

Gun Corner Assembly *Instructions*



GUN CORNER
GUN CORNER

**NELSON SR 100 and 150 assembly with
rotation accelerator**

Unscrew the cannon so that it is held by only one screw on the hose reel side.

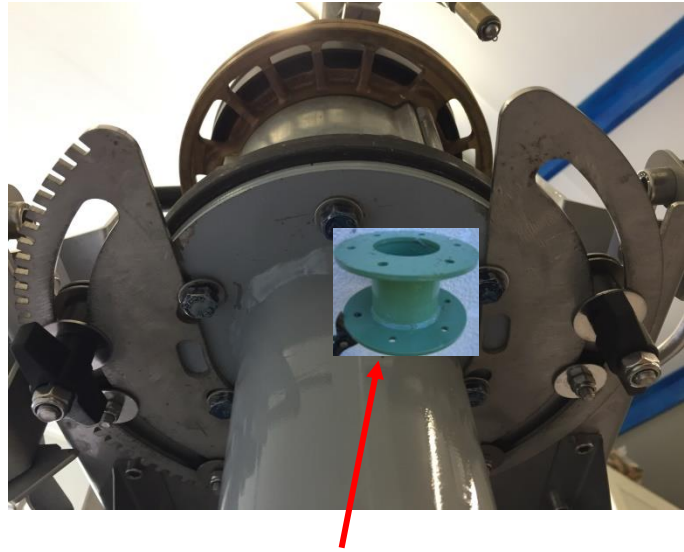
Present the Gun Corner with its box in front (tractor side) and screw the box to the corresponding holes using the cannon screws (washers required).

The back part of the box must be as parallel as possible to the carriage or to the hose reel, allowing the same adjustment left and right.

Caution: The Nelson SR150 cannons have 2 flange models, one in $\varnothing 130$ the other in $\varnothing 150$.

Ask for the corresponding flange.

The box turns so that it can be put parallel to the edge of the plot, ready to start, after rolling out the hose.



Obligatory extension for SR100.

Installing the Jet Breeze

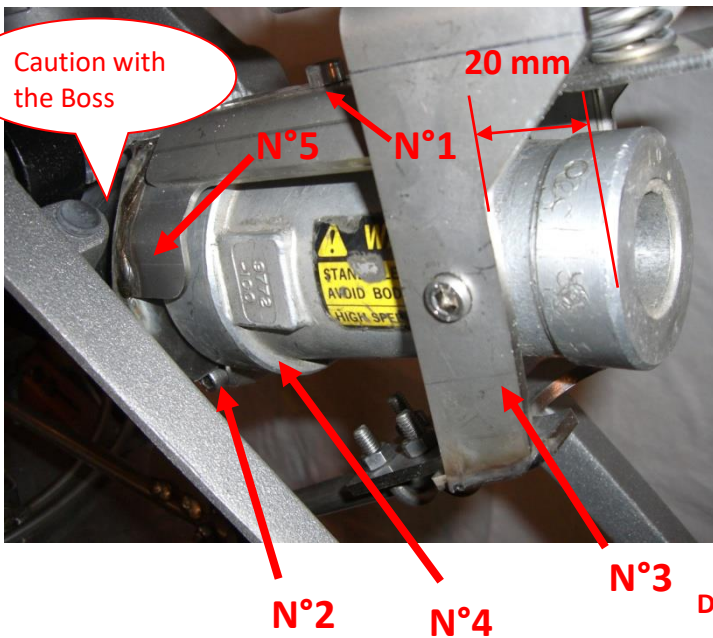
Unscrew nozzle n°4.

Separate the Jet Breeze from its support n°5 by screw n°1.

Place support n°5 well orientated behind nozzle n°4 at the start of the threading, block screw n°2 and screw again nozzle n°4.

Couple the Jet Breeze with support n°5 leaving nozzle n°4 stick out 20mm from binding n°3 and block screw n°1.

If there is a nozzle holder, binding n°3 must be placed behind the bronze nut of the nozzle holder.



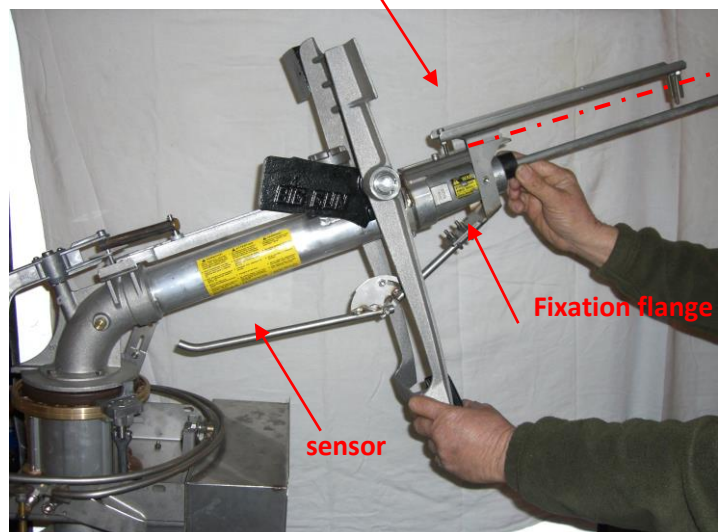
Depth screw n°6

Adjusting the Jet Breeze

Place the sensor and lift it up.

Adjust the Jet Breeze through depth screw n°6.

The tip of the screw must be 1mm above the jet and in line with the it. If the tip of the screw is not in line with the jet, tap on the depth screw support to put it in place.

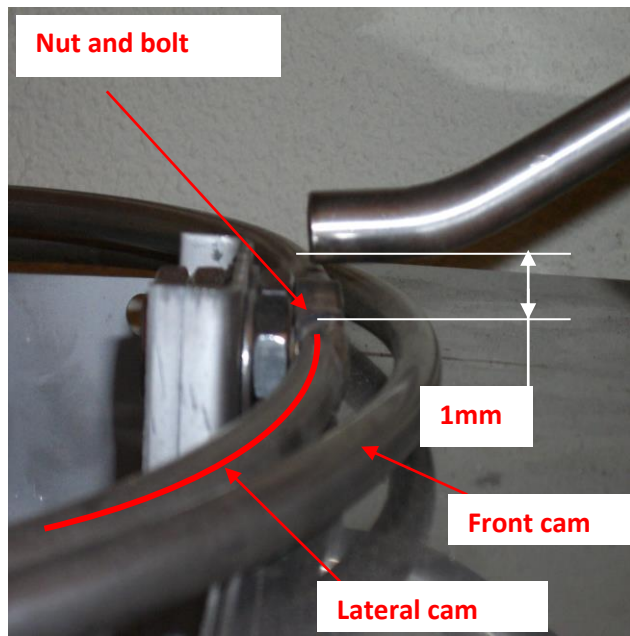


Adjusting the sensor

The bottom extremity of the sensor must pass slightly inside the red line, and 1mm above a fixation nut and bolt of the lateral cam.

After these two adjustments have been made, tighten the 2 fixation flanges of the sensor and the 2 nuts and bolts of the central protractor.

To lift or lower the front cam by hand, untighten the couple limiter 3 turns, then tighten again 3 turns after the operation.



Installing the magnetic captor

It must be installed as close as possible to the hub in a way to avoid friction with the magnets in the case of a bearing deterioration.

⚠ The captor being hollow tighten with moderation !

Installing the magnets

The magnets must be installed facing the captor and 5 or 6mm from it.

Rivet a magnet every 50 to 60cm of development.

Example: 1 wheel with a 60 cm height must be equipped with 3 magnets.

Boîtier électronique

Operating indicator

Battery (unplug the captor before connecting or disconnecting the battery)

Captor plug

Button to turn on the operating indicator

Gear motor

End shutoff motor card

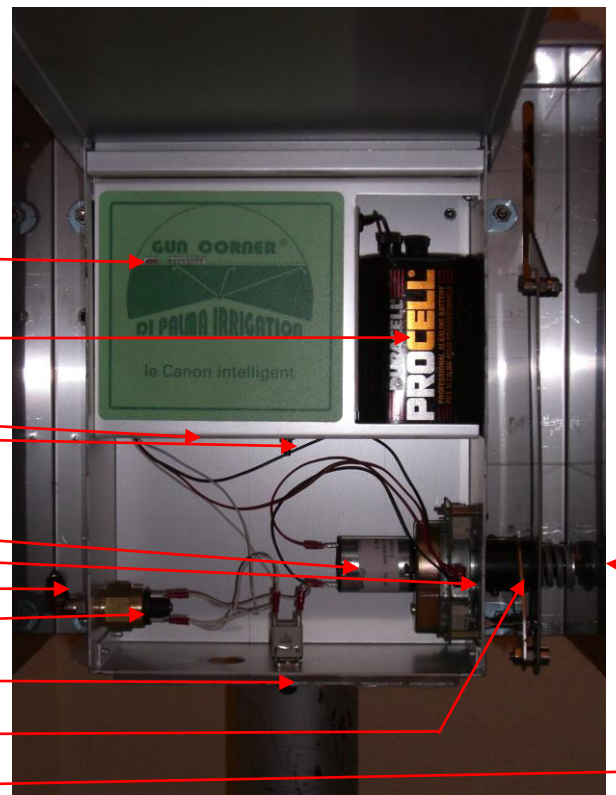
Rislan pressure tubed 4/6

Pressure switch

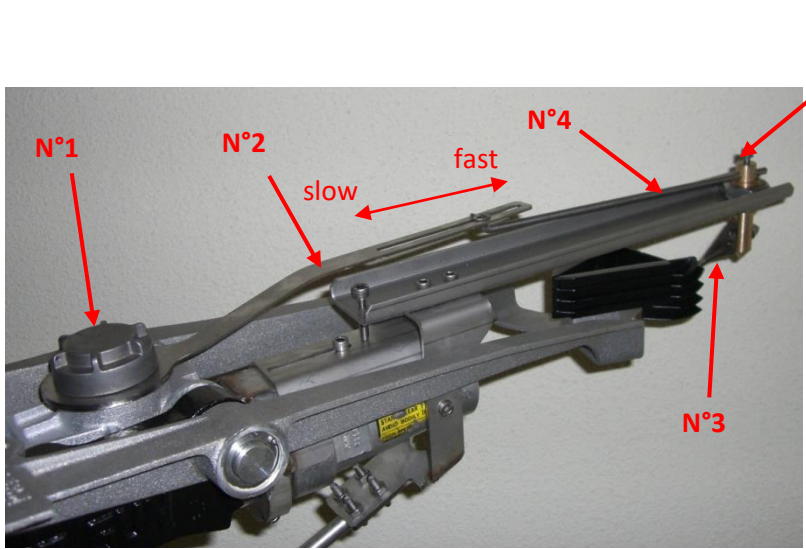
Button to lift the cam after unwinding

Couple limiter (clutch)

Clutch adjusting screw



OPTION : Rotation accelerator SR150 and SR100

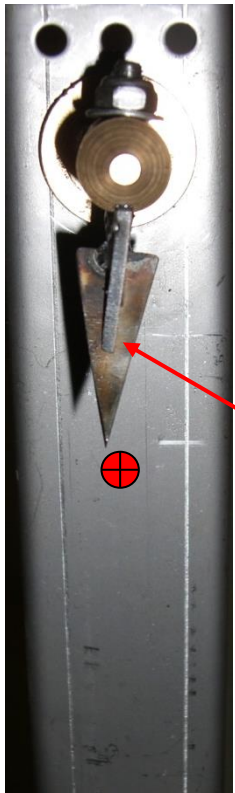


Unplug cap n°1, place the stainless-steel washer, place the small reverse connecting rod n°2, tighten cap n°1 firmly by hand.

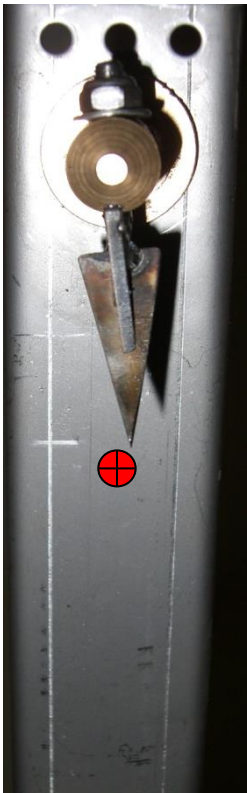
Orientate tip n°3 with the small reverse connecting rod n°2 so that the tip inclines as much right as left when the cannon inverts (see image below)

Tighten cap n°1 using pliers, holding the small reverse connecting rod n°2 in position.

To make the speed of the cannon faster or slower, slide rod n°4 (see arrows) and block screw n°5.



N°3

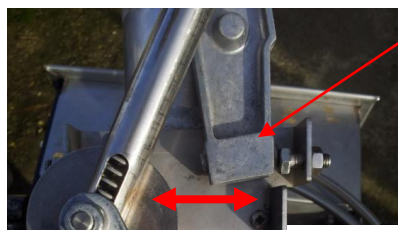


Set Up:

Make sure your rocker arm hits 90° from the cannon tube.



If this is not the case: You can adjust using the screws of the water intake. Thanks to these screws, you can adjust the water intake of the rocker arm and adjust left and right independently.



Right adjustment screw
Rotation of the cannon from right to left seen from above the cannon

Same for the left

stronger

**Less
stronger**



By tightening the adjustment screw there is less water intake, meaning the rocker arm hits less hard.

By untightening the adjustment screw there is more water intake, meaning the rocker arm hits harder.

Operating the standard Gun Corner:

The indicators 4 to 11 indicate the different steps of the Gun Corner program.

When powering for the first time (connecting the battery to the captor) the Gun Corner is active, and the front cam should raise (Indicator 3) and start the program (Indicator 4).

- At this stage, the Gun Corner must be raised, and Indicator 4 (green) lit up. This indicator gives the information that the Gun Corner is initialized.

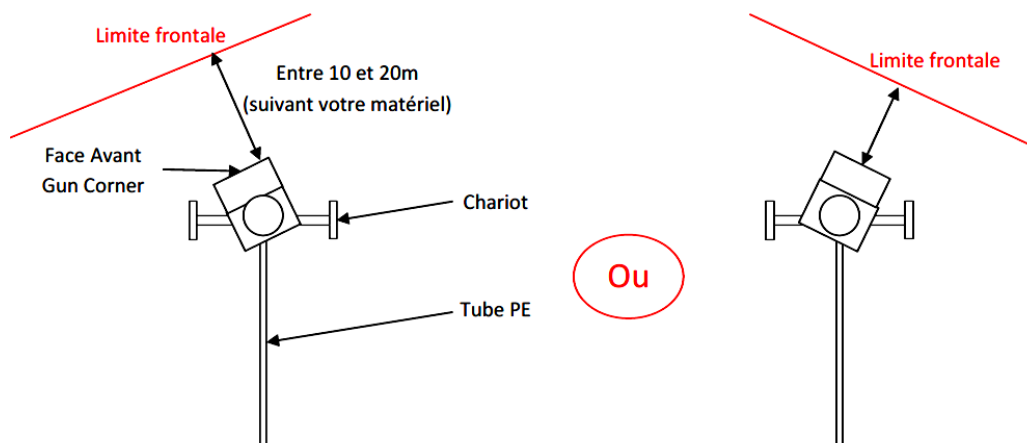


- Your Gun Corner is ready to operate.
- You can unroll your wagon.
- While unrolling, Indicator 2 will flicker each time the magnet passes in front of the wheel captor and Indicator 5 will light up to indicate that a new position is being programmed, then Indicator 6 will stay lit up throughout the entire unrolling phase.



- When 10m from the edge of your plot (distance variable depending on your configuration, cannon, debit, nozzle, Jet Breeze setting...) stop unrolling.
- You must now orientate the stainless-steel box of the gun Corner (reference being the front side with the stainless-steel door) parallel to the front limit of your position. For that, unscrew the clamping lever under the ratchet drive system, orientate the box and screw again the clamping lever.

Limite Frontale = Front Limit, Face Avant = Front Side, Entre 10 et 20m= Between 10 and 20m, Chariot = wagon, Tube PE = PE Tube, ou = or



- Once this orientation setting is finished, remember to push on the big push button under the electric box. This push will simulate a pressure detection and force the front cam to raise. This pressure is only taken into account once though.

- While pushing on the big push button, Indicator 1 will light up (pressure simulation). It will go off when you release the button. Then Indicator 3 will light up to indicate that the Gun Corner

circuit board is sending the information to the gear motor to raise the cam. The cam will go up if it is not already raised. The green Indicator n°6 will remain lit up.

- You can now put your hose reel under pressure, the Gun corner is ready to jet breeze.
- After your departure delay (if needed) your wagon will reverse towards your reel and after 4 magnet impulsions are detected by the captor, the cam will begin to descend.
- Then after another 6 new impulsions, the cam will descend again.
- This will be repeated until the cam is completely lowered and your cannon finds its normal position.
- At this point, we are entering the phase « full field » and this until the reel arrives to the end. Indicator 7 will be lit up during the entire rolling of the hose reel.



- After rolling the hose reel to the end, Indicator 7 stays lit up.
- 6 minutes afterwards, your cannon still under pressure and the Gun Corner no longer detecting any movement (magnet detection), your machine will begin raising the front cam again in order to progressively bring the jet back to the bottom of your cannon. To avoid missing water at this point. Indicator 8 will light up.



- Once the rise of cam phase is over, Indicator 9 will light up (rise of cam phase in 15 impulsions every 1 minute).



- If the final delay is not over after 5 minutes from the rise of cam phase, the lowering of the cam begins so that the surface towards the cannon is not “drowned”. Indicator 10 will light up. The cam will redescend in 15 impulsions every 2 minutes.



- At the end of the lowering of the front cam phase, Indicator 11 will light up to indicate the end of the Gun Corner cycle. At this point, the Gun Corner will no longer change position until there is no longer any pressure, and a new unreeling takes place.



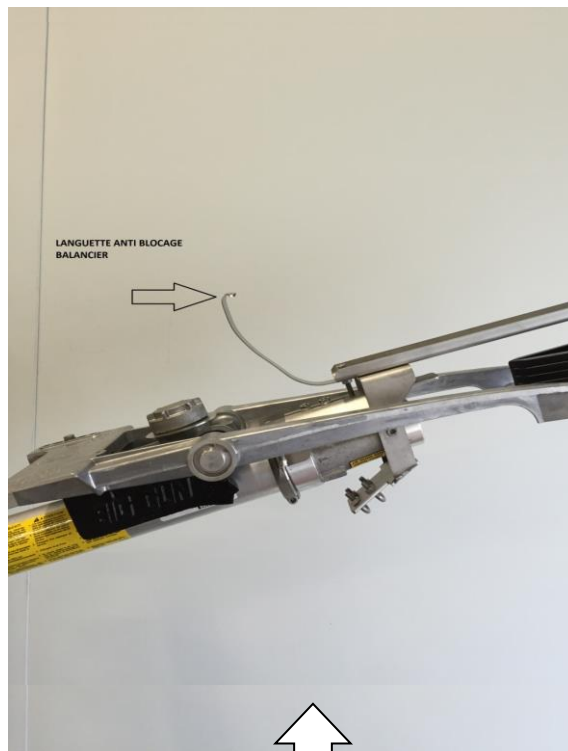
The Gun Corner programs itself on its own. As soon as it detects a magnet passing without pressure presence, it programs a new position as it recognises the unreeling phase.

- Anti-blockage rocker arm tab ref :069

Bend the tab so that it stops the rocker arm in its track before it hits the Gun Corner box.



Montage avec un accélérateur de rotation



Montage sans accélérateur de rotation



GUN CORNER

GARANTEE

The Gun Corner is guaranteed for two irrigation campaigns. It covers, free of charge, the restoration or replacement of all elements considered faulty, in the exception:

-The battery must be removed at the end of each campaign, at the latest in October each year and put back at the beginning of the next campaign.

-In the case of flooding.

-Intentional or accidental degradations.

-If the case containing the circuit board is opened.

The guarantee is applied following the series number on the electric box.

OPERATING THE GUN CORNER

The **GUN CORNER** programs itself. **MAGNET COUNT OPTION**

1. Unroll your tube leaving the wagon wheels touch the ground throughout the unrolling phase, so that all the magnets are detected. At the end of unrolling press for 30 seconds on the button situated under the electric box to raise the central cam.

2. Once you put on pressure, the gear motor automatically raises the central cam until the shutoff motor hight.

3. One the rolling begins the central cam descends as the captor senses the magnets.

4. Once the captor has detected 84 magnet passes, the central cam will be completely lowered.

5. When only 18 to 20m are remaining, meaning 36 magnets rolled up, the central cam will begin to raise every 2 magnets. The jet will breeze and remove the cannon angle.

6. Interruption of the station once the cycle ends.

For a good distribution, the start tempo must be 10 minutes and the arrival tempo must be 1/2 minutes per millimetre provided.

Your concessionaire and ourselves remain at your disposal.

For further information, please do not hesitate to call us 7 days a week from 7am to 8pm at:

+33787773923 DI PALMA IRRIGATION TEAM