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Sales@UniversalSales.biz

92311 Booth Street ~ Junction City, OR 97448 ~ PH: 541-998-9999 ~ FX: 541-998-9998



Instructions

Sport series hose reel traveler

(Universal Sales T1.6"/426')

(Version 4-1-2019)



IRRILAND SRL

Via Togliatti 4, z.i. San Giacomo, 42016 Guastalla, RE, Italia

UNIVERSAL SALES

USA PNW Representative
www.universalsales.biz

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INTRODUCTION

Thanks for choosing an IRRILAND machine. This manual is a fundamental part of the machine and must be followed. Keep the manual with the machine, in case you give/sell it to other users. Before you do any operation, the assembling person and the user have to read and follow up strictly the indications given here following.

ATTENTION



Don't start using the machine if you haven't carefully read this manual first. Don't work with the machine close to kids or close to not authorized personnel. Avoid that the kids go close to the machine.



Attention when you disconnect the flex supply hose.

If the machine is equipped with a closing (or shut off) valve the flex supply hose remains pressurized at the end of the cycle so **DO NOT DISCONNECT** the flex supply hose before you release the pressure



Attention to the sprinkler

The pressurized water of the sprinkler can cause severe injuries and damages to persons and things.



Precaution along the freight

The machine can't be moved on public roads. Don't exceed the towing speed of 6 mph on smooth level roads and 2 mph on uneven roads or fields.



Never service the machine when it's working

To do any maintenance please stop the machine and disconnect it from the supply line. Replace or reinstall all the protective/safety guards before operating the machine again.



Precaution with the electric power lines

Ensure the throw of the water doesn't touch electric power lines and/or any other item of electric power supply at anytime.

SYMBOLS ON THE MACHINE AND RELATIVE MEANING



ATTENTION 1) This symbol means different risky situations:

1a) The operations and the parts can be risky for the user safety. When you see this symbol, please read carefully the relative information as there's an incident risk.

1b) Don't open the couplings in case there's pressure in the pipeline. Before you open the couplings you have to be sure there's no pressure in the pipeline.

1c) Electricity risk: you can never place the sprinkler near to any energy source. You must be sure that the sprinkler water will not be in contact with any energy source, house, or working place except what eventually specified by the producer.

1d) Read carefully this manual before you use the machine.

1e) Before you do any service on the machine, please stop it and disconnect it from the feeding pipeline.



2) This symbol indicates the risk relative to moving parts. Don't use the machine before you mounted again the safety parts and guards.



3) This symbol means stand away from the machine. Please stay away from the machine when it is working.



4) This symbol indicates the point to connect the lifting hooks. Don't connect the hooks in other points of the machine because it can be very dangerous.



5) This symbol indicates the points that need to be lubricated: look at the manual carefully and follow up the instructions. A correct lubrication improves the machine efficiency, reduce the risk to break some parts and extend a lot the machine working life.

IMPORTANT ADVICE

Read and follow up precisely the instructions labeled on the machines.

They don't substitute the manual but focus the attention on some parts and info that are important for the use, the maintenance and the safety.

ATTENZIONE
NON LASCIARE INSERITA LA MANOVELLA
SULLA PRESA DI FORZA DOPO L'USO

CAUTION
DO NOT LEAVE THE HANDLE ON THE
P.T.O. AFTER OPERATION

ATTENTION
NE JAMAIS LAISSER ENCLENCHEE LA MANIVELLE
SUR LA PRISE DE FORCE APRES L'EMPLOI

WICHTIG
NACH DER ARBEIT MUSS DER HANDGRIFF AN
DER ZAPFWELLE DEMONTIERT WERDEN

ATENCIÓN
NO DEJAR INTRODUCIDA LA MANIVELA SOBRE
LA TOMA DE FUERZA DESPUES DEL USO

ATENCAO
NAO DEIXAR INSERIDA A MANIVELA
NA TOMADA DEPOIS DO USO

OBS! VIKTIG
SETT ALDRI IGJEN SVEIVA PÅ KRAFTUTTAKET
ETTER ENDT BRUK

S-064-005

ATTENZIONE! TENERE LE CATENE SEMPRE TESE
CAUTION! KEEP CHAINS ALWAYS STRETCHED
ATTENTION! TENIR LES CHAÎNES TOUJOURS TIRÉES
ACHTUNG! DIE KETTEN IMMER GESPANNT HALTEN
OBS! KJEDENE MÅ BESTANDIG VÆRE STRAMME
ATENCIÓN TENER LAS CADENA TIRANTES

S-064-006

BRIEF USE INSTRUCTIONS – SPORT SERIES

READ THE COMPLETE INSTRUCTION MANUAL OF THE MACHINE BEFORE ANY OPERATION

- 1 - ~~Be sure the rear jack is extended so it can touch the ground very soon when you lift up the towing bar~~
- 2 - Unfasten the hitch (for machines with tractor towing bar only) and position the machine, aligning the drum with the strip to irrigate
- 3 - Lower the back part of the machine by lifting the towing bar ~~and by using the handle on the rear jack~~ and check the whole horizontal anchoring rod is holding the weight of the machine: this way it will be well anchored
- 4 - ~~Adjust the track width of the sprinkler cart as wide as possible~~
- 5 - Disengage the gear box: in case it's hard turn a bit the p.t.o. using the hand wheel
- 6 - Adjust the irrigation sector on the sprinkler
- 7 - Connect the towing chain of the sprinkler cart to the towing bar or hitch of the tractor and unroll the polyethylene hose (3 km/h - 2 mph) slowly
- 8 - Engage the gear box
- 9 - Pull the shaft of the small brass valve toward the sprinkler cart
- 10 - Connect the flexible feeding hose and start the irrigation
- 11 - Adjust the speed with the bypass lever
- 12 - Machines with computer: set up the speed on the computer (follow the computer instruction manual)
- 13 - After the run the sprinkler cart will automatically stop the irrigation
- 14 - Disconnect the flexible feeding hose, lift up the rear part of the machine ~~by using the rear jack~~, pull down the towing bar ~~on the third wheel (if available)~~ or connect it to the tractor to shift it to the next position: MAX SPEED ON GOOD FLAT ROADS 10 KM/H (6 MPH)

INSTRUCTIONS FOR REWINDING BY P.T.O.

- A - Be sure the gear box is disengaged: the p.t.o. should turn easily with the hand wheel
- B - Connect the pto shaft only if the tractor is stopped or you are sure the pto can't turn
- C - To prevent damage, stop the motorized roll up with 2-3 meters (6-9 feet) of pipe unrolled. Complete the roll up process by hand with the p.t.o. hand wheel.

WARNING

Don't forget to check the oil level and the chain tension and to grease the points stated in the manual (crown gear, bearings, hubs, jack, brake, joint points) EVERY 20 WORKING HOURS

USE CONDITIONS

This machine has been designed to be used with clean water for irrigation. In case of sand and other solids or other solids in the water, the machine can function with up to 3 % solids with reduced efficiency and working life. With more than 3 % solids, the warranty is void.

IDENTIFICATION DATA

IRRILAND S.R.L. Via Togliatti n°4 Z.I. S. Giacomo 42016 Guastalla -RE- ITALY P.I. 01526580350		[CE]	
TEL. +39 0 522 831544		FAX +39 0 522 831548	
www.irriland.it			
info@irriland.it			
Y.			
MOD.			
N°			
KG.		KG.	
[]		[] +H ₂ O	
[] 0,5 rad. S ⁻¹		[] P.T.O. 540 n/1'	

Y. > production year

Mod. > machine model (OD in mm and length in m)

N°. > serial number composed by the corder confirmation number and the machine structure (last three numbers / letters)

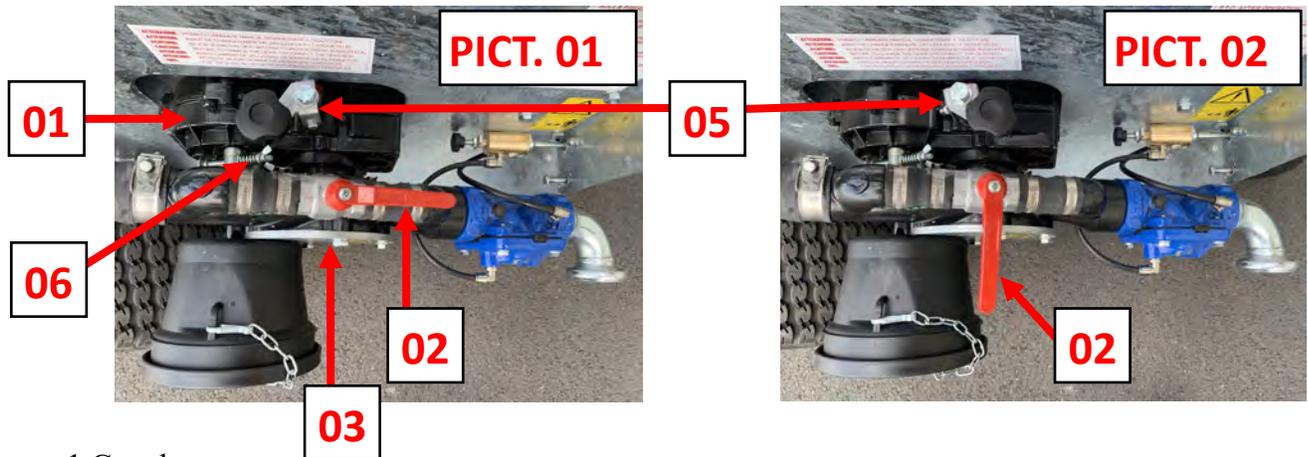
Kg. > dry machine weight / weight of the machine full of water

0,5 rad S-1 > max rotation speed of the sprinkler

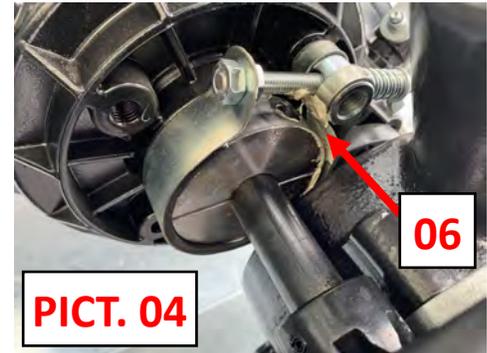
PTO 540 n/1' > max rpm of the power take off

In addition to the CE label the serial nr and the model are printed on the frame!

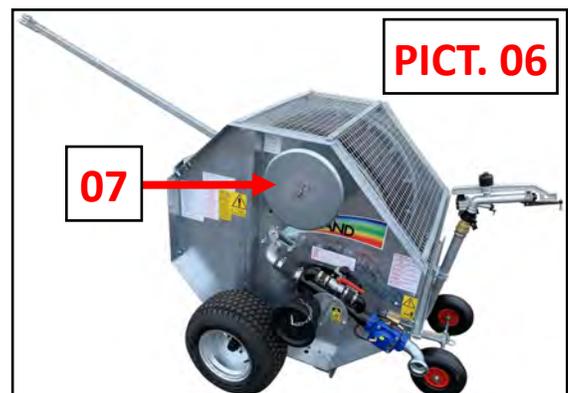
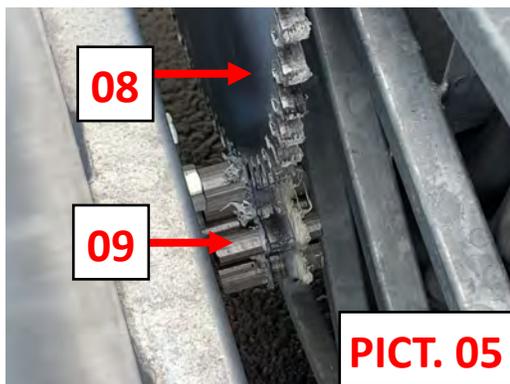
SPORT SERIES: CONTROLS AND DETAILS OF THE MACHINE



1. Gear box.
 2. manual by-pass: Pict 01 = lever in open position, Pict 02 = Lever in closed position,
 3. Turbine Cover
 4. Pto shaft with safety cover removed
 5. Engage/disengage lever: Pict 02 = shown in the working and transport position.
- The working and transport position prevents the drum from turning backwards when irrigating and along the transport. You can't pull the sprinkler cart and the pe hose out with the gear box lever in this position. Move the knob to the left to disengage the gear box and allow the hose to pull out (as shown in Pict 01).



6. automatic brake
7. Hand wheel for PTO: Shown in storage position. ALWAYS take it off the PTO shaft after use. ALWAYS put the safety cover on after you have used the PTO shaft.



8. Crown gear
9. Pinion gear



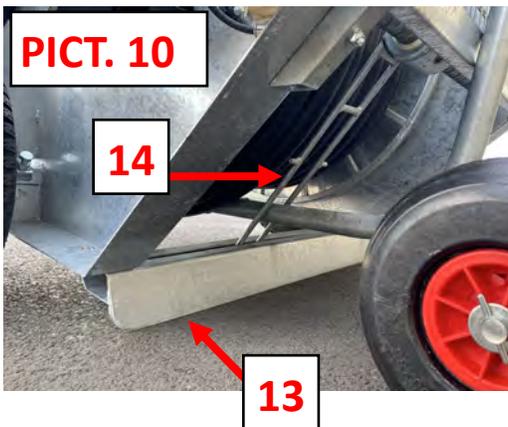
10. Brass control valve shown in stop position.
 Pull the cart out and then push the knob towards the cart to turn on the water (Irrigation position).
 When the cart comes in, it will push the stop bar and the stop bar will turn the brass valve off.



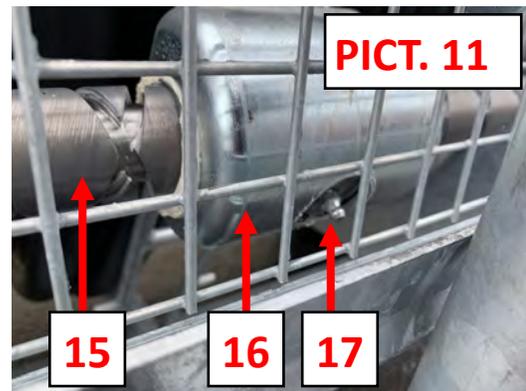
11. Diaphragm valve



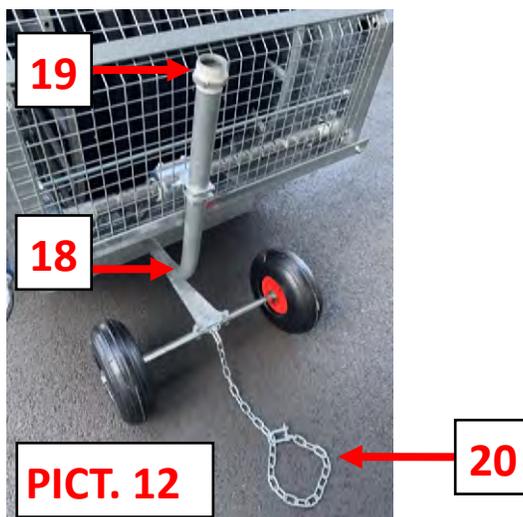
12. Pressure gauge



13. Anchoring "angle iron" foot
 14. Hose guide fork



15. Endless screw (or scroll bar)
 16. Block of the endless screw
 17. Insert (half moon key) with grease zerk fitting on the endless screw



18. Sprinkler cart with BSP thread for sprinkler
 19. BSP threaded bushing for sprinkler
 20. Tow chain

FREIGHT, DELIVERY, AND ASSEMBLY OF THE MACHINE

Attention: always work with working gloves!!

After freight shipping, some items may need to be assembled to the machine, such as the wheels. The axles are attached to the frame with a set screw, as shown in pict 13 position 21. Make sure the axel extends past the set screw a couple inches, but keep the tire away from the frame so it doesn't rub.

Mount the sprinkler with BSP threads to the cart as shown in pict 14 position 22.

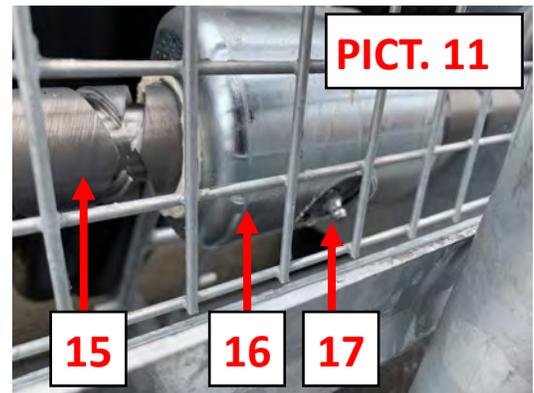
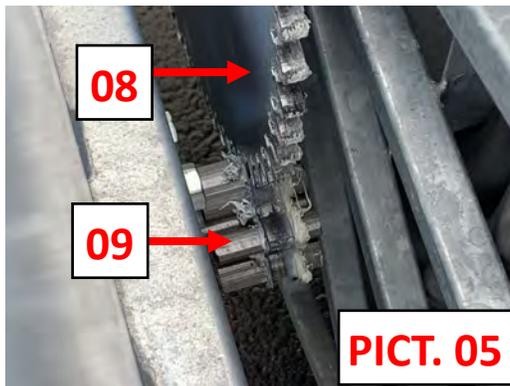


PREPARATION OF THE MACHINE BEFORE USE

Check the gear box oil level and if needed add SAE90 oil. Fill to the black plug on the left side of the gear box. The red plug on top is a vent.

Lubricate the machine at all greasing points (look at the symbol page 3) and also the crown gear of the drum. Main points to lubricate: crown gear, brake on the gear box, & endless screw.

It's necessary to lubricate/grease every 20 working hours!!!



Check the machine and the cart tire pressure (if inflatable): look at the proper pressure on the tires and if necessary adjust it.

MACHINE SET UP AND OPERATION

Attention: always wear work gloves!!

1) Tractor towing bar (pict 15 pos 23):

To hook the machine up to a tractor or UTV, pull down on the draw bar until it lines up with the hitch. The sprinkler cart will hook onto the stop bar and lift off the ground.

When arrived at the right place, unhitch the towing bar and lift it up until the anchoring angle iron and sprinkler cart are on the ground.

Attention: max transport speed is 6 mph on flat roads.

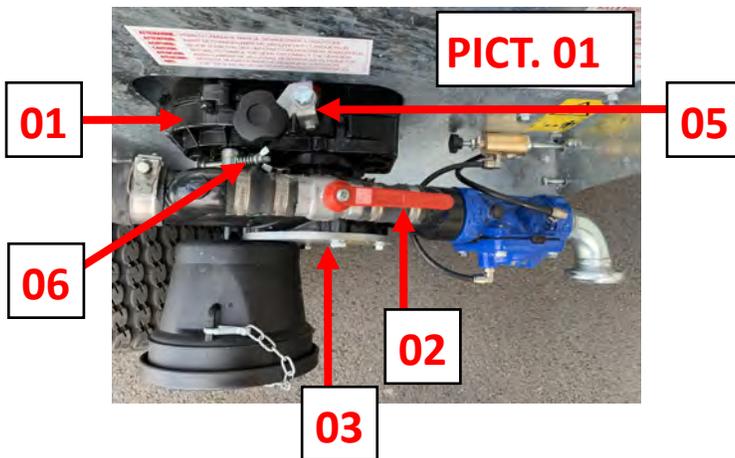


2) Set up to irrigate: Put the drum in the proper direction toward the irrigation strip in order to get it aligned with the pull out direction of the pe hose. Stand behind the drum and use the draw bar to aim the traveler in the correct direction.

3) Anchor: Be sure that the anchoring angle iron foot is secure to the ground. If the ground is very hard you may need to use anchoring spikes.

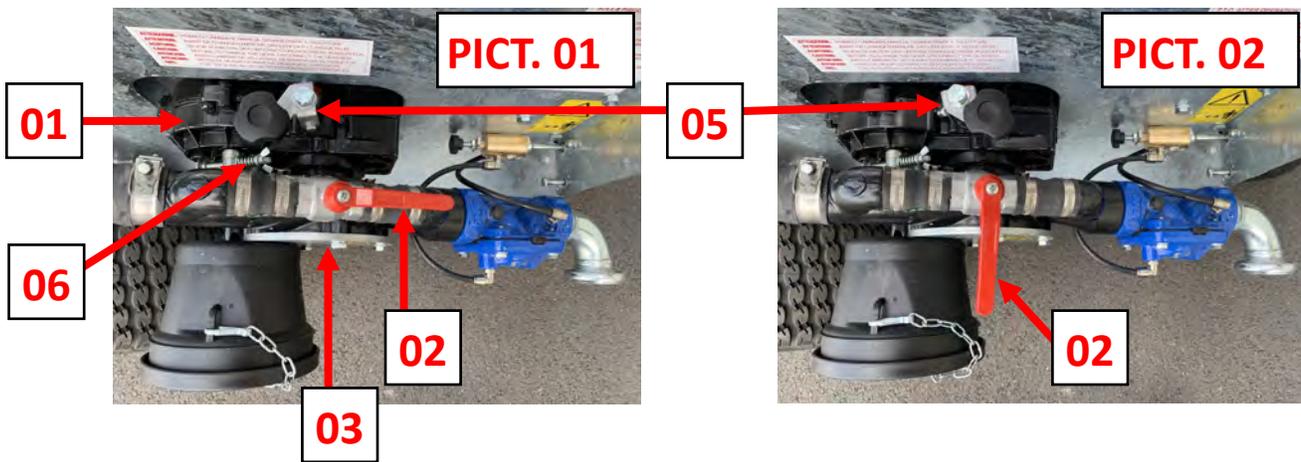
4) Disengage the gear box: Move the knob/lever (05) in the “pulling out” position as you see in picture 01. In case it’s locked and won’t move, put the PTO hand wheel onto the PTO shaft, push it and turn a bit counterclockwise, and push the gear box knob/lever (05) at the same time. Always keep pushing the hand wheel when you use it and take it off the PTO after use and replace the protective cover for safety.

Pay attention to the hand wheel: never leave it on the PTO shaft if you’re not using it as above described! It’s very dangerous and can cause serious injuries!



5) Pull out the cart and PE hose: Hook the towing chain (20) of the sprinkler cart to the tractor and pull out the cart along the field with the max speed of 2 mph (walking speed). Before you stop reduce the speed smoothly to prevent the drum from free spooling. There is no alarm nor signal about the pe hose length so be careful to don’t pull it out too much! Leave a couple wraps on the drum or the hose might pull off of the drum! Check the sprinkler pattern is ok and adjust it. Disconnect the tractor and drive back to the machine.

Important: Always leave at least one pe hose ring rolled on the drum and remember that for the first use of the machine it is necessary to do a “full pull”, pulling out the complete PE hose not leaving more than one or two rings on the drum : you’ll need to roll up all the pe hose while under pressure. Failure to follow this procedure can lead to improper wrapping of the PE hose on the drum and damage to the traveler!



6) Engage the gear box: Push the knob/lever (05) into the “working and transport position” as you see in Picture 02. Turn the PTO shaft a little if the knob is stuck in place.

7) Open the bypass: Turn the handle on the bypass valve (02) so it is in line with the bypass as shown in picture 01 position 02.

7) Open the brass control valve: Push the knob on the brass control valve (#10 in pict 07) towards the sprinkler cart.



8) Connect the water supply: Connect the main line (hydrant valve or pipeline outlet) to the machine by using the flexible hose as shown in picture 16. The supplied B-Type adapter fitting (picture 17) has male NPT threads for connection to the mainline hydrant valve. Make sure the flexible hose couplings are well hooked before you open the hydrant: it’s a pressurized system and could be dangerous if it’s not managed properly. Open the mainline hydrant valve a little bit until there is water coming out from the sprinkler and all air is out of the line, then open it completely.



9) Adjust the retraction speed: Adjust the speed by closing the bypass lever: to reach the max speed turn the lever perpendicular to the bypass to shut it off completely as shown in picture 02 position 02. This way all the water flows through the turbine. If you run the traveler at too low of a speed, it may stall out. As the hose is rolled up on the drum there is less hose friction on the ground so it may speed up as the hose comes in.

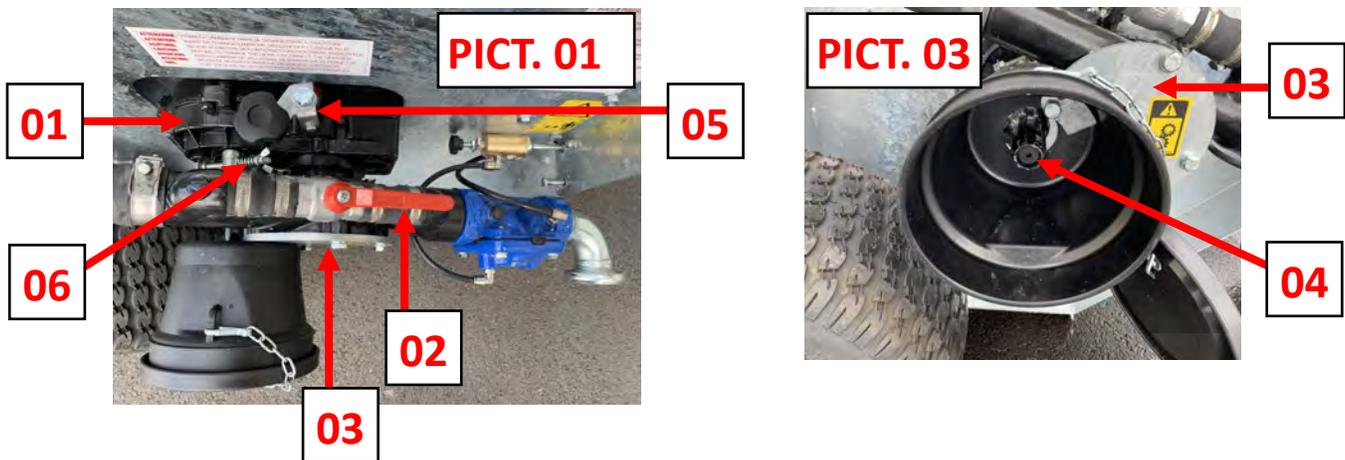
10) Automatic stop: When the hose is pulled in all the way, the cart will push on the stop bar and close the brass control valve (#10 in picture 07). This will in turn close the blue diaphragm valve (#11 in picture 08) and turn off the water.

11) Turn off water supply: Be sure to turn off the hydrant valve on the mainline and relieve the pressure before disconnecting any of the supply hoses.

EMERGENCY PE HOSE REWINDING

The PTO (power take off) of the gear box can be used for the emergency rewinding of the pe hose: it will be connected to the tractor by means of a PTO shaft.

- 1) Put the gear box lever #05 in picture 01 in neutral (pulling out position) because otherwise you can cause serious damages to the gear box.
- 2) Connect the PTO shaft to the PTO spline of the gear box #04 in picture 03.
- 3) Start the PTO shaft to rewind the pe hose.



Attention: When you use the PTO drive, the machine doesn't stop the rewinding when the cart arrives. The rewinding has to be stopped before the cart arrives against the machine. The last 2 / 3 meters (6' / 10' feet) have to be rolled up manually with the hand wheel. Don't forget that the gear box lever has to be in "pulling out" neutral position before you start rewinding the PE hose or you will break the gear box.

Attention: If the PE hose has been totally pulled out, to avoid an excessive ovalization of the PE hose, it is better to put some water pressure inside before you start the rewinding.

MANTAINANCE

- 1) Lubricate the parts indicated on the machine at least every 20 working hours: the main parts are the crown gear, the drum hub, the scroll bar (hose guide system).
- 2) Change the gear box oil every irrigation season or at least every 3000 working hours.
- 3) Check periodically the tire pressure.
- 4) Lubricate the sprinkler every 400 hours: only some sprinklers have to be lubricated.
- 5) Lubricate the connecting joints of the stop bar (that pushes the brass valve) every 100 working hours.

MACHINE STORAGE AT THE END OF THE IRRIGATION SEASON

- 1) If the winter temperature will drop below freezing in the place the machine will be stored, it's better to partially empty the pe hose. To do this you should pull out half of the polyethylene hose as you do for a normal irrigation, then you take the sprinkler cart off and then you rewind the polyethylene hose by means of the pto shaft (as described on page 12). You can also leave the hose on the drum and use an air purge to blow out the water. Remove the sprinkler first.
- 3) For a longer lifetime of the machine is suggested to clean the machine with a light pressure washer let it dry, and look for any areas that show oxidation or rust. Remove surface rust and spray with "cold galv" spray paint.
- 4) Lubricate all the indicated points as you do for the normal maintenance.
- 5) Open and close the by pass valve and then leave half open to avoid damages along the winter.
- 6) Disconnect and drain the hoses of the brass valve and blue diaphragm valve (pict 07 and 08) and turn the 90° elbow down for drainage.

PROBLEMS AND SOLUTIONS

1) The machines can't rewind the polyethylene hose.

- Open and close completely the bypass by turning the bypass lever from completely closed to completely open and vice versa.
- If the bypass valve works properly and the turbine impeller doesn't turn is possible that the turbine nozzle is blocked by a solid: dismount the inlet pipe, check and clean the nozzle.
Is also possible a long fiber as a rope or something similar went inside the turbine and has been rewound all around the impeller: to check and clean it you should take the PTO shaft protection and the turbine cover off.
- Also check the gearbox position: in case the drive pinion is too far or too much against the crown gear of the drum, it will not move. To check it disengage the gear box, hold the pto shaft by hand (mandatory with working gloves) and turn it backward and forward: if the gearbox position is ok you should be able to move it a bit and hear a clear "tac" "tac"...every time the pinion teeth match the crown gear teeth. Between the pinion teeth and the crown gear teeth base you should have about 1 mm (0.04") space.
- The gear box doesn't work: if the turbine impeller turns (you hear the noise) but the drum doesn't move, is possible that the lever on top of the gear box isn't well positioned and the gear box hasn't been engaged. Place the lever in working position, naturally after the sprinkler cart has been pulled out at least 1 m / 3 feet. If the turbine impeller turns, the gear box is well engaged and the drum doesn't turn please call the local authorized service as maybe you have to change/repair the gear box.
- The sprinkler nozzle is partially stopped and only some water comes out. Dismantle the nozzle and check.
 - The filter (if ordered or mounted later on) at the machine inlet is full or at least dirty. Disconnect the flexible supply hose following the instructions for the pressurized systems and clean the filter.
 - The sprinkler is always supplied with some nozzles of different sizes. Is possible to change the nozzle with a smaller and/or with a larger one. The turbine nozzle is generally similar to the sprinkler nozzle. The sprinkler nozzle you use depends on the available flow and pressure. Try different nozzles and for each nozzle note carefully the sprinkler nozzle diameter, the pressure at the machine pressure gauge and the pull in speed you can reach. This way the service will have a complete and clear picture about the situation and will be able to help you.
 - The pressure isn't enough at the turbine/machine inlet: first of all engage the gear box placing the lever in working position. If the drum doesn't turn try to increase the pressure or advise the local authorized service and give all the data listed at the previous point.
 - The polyethylene hose has been pulled out, the gear box is properly engaged and all the above mentioned parts have been checked. The gear box may be damaged: call the local authorized service.

2) The machine isn't stable and tries to move.

- The machine hasn't been placed properly and the anchoring "angle iron" rod doesn't match the ground on all its length. Place the machine better to be sure the complete anchoring rod will touch the ground and will hold the machine in its position.
- In case of very hard soil maybe the anchoring rod can't hold the machine: in this case use ground spikes or another method.
- The polyethylene hose has been pulled out, lays on the field and is difficult to pull in. Wait until the soil becomes dry, then shift the polyethylene hose over a little bit by dragging a chain or a rope under it: put the chain under the polyethylene hose and connect it to the tractor lifting system (or hold it by hand) and drive the tractor (or walk) all along the polyethylene hose shifting the polyethylene hose beside. You can also put a wooden block under the polyethylene hose every 6 m (18 feet) or less: the target is to detach the polyethylene hose from the sticky place and also clean it.

3) If the pe hose hasn't been rolled up properly.

- Please check the drum is well aligned with the pulling out direction, pull the hose out and make sure the guide fork is aligned in the proper place. If it isn't, adjust the timing of the guide fork. Then roll up the pe hose with pressure (inside the pe hose). It's possible to roll up the pipe by PTO shaft or by turbine but always with pressure inside to avoid the polyethylene hose excessive ovalization.

IMPORTANT SUGGESTIONS

- During the machine transport the max allowed speed is 10 km/h (6 mph) on good level flat roads.
- Before you roll up the polyethylene hose by PTO shaft please be sure the gear box lever is on neutral (pulling out) position otherwise the gear box and also the machine can be strongly damaged
- The first time you pull the polyethylene hose out to start the irrigation, you have to pull it out completely leaving only 1 or 2 rings on the drum.
- Any modification (that hasn't been authorized in written form by the supplier) invalid the warranty
- If the polyethylene lays on the soil, then it rains, it's possible that the polyethylene hose will stick to the soil so prior to start the irrigation and rewind it, it's mandatory to clean and shift it beside with a rope or chain as indicated at point 2 above
- If the polyethylene hose has been partially pulled out, probably some rings became loose on the drum and it's necessary to pull it out completely to roll it up again so it will be all well tightened.
- If both, drum alignment and polyethylene hose complete rewinding with pressure inside the hose, have been done and you still have problems, pls call the local authorized service.
- Don't pull out the polyethylene hose or achieve any other function on the machine when the hand wheel is mounted on the PTO shaft of the gear box. Always take it off the shaft after use.
- Don't use the machine when the safety guards aren't mounted and always stand clear from any possible squeezing point.

IMPORTANT NOTE: if these instructions will not be correctly followed, if non original parts will be installed or in case of not written authorized modifications the warranty is totally invalid. In this case the producer is not more responsible for any risk, injuries and damages may happen to the operator, to third parties.

ADDITIONAL RISKS

Even if IRRILAND pays attention to avoid dangers for the user during the design and the construction with functions and guards generally safe, it's always possible that some additional risk appear during the use of the machine.

- 1) Risk to get caught and crushed between the drum and the structure during the the drum rotation. This risk is higher during the machine placement and during the polyethylene hose pulling out and rewinding. Be sure nobody is next to the machine when you're moving it and during the polyethylene hose pulling out and rewinding. Only the authorized persons can remain close to the machine, nobody more.
- 2) Pinching and getting caught between the polyethylene hose and the drum during rewinding. Avoid any contact with the polyethylene hose during the rewinding and be sure no unauthorized persons have access to the area.
- 3) Overturn risk: along the machine shifting and moving there's a serious risk to overturn the machine. The risk increases a lot if the slope is more than 6°. Drive with particular attention, don't increase the speed and drive through the best parts of the road. In case of excessive risk drive back and look for another way. If you move the machine by hand (no tractor) be particularly careful and do it only if the area is completely flat. In case of any slop it's mandatory to use a tractor of the adequate power and weight.
- 4) Electricity risk: during the irrigation the sprinkler throw can match the power cables. The risk of a very dangerous electric shock through the metal structure is very high. Be sure there aren't electric lines in the sprinkler radius all along the pull.
- 5) Risk to impact directly the sprinkler throw. When the machine will be started and the water will be supplied to the machine, the throw can start suddenly and strong. It's always better to release the flow partially till the water pass through the sprinkler and then increase it till the normal working flow. Anyway be sure nobody is next to the sprinkler when you start the machine.
- 6) Shock risk against plugs and couplings of the machine and the flex hose. Don't open nor disconnect the plugs and the couplings with the pressure inside. Be sure there's no pressure before you release any plug or coupling. Control them carefully before you get pressure in the machine.
- 7) Risk of incidents on roads. Set up the sprinkler cart and the sprinkler in a way that the water throw will not wet a traffic area to avoid damages to persons and things.

SHIFTING OF MACHINES CONNECTED TO PRESSURISED MAIN LINES

When the machine has finished the cycle, pls reduce the pressure at the machine as follows:

- 1) Shut off the hydrant valve (where flex supply hose of the machine is connected to the mainline) and in case the machine is equipped with a shut off valve, open it (or open the discharge valve on the turbine if available).
- 2) When the pressure gauge indicates pressure "0" and there's no more pressure in the flex supply hose you can disconnect the couplings of flex supply hose and shift the machine to the next position.

ADJUSTING THE TIMING OF THE HOSE GUIDE FORK

Check that the hose guide fork is positioned properly: it has to be well aligned with the pe hose when the pe hose has been completely unrolled. If you need to adjust the guide fork position please do so as follows:

- FIRST OF ALL STOP THE MACHINE!!
- take the snap ring that retains the scroll bar insert off the block (Fig 27 pos 58).
- take the insert out of the block pulling it out by the grease fitting and note carefully the direction (position) of the half moon (fig 28 pos 59).
- Align the guide fork to the polyethylene hose and put the insert inside the block paying attention the half moon is in the same direction as before.
- put the snap ring back in its place and ensure it's well positioned all inside the groove.

