - -
AUTO CALIBRATION:	0200.0 KG
REWEIGH THRESHOLD:	30%
LANGUAGE:	ENGLISH
WEIGHING UNITS:	KG
SET DATE FORMAT:	DD/MM/YY
SET DATE TIME:	19/04/12 11: 00: 11

PRESS WEIGH OR STATS TO ACCEPT SETTINGS
Select Lock-On, Fast Lock-On or Static

Other information on settings and usage is sometimes displayed in the active window and at the bottom of the screen.

The up or down arrows scroll up or down through a page's items, pressing and holding the up or down arrow jumps up or down through the setup pages.

[SETUP WEIGH] Toggles between SETUP PAGE 1 and the WEIGH SCREEN (the main working area). It also takes you to SETUP PAGE 1 or the WEIGH SCREEN from any other screen you are in.

! CURRENT FAVORITE: and NAME/SAVE FAVORITE: Once you have completed the set up, select the SAVE/NAME FAVORITE: item and save the settings with a name of your choosing. In future you can load that item from CURRENT FAVORITE: and the settings will be restored.

You can make changes to weight ranges etc. from a loaded favourite item and save this revised set up as a new favourite item for recall later.

TE PARI

Racewell HD   SHEEP HANDLING SYSTEMS

SETTING UP AN ICONIX FX21

In setup on the FX21 the **ZERO** button toggles features between **ON** and **OFF** and pressing the **WEIGH** button scrolls to the next item.

From off, hold down the **WEIGH** and **ON** buttons until **SEt** appears on the screen then quickly press the **ZERO** button

Note - you will be returned to main window if you do not press the **ZERO** button within 3 seconds of **SEt** displaying.

Set **drFt.On** (Draft to on) then press the **WEIGH** button

Set **ZErO.On** (Zero to on) then press the **WEIGH** button

Set **dUPL.OF** (Duplicate to off) then press the **WEIGH** button
A number will appear - we are not concerned with this
press the **WEIGH** button again to continue

Set **rELS.On** (Release to on)

Press the **WEIGH** button until **SAVEd** appears.

FX21 - DRAFT LIMITS
The 2 weight parameters provide the 3 drafting zones.

Draft 1
Weights below
Draft limit 1

Draft limit 1

Draft 2
Weights between Draft limit 1
and Draft limit 2

Draft limit 2

Draft 3
Weights above
Draft limit 2

See the chart above on how the 2 weight parameters provide the 3 drafting zones, to set up drafting press the **DRAFT LIMITS** button

The display will briefly show **DrAFT.1**, (Draft limit 1) key in your preference

Press the **DRAFT LIMITS** button again, key in the Draft limit 2 figure

Press the **DRAFT LIMITS** button again, the display now shows draft directions. Set the draft direction by pressing the **WEIGH MODE** button, pressing the **WEIGH MODE** button will scroll through the 6 options, when the draft direction you want is displayed it is set.

Press the **DRAFT LIMITS** button, the display will read either **AUtO** (Automatic) or **AUtO.OF**, (Automatic Off) this needs to be set to **AUtO** for Racewell, change this if required by pressing the **WEIGH MODE** button.

Press the **DRAFT LIMITS** button to complete drafting set up.

Press the **WEIGH MODE** button repeatedly until **H.SPEEd** briefly shows on the display.

Set up is now complete and you are returned to the main weigh display.

SETTING UP AN ICONIX FX41

On the FX41 you use the **ENTER** button to confirm each setting and move to the next item, you use the up and down arrows to change an item.

Turn the indicator **ON** and press the **SET-UP** button, The settings are displayed on the small screen with prompts on your options, set each of the items as follows:

PREFIXING = OFF

WEIGHT GAIN = OFF

PERCENT = 51.0

DRAFT/EID ON LINE

AUTO-DRAFT = RACEWELL (or **ON** in older models)

EID = OFF

TRIGGER = EXTERNAL

BAUD RATE: 19200

DUPL. ID CHECK = OFF

MULTIPLE WEIGH = OFF

DISPLAY RELEASE = ON

ZERO TRACK = ON

UNITS = kg

Scroll through date and time and set if required
SAVED ! shows as the last option and you are done.

FX41 - DRAFT LIMITS
The 2 weight parameters and minimum and maximum weights provide the 3 drafting zones.

Minimum weight

Draft 1
Weights between minimum weight and DRAFT LIMIT 1

DRAFT LIMIT 1

Draft 2
Weights between DRAFT LIMIT 1 and DRAFT LIMIT 2

DRAFT LIMIT 2

Draft 3
weight between DRAFT LIMIT 2 and the maximum weight

Maximum weight

Refer to the **DRAFT LIMITS** chart here on how the draft zones are set from the limits.

Press the **WEIGH MODE** key to scroll through until **WEIGH MODE: HI-SPEED** is displayed.
Note - the **WEIGH MODE** key requires quick presses to scroll through the options, if you stop pressing the key for a period you are returned to the main weigh screen.

Press the **DRAFT LIMITS** button and set your preferred drafting settings for:

DRAFT LIMIT 1

DRAFT LIMIT 2

MINIMUM WT (minimum weight) typically 0, set at 2kg it can help prevent misreads

MAXIMUM WT (maximum weight)

DRAFT DIRECTION select your preference from the 6 options, when its displayed its set.

Press enter and you will be returned to the main weigh window, set up is complete.

SETTING UP A TRU-TEST XR/ID3000

Navigation - Use the arrow buttons to move the highlighted block to the entry then press enter for options, arrow to the option you want and press enter

From the weigh screen, press ☒ ✓ (SETUP) to access the **Weighing Screen Setup** screen

Ensure both **FID** entries on the screen are set to off **X**, press ⓔsc when done

From the weigh screen, press ☒ ✓ (SETUP) then the blue soft key below the SYSTEM tab

This will take you to the **System Setup** screen, set the following:

> **DAMP SYSTEM:** **Super damp III (Sheep)**
>
> **WEIGHT RECORDING:** **Auto**

Press the back arrow ⬅ then the blue soft key below the DRAFT tab

---

This will take you to the **Drafting Setup** screen, set the fields shown here as follows:

> **DRAFTING:** **√ (on)**
>
> **DRAFTING RANGES:** **3** - if using 3 way drafter or set **6** if using the 6 way drafter
>
> **ICONS:** **Large Pen No**
>
> **DRAFT BY:** **Weight** (on XR3000, not shown on ID3000)

Enter your desired drafting weight ranges and "draft to pen" options:

RANGE	FROM	TO	PEN
1	0	15	1
2	15.1	24.0	2
3	24.1	40.0	3

Press the back arrow ⬅ twice to return to the main weigh screen.

Press ⓔsc and ☒ ✓ (SETUP) together to enter the **Specialised Setup** screen,

then press the blue soft key below the DAMPING tab and set the fields shown here as follows:

> **WEIGH TIME:** **1.5** - you may increase this value for greater accuracy
>
> **START WEIGHING:** **SCP Command**
>
> **DELAY:** **0**

To complete setup press the back arrow ⬅ twice to return to the main weigh screen.

Important

When using the XR/ID3000 with Iconix load bars the sensitivity and load bar capacities must be checked and changed if required to the values shown below. To do this press ⓔsc and ☒ ✓ (SETUP) buttons together then press the blue soft key below the CELL tab, and set the following:

Iconix IC2000	600 or 1000mm load bars	Capacity 2000kg	Sensitivity 1.325
Iconix IC3000	1000mm load bars	Capacity 3000kg	Sensitivity .9941

SETTING UP A GALLAGHER SMARTSCALE 800

Switch the main dial to **S** for set up

DRAFT MENU will display, press the **SELECT** soft key

DRAFTING OFF is usually displayed, press the **MODE** soft key until
3 WAY DRAFTING is displayed, each time you press the **MODE** soft key it will
cycle through the options from **DRAFTING OFF** to **9 WAY DRAFTING**.

Press the **▼** soft key and set your draft limits for each gate.

To change either a gate number or draft limit use the backspace button **⬅** to clear the existing
entry, then key in the new number using the keypad.
Note: Draft limits - always put the lesser value at the top and the larger value at the bottom.

When done, press the **OK** soft key

1. DRAFT MENU will display, as you are still in set up, press the **▼** soft key until
5. COMMUNICATIONS is displayed, press the **SELECT** soft key.

If not highlighted already, press the **▼▲** soft key to highlight the **Port 1** screen entry, press the
**CHANGE** soft key until the **Drafter Fast** option is displayed for it.

Press the **OK** soft key to save your changes and return to the set up menu.

Switch the mode select switch to **A** (automatic weight recording) and test your settings.

Mode select switch
Switch and scale colour may vary

Off
A — Automatic weight recording
M — Manual weight recording
F — Fine - To weigh static loads
S — Set up options
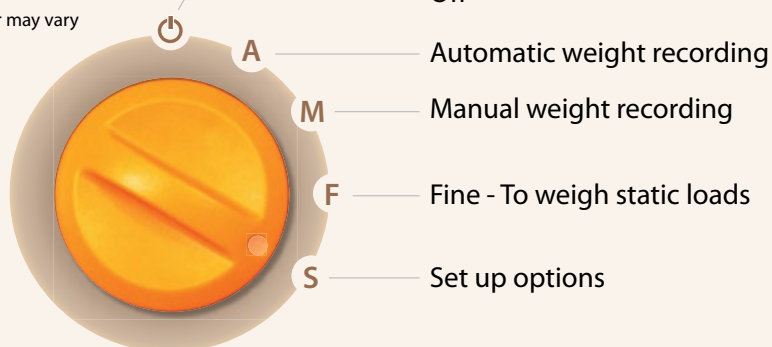
SETTING UP A GALLAGHER SMART TSi

Note: To connect your Racewell and a Gallagher TSi use either a Racewell-Gallagher coms cable (RWA1058) and the null modem adaptor (supplied by Gallagher) or use a Racewell-Te Pari Scale or TruTest scale coms cable (RWA1157)

Turn the indicator on and tap the **Options** tab.

Tap the **Connect Equipment** tab.

Tap the **Change** tab of the Port 2 box.

Tap the **Drafter** tab.

Tap the **Racewell / Te Pari** tab to choose it.
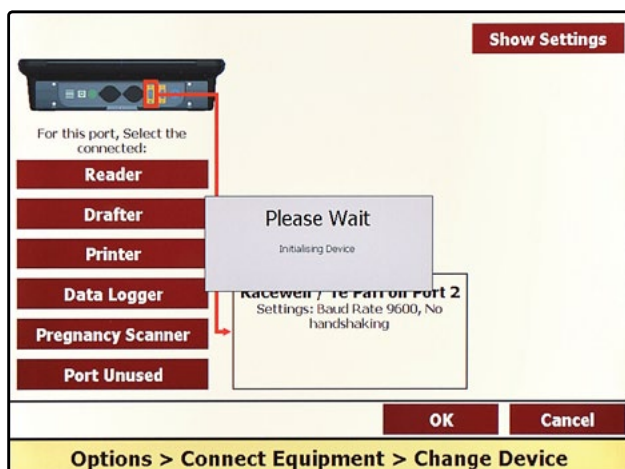
Tap the **OK** tab.

A **Please Wait** panel is displayed while it initialises.
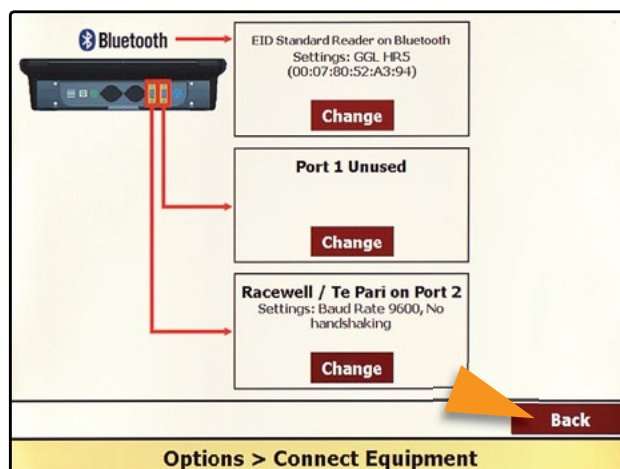
Once initialised tap the **Back** tab.
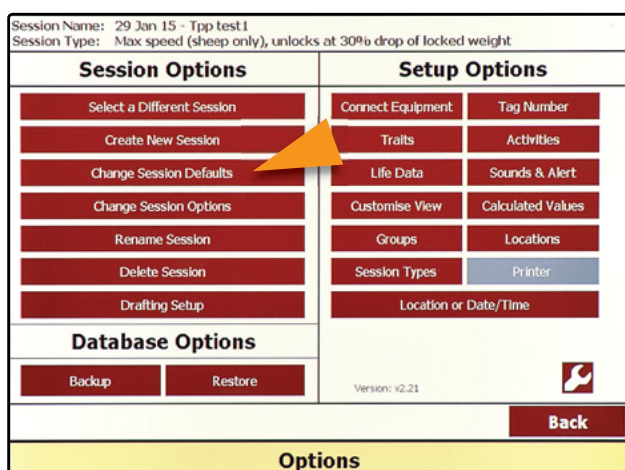
You are returned to the **Options** screen. Tap the **Change Session Defaults** tab to set your draft options.
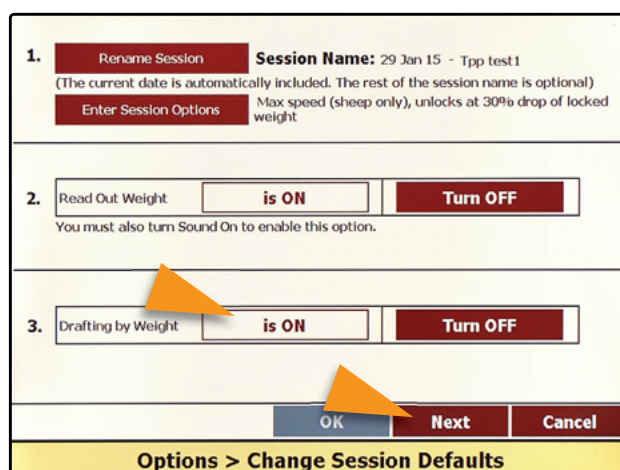
Ensure item **3. Drafting by Weight** is set to **is ON** Tap **Next** to proceed to set you weight ranges.
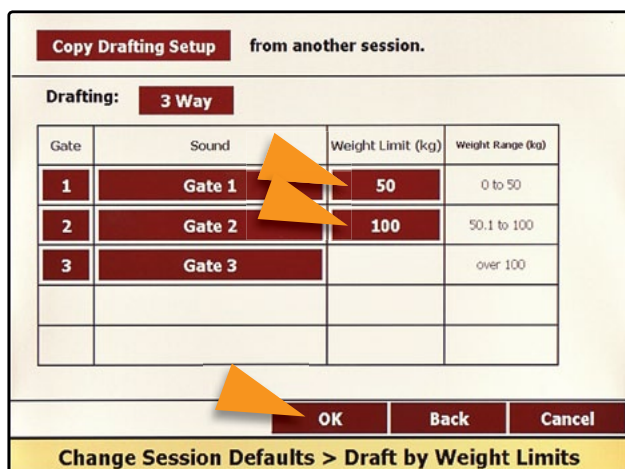
Tap the **Weight Limit (kg)** tab for each draft and key in the top weight for each. Weight ranges follow on from each other automatically. Tap **OK** when done.
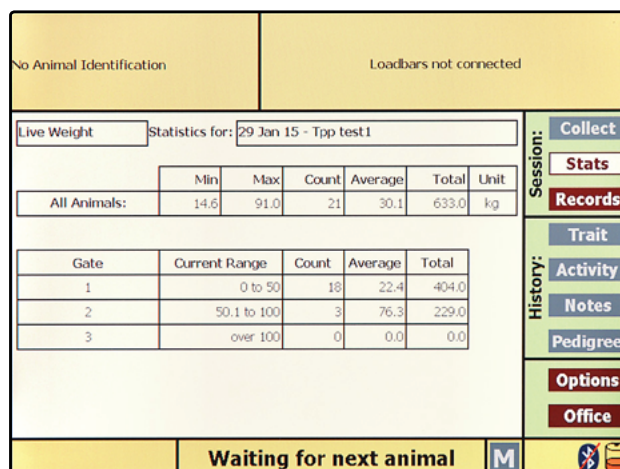
You are returned to the main screen to carry on.

USES FOR YOUR RACEWELL SHEEP HANDLING SYSTEM

Using the Racewell System for sheep handling is only limited by your imagination.
Here are some uses that we know the system is being used for:

- Crutching
- Culling
- EID - Applying or reading eartags for performance recording
- Ear Marking
- Weighing
- Auto drafting to pre-selected weight ranges.
- Inoculation
- Capsule drenching
- Trimming feet

- Blood testing
- Checking mouths and udders of 5 year olds, lambs etc.
- Ram harnessing
- Treating ram testicles or scrotum mange etc.
- Side sampling (sheep are held by the shoulders)
- Pour on/spray/wand dipping
- Electronic ear tag drafting

Our system has been developed with input from many farmer clients. At Te Pari we have a philosophy of ongoing improvement. If you have suggestions or comments you would like to make on our system we would be delighted to hear about them.

Warranty reply card
Te Pari Racewell HD Sheep Handling System

Please complete all details on the reverse and post to Te Pari Products office:

**Te Pari Products Ltd
New Zealand Head Office:**

9 Endeavour Crescent
PO Box 25, Oamaru, 9444
New Zealand.

TE PARI PRODUCTS WARRANTY

TE PARI

13.1 Subject to the conditions of warranty set out in clause 13.2 and 13.3 the Seller warrants that if any defect in any workmanship of the Seller becomes apparent and is reported to the Seller within twelve (12) months of the date of delivery for electronics, hydraulic and/or electrical components, and thirty-six (36) months for steel framework and componentry and hot dip galvanising (time being of the essence) then the Seller will either (at the Seller's sole discretion) replace or remedy the workmanship.

13.2 The conditions applicable to the warranty given by clause 13.1 are:

   (a) the warranty shall not cover any defect or damage which may be caused or partly caused by or arise through:

      (i)   failure on the part of the Buyer to properly maintain any Goods; or

      (ii) failure on the part of the Buyer to follow any instructions or guidelines provided by the Seller; or

      (iii) any use of any Goods otherwise than for any application specified on a quote or order form; or

      (iv) the continued use of any Goods after any defect becomes apparent or would have become apparent to a reasonably prudent operator or user; or

      (v) fair wear and tear, any accident or act of God.

      (b) the warranty shall cease and the Seller shall thereafter in no circumstances be liable under the terms of the warranty if the workmanship is repaired, altered or overhauled without the Seller's consent.

   (c) in respect of all claims the Seller shall not be liable to compensate the Buyer for any delay in either replacing or remedying the workmanship or in properly assessing the Buyer's claim.

13.3 No warranty will apply for any damage to electrical and/or electronic Goods which are not protected by a Residual Current Device (RCD), where the existence of an RCD could reasonably be expected to have prevented such damage.

13.4 For Goods not manufactured by the Seller, the warranty shall be the current warranty provided by the manufacturer of the Goods. The Seller shall not be bound by nor be responsible for any term, condition, representation or warranty other than that which is given by the manufacturer of the Goods.

13.5 To the extent permitted by statute, no warranty is given by the Seller as to the quality or suitability of the Goods for any purpose and any implied warranty, is expressly excluded. The Seller shall not be responsible for any loss or damage to the Goods, or caused by the Goods, or any part thereof however arising.

13.6 The conditions applicable to the warranty given on Goods supplied by the Seller are contained on the "Warranty Card" that will be supplied with the Goods.

13.7 In the case of second hand Goods, the Buyer acknowledges that he has had full opportunity to inspect the same and that he accepts the same with all faults and that no warranty is given by the Seller as to the quality or suitability for any purpose and any implied warranty, statutory or otherwise, is expressly excluded. The Seller shall not be responsible for any loss or damage to the Goods, or caused by the Goods, or any part thereof however arising.

Warranty reply card
TE PARI

Te Pari Racewell HD Sheep Handling System

Model	
Serial No	Purchase Date
Name	
Farm or trading name	
Address	
	Post code
Telephone	Fax
Email	

SERVICE RECORD

Model:

Serial number:

Date manufactured: /   /

Date Serviced:	/	/
Serviced By:		
Next Service Due:	/	/

Date Serviced:	/	/
Serviced By:		
Next Service Due:	/	/

Date Serviced:	/	/
Serviced By:		
Next Service Due:	/	/

Date Serviced:	/	/
Serviced By:		
Next Service Due:	/	/

Date Serviced:	/	/
Serviced By:		
Next Service Due:	/	/

Date Serviced:	/	/
Serviced By:		
Next Service Due:	/	/

NOTES

SHEEP HANDLER TROUBLE SHOOTING GUIDE

- Please check this trouble shooting guide before ringing service, often something quite simple will be the problem.

- A service charge will be made for call outs if the fault is not covered by your warranty.

- When testing the unit without sheep ensure at least one green an one black eye are covered, covering either of the green eyes on their own will only close the auto gate.

- Ensure the black potentiometer dial is not turned right down (anticlockwise) when testing.

- For your safety, and that of others, never leave the unit operational when not attended.

SYMPTOM No power at unit and it won't go	
Possible causes	**Possible solutions**
12v adaptor not getting power	Check the12v adaptor "jug" cord is firmly connected
Faulty extension cords to 12V adaptor	Check all extension cords
Faultly 12v Adaptor	Check for external damage to the adaptor and using a multimeter check the adaptor output is at least 11 volts
Faulty On/Off switch	Check the On/Off switch and wiring to it
Wire loose/off in autobox	Check wiring generally for breaks or chew marks
No air to unit	Check the air lines and compressor

SYMPTOM Sheep unit doing unusual things	
Possible causes	**Possible solutions**
Fluctuating power supply	Check power and compressor and for stable weight
Faulty Catch/Release switch	Check air lines and wiring
Faulty compressor	Check compressor is operating correctly

SYMPTOM Auto gate flapping	
Possible causes	**Possible solutions**
Magic eye/s obscured by dust or wool	Check the green magic eyes for dust on the lenses Also check they have no loose wool in front of them

SYMPTOM Sheep are not being caught	
Possible causes	**Possible solutions**
Eye not covered or in the wrong position	Ensure the green eye is covered Check the magic eye postions

SYMPTOM Older drafter working slowly or slamming (older units only with 3x Ø6mm pipes to drafter rams)	
Possible causes	**Possible solutions**
Faulty flow control	Flow control may need replacement
Ram pressure set incorrectly	Adjust pressure on service rams

SYMPTOM	Drafting the wrong way for preset weights or Drafting gates hit and stick together when on auto
Possible causes	**Possible solutions**
	Ensure the manual draft switch is in the central position

SYMPTOM	Everything works apart from the drafter
Possible causes	**Possible solutions**
Indicator not talking to drafter	Check coms cable between indicator and autobox for damage
	Ensure autodrafting option on your indicator is active

SYMPTOM	Parts of the unit are working slowly
Possible causes	**Possible solutions**
Constricted, broken or punctured air lines	Check the airlines
	Ensure no part of the unit is resting upon the airlines

SYMPTOM	Crush wall is not operating quickly enough
Possible causes	**Possible solutions**
Low air pressure	Check the compressor

SYMPTOM	Tilt going back or creeping over
Possible causes	**Possible solutions**
Faulty switch	Repair or replace the switch
Faulty solenoid	Replace solenoid
Air leak	Check joints and lines and remedy as required

SYMPTOM	Unit is not catching properly
Possible causes	**Possible solutions**
Low air pressure	Check compressor output is above 100psi at all times
Eye not working	Check magic eye and cables for damage
Dirty magic eye	Remove wool and/or dust from the magic eye lenses
Incorrect eye positions	Adjust positions so 1x green and 1x black eye get covered

SYMPTOM	Unit slowly releases after sheep are clamped
Possible causes	**Possible solutions**
Air may be leaking from the dump valve	Check for air leaks beneath the squeeze ram and on the black airline under the unit
Catch solenoid may be faulty	Check solenoid
Damage to cylinder piston	Check piston

SYMPTOM	Wall pressure is high all the time
Possible causes	**Possible solutions**
Faulty potentiometer	Check and adjust or replace as required

SYMPTOM	The unit is not holding the sheep
Possible causes	**Possible solutions**
The unit is designed to operate at 90-130psi	Check the ram adjustment on the moving walls allows the ram to apply pressure to the wall
	Check the increase/decrease knob on the dashboard is turned up enough
	Ensure any regulator on the compressor is set to maximum pressure or removed

SYMPTOM	Sheep slipping when wall is closed
Possible causes	**Possible solutions**
Potentiometer (increase/decrease knob)	Adjust upwards to increase pressure
Wall position	Ensure position is correct for animal size, when a sheep is held the top flat of the crush wall should be about vertical
Air leak	Check for air leaks to ram and replace hosing

SYMPTOM	Sheep are getting too far through the unit
Possible causes	**Possible solutions**
Wall not adjusted for animal size	Adjust the wall
Eye lengths are too short	Adjust eye length - minimum is 100mm
Potentiometer (increase/decrease knob)	Adjust upwards to increase pressure
Compressor	Check pressure is 100psi cut in and 120-130psi cut out
Air leak	Check if crush cylinder needs lubricating

SYMPTOM	Machine is closing without any sheep
Possible causes	**Possible solutions**
Dirty eyes	Clean eyes and ensure they are free from dust, wool etc.
Eye length is too long	Adjust length in holder

SYMPTOM	Reduction in air pressure
Possible causes	**Possible solutions**
Water trap filters	should be checked visually every 3 months and replaced as required

SYMPTOM	Remote control is not working properly or at all
Possible causes	**Possible solutions**
Flat remote control battery	Check and replace as required
Remote is not programmed to your unit	Program remote to your unit by turning on the unit then:
	For a 4 button remote press down buttons 1 and 2 for 10 seconds.
	For a 2 button remote hold down both buttons for 10 seconds.

SYMPTOM	Eyes are not working
Possible causes	**Possible solutions**
Faulty eye switch	Replace
Dirty or broken eye	Clean and re-check, replace if required
Eye cables broken or frayed	Replace cable from autobox to eyes

SYMPTOM	The indicator displays ------------
Possible causes	**Possible solutions**
There is a problem with the loadbars	Contact the manufacturer

SYMPTOM	Indicator readout is fluctuating or not zeroing
Possible causes	**Possible solutions**
Plugs not completely connected	Check the plug that goes over the loadbar collar is not preventing the pins from engaging properly
Plugs are damp	Check loadbar cables are firmly in place, don't over tighten
Battery is not adequately charged	Check for moisture - clean with methylated spirits
Unit is damp	Ensure dust caps are screwed together
Electrical interference	Check battery charge state
	Check indicator to unit cord
	Electrical interference from a short on a electric fence can affect your indicator
	Battery and unit charges must be kept dry

SYMPTOM	Not automatically drafting or releasing
Possible causes	**Possible solutions**
Comms cable fault	Communication cable from indicator to unit is damaged or has dirty terminals - clean terminals with CRC
Incorrect indicator settings	Communications cable is in the wrong port (Tru-Test)
	Check your indicator settings are correct

SYMPTOM	Tru-Test indicator displays "Wait for Trigger"
Possible causes	**Possible solutions**
Dirty eyes	Clean eyes
Faulty "Y" or Comms cable	Check the "Y" and Communications cables and the cables pins for damage, replace if required

SYMPTOM	Indicator not zeroing
Possible causes	**Possible solutions**
Tension in loadbars	Refer to the scale manual
	Loosen 4 top bolts on loadbars, if they settle theymay require a washer in 1 corner
	Loadbars may require servicing

Racewell HD3 - HD6 Sheep Handlers

The Revolution Drench Gun

- Battery powered for ease of use and reduced hand strain
- Improved drench performance with exact dose calculated from animals actual weight
- Eliminates costly over drenching
- Reduces drench resistance caused by under drenching

AVAILABLE NOW

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*"Thank you for your purchase, enjoy your new
Racewell Sheep Handling System" from the Te Pari team.*