

nomix frontlinecompact

The Click & Spray
low volume
TDC herbicide
application
system

INSTRUCTIONS



nomix
enviro



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Section 1: Introduction

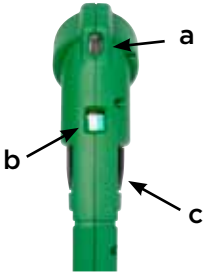
The Frontline Compact is a lightweight hand-held low volume herbicide applicator, designed for use with our range of Nomix Total Droplet Control (TDC) herbicides. Nomix TDC is a unique system, combining pre-mixed, highly effective herbicides with easy to use, efficient applicators.

Nomix TDC delivers a constant, uniform droplet size and spray pattern, significantly reducing run-off and virtually eliminating spray drift and droplet bounce. In times of increased environmental and legislative pressure, the Frontline Compact delivers efficient, compliant, cost effective and accurate herbicide applications every time.

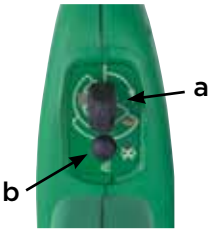
Nomix TDC herbicides are supplied in 750ml cartridges that connect directly to the lance. This eliminates the need to carry a heavy knapsack, as with conventional applicators. This system is ideal for use where smaller volumes of herbicide are applied.



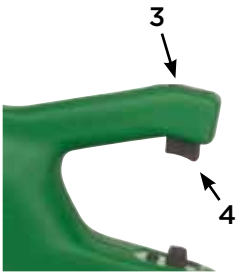
Section 2: Component List



- 1** Spray head
- a) Flow rate window
 - b) Flow rate indicator
 - c) Flow rate control



- 2** Control panel
- a) Spray width control
 - b) Pacing control



- 3** Trigger lock

- 4** Trigger



5 Spiral disc



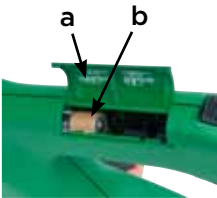
6 Square disc



7 Serrated disc



8 Disc ejector tool



9 Batteries
a) Battery housing
b) Batteries



10 Battery charger unit

Section 2: Component List (cont.)



- 11 Herbicide cartridge



- 12 Calibration cup



- 13 Wall hooks



- 11 Carry case*

* This item does not form part of our standard components. It can be purchased from Nomix Enviro. Please telephone 01264 388050.

Section 3: Quick Start



- 1 Charge the batteries for a minimum of five hours
- 2 Select an approved Nomix TDC herbicide
- 3 Shake the herbicide cartridge vigorously for at least one minute
- 4 Insert the cartridge into the end of the lance and secure it with the retaining clip
- 5 Prime your Frontline Compact

Section 3: Quick Start (cont.)



- 6 Calibrate your Frontline Compact



- 7 Select a disc

Spiral - Narrow spray



Square - Medium Spray



Serrated - Wide Spray

- 8 You are ready to spray

Please Note: For full operator instructions, always refer to sections 4 & 5.

Personal Protective Equipment (PPE)

The minimum PPE recommended for use is:

- Coveralls
- Suitable protective gloves
- Wellington boots.

Always refer to the herbicide product label for the recommended PPE.

Inserting the batteries

Ensure the batteries are charged prior to use. Insert the four rechargeable AA batteries (included) into the battery compartment. Slide open and lift the battery compartment, then insert the batteries in the sequence shown.

Please Note: The Frontline Compact uses rechargeable batteries. In order to prolong the battery life, please remove the batteries before storing the Frontline Compact.





Inserting the herbicide cartridge

- Select an approved TDC herbicide.
- Read the label for full product information and application rates.
- Shake the herbicide cartridge vigorously for at least one minute.
- Hold the lance with the spray head pointing down.
- Insert the herbicide cartridge into the end of the lance and push it in.
- Close the retaining clip to secure.



Priming

ALWAYS PRIME THE LANCE BEFORE USE

Priming fills the lance with herbicide and removes air bubbles, which could interrupt the chemical flow or cause the lance to drip.

- Ensure there is no disc attached. If a disc is present, remove it using the disc ejector tool.
- Turn the variable spray width control to the 'Off' (12 o'clock) position.
- Set the flow rate indicator on the spray head to 'Prime'.





- Attach the calibration cup to the spray head, ensuring correct orientation.
- Squeeze the trigger until the herbicide is visible in the flow window (approx 20 seconds). Release the trigger to stop the flow once the herbicide window is full.
- Once primed, invert the lance, squeeze the trigger and allow the fluid to empty from the calibration cup.
- When the calibration cup is empty, release the trigger.

Calibrating

Please Note: For full calibration information, always refer to the instructions on the product label.



- With the calibration cup attached, set the flow rate control to the required gauge setting (A-G).
- Point the lance downwards.
- Squeeze the trigger.
- Time the flow into the calibration cup for 30 seconds, or as per product label instructions. Release the trigger to stop the flow.
- Take a reading of the herbicide level on the calibration cup.
- If there is too little fluid, turn the flow rate control anti-clockwise to increase the amount. If there is too much fluid, turn the flow rate control clockwise to reduce the amount.
- Return the fluid by inverting the lance and squeezing the trigger.




Section 4: Preparing for Use (cont.)

- Release the trigger when the calibration cup is empty.
- Repeat the cycle until the required amount of fluid obtained.
- Return the fluid as before and remove the calibration cup.
- Clean and store the calibration cup for future use.
- The Frontline Compact should be recalibrated if you change herbicide, spray width, application rate or forward speed.
- Calibration should be completed with the herbicide to be used, not with cleaner.

Selecting a disc

Select a disc and connect it to the head of the lance by placing it onto the spindle and pushing it until secure.



Disc	Spray Width	Recommended areas of use
 Spiral	15cm - 30cm (6" - 12")	Spot treatment, narrow trim and edge work
 Square	30cm - 75cm (12" - 30")	Trim and edge work, spot treatment and fence lines
 Serrated	75cm - 100cm (30" - 40")	Broadcast spraying



Spraying

- Hold the lance in a comfortable operating position.
- Set the spray width control to the required disc setting.
- Walk at a moderate pace of 3.6 kph (2 1/4 mph). To help maintain this walking speed, press the pacer button. There will be a beep at regular intervals. Take a 75cm pace at each beep.
- Squeeze the trigger to begin spraying.
- Always clean the lance at the end of a day's use. (Refer to section 6).

Avoiding Spray Drift

The Frontline Compact produces uniform droplets and significantly reduces spray drift. However, care should always be taken to avoid drift, particularly when using wider spray width settings. If the spray pattern is being affected by wind, do not spray until the wind drops.

Optimum Spray Pattern

Just a few drops of Nomix TDC herbicide will control weeds. This is the optimum spray pattern.



- Under applied.
- Optimum spray pattern.
- Over applied.

Section 6: Cleaning



Please Note: You MUST clean the Frontline Compact lance at the end of each day's spraying and also before using a different herbicide. The ONLY way to clean the lance is with specially formulated Nomix Universal Cleaner.

Always refer to the Code of Practice for full instructions on the cleaning of herbicide application equipment.

- Switch the spray width control to the 'OFF' position.
- Invert the lance and press the trigger until all the herbicide has drained back into the cartridge. Release the trigger.
- Hold the lance and the cartridge on the ground and sharply pull up the retaining clip, allowing the lance to lift clear. Always keep a cloth handy to wipe off any excess herbicide from the cartridge housing.
- Replace the protective valve cap on the cartridge.
- Insert the cleaner cartridge into the lance, push it firmly into place and secure it using the retaining clip.
- Set the spray head to 'prime' and squeeze the trigger.
- Run cleaner through the lance with the settings in the 'prime' position until the liquid runs clear. Spray on an approved site or collect liquid for disposal.
- Remove the cleaner cartridge from the lance and spray until the flow window is empty.

THE LANCE WILL CONTAIN HERBICIDE UNTIL CLEANED

Section 7: Storing



- Always remove the cleaner cartridge from the lance before storing and ensure the trigger lock is in the off position.
- We recommend removing the batteries between sprays, in order to preserve the battery life.
- Remove the disc using the disc ejector tool.
- Store the herbicide cartridge upright with the protective valve cap in place. Avoid freezing or high temperatures.
- Keep out of the reach of children.
- Do not store other objects on top of the lance. The lance may be wiped over to keep it clean but DO NOT immerse the spray head in water.
- To help prolong the life of the lance, store the lance with the spray head pointing downwards. Use WD40 on the spray head for winter period dormancy.
- Hooks are provided for wall storage of the Frontline Compact.
- An applicator carry case is available to purchase from Nomix Enviro.

Nomix Enviro recommends that this equipment is serviced annually. Where possible servicing should be completed at the end of the spraying season.

Section 8: Recharging the Batteries



- The Frontline Compact uses rechargeable AA batteries. Batteries and a battery charger unit are supplied with the lance.
- The batteries must be charged before being connected to the lance. The typical charge time for AA batteries is five hours.
- The battery charger unit can be powered through the mains, car lighter socket or any device with a USB port, such as a computer.
- The backlit LCD screen shows the charging status of each battery independently.
- It is recommended that you recharge the batteries after each full day's use.
- When charging has completed, insert the batteries into the battery compartment and secure them by closing the housing. (It is important to connect the batteries before inserting the herbicide cartridge).
- The batteries should be removed from the lance between sprays, in order to preserve the battery life.

Section 9: Safety Tips

- Always wear suitable PPE. (See product label for full details).
- NEVER squeeze the trigger when the spray head is near your face.
- If a leak occurs on any part of the lance, STOP spraying immediately. Dispose of the herbicide as directed on the product label and inform Nomix Enviro or your distributor.
- Always fit the protective valve cap onto the cartridge after use.
- Take care not to spill herbicide. Always test the Frontline Compact in a bunded area or on waste ground, away from ponds, drains, streams and ditches.
- Remove the batteries between sprays, in order to preserve the battery life.
- Always follow the instructions in this manual.

ALWAYS READ THE LABEL

USE PESTICIDES SAFELY

Section 10: Troubleshooting

Symptom	Potential Problem	Solution
Motor keeps running when the trigger is released	<ul style="list-style-type: none"> • Trigger lock on 	<ul style="list-style-type: none"> • Release trigger lock
Head drips when the trigger is released	<ul style="list-style-type: none"> • Air bubble in the lance • Valve sticking open 	<ul style="list-style-type: none"> • Reprime lance • Contact Nomix Enviro
Head drips when the trigger is pressed	<ul style="list-style-type: none"> • Disc not fitted • Disc not spinning • Too much herbicide reaching disc 	<ul style="list-style-type: none"> • Refit disc • Check batteries • Recalibrate
Disc will not turn	<ul style="list-style-type: none"> • Batteries not inserted correctly • Batteries flat • Motor burned out 	<ul style="list-style-type: none"> • Reinsert batteries correctly • Recharge batteries • Contact Nomix Enviro
No or low herbicide flow	<ul style="list-style-type: none"> • Valve/inline hose blocked with dried chemical • Thick herbicide 	<ul style="list-style-type: none"> • Set head to Prime and follow cleaning procedure • Follow cleaning procedure and shake herbicide cartridge for a minimum of 2 minutes
Poor droplet pattern	<ul style="list-style-type: none"> • Batteries flat 	<ul style="list-style-type: none"> • Recharge batteries
Debris around disc	<ul style="list-style-type: none"> • Requires cleaning 	<ul style="list-style-type: none"> • Remove disc using disc ejector tool, clean and replace
Spray disc does not fit	<ul style="list-style-type: none"> • Disc damaged 	<ul style="list-style-type: none"> • Replace with new disc

Read the instruction manual and herbicide label carefully before using the Frontline Compact.

Please Note: Nomix reserves the right to change specifications and availability without notice. Limits on warranties and liabilities as well as necessary cautions are on the product label. Nomix and Nomix Enviro are trademarks of Frontier Agriculture Ltd.

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ALWAYS READ THE LABEL
USE PESTICIDES SAFELY

The logo for frontier features the word "frontier" in a lowercase, sans-serif font. The letters "f", "r", "o", "n", "t", and "i" are in a teal color, while "e", "r", and "a" are in a yellow color. The letters are partially overlaid by a yellow shape that resembles a stylized leaf or a drop.

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