



IRRILAND S.R.L.

SPORT SERIES

USER MANUAL

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Y. 2006

MOD. SPORT

N°.

	KG.		KG.
	236	H ₂ O	432



0,5 rad. S⁻¹



P.T.O. 540 n/1'

KNOW THE IRRIGATOR

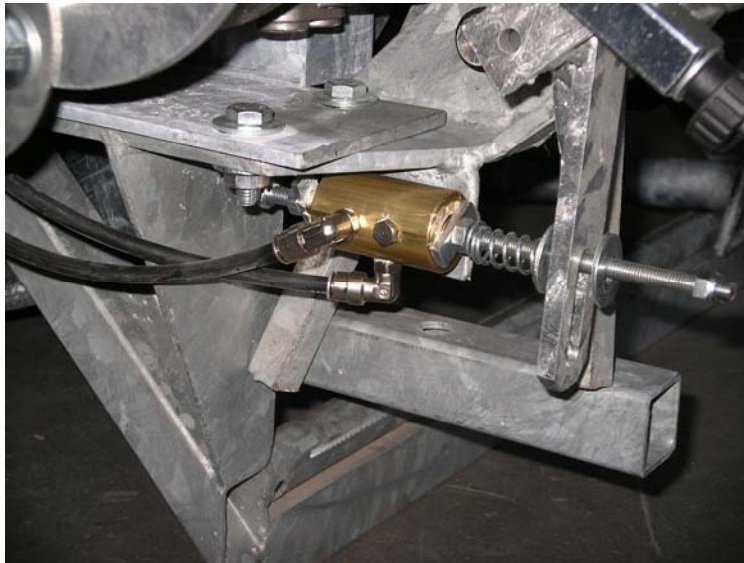
Standard parts:



Standard speed adjustment: the lever of the ball valve has an adjustment sector of 90°. Set it in the proper position to reach the need pull in speed.



When the sprinkler cart arrives against the machine at the end of the pull, it pushes the galvanized bar that achieves the brass switch valve.



The brass switch valve achieved by the galvanized bar (pushed by the sprinkler cart) open the circuit to the upper part of the membrane valve.
Attention: if the valve remains in the non-working position when you pull the hose out, pls pull the threaded bar in the cart direction.

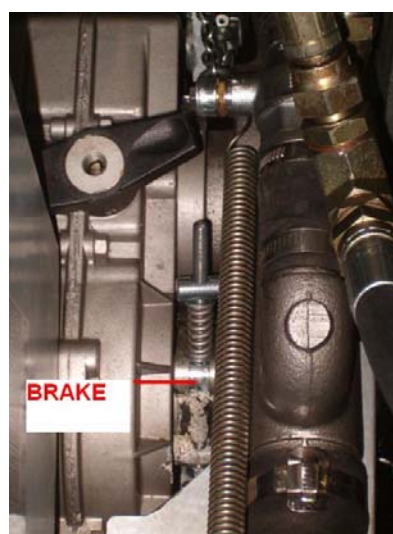


The membrane valve shuts off the flow at the end of the pull and consequently the machine stops irrigating.
(The manometer is the option A-0081)



When the sprinkler cart arrives against the machine, the vertical pipe welded on the pipe of the sprinkler cart runs into the hose guide fork and holds the sprinkler cart vertical during the transport.

Most Common Options:



A-0078 PTO DRIVE & BRAKE: the pto drive can be used by means of the pto wheel delivered with the machine or the cardan shaft. It's used when the pe hose has to be rolled on the machine with no enough water pressure or flow. It's also used to hold the drum and release it slowly when you disengage the gear box. The brake enable the partial unwinding of the pe hose leaving the rolled hose in the proper position. Always pull out the pe hose slowly, at constant speed and progressively slow down till you stop. Grease the brake, tighten it depending on your need.

Attention: there's no disengagement or any safety stop system when rewinding by pto!



A-0083 DRAWING BAR WHEEL: The wheel on the drawing bar is very often requested to shift the machine by hand with no need to hold its weight. It's very comfortable in case any tractor is available.



A-0081 MANOMETER: the manometer can be mounted on one of the valve inlet.



A-0148 SPEED COMPENSATOR. In order to pull the hose in with a more constant speed it's important to slow down the turbine speed and the drum rotation any time the rolling diameter of the pe hose increases. In case you need to adjust the compensator (bottom chain and speed adjustment system) proceed as follows:

- if you need to **increase** the speed: fix the lower chain as far as possible from the ball valve on the right lever and fix the speed adjustment as low as possible on the left lever
- If you need to **slow down** the speed: fix the lower chain in a hole closer to the ball valve on the right lever and in an upper hole on the left lever.

After the speed adjustment on machine equipped with speed compensator always test if the machine is able to pull the hose in even when the compensator is fully working . To test it just pull the "U" touch pipe till the O.D. of the drum. If the turbine is able to pull the hose in with the compensator fully working and the pe hose completely outside, there'll be no problem when the hose is at least partially in.

In case with this test the machine stops working, pls adjust the speed compensator following the above written instructions.

Attention: the upper chain has to open completely the by pass valve at the rewinding end. Pls adjust it so that it doesn't work till the machine is pulling the hose but that open completely the ball valve just when the brass switch valve has been achieved. The correct position is: the upper hole on the left lever and the second hole closest to the ball valve on the right lever.



The speed adjustment is different when the machine is equipped with the option A-0148 Speed Compensator. In this case instead of the lever on the by-pass valve there's a threaded wheel connected with the by-pass lever by means of a square pipe and a small chain.



A-0149 LIFTING FRONT JACK: the front jack is used to put the machine easily in transport position. Using the handle you can lift up the rear part of the machine and let down the drawing bar.

USE INSTRUCTIONS

- 1 - place the machine in the working position paying attention that the drum sides are parallel to the pull out direction
- 2 - turn down the rear part of the machine (to let the sprinkler cart go down on the field).
- 3 - grease all the following parts:
 - crown gear
 - drum's hubs
 - hose guide screw/block
 - chain between the hose guide screw and the drum
 - the brake (if fitted on the machine)
- 4 - disengage the gear box and check the oil level. Eventually add some oil till the level window
- 5 - pull out the sprinkler cart paying attention to leave just 1 ring of hose on the drum
- 6 - adjust the irrigation sector and the jet breaker on the sprinkler (previously mounted). Adjust the width of the cart legs.
- 7 - check that the threaded bar of the brass switch valve is in the working position (in direction to the sprinkler cart), if not pull it out.
- 8 - open the by-pass valve completely. In case of standard machine put the ball valve lever parallel to the by pass pipe. In case of machine equipped with the A-0148 speed compensator turn the threaded wheel clockwise to open the by pass.
- 9 - connect the flexible hose to the hydrant or to the available water source.
- 10 - wait some minutes and adjust the pull in speed only after the sprinkler throw is regular. Pay attention to the speed adjustment above written explanations.
- 11 - In case the machine is equipped with the A-0148 speed compensator, test the turbine pull in power as above described.

