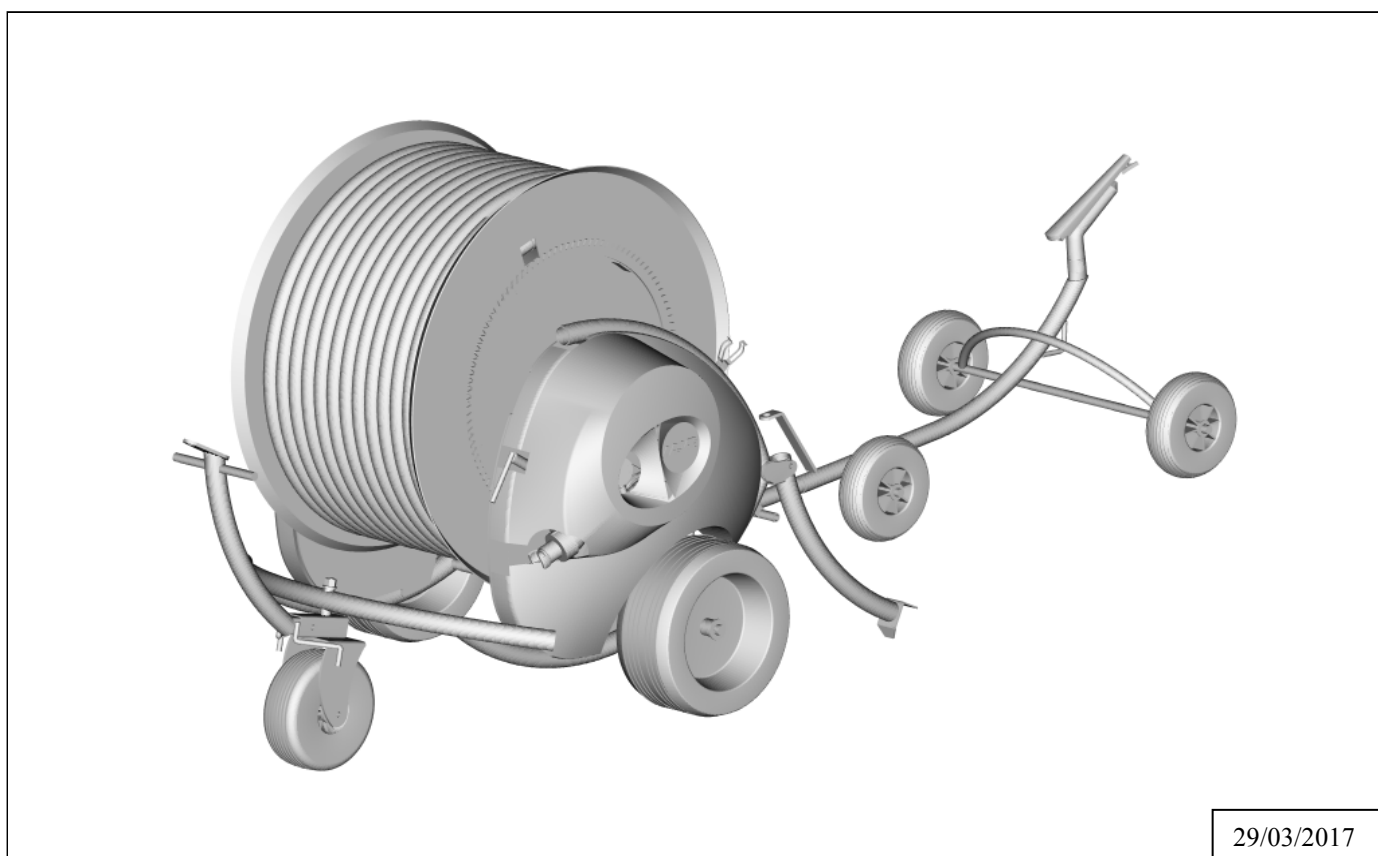


MAJAR®

USER AND SERVICE INSTRUCTION MANUAL

SPARE PART LIST

– Translation of the original instructions –



TURBINE SPRINKLER **OLYMPE 6000**

Please read the following instructions carefully before operating the machine and refer to them as needed. If you do not understand a part of the user manual, please contact your MAJAR reseller or:

MAJAR S.A
1 Route de Montréal - CS30074
11890 CARCASSONNE Cedex 9
FRANCE

TABLE OF CONTENTS

FOREWORD.....	2	Transport and Maneuvers.....	8
TECHNICAL DATA.....	3	Installation.....	9
INSPECTION CHECKLIST.....	3	Adjustments.....	10
DESCRIPTION.....	4	MAINTENANCE BY USER.....	11
SAFETY REGULATIONS.....	5	TIGHTENING TORQUE.....	11
SAFETY STICKERS.....	6	MALFUNCTION AND REMEDY.....	12
INSTALLATION AND COMMISSIONING.....	7	DECLARATION OF CONFORMITY....	12
Conditions and Safe use Precautions	7	GUARANTEE.....	13

FOREWORD

Please read this user manual and the manual delivered with the cardan before operating your machine, the information allow you ensure quality work in complete safety. If the manual is not clear enough, please contact our technical service.

The security depends on the use of the machine with the limitations explained in this manual. You have to know and to follow the safety regulations of this manual and of the tractor manual.

The machine you bought was carefully designed and manufactured in order to give you complete satisfaction. As any mechanical gear, it requires cleaning and maintenance. Lubricate as described. Follow the regulations and safety information given in this manual and on the security stickers of the machine and the tractor.

For maintenance your MAJAR reseller has the competency and the original pieces to respond your needs.

Enter below model and serial number of your machine for reference.

MODEL :

SERIAL N°:

In line with the goals of continuous improvement MAJAR reserves the right to change the machines without changing the sold machines. The illustrations and characteristics of this manual may vary slightly on your due to production changes.

No part of this manual may be reproduced, copied or made public by whatever means without authorization of MAJAR.

Throughout the manual the terms “left” “right”, “front” “rear/back” are given referring to the driver’s position. The term IMPORTANT is used to indicate that a failure may cause damages for the machine. The terms WARNING and DANGER are used with safety alert symbols to indicate the degree of safety hazard.



This symbol means: attention, be careful, your safety is involved. It reminds the safety instructions or focuses your attention to dangerous practices which may cause injury or operational occurrence.



WARNING reminds the safety regulations: may cause injury if not observed



DANGER reminds the safety regulations: may cause irreparable, lasting injury or cause death if the good precautions are not taken

TECHNICAL DATA
OLYMPE 6000

TABLE OF IRRIGATION PERFORMANCES

Ø Nozzle mm	Winding Pressure (bar)	Sprinkler Pressure max. (bar)	Reach max. m	Debit m ³ /h	Speed for 10mm m/h	Conversion for adjustment m/10mm	Speed max. m/h
7	2.5	2.2	17	2.6	10	1.65	12
7	3	2.6	18	2.8	11	1.85	18
7	4	3.4	19	3.2	13	2.2	22
7	5	4	20	3.6	13.5	2.25	26
8	2.5	2	17	3.3	11	1.85	19
8	3	2.2	17.5	3.5	12	2	24
8	4	3	18	4.1	14	2.35	30
8	5	3.5	19	4.4	15	2.5	35
10	3	1.7	17	4.6	15	2.5	28
10	4	2.4	18.5	5.8	16	2.65	30
10	5	2.8	20	6.1	17	2.85	42

CARACTERISTIQUES

- Tare weight: 360 kg - Width: 114 cm - Length: 181 cm - Height: 150 cm
- Polyethylene pipe Ø40 mm length: 120 meters
- Working pressure 3 - 8 bars
- **Connectivity by symmetric coupling Ø30**

INSPECTION CHECKLIST

The assembly, installation and commissioning of the machine is the MAJAR reseller's responsibility. Please read carefully the use and care manual and the safety regulations. Make sure that the indicated points of the checklist had been verified before delivery and on delivery and amended if necessary before delivering the machine to the owner.

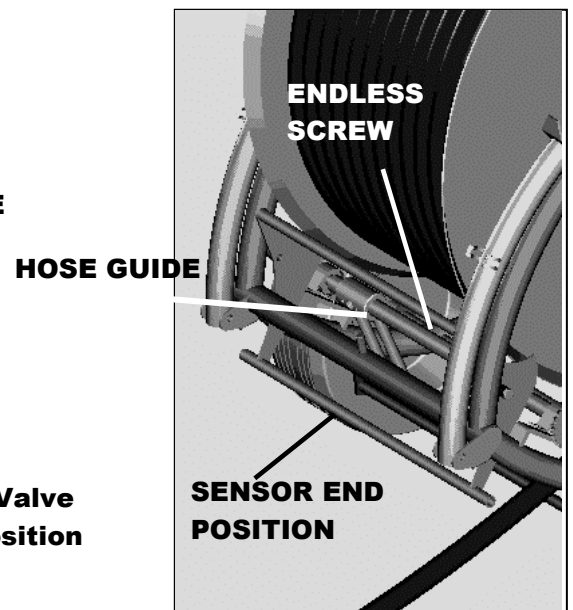
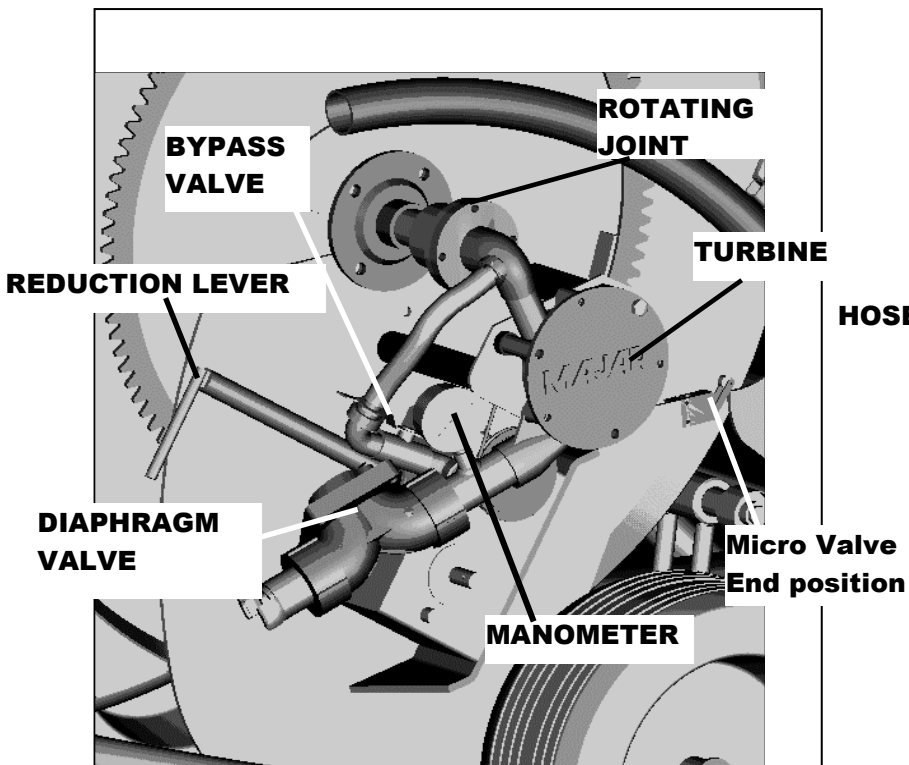
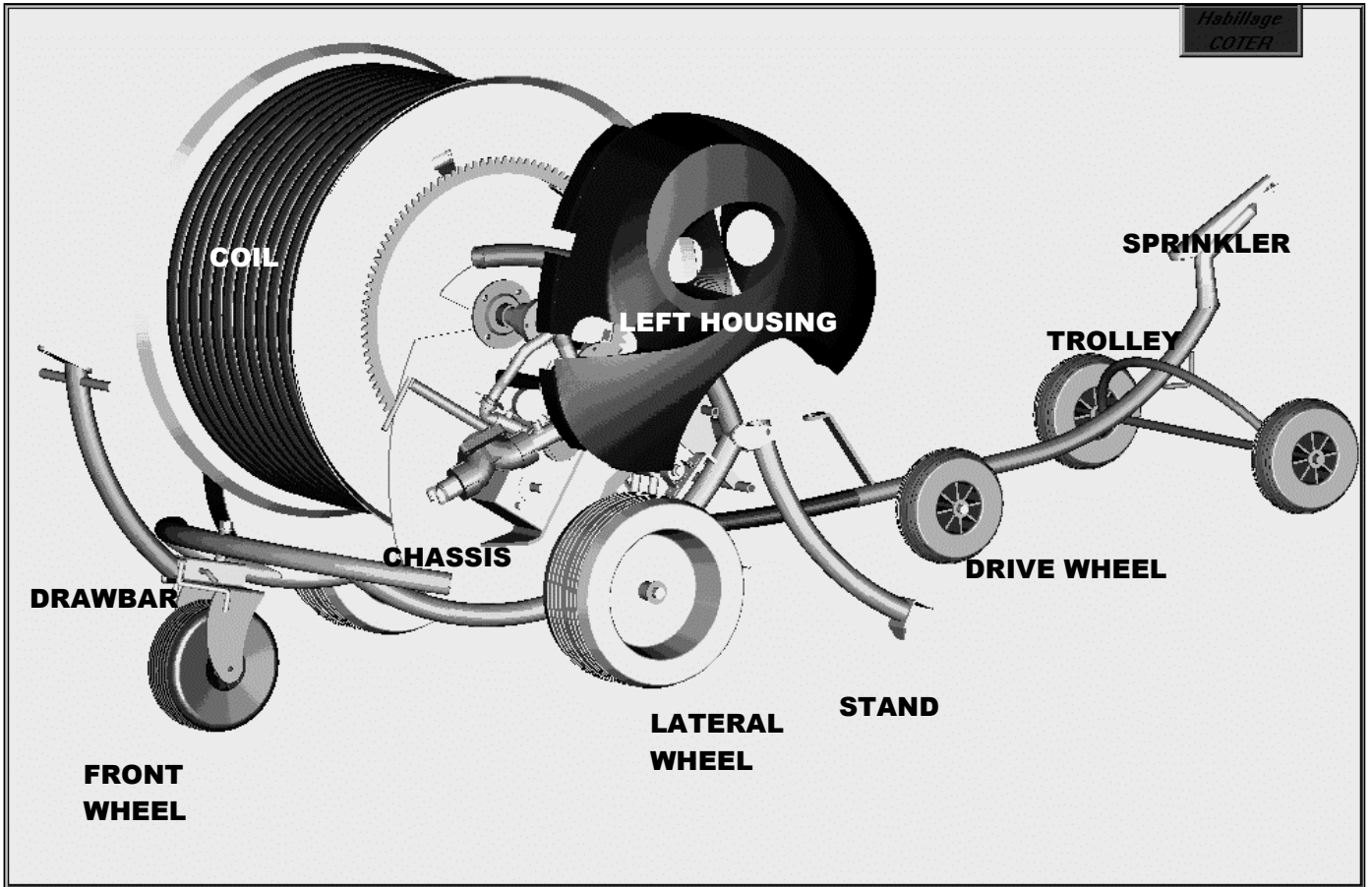
INSPECTIONS BEFORE DELIVERY

- Check that all the safety screens, grids and safety measures are in place and in good condition
- Check that all screws and bolts are tightened to the right torque value (see table)
- Make sure that the safety stickers are in place and in good condition
- Check tire pressure
- Check the other lubrication points, apply new grease if necessary,
- Check oil level on angular gearbox
- Check that the machine is operating correctly

VERIFICATIONS AT DELIVERY

- Show the client how to mount the machine and how to realize the tool adjustments
- Explain the importance of lubrication and show him the lubrication points
- Show him les safety devices, safety measures and options
- Present the use and instruction manual to the client, ask to read it.
- Explain to the client to use the adequate signage when driving on the road

GENERAL DESCRIPTION



SAFETY REGULATIONS



WARNING

Some illustrations may show the machine without protective screen or shield. Never use the machine without these devices.

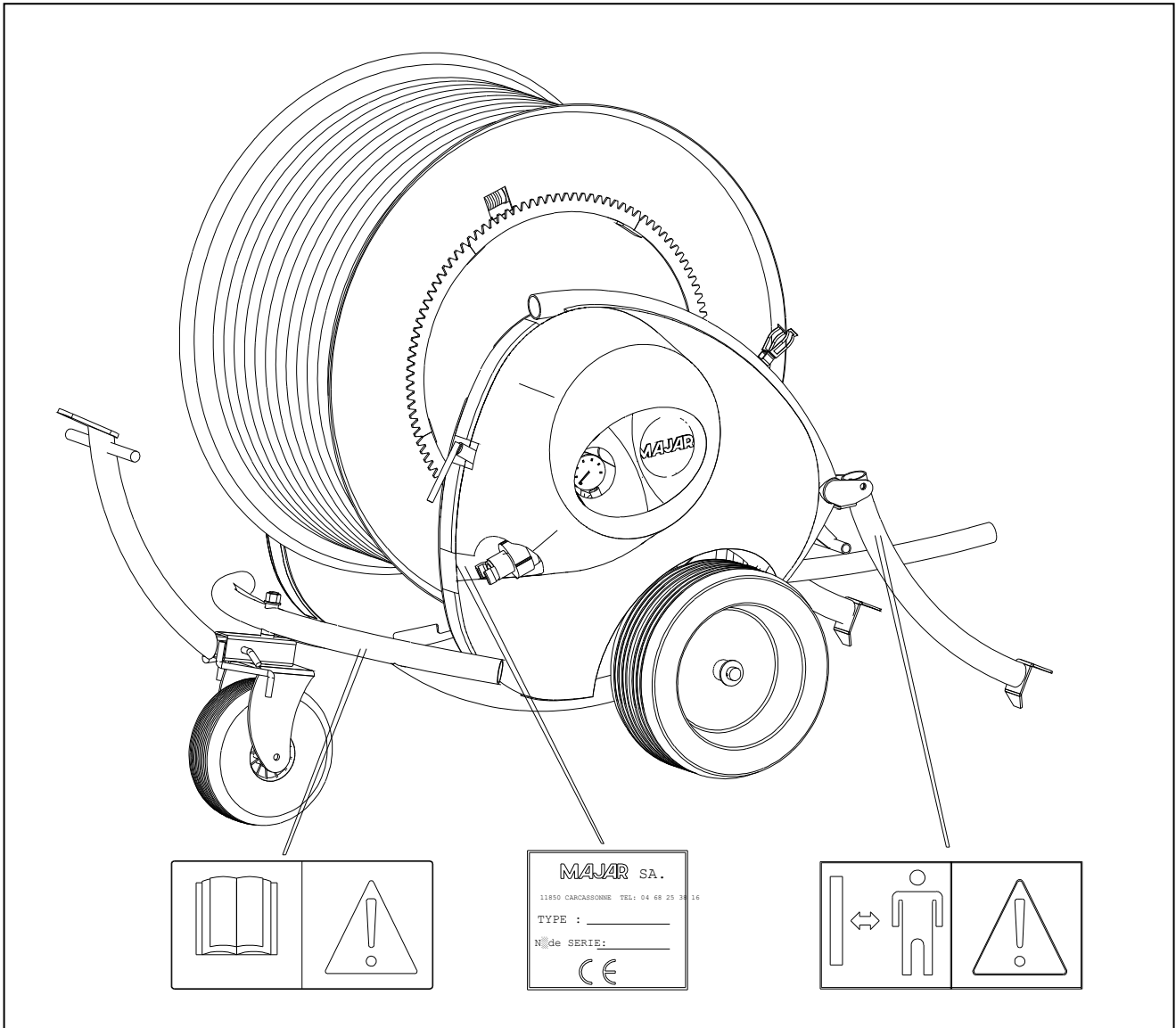
- *Learn how to stop the machine in emergency situation. Read this manual.*
- **Actuate the anti-derailing sensor to stop the winding and turn off water.**
 - ATTENTION : gradual stop, please wait a few seconds**
- **Maneuver the lever of the reducer to stop winding and loosen tension of the hose coil.**
- *Never let anyone else use this machine if the person did not read and understand this manual.*
- *Never let children use this machine*
- *Check periodically tightening torques of all fasteners.*
- *Make sure that the safety stickers are in place and in good condition*



DANGER : Do not use or move the machine on grounds with more than 10 % of banking.

- Make sure that the reducer lever is in winding position when you move the machine to avoid unrolling the hose.
- The moving speed of the drawn implement must not exceed 20 km/h on the road and must be reduced on bumpy ground.
- Use the appropriate signage when you move the machine in public traffic.
- While unrolling the hose, make sure that nobody is in the vicinity of the machine and on the axis of unrolling.
- Remain close to the machine during the first minutes of winding to ensure a successful functioning.
- Disconnect water and check that there is no tension anymore en eau before any intervention on la machine.

SAFETY STICKERS



Read carefully the instructions
Before using the machine

Identification and
conformity plate

Move away
from the machine

A sticker in front

A sticker on the right and
one on the left side

Replace immediately if worn or damaged

INSTALLATION AND COMMISSIONING

The installation and commissioning of the tool are the responsibility of the MAJAR reseller. The machine must be delivered fully mounted, lubricated and adjusted to the normal operating conditions.



Check the tightening of the bolts; see table tightening torque at the end of the manual

The safety is a challenge that concerns the most while designing and manufacturing this tool. However, the efforts of the constructor may be shattered due to user carelessness. The accident prevention depends on prudence and training of staff in charge of using and maintenance of the machine. The best safety device is a careful and informed user; we ask you to be this user.

The user of this machine is responsible for the use and safety. The user has to be qualified and trained to the machine and he also has to know the tractor. Read all the safety instructions.



WARNING

Never use the machine without having done the operations described in chapter « daily maintenance ».

CONDITIONS AND PRECAUTIONS FOR THE USE

The machine is designed to work under certain conditions. Its performance and service life depend on respect.

- Pressure min.: 3 bars – max.: 8 bars
- Sprinkler: nozzle diameter 7 - 12 depending on pressure
- **Max. Speed of hose unrolling: 3 km/h** (2.5mn for 120 meters)
- Do not leave the hose unrolled more than 24 hours.
- Maximal banking: 13 %
- Make sure that the ground where you unroll the hose is the least aggressive to minimize wear of the hose.

TRANSPORT AND MANOEUVRES

WARNING

Before moving or transporting your machine, make sure that the hose is tensioned on the coil.

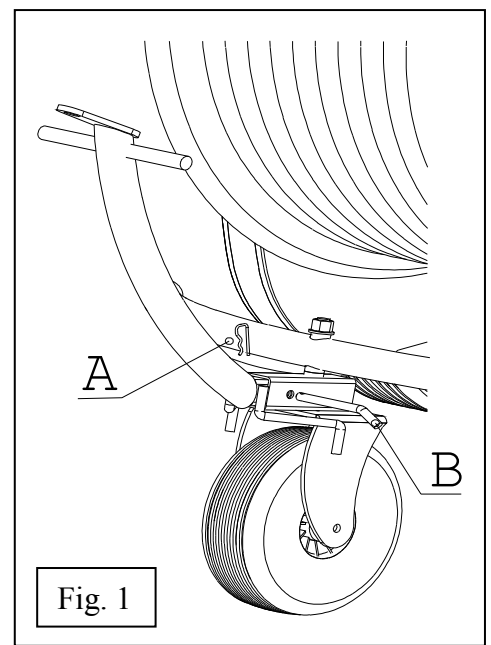
Place the reducer lever in position '0' (Fig.4), maintain with coil Tensioned and place the lever in position 1.

• **HAND-OPERATED SWITCH (fig.1)**


Place the pin A and remove B.

Place the drawbar upwards.

Replace B and A. Fig.1



• **COUPLING in TOWED POSITION (fig.2)**

 **ATTENTION** : The tractor must be equipped with a linkage between 20 and 30 cm from the ground.

The fixation of the drawbar in the clevis must be secured with an axle diameter between 16 and 20 mm.

Make sure that the swing radius is sufficient checking that no part of the device is in touch with the vehicle when turning. Make sure that the front wheel is lifted (more than 10 cm from the ground).

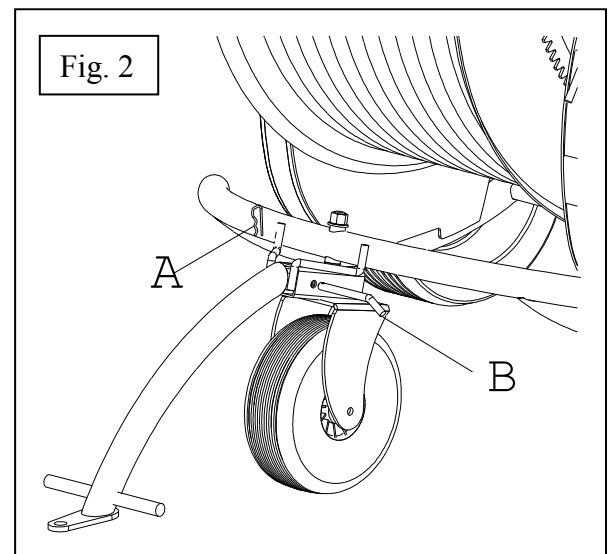
Pivot the front wheel support to put the device in the axle.

Place the pin A and remove B.

Place the drawbar downwards.

Replace B and A.

Lift the drawbar and stow it to the vehicle, place the articulation axle and secure it.

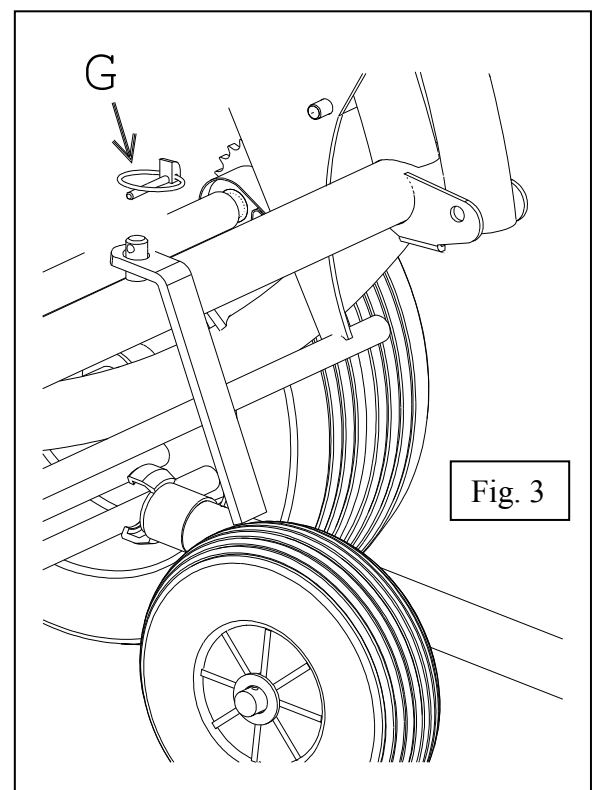


• **HANGING OF THE TROLLEY (fig.3)**

Disconnect the trolley.

Place the reducer lever in position '0' (Fig.4), maintain the coil tensioned and replace the lever in position 1.

Hang the trolley on the axle behind the chassis and secure replacing the pin G.



INSTALLATION

See also chapter « First use ».

- Place the device in the axle where you are going to unroll the hose. Unwinding and winding of the hose must be done as perpendicularly as possible to the coil.

- Tilt the 2 stands and reinforce with the foot D-(Fig.5)

- Place the reducer lever in position '0' (Fig.4).

- Connect the trolley to the hose.

- Unwind slowly (3km/h) pulling the trolley with a vehicle type micro tractor or garden tractor.
(soldered ring on the trolley to hook a rope.)

- **Make sure that the remaining spires are tightened And tensioned on the coil.**

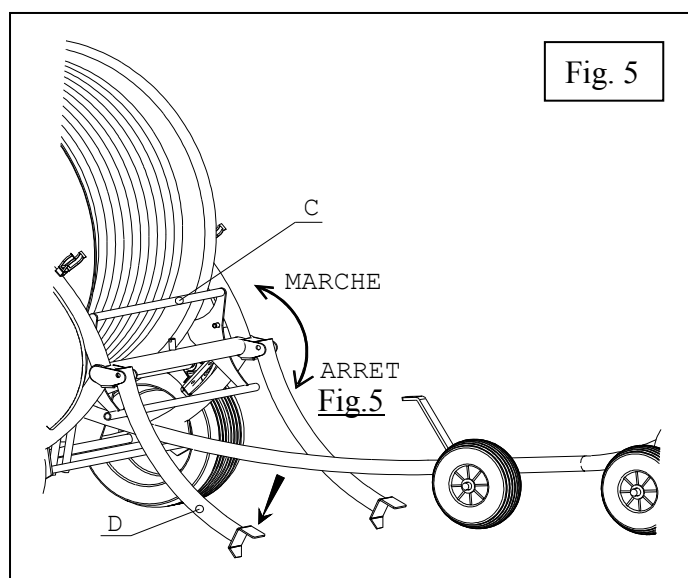
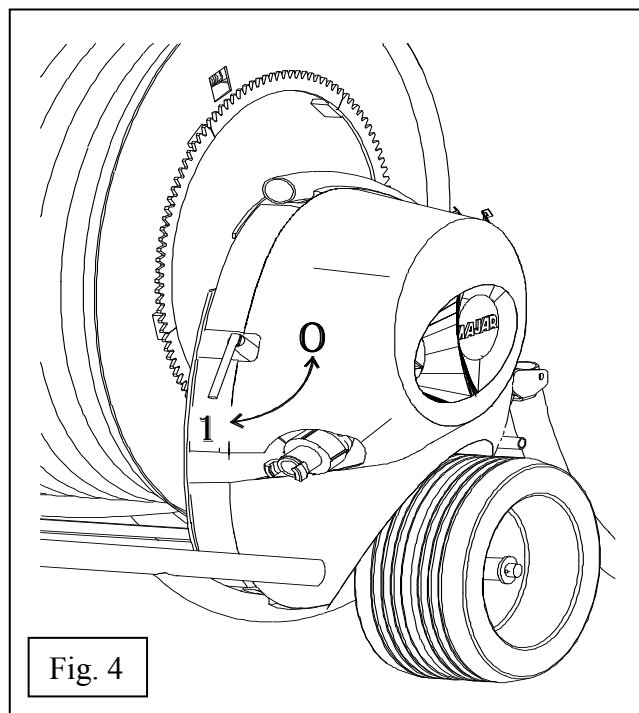
- Place the reducer lever in position '1' (Fig.4).

- Tilt the sensor C-(Fig.5) upwards (ON position).

- Purge arrival to avoid sand or gravel in the device.

- Connect hose to water.

- Open slowly water.



ADJUSTMENTS

- Winding speed adjustment
- Speed has to be adjusted with unwinded hose on the biggest length and when the winding has tensioned the hose-trolley assembly.

- Place housing on the water arrival side.
- Open the by-pass valve (pos.O-Fig.6).

Close progressively the valve until you obtain the desired speed. (see table 3 for speed control).

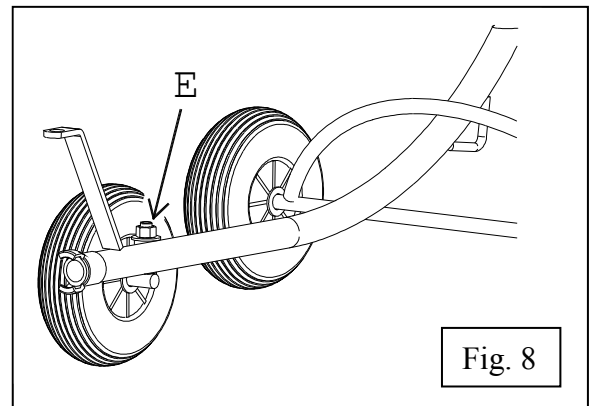
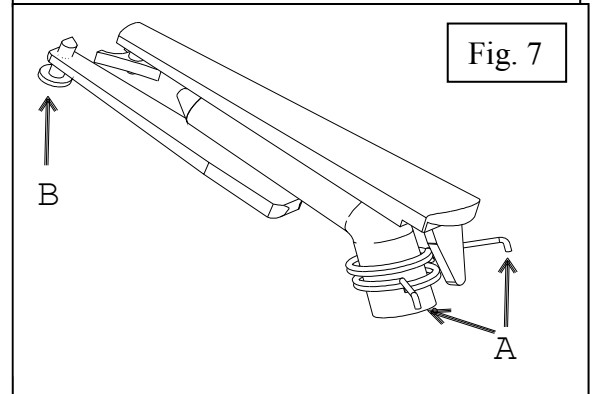
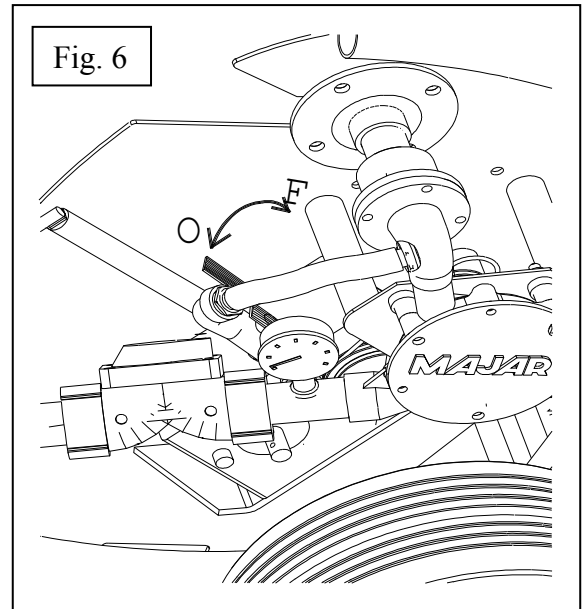
Nota: high speed (valve closed) reduces the sprinkler performances. A nozzle with small diameter reduces the winding speed.

In general, the belt must be placed on the small diameter of the pulley on the turbine side and the big diameter on reducer side. Place it differently if you want very high speed.

- Replace housing.

- Sprinkler adjustment
 - Move the sector stops A-Fig.7 to adjust the sprinkler offset.Screw and unscrew the screw B to adjust the aerator effect.

- Trolley adjustment
 - The direction wheel of the trolley must be adjusted So that the trolley comes in line with the device.Unscrew nut E-Fig.8 and place the wheel to correct The trolley trajectory.



- Verifications at the first starting up

- Make sure that the general points of the chapter « Inspection Checklist » at the beginning of the manual are controlled.
- Check that the nozzle diameter on the sprinkler is suitable to the conditions of use.
- Unwind the hose for one meter and start up.
- Check for leaks.
- Control that at the end, the automatic stop works correctly after a few seconds.
- After a complet winding, control tightening of all fasteners.(See tightening torque in chapter « maintenance »)

MAINTENANCE BY USER

DAILY MAINTENANCE BEFORE STARTING WORK

- **Lubrication:** Ensure that the chain and the endless screw of the hose guide are sufficiently greased.
- **Tire pressure:** front wheel and trolley wheel = 1.5 bar -- side wheel of chassis = 2 bars.

MAINTENANCE AFTER EVERY CAMPAIGN OR ONCE A YEAR

To ensure security and reliability of your machine, only use original pieces.

- Clean the machine completely from accumulations of materials or debris that reduce the yield or hide leak or failure.
- Check the tightening torque specified on the table below.
- Eliminate the rust and touch up paint if necessary.
- Check the general condition of the machine.
- Drain oil in angular gearbox during the first year and fill up until the level. Use oil 80W90 A.P.I G.L4 or 5.
- Check for potential leaks, retighten the plug and change seals if necessary.
- Adjust chain tension: To stretch, move the free pinion towards the coil pinion. The free pinion must have about 2 cm offset.
- Degrease and clean completely the endless screw – re-grease – Use solid lubricating grease: Molykote 165T. for open transmissions.
- Place the front wheel and re-grease the roller bearings.
- Replacement of seals: - Swivel connector coil side: replace the two seals q-ring (ref.Majar 082268) and wear ring (ref.Majar 080937)
- Mechanical seal turbine: replace the rotor and the stator. (ref.Majar 082510/082511)
PLEASE CONTACT YOUR DEALER FOR SEAL REPLACEMENT
- Adjustment and dunnage of the hose guide: Contact your dealer or one of the sulter votre revendeur ou un de nos technicians for this operation.

TIGHTENING TORQUE

Screw Diameter (mm)	Wrench size (mm)	Torque setting (daN.m)
8	13	2.5
10	16/17	5
12	18/19	8.5
14	21/22	13
16	24	21.5
20	30	43.5

MALFUNCTION AND REMEDY

PROBLEM	CAUSE	REMEDY
The sprinkler does not water	No pressure on the rewinder	Control pressure with monometer and your water supply.
	Diaphragm valve closed	Tilt the sensor at the end
The decive does not wind	Diaphragm valve or microvalve in end defective or incorrectly connected	Contact your reseller or technical service
	Reducer disengaged	Actuate the reducer lever
	By-pass valve too wide open	Close the valve progressively
	Not enough pressure	Control with manometer
	Canon nozzle too small	Mount a nozzle with bigger diameter and diamètre
	Turbine or diaphragm valve u vanne à membrane obturées	Control the different organs
The hose does not wind correctly	Hose guide stuck	Disengage the reducer and control the coil turning manually. Contact a reseller
	The hose is incorrectly placed or incorrectly tensioned at the beginning of winding	Unwind and tension the entire hose. See chapter
	Hose guide incorrectly set	Contact your reseller or technical service
The trolley does not turn in the axle of the rewinder	The hose is not in the axle of the device	Place the rewinder in the hose axle Adjust the direction wheel of the trolley
	Direction wheel incorrectly adjusted	Adjust the direction wheel of the trolley

C.E DECLARATION OF CONFORMITY

The letters **CE** on the identification plate of this machine certify that it is conforming to EC machine directive 2006/42/CE.

MAJAR SA.	
11850 CARCASSONNE TEL: 04 68 25 38 16	
TYPE :	<input style="width: 70%;" type="text"/>
N°de SERIE:	<input style="width: 70%;" type="text"/>
Année de construction	<input style="width: 70%;" type="text"/>
CE	

The Director,
Jean-Luc Checa

GUARANTEE

Each new manufactured by MAJAR SA is guaranteed as follows below, warranted against defects of construction and assembly and/or of the materials when used appropriately during 1 year.

1° This guarantee is limited to 1 year to the replacement of pieces mounted and recognized as faulty by MAJAR.

2° All pieces requested on guarantee must be returned to MAJAR for inspection, reparation or replacement prepaid postage with proof of purchase of the machine, serial number and carefully packed for protection.

3° The machine must not be damaged, repaired or maintained without authorization from MAJAR. The machine must not have had an accident, been misused, abused or used acting not conform instructions and specifications contained in this manual

This guarantee does not oblige MAJAR or representative to reimburse labor costs or transport costs of the machine for reparation.

NO GUARANTEE WILL BE APPLIED TO THIS EXCEPT THE LEGAL WARRANTY FOR HIDDEN DEFECT.

MAJAR CANNOT BE HELD RESPONSIBLE FOR DAMAGES OR COSTS INCURRED BY THE MACHINE FOR PAR EXAMPLE:

- 1 RENTAL FEES FOR MATERIAL
- 2 LOST OF SALE
- 3 EXECUTION OF WORK CARRIED OUT NORMALLY BY THE MACHINE

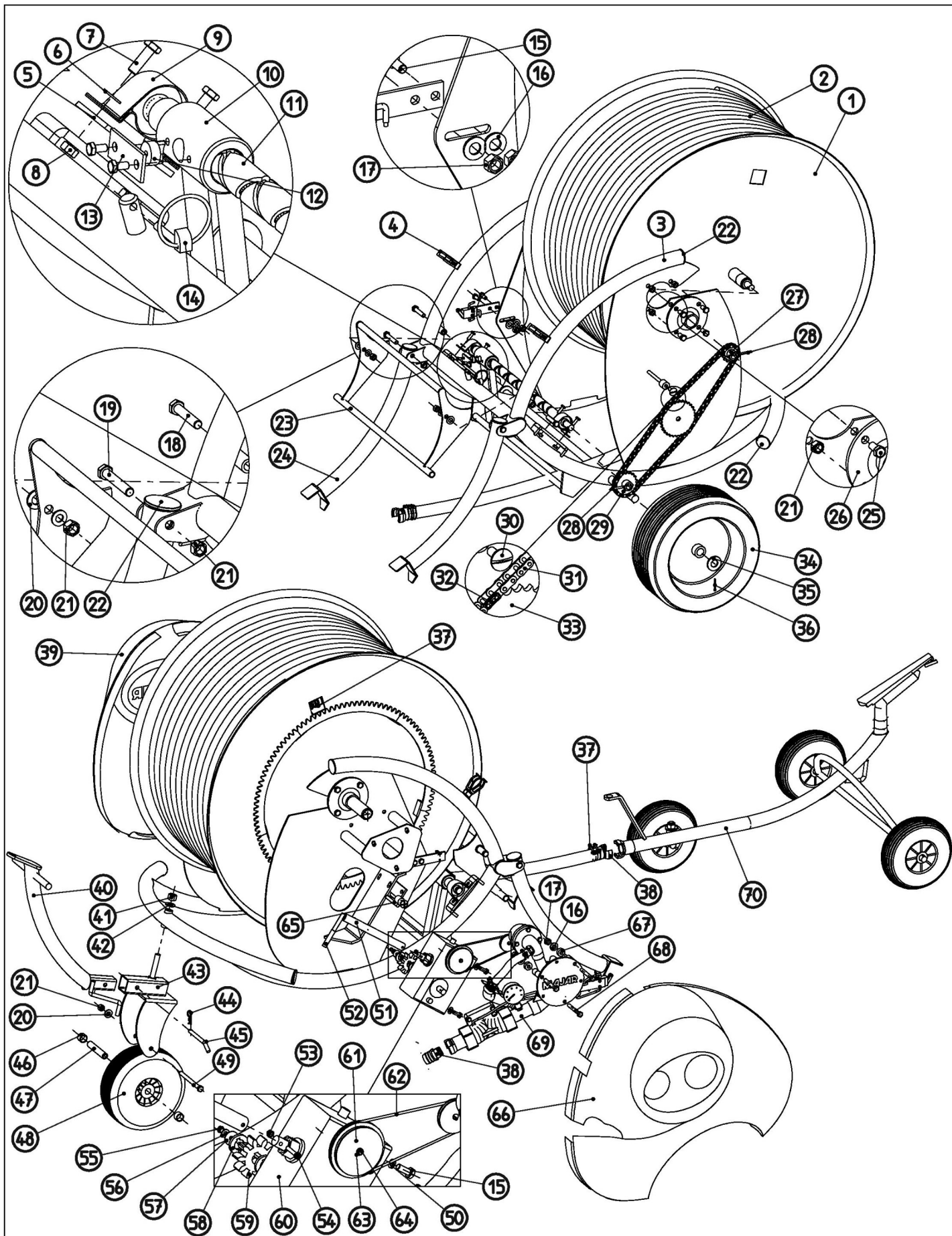
MAJAR ASSUMES NO OBLIGATION AND DOES NOT ALLOW ANYBODY TO ASSUME ANY OTHER OBLIGATION THAN THEM IN THE 3 PREVIOUS PARAGRAPHERS.

To obtain the name of reseller, contact:

MAJAR S.A
1 Route de Montréal
CS30074
11890 CARCASSONNE Cedex 9 France

SPARE PART LIST

According to Article L.111-3 of the Consumer Code and of the Decree implementing the Code N°2014-1482 of 9th of December 2014, the availability duration of indispensable spare parts for use of MAJAR material is **7 years**.



OLYMPE6000G



MAJAR
 RTE MONTREAL
 11850 CARCASSONNE

Tel. 04 68 25 38 16
 Fax. 04 68 72 51 61

26	2	PALIER TOLE	082528	53	1	ECROU FREIN Ø6	9900506	70	1	TRAINEAU GAZON	OTRAIG6000K
25	8	VIS H12 x25/25	9962098	52	1	ETUI	920012	69	1	ENS. ARRIVÉE D'EAU	086059
24	2	BEQUILLE	582056	51	1	LEVIER REDUCTEUR	582052	68	3	VIS H10 x90/30	9961969
23	1	PALPEUR	582055	50	4	RONDELLE GROMER Ø10	9908074	67	3	BAGUE	083465
22	6	BOUCHON Ø45	082370	49	1	VIS H12 x140/36	9961914	66	1	CARTER GAUCHE	082537
21	13	ECROU FREIN Ø12	9900542	48	1	ROUE Ø275 - Larg. 100	082417	65	1	SUP. CARTER GAUCHE	582066
20	4	RONDELLE MØ12	9908012	47	1	TUBE DE ROUE	083467	64	1	VIS CHC M5x12 INOX	9960505
19	2	VIS H12 x70/30	9961912	46	2	ENTRETOISE	045167	63	1	RONDELLE LARGE Ø5	9908005
18	2	VIS H12 x60/30	9961977	45	1	BROCHE	015029	62	1	COURROIE	082526
17	5	ECROU FREIN Ø10	9900540	44	1	GOUPILLE BÉTA Ø3	953003	61	1	POULIE Ø87/98	082520
16	3	RONDELLE MØ10	9908010	43	1	SUP. DE ROUE AVANT	582057	60	1	REDUCTEUR	082507
15	6	VIS H10 x25/25	9962011	42	1	RONDELLE MØ16	9908016	59	4	PIGNON 10 DTS	083461
14	1	GOUPILLE RAPIDE Ø6	082297	41	1	ECROU FREIN Ø16	9900546	58	2	BAGUE	083460
13	1	PLAQUETTE +2 VIS HM6x10	083075	40	1	TIMON	582058	57	1	RONDELLE LARGE Ø6	9908003
12	1	INDEX	083474	39	1	CARTER DROIT	082536	56	1	RONDELLE GROMER Ø6	9908077
11	1	VIS NUE 6000	082532	38	2	RACCORD SYM. CANNELE Ø30	082132	55	1	VIS H6 x20/20	9962008
10	1	GUIDE 6000	582065	37	4	COLLIER DOUBLE GRIPP Ø42	082162	54	1	VIS H6 x35/20	9961973
9	2	PALIER PBØ20	082098	36	2	GOUPILLE V4/45	9907005	REP.	NB.	DESIGNATION	Réf.
8	4	ECROU FREIN Ø8	9900508	35	2	RONDELLE MØ24	9908025				
7	4	VIS HM8 x25/25	9962002	34	2	ROUE 16/650x8 4PR TT	082529				
6	4	RONDELLE ØMØ8	9908008	32	1	ATTACHE RAPIDE	082120				
5	2	CALE PALIER	083473	31	1	CHAINE NORMALE P12,7 Lg1,6	K11006				
4	2	COLLIER LYRE Ø50	082531	30	2	VIS POELIER M10 x25/25	9962024				05/2000
3	1	CHASSIS 6000	582051	29	1	PIGNON BAS	582054				
2	1	POLYETHYLENE Ø40 Lg 120m	082124	28	2	GOUP. MECANINDUS Ø6/45	9907091				
1	1	BOBINE 6000	582050	27	1	PIGNON HAUT	582053				
REP.	NB.	DESIGNATION	Réf.	REP.	NB.	DESIGNATION	Réf.				

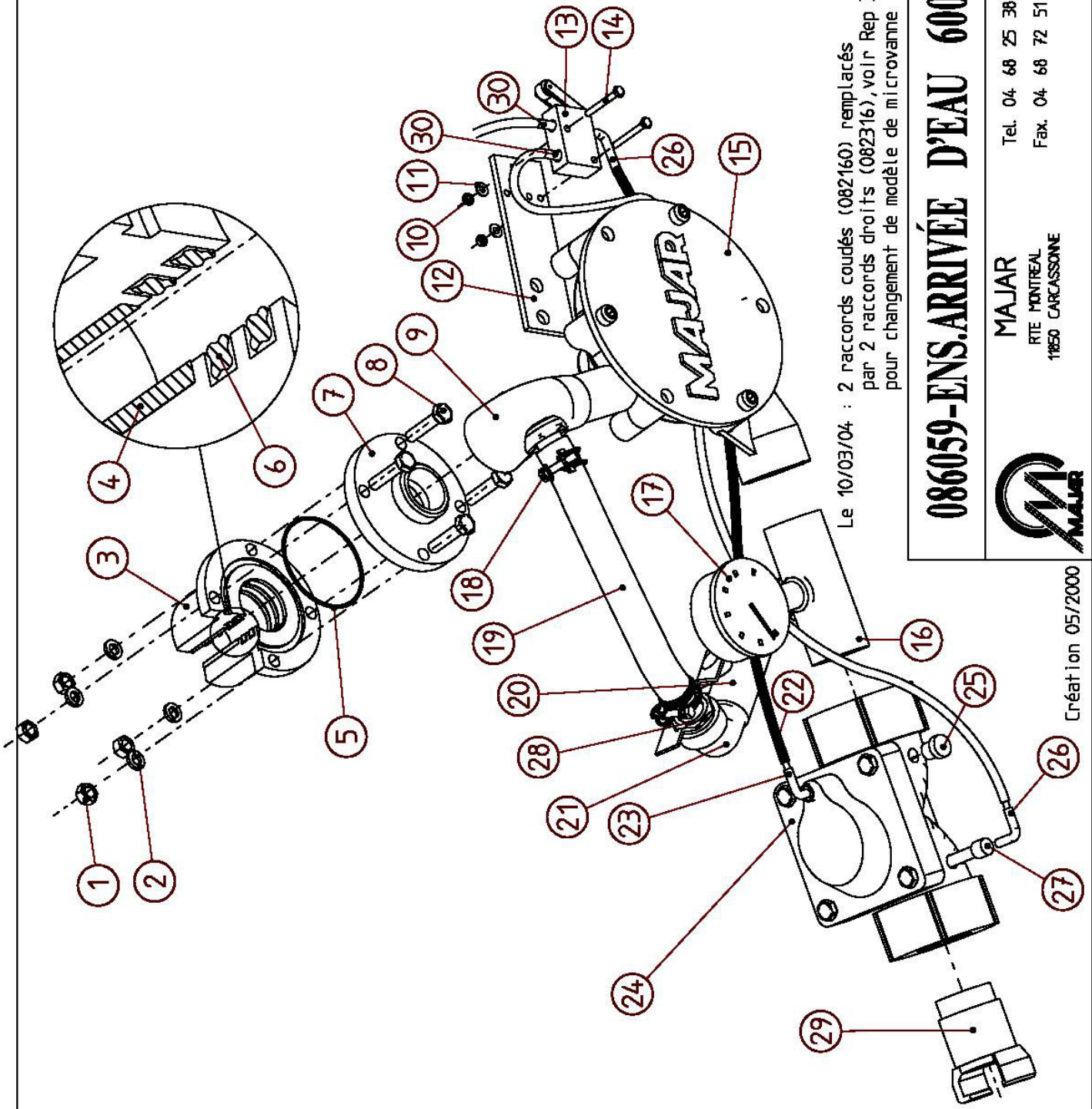


MAJAR
RTE MONTREAL
11650 CARCASSONNE

OLYMPIE6000G

Tel. 04 68 25 38 16
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REP.	NB.	DESIGNATION	REF.
30	2	RACCORD DROIT 1/8 - 4x6	082316
29	1	RAC. SM. VER. FIL. MALE Ø50	082206
28	1	RACCORD CANNELE Ø20-20x27	082524
27	1	FILTRE A CIGARETTE	082367
26	2	RACCORD COUDE 1/8 - 4x6	082160
25	1	BOUCHON Ø8x13	
	1	SUPPORT DE RESSORT	082107R3
	1	METRENE N.E.	082107R2
	1	RESSORT DE VANNE 1"1/4	082107R1
24	1	VANNE A METRENE 1"1/4	082107
23	1	RACCORD COUDE 1/4 - 4x6	082355
22	2	TUYAU RISLAN NOIR Ø4x6	K11005
21	1	COUDE Ø20x27 ZINGLE	082138
20	1	VANNE 1/4 TOUR 21x27	082143
19	1	TUYAU TUVAGRI Ø19 Lg 0,2m	K11022
18	2	COLLIER DOUBLE GRIP Ø27	082646
17	1	MANOMETRE	082183
16	1	RACCORD DROIT	582062
15	1	TURBINE	086058
14	2	VIS H4 x35/35	9961906
13	1	FIN DE COURSE MICROVANNE	082110
12	1	PATTE FIN DE COURSE	083455
11	2	RONDILLE M16x4	9908004
10	2	ECROU H4	9900204
9	1	COUDE SUPERIEUR	582061
8	4	VIS HØ8 x35/22	9961975
7	1	BRIDE ARRIVEE D'EAU	083230
6	2	JOINT O-RING	082268
5	1	JOINT O-RING	082269
4	1	BAGUE METAFRAM Ø40x46x40	080937
3	1	BAGUE AR.EAU	083233
2	4	RONDILLE GROMER Ø8	9908073
1	4	ECROU H8	9900208
REP.	NB.	DESIGNATION	REF.



Le 10/03/04 : 2 raccords coude (082160) remplacés
par 2 raccords droits (082316), voir Rep 30
pour changement de modèle de microvanne

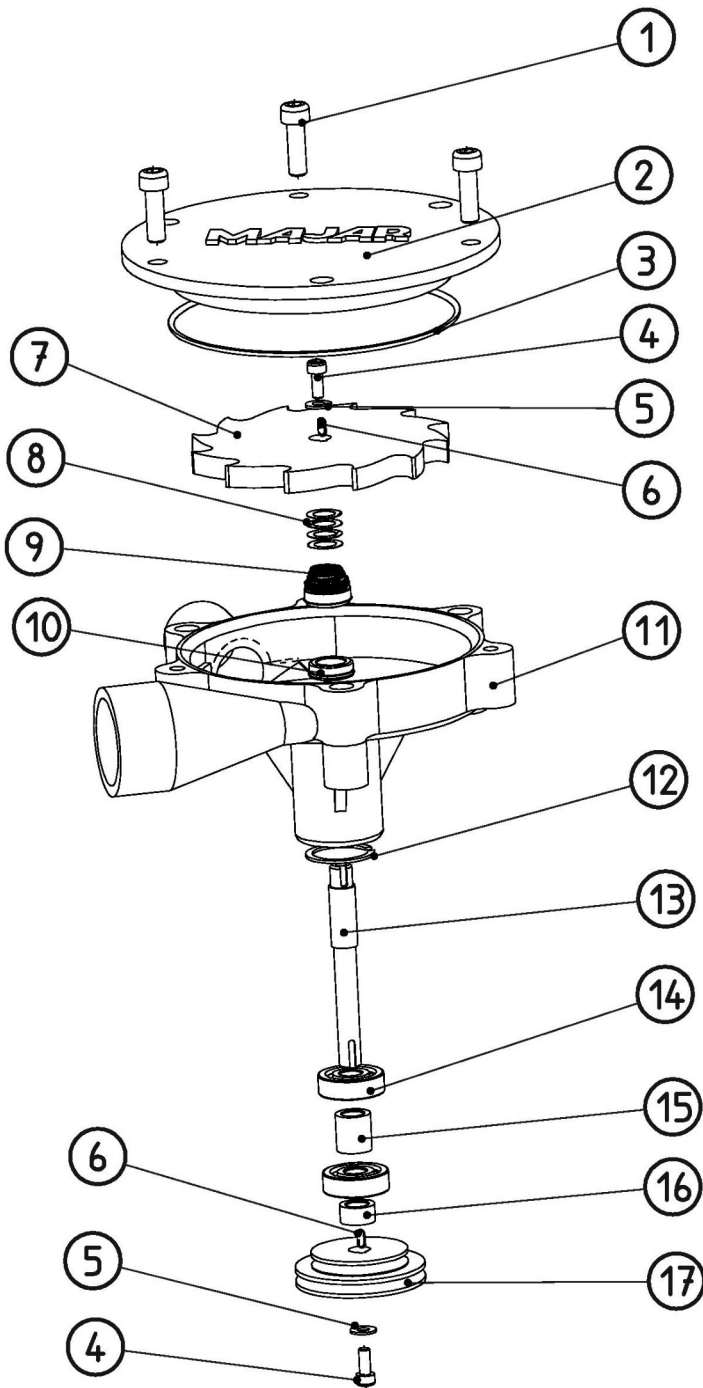
086059-ENS.ARRIVEE D'EAU 6000



MAJAR
RTE MONTREAL
11850 CARCASSONNE

Tel. 04 68 25 38 16
Fax. 04 68 72 51 61

Création 05/2000



17	1	Poulie 44/59	082519
16	1	Entretoise 8	082517
15	1	Entretoise 17	082516
14	2	Roulement	082512
13	1	Axe	082514
12	1	Circlips Ø30i	082538
11	1	Corps	082508
10	1	Stator de garniture	082511
9	1	Rotor de garniture	082510
8	4	Cale d'ajustage	9908001
7	1	ROUE	082513
6	2	Clavette 3x3 L.8	082515
5	2	Rondelle MN 5	9908005
4	2	Vis Chc M5x12	9960505
3	1	JOINT TORIQUE Ø128x3	082518
2	1	COUVERCLE	082509
1	3	Vis Chc M8x25	9960506
REP.	NB.	DESIGNATION	Réf.

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