



TE PARI

TE PARI
REVOLUTION
DOSING GUN

2018 Operational Manual - G10 and G20 models

The Te Pari Revolution Dosing Gun

Congratulations on your purchase of the new Te Pari Revolution Dosing Gun. This digital, self-powered dosing gun allows you to deliver fully-calibrated dosages with both accuracy and speed.

Difference between the G10 and G20 models

There are two Te Pari Revolution Dosing Gun models – the G10 standard model and the G20 smart model. Both the G10 and the G20 allow for dosages to be set manually using the digital keypad. The G20 can also connect to the Te Pari Scale System via Wi-Fi to automatically calculate and set the dose rate based on the weight of the animal. A G10 model can be upgraded to the G20 model at any time. Items and features only available with the G20 will be specified throughout this manual.

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Included with your Te Pari Revolution Dosing Gun







- A. Feed tube and two anti-kink coils
- B. Intellicharger – auto-sensing battery charger
- C. 12-volt power supply – for the battery charger
- D. Mains power supply – for the battery charger
- E. Spares kit with 1x piston O-ring, inlet and outlet valve assemblies, and valve retainer C-clip for outlet valve.
- F. Two high-quality 18650 lithium-ion batteries
- G. Blow moulded case for secure storage

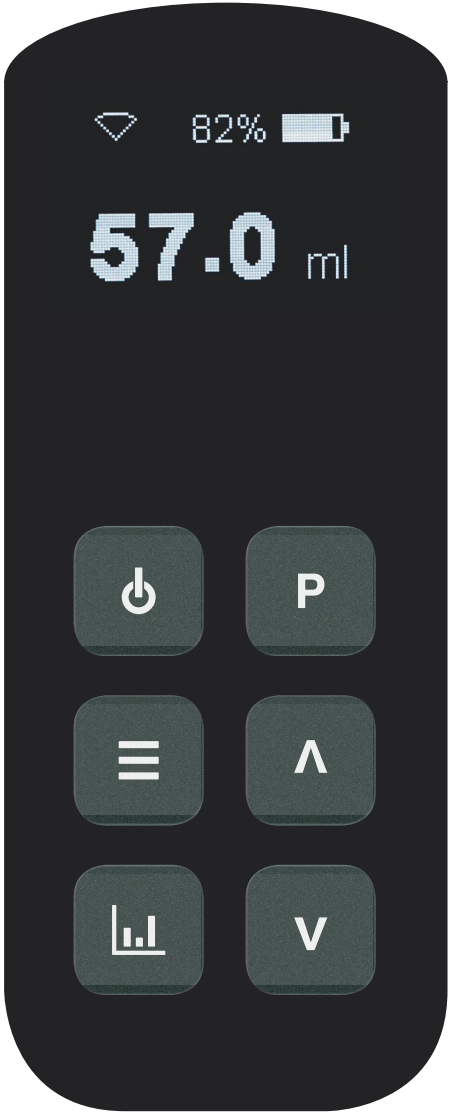






Overview of the control panel



Main screen




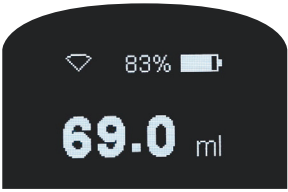
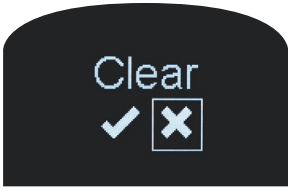

The current dose is prominently displayed at the top of the main screen. The top-left corner shows a Wi-Fi icon when it is active, and the top-right corner shows the battery level.


	<p>Power button</p> <p>Click once to switch on. Press and hold to switch off.</p>
	<p>Prime button</p> <p>Click to enter priming mode.</p>
	<p>Menu button</p> <p>Click through the options to access options for dose speed, refill speed, Wi-Fi (G20 only), sound and tick confirmations, and the barrel change sub-menu.</p>
	<p>Statistics button</p> <p>Shows how many doses have been administered and how much product has been used.</p>
 	<p>Up and Down buttons</p> <p>Used to increase or decrease values and change a selection when displayed. Most setting changes are made using these buttons.</p>

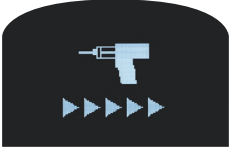


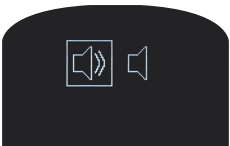
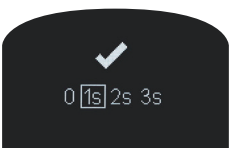


	<p>Power button</p> <p>Click once to switch on. The Te Pari logo, followed by the gun model and 2 brief safety warnings will be displayed before the main screen appears. Press and hold momentarily to switch the gun off.</p>		
			


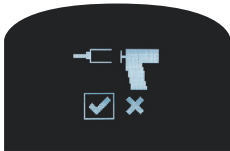
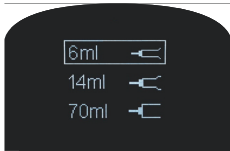
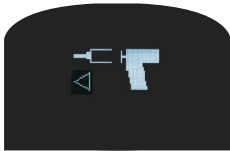
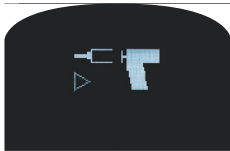

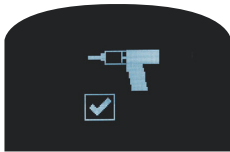
	<p>Prime button</p> <p>Click the prime button once. The word "Prime" will be displayed to show that the gun is in Prime mode.</p>		
		<p>Once the gun is in prime mode, pull and hold the trigger. The gun will dispense a full barrel load and then return to the retracted position and stop. Release, then pull and hold the trigger again to dispense another full barrel. Continue until fully primed. The trigger may be released to stop priming at any time during the cycle.</p>	

 	Up and Down buttons These buttons are used to increase or decrease values or to change a selection when displayed. Most setting changes are made using these buttons.	
		
	Changing the dose amount Clicking the up button once increases the dose by 1 ml (70 ml barrel) or 0.5 ml (14 ml barrel). Pressing and holding it scrolls the amount up quickly. The down button works in the same way.	
		
		Changing a selection Pressing either the up or down arrow will change the selection for the current item. The selected option is shown with a box around it.

	Menu buttons Each time the menu button is clicked, it cycles through the menu for access to the following items: dosing speed; Refill speed, Wi-Fi (G20 only), Sound, Tick Timer, and Barrel Change Sequence.
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	Refill Speed With the screen displaying the refill speed icon (arrows pointing right), press the up arrow to increase the refill speed or the down arrow to decrease the speed. The arrows will change to show the selected speed. This example shows maximum speed. Slower speeds are for thicker liquids and faster speeds for less viscous liquids.
	Dosing speed With the screen displaying the dosing speed icon (arrows pointing left), press the up arrow to increase the dosing speed or the down arrow to decrease speed. The arrows will change to show the selected speed. Slower speeds are best for thicker liquids and faster speeds for less viscous liquids.
	Wi-Fi (G20 only) With the screen displaying the Wi-Fi icon, press the up or down arrow to enable or disable Wi-Fi. When active the Wi-Fi icon will appear in the top left of the main screen. The number of filled bars show the signal strength. If no connection is available no bars will be displayed.
	Sound The gun can issue an audible double beep to confirm dose delivery, and a single beep to notify of a dose amount received via Wi-Fi. With the screen displaying the sound icon, press the up or down arrow to turn the sound on or off. This example shows the sound on.
	Tick Timer The Tick Timer shows a tick mark on the screen when a dose has been delivered. With the screen displaying the Tick Timer icon, select the length of time, in seconds, how long the tick should stay on screen. "0" is off and no tick will be displayed.

How to change the barrel

	<h2>Barrel Change Sequence</h2> <p>The barrel change sequence is the last item accessed from the menu button.</p> <p>You use it to change the barrel from the standard 70ml barrel to the smaller 14ml one. When you select the tick and press the menu button on this item you enter the barrel change sub menu described below. Pressing and holding the Menu Button at any time returns you to the main screen.</p>		
	<h3>1. Remove the barrel</h3> <p>The arrow flashes on the screen. Remove the barrel collar and remove the barrel. Press the menu button for the next step.</p>		<h3>4. Select the barrel size you are fitting</h3> <p>Use the arrow keys to select the size of the barrel being installed, then press the menu button to proceed to the next item. To avoid damage, it is important to ensure that the correct setting is selected for the barrel and piston size installed.</p>
	<h3>2. Remove the piston</h3> <p>The arrows flash on the screen. Remove the piston by holding down the trigger of the gun and gently pulling it out. Press the menu button for the next step.</p>		<h3>5. Fit the optional barrel</h3> <p>Fit the new barrel to the gun with the collar. Press the menu button to complete the sequence.</p>
	<h3>3. Load the piston for the smaller barrel</h3> <p>The arrows flash on the screen. Load the piston by holding down the trigger of the gun and gently pressing it in. The piston stops in the "Home" position and the screen automatically advances to the next step.</p>		<h3>6. Barrel change complete</h3> <p>The screen displays a gun icon with a tick to show the process is complete. The gun saves the changes and automatically returns to the main screen.</p> <p>Note: When using the 14 ml barrel, dose increments change to 0.5 ml.</p>

Barrel size, dose amount and delivery specification

70 ml Barrel:
Doses of 5 to 300 ml. Dose-volume increments of 1 ml. Volumes from 71 to 300 ml delivered in up to 5 sequential shots.

14 ml Barrel:
Doses of 1 to 28 ml. Dose-volume increments of 0.5 ml. Volumes from 14.5 to 28 ml delivered in 2 sequential shots.

6 ml Barrel:
Doses of 1ml to 12ml. Dose volume increments of 0.1ml. Volumes from 6ml to 12ml delivered in two sequential shots.

Sequential shots:
These are delivered automatically and immediately after the first shot with just the one trigger click until complete dose has been administered.



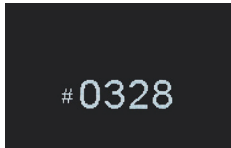
Statistics button

The statistics button shows the amount of dose left in the pack and the total number of doses administered. Each press scrolls through the various items.



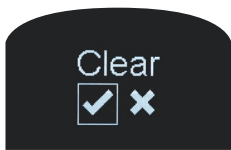
Volume of administered dose

Shows the total volume of dose administered.



Number of doses

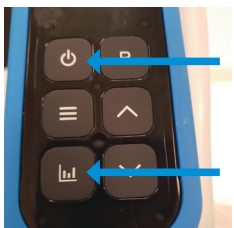
Shows the total number of doses administered.



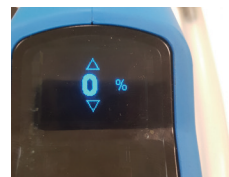
Clear stored statistics

With the screen displaying the clear icon, press the up or down arrow to select the tick or the cross. With the tick highlighted, press the menu button. The display will return to the main menu, and the number of doses and volume statistics will be reset to 0.

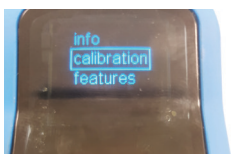
To Calibrate the Gun if giving incorrect dose



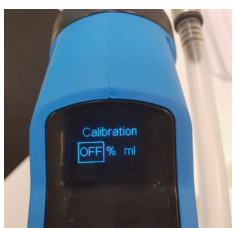
1. Press the stats and the power buttons simultaneously



4. Press the menu button again and use the up and down to set the % amount or the ml. To save this, press menu again.



2. A screen with "Info, Calibration, Features" will appear. Scroll to "Calibration" and press menu.



3. Using up and down arrows, choose percentage(%) or the ml as required.

5. Restart the gun and resume dosing.

Charging the batteries

The Te Pari Revolution Dosing Gun is supplied with an intelligent charger that can recharge both 18650 lithium-ion batteries at once.

- ◆ Remove the battery clip from the base of the gun handle by squeezing in both sides of the clip and gently pulling the clip out.
- ◆ Fit each of the batteries into the charger by pulling down the spring loaded retainer, slotting the battery in, and then releasing the retainer. The negative terminals go on to the spring loaded end, with the positive terminals going nearest the lights.
- ◆ Connect the charger to a standard mains supply using the cable provided and switch on. The charger's lights will run up and down while the battery type, state, and charge required is determined. A 12-volt cigarette lighter cable is also provided to power the charger in a vehicle. The charger's lights will flash slowly in orange showing the charge progress. When all three LED lights are lit a steady green the batteries are fully charged and ready for use.
- ◆ Before reloading the batteries, ensure that the contacts inside the gun's battery clip are clean and dry.
- ◆ Squeezing the sides of the battery clip, push it back into the gun handle. The clip only fits into the gun in one direction; with the curved end facing forwards.
- ◆ Ensure that the polarity symbols match (+ to + and - to -) as marked on the clip and the batteries.



- A. Gun handle bottom
- B. Battery clip. Squeeze the sides of the tabs on the clip to remove or refit into the handle. Note the white terminal markings.
- C. The two lithium-ion 18650 batteries. On this type, the black band is on the positive end, but this may vary from other makes, so be sure to check before fitting.
- D. The curved end of the clip goes to the curved end of the handle when refitting the battery clip.
- E. Orange flashing lights showing that the batteries are charging and their state of charge.
- F. Three green steady lights mean the batteries are fully charged and ready for use.



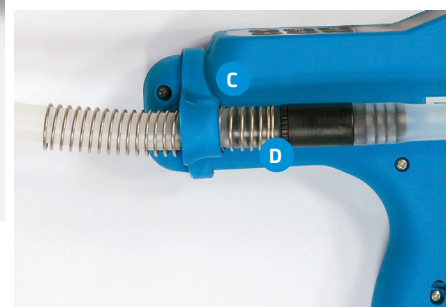
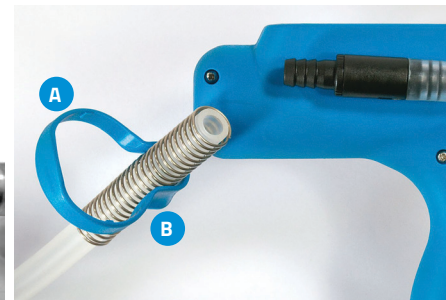
Note: Please use only the supplied batteries.

Preparing the gun for use

- ◆ Connect the feed tube from the gun to the fluid container. See instructions below.
- ◆ Set the gun to prime.
- ◆ Press and hold the trigger until fluid fills the barrel.
- ◆ Point the tip of the gun vertically to remove the last of the air from the barrel.
- ◆ Press the prime button to return to the main screen.
- ◆ The gun is now ready for use.

Warning: Exercise caution when dispensing fluids.

Pre October 2018 Gun



Fitting the feed tube

- Unclip the retainer and fit the feed tube with anti-kink coil through it.
- Press the tube and coil snugly into the retainer recess, with the retainer's flared end pointing backwards.
- Refit the clip with the hose and coil fitting over the attachment.
- Ensure the valve housing knurled ring is snug and has not loosened while fitting the tube and coil.

Using the gun in manual mode

Use the up and down buttons to select the dose amount you wish to administer. Press the trigger to dispense the dose. Dose amounts above 70 ml will be dispensed in two half amounts. The gun will automatically deliver the second dose directly after the first.

Using the gun in auto mode (G20 only)

Note: Please ensure the Wi-Fi is turned off when not in use – this will prolong battery life.

Set up your Te Pari Scale for auto dosing as shown on page 10.

Ensure that the gun's Wi-Fi is enabled to allow the gun to automatically connect to the scale. Each time a weight is recorded the scale will calculate the dose size based upon the animal's weight. The calculated dose size will be sent to the gun and will display on the main screens of both the scale and the gun.

Press the trigger once to dispense the dose. Dose amounts above 70 ml will be dispensed in separate amounts. The gun will automatically deliver the second dose directly after the first.



Set Te Pari Scale Indicator use with Te Pari Dosing Gun

1. When you turn on the Te Pari scale indicator, you will see a welcome screen and then the file list. Press "Set Up Weigh"
2. Scroll to DOSING using Arrows
Press Record/select
3. Dose 1 set to On using > (press once to turn on and press again to turn off)
4. Name – Key in the drench Name using keypad
5. Type – Select calculated does or fixed dose using (press once to select calculated dose and again to select fixed dose)
Rate – Set using numerals and > (xxml/xxxxkg = ml Per Kg)
6. Using arrow keys scroll to save and exit
Press record/select
This will return you to your main screen and your scale is set up to communicate with your Te Pari Dosing Gun



Gun Set Up

Turn gun on

Press menu Button 3x and you will find Wifi screen

7. Make sure WiFi is turned on using Up key

8. Gun will automatically return to the dosing screen after a few second and if you are connected it will show in the top left hand of the screen

Care, Maintenance and Storage

To ensure the continued high performance of your gun always clean and lubricate the gun immediately after use.

Start by reading the cleaning instructions provided by the fluid manufacturer.

Remove the inlet tube from the fluid container and empty the fluid from the gun and inlet tube.

Place the end of the inlet tube in a mixture of warm water and a little dishwashing detergent, then flush about 1 litre through the gun until it is clean. Flush again with clean water.

Inspect the inlet valve and outlet valve and ensure they are clean.

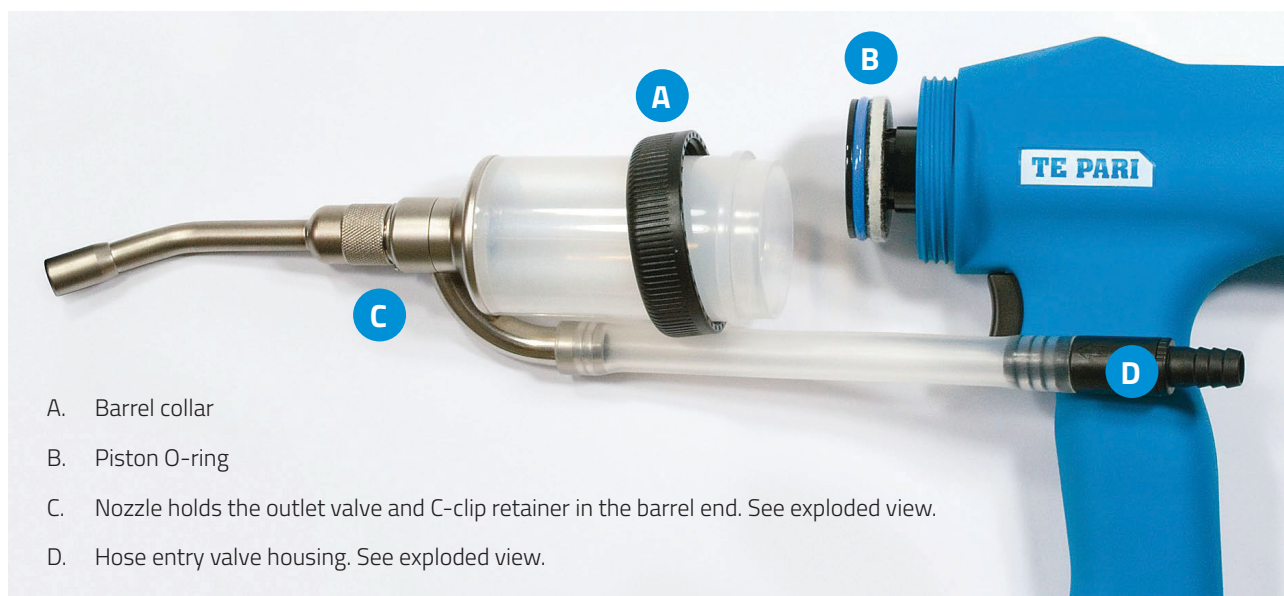
Remove the barrel and wipe any residue from the barrel with a soft tissue.

Important – Lubricate the valves, piston O-ring, and barrel with a small amount of vegetable oil after cleaning and before storing the gun.

Periodically remove the valves and wash in warm water and dishwashing detergent. To access the inlet valve, unscrew the front of the inlet valve housing. To access the outlet valve, remove the nozzle and cap then use a small screwdriver to release the C-shaped valve retainer, being careful not to damage it. Be sure to refit it after cleaning as the outlet valve will not function without it. Wipe the exterior of the gun with a damp cloth and dry off. Do not submerge the gun in water when cleaning.

Store the gun in a clean, dry place, out of direct sunlight. Recommended storage temperature is from -10° to 35° C (14° to 95° F). Store above 0° C for optimum battery performance.

If batteries are in a low charge state, fully charge them before storage. Remove the batteries before storing the gun.

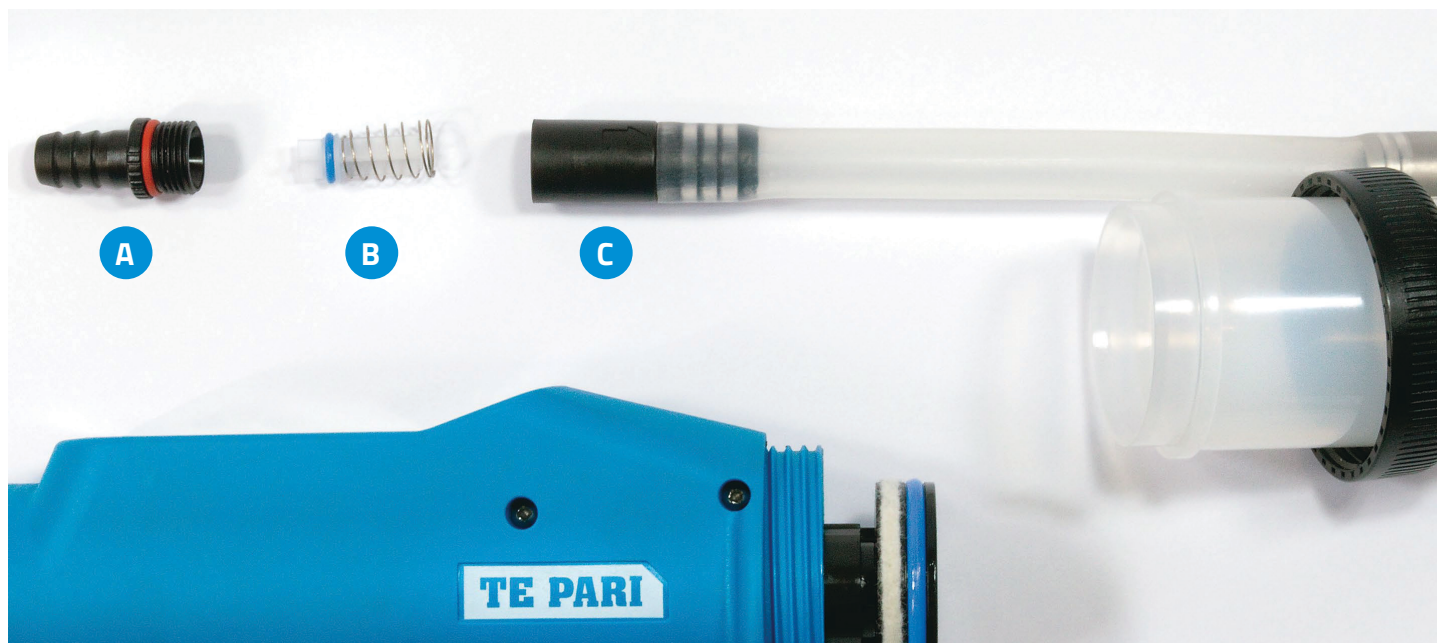


- A. Barrel collar
- B. Piston O-ring
- C. Nozzle holds the outlet valve and C-clip retainer in the barrel end. See exploded view.
- D. Hose entry valve housing. See exploded view.

- A. The main barrel can be easily separated from the body to aid in cleaning and maintenance by undoing the barrel collar. Do not over tighten the barrel collar and ensure all O-rings and felt washers are fitting correctly when refitting.

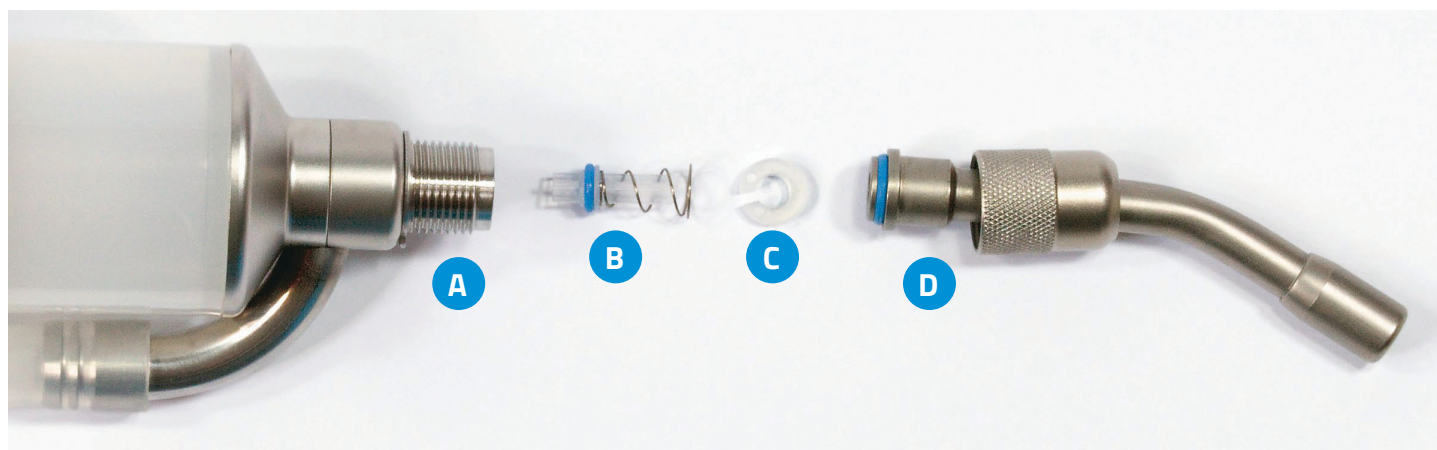
Exploded views of inlet and outlet valve assemblies

Note: The gun will not function correctly or at all if the valves are in the wrong way around.



Inlet assembly – entry hose end

- A. Inlet valve connector
- B. Inlet valve and spring. The inlet valve is the larger of the two valves. (70 ml barrel only)
- C. Inlet valve housing



Outlet assembly – nozzle end

- A. Barrel exit
- B. Outlet valve and spring. The outlet valve is the smaller of the two valves. (70 ml barrel only)
- C. Valve retaining C- clip
- D. Nozzle with screw collar and O-ring

Te Pari Products Warranty

The company warrants that the product you have purchased is free from defects in materials or workmanship under normal use during the limited warranty period.

The warranty period starts on the date of purchase from the company or authorised gun agent. Please keep the dated sales receipt for proof of purchase as you may be required to provide proof of purchase as a condition of receiving warranty service.

The gun has a 1-year limited warranty. The rechargeable batteries have a 1-year limited warranty. The battery warranty does not cover changes in battery charge capacity and is limited to defects in materials or workmanship resulting in battery failure.

During the limited warranty period the company will repair or replace the defective component or product. All components removed under this warranty become the property of the company. The replacement component will take on either the remaining warranty period of the removed component or a ninety (90) day limited warranty for the spare part, whichever is longer. The replacement component may be manufactured from new or used materials equivalent to new in performance and reliability. The company reserves the right to improve or modify products from time to time without assuming obligation to modify products previously manufactured.

The company is not responsible for damage that occurs as a result of (1) failure to follow the instructions that came with the product; (2) accident, misuse, abuse or other external causes; (3) voltage surge or lightning strike; (4) modification, tampering or service by an unauthorised service provider.

Normal wearing parts requiring replacement or adjustment are not covered by this warranty. These parts include but are not limited to: O-rings, springs, bearings, motor brushes, and tubing.

The company is not liable for any damages or personal injury caused by the product or the failure of the product to perform, including any damage or loss of data on the product or computer.

The maximum liability of the company under this limited warranty is limited to the lesser of the cost of repair or the replacement of the product.

In the event of the product requiring servicing under the terms of the warranty, contact your authorised dealer. The product is to be returned to the service centre at the expense of the purchaser.

These conditions constitute the complete and exclusive warranty and supersede all other warranties, representations or conditions relating to this product.

Warranty reply card

Te Pari Revolution Dosing Gun



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

Notes:

Warranty reply card
Te Pari Revolution Dosing Gun



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

Te Pari Products Ltd

New Zealand Head Office

PO Box 25, 9 Endeavour Crescent
Oamaru
9444
New Zealand

Health and Safety – Warnings

- ◆ Because the toxicity and precautions required for the handling of agricultural health fluids varies, follow the manufacturer's recommendations in regard to protective clothing, eye wear and handling precautions for the fluid being administered.
- ◆ Always be cautious when dispensing fluids.
- ◆ Always handle agricultural fluids with care.

Revolution Dosing Gun cautions

Gun

- ◆ Operating temperature for the gun is between -10° to 40° C (14° to 104° F).
- ◆ The gun is environmentally sealed and meets IP53 standards.
- ◆ Keep the gun as dry as possible, drying it off if it becomes wet.
- ◆ Do not submerge the gun.
- ◆ Do not tamper with or remove the case screws as this will void the warranty.

Batteries

- ◆ The gun is designed to use two 18650 lithium-ion rechargeable batteries. Only use approved batteries.
- ◆ Dispose of used batteries according to the manufacturer's instructions.
- ◆ Do not heat above 50° C (122° F).
- ◆ Do not dispose of in fire or crush, puncture or directly short circuit.
- ◆ Keep batteries clean and dry.

FCC Notice

This device complies with part 15 of the FCC rules for Class A digital devices. It can generate, use and radiate radio frequency energy, and if not used in accordance with the instructions may cause harmful interference to radio communications. In a residential area it may cause harmful interference, which will be required to be corrected by the user at their own expense.



Cautions



Read all safety warnings and notices and instructions before use.



Do not dispose of electric tools with household waste material.



Contains lithium-ion batteries.

Thank you for purchasing a Te Pari Revolution Dosing Gun. If any issues arise with its use, please do not hesitate to contact our Support Team by phone or online, we are here to help.

– The Te Pari Team



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