

# 2018 Reporoa Herdflow Gate

# Yard Wash

# Operations &

# Maintenance Manual



# Table of Contents

- Introduction..... 3**
- WARNINGS!!! ..... 3**
- How to Operate the REPOROA HERDFLOW® Yard Wash System. ....**
- 4 1. Normal Yard Wash..... 4**
- 2. Wash Where is ..... 4**
- 3. Sprinkle Mode Down ..... 4**
- 4. Sprinkle Mode Up..... 4**
- Maintenance Requirements..... 4**
- Fault Finding..... 5**
- 1. Yard Not Washing Properly..... 5**
- 2. Booms Not Running Smoothly Over Concrete Yard or Jamming ..... 5**
- 3. Booms Not Lifting Evenly or Stopping in Correct Position..... 5**

## Introduction

Thankyou for purchasing a **REPOROA HERDFLOW® GATE** and **REPOROA HERDFLOW®** Yard Wash System. Your gate and wash system have been designed to work together to manage your herd and provide an automated yard cleaning &/or wetting system before, during &/or after milking.

This manual is designed to: ensure you operate your **REPOROA HERDFLOW®** Yard Wash System efficiently and effectively to achieve a clean collecting yard and to maximise the life of the *DUNGBUSTER™* wash booms. It provides operational guidelines, maintenance requirements, fault finding and emergency procedures if you lose electricity.

## WARNINGS!!!

⚡ Electrical ⚡⚡⚡⚡

**Do not open any control boxes. Call your Electrician.**

📦 Mechanical 📦

**Keep hands a clothing well away from all the lifting axle.**

**Check the yard for large stones that have the potential to jam the wash booms while in operation**

**Check the Gate Lifting Ropes at Least Monthly**

# How to Operate the REPOROA HERDFLOW® Yard Wash System.

## 1. Normal Yard Wash

Push the wash button once at any time. Your gate has been programmed on the push of the wash button to lift up, travel to the correct end of the yard, lower the gate, lower the DUNGBUSTER™ wash booms on to the concrete, turn on the water and slowly travel down the yard and wash the concrete. To wash the yard twice push the wash button twice in quick succession. On completion of the wash the water will turn off, the wash booms will lift up and the gate will lift up ready for the next cow herd to enter underneath the gate. To pause the wash operation push the stop button once. To start it again push the stop button again.

## 2. Wash Where Is

Push and hold the wash button for 4 seconds. The gate will wash from where it is and complete the normal wash cycle.

## 3. Sprinkle Mode Down

If the gate is travelling forward or reverse and the gate is at the up limit, press and hold the up button for 4 seconds and the water solenoid will open any time the gate is moving allowing you to wet yard or cows. To cancel this either push & hold the up button for 4 seconds or lower the gate.

## 4. Sprinkle Mode Up

While gate is down & being used to herd the cows (wash booms are lifted) push and hold the down button for 4 seconds and the gate will wet the yard each time (pulse forward) and/or as it moves forward or in reverse to keep the yard wet as it does its job. To cancel this push & hold the down button for 4 seconds while the gate is in the down position.

## Maintenance Requirements

1. Grease the Lifting Axle Bushes Monthly
2. Put a little grease on the sliders monthly.
3. Check the lifting ropes monthly for fraying or loose knots.
4. Dismantle and check the water filter monthly. Wash out if necessary.
5. Tighten any bolts or Allen keys as necessary.

# Fault Finding

## 1. Yard Not Washing Properly

### a. Booms not resting evenly and fully on concrete yard

- i. Ensure there is 50mm of slack lifting rope when booms are down over the whole length of the yard. Adjust on the lifting collars using an Allen key.
- ii. Sliders not lowering evenly – ensure they are straight and the internal sliders travel freely and apply a little grease.

### b. Not enough water flowing through the booms

- i. Check the filter – clean if necessary.
- ii. Check the holes in the booms while in one of the sprinkle modes. Flush booms by removing bung at end and using a high pressure hose. Clean holes using a suitably sized wire if holes are blocked.
- iii. Ensure pump flows are adequate. Needs 30l/minute/metre of boom and approximately 35 psi at boom inlet.
- iv. Check for leaks in between pump and boom outlets.

### c. Blades worn.

- i. If blades are worn out and the metal of the booms is in direct contact with the concrete yard scraping will be compromised and washing efficiency reduced.

## 2. Booms Not Running Smoothly Over Concrete Yard or Jamming

### a. Check yard for stones.

- i. Stones may jam between booms and concrete. Usually the booms will either push the stones along in front or jump over them.

### b. Worn Blades – see 1c above.

## 3. Booms Not Lifting Evenly or Stopping in Correct Position

### a. Check lifting ropes

### b. Check position of proximity sensor. (if fitted) (on Crowd Gate only)

### c. Ensure proximity sensor is operating (if fitted) (on Crowd Gate only)

- i. Sensor should always show a light.
- ii. Check touch screen does not show a fault.
- iii. Consult your electrician.