

Instruction Manual



GR

Drag Type Offset Disc Harrow

GRP

Drag Type Offset Disc Harrow



BALDAN

INTRODUCTION

We thank you for the preference and congratulate your excellent choice in acquiring an implement of outstanding quality, manufactured in accordance with the advanced technology of **BALDAN IMPLEMENTOS AGRÍCOLAS S/A**.

This manual will assist you, in proceeds necessities, since when you bought until the operational proceeds application, security and maintenance.

The **BALDAN** guarantees that deliver this implement to the dealer, working properly, and in perfect conditions.

The dealers it's under the responsibility to keep the protection and conservation while keep the implement in your stock, and than, to assembly, tighten, lubrication and overhaul.

On time of the technical deliver, the dealer must to have conducted the user customer about the manutentation, safety, and your obligations in a possible technical assistance, the obligation to see the warranty terms and read the instruction manual. Any solicitation of warranty, please contact our Baldan technical service, by your Baldan dealer that you bought our implement. Reaffirm the necessity to read carefully of warranty certificate and note all of items from this manual, therefore you will increase the working life of your equipment.



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BALDAN IMPLEMENTOS AGRÍCOLAS S/A.
CNPJ: 52.311.347/0009-06
Insc. Est.: 441.016.953.110



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device and access this
Instruction Manual online.

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01 - SAFETY RULES



THE SAFETY ALERT SYMBOL IDENTIFIES IMPORTANT MESSAGE ON THE MESSAGE ON THE ENGINE, WHEN YOU SEE THIS SYMBOL, BE ALERT TO THE POSSIBILITY OF DEATH OR PERSONAL INJURY. FOLLOW THE INSTRUCTIONS IN THE SAFETY MESSAGE.



WARNING

- Read this instruction manual carefully to know the recommended safety rules.



WARNING

- Only start the tractor operations, when are you properly accommodated and with the seat belt fastened.



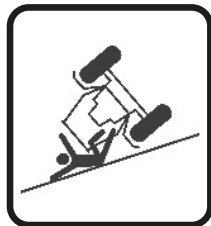
WARNING

- Never carry people over the tractor or equipment.



WARNING

- There are risks of serious injury by tipping when working on slopes.
- Never use excessive speed.





WARNING

• Do not work with the tractor if the front bee without enough weight to the rear equipment. There is tendency to lift, add weights at front or front wheels.



WARNING

• Before any equipment maintenance, make sure that is properly stopped
• Avoid getting hit



WARNING

• Never weld the wheel mounted with tire, the heat may cause air pressure increase and provoke the explosion of the tire.
• When filling the tire, stand at the side of the tire, never in front of it.
• When filling the tire, always use a containment device (filling cage).



WARNING

• Do not perform adjustments while GR/GRP is running.
• When performing any service on GR/GRP, switch off the tractor first. Use appropriate tools.



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WARNING

- The hydraulic oil operates pressurized and can cause serious injuries, in case of leakage. Periodically verify the condition of the hoses. If there are any signs of leakage, replace them immediately.
- Before connecting or disconnecting hydraulic hoses, release the pressure from the system, activating the control when the tractor is turned off.



WARNING

- Keep away from the active seeder elements (discs), they are sharp and can cause accidents.
- Whenever performing any work on the discs, wear safety gloves on your hands.



WARNING

- Dispose residues inappropriately affects the environment and the ecology since you will be polluting rivers, canals or the soil.
- Inform yourself about the proper way of recycling or disposing residues.

PROTECT THE ENVIRONMENT!



ALCOHOLIC BEVERAGE OR SOME MEDICATIONS MAY CAUSE LOSS OF REFLEXES AND CHANGE THE OPERATOR'S PHYSICAL CONDITIONS. FOR THIS REASON, NEVER OPERATE THIS EQUIPMENT UNDER ANY OF THESE SUBSTANCES.



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WARNING

The mismanagement of this equipment can result in serious or fatal accidents. Before placing equipment in operation, carefully read the instructions in this manual. Make sure that the person responsible for the operation is instructed on the proper handling, insurance if you have read and understood the instruction manual for this product.

- 01-  When operating with the implement, do not allow people to stay very close to or on the implement.
- 02-  In making any service mounting and dismounting the disks use gloves in their hands.
- 03-  Before connecting or disconnecting hydraulic hoses, relieve the system pressure triggering the command with the tractor off.
- 04-  Periodically check the state of conservation of hoses. If there is evidence of oil leaks immediately replace the hose, because the oil works under high pressure and can cause serious injury.
- 05-  Do not use loose clothing as they can curl up on the equipment.
- 06-  By placing the tractor engine in operation, is properly seated in the operator's complete knowledge and aware of the correct and safe handling of both the tractor and the implement. Always put the shifter in neutral, turn off the command from the power supply and place the commands in the hydraulic neutral position.
- 07-  Do not run engine indoors without adequate ventilation, because the exhaust fumes are harmful to health.
- 08-  When maneuvering the tractor to the implement hitch, make sure that you have the space needed and that there are people very close, always do the maneuvers in low gear and be prepared to brake in an emergency.









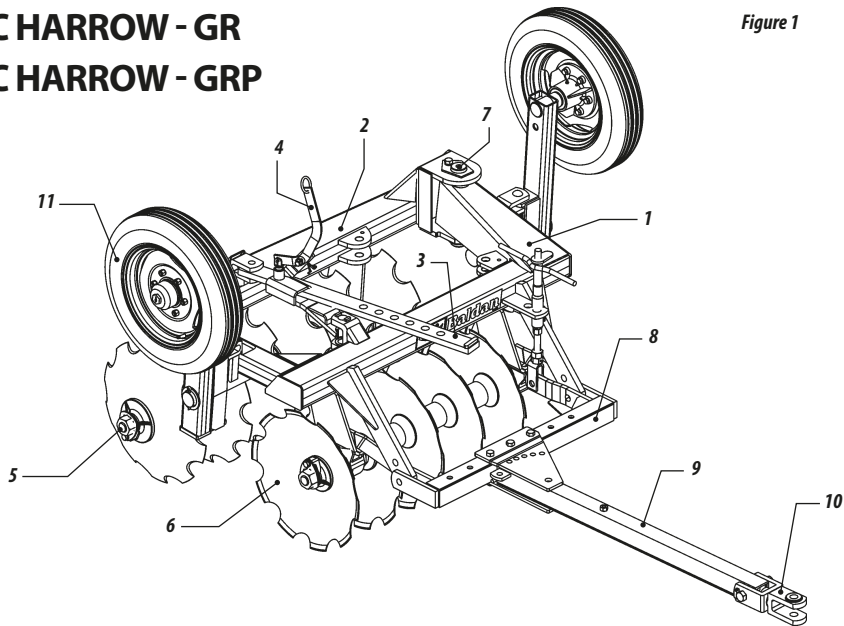
- 09-  Do not make adjustments to the implement at work.
- 10-  By working inclined terrain, be careful trying to keep the necessary stability. In case of early imbalance reduces the acceleration, turn the wheels of the tractor to the side of the slope of the terrain.
- 11-  Always operate the tractor at speeds compatible with security, especially when working in rough terrain or slopes, always keep the tractor hooked.
- 12-  When driving the tractor on the roads, keep the brake pedals connected and use safety signs.
- 13-  Do not operate the tractor if the front is light. If there is a tendency to lift, add weights on the front or the front wheels.
- 14-  When leaving the tractor put the shifter in neutral and apply the parking brake. Never leave the implement hitched to the tractor in the raised position of the hydraulic system.
- 15-  Alcoholic beverages and some medications can cause loss of reflexes and change the operator's physical conditions. Therefore, never operate this equipment under the influence of these substances.
- 16-  Read or explain all the procedures above to the operator who cannot read.

Figure 1

- 01** - Front frame
- 02** - Rear frame
- 03** - Regulation lock
- 04** - Handle lock
- 05** - Rear stabilizer bar
- 06** - Front stabilizer bar
- 07** - Discs axle
- 08** - Discs
- 09** - Axle join frame
- 10** - Transversal bar
- 11** - Header coupling
- 12** - Jumel coupling
- 13** - Wheel



03 - TECHNICAL SPECIFICATIONS

Table 1

Model	Nr of Discs	Disc Spacing (mm)	Disc Diameter (ø)	Axle Diameter (ø)	Working width (mm)	Working depth (mm)	Approx. Weight (Kg)			Required Tractor Power (HP)
							24"	26"	28"	
GR	10	235	24" - 26" - 28"	1.5/8"	1050	150 - 250	765	780	-	48 - 61
GR	12	235	24" - 26" - 28"	1.5/8"	1300	150 - 250	790	815	-	57 - 66
GR	14	235	24" - 26" - 28"	1.5/8"	1550	150 - 250	855	880	-	67 - 77
GR	16	235	24" - 26" - 28"	1.5/8"	1750	150 - 250	985	1020	-	76 - 88
GR	18	235	24" - 26" - 28"	1.5/8"	2000	150 - 250	1185	1220	-	86 - 99
GR	20	235	24" - 26" - 28"	1.5/8"	2250	150 - 250	1250	1290	-	96 - 110
GR	24	235	24" - 26" - 28"	1.5/8"	2700	150 - 250	1390	1430	-	115 - 132
GR	28	235	24" - 26" - 28"	1.5/8"	3200	150 - 250	1910	1970	-	135 - 154
GRP	12	235	24" - 26" - 28"	1.5/8"	1300	150 - 250	980	1020	-	57 - 66
GRP	24	235	24" - 26" - 28"	1.5/8"	1550	150 - 250	1060	1090	-	67 - 77
GRP	16	235	24" - 26" - 28"	1.5/8"	1750	150 - 250	1160	1200	-	76 - 88
GRP	18	235	24" - 26" - 28"	1.5/8"	2000	150 - 250	1410	1450	-	86 - 99
GRP	20	235	24" - 26" - 28"	1.5/8"	2250	150 - 250	1460	1500	-	96 - 110
GRP	24	235	24" - 26" - 28"	1.5/8"	2700	150 - 250	1755	1810	-	115 - 132

Baldan reserves the right to modify any technical specifications without prior notice.

The technical specifications it's approximate and informed by regular conditions of work.

04 - ASSEMBLY

- 01 - Check the parts list that is inside the package box.
- 02 - Before starting the assembly, place protective gloves.
- 03 - The assembly must always start with the disc section.
- 04 - Place on axis item 1, figure 2 washer concave item 2, item 3 a nut, the lock item 4, and secure with the nut section 5 as shown in Figure 2. Note that the nut be faceando with the tip of the shaft.
- 05 - Place on shaft item 1, one disc item 6, one bearing* item 7 * another disc, the spool item 8 and so on as shown in Figure 2.
- 06 - 6 - When the set is complete with all discs, bearings and spools, place the convex washer item 9, the other nut item 3, with a key grip with the whole set until firm.
- 07 - Then, putting all the discs and tighten the nut item 3, by impacts. When it is about getting the maximum tighten, adjust the lock item 4 with covex washer, always tightening the nut to match the holes, fix them through the nut item 5.

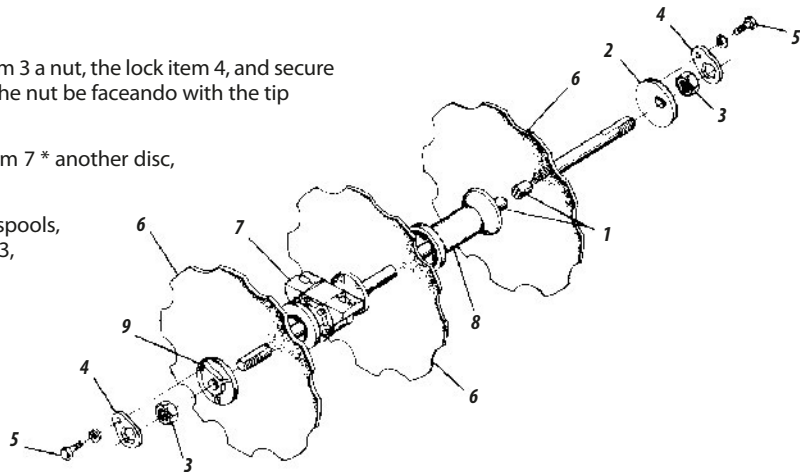
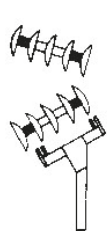


Figure 2

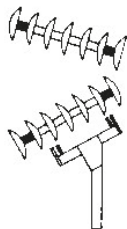
08 - The figure 3, show the sections discs assembly for each harrow model.



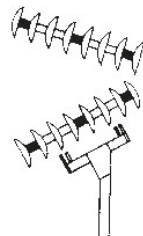
GR 10 Discs



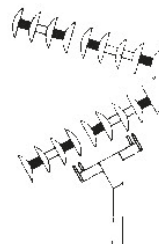
GR/GRP 12 Discs



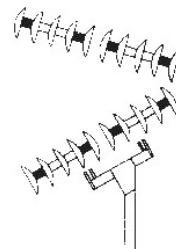
GR/GRP 14 Discs



GR/GRP 16 Discs



GR/GRP 18 Discs



GR/GRP 20 Discs

Figures 3

09 - Assemble the frame with the section of the disc and check that the mounting bracket bearings (shoe) should be face to the concavity of the discs, as shown in Figure 04.

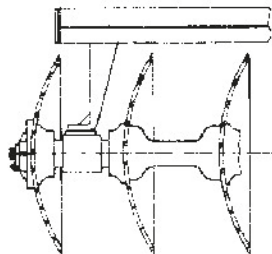
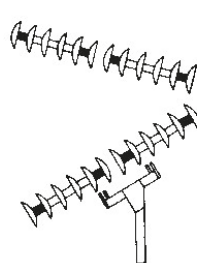
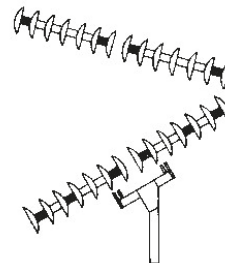


Figure 4

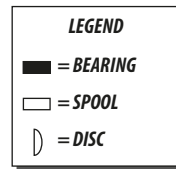


GR/GRP 24 Discs



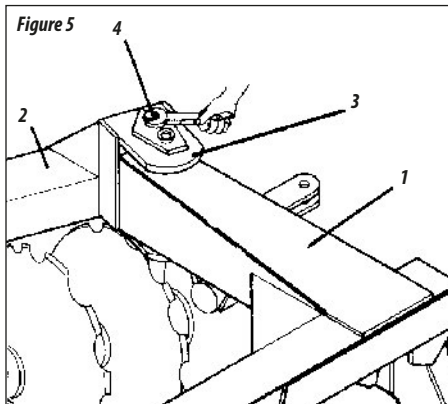
GR/GRP 28 Discs

Figures 3



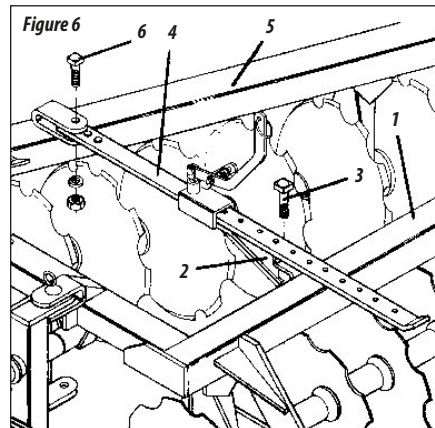
JOIN OF FRONT AND REAR FRAMES

- 10 - Attaching the front frame section item 11 in the rear frame section item 2, through the axis of join item 3, locking it with the bolt lock item 4, as shown in Figure 05.



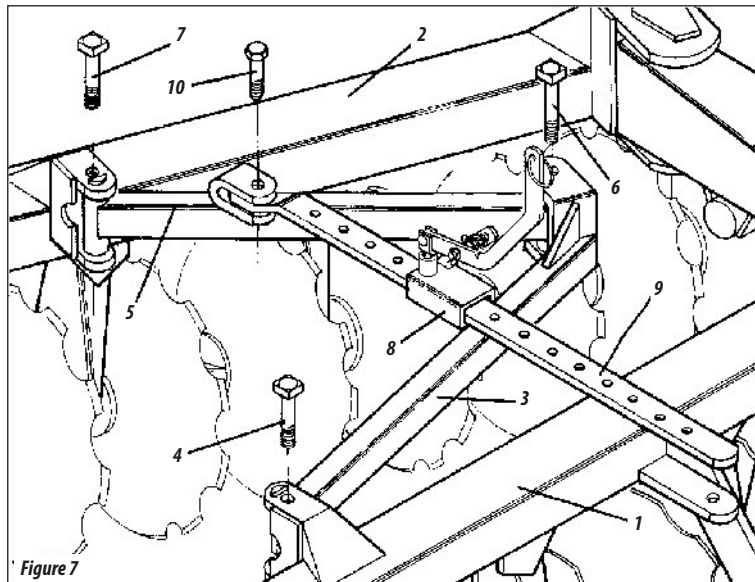
ASSEMBLY OF REGULATION OPENING SET OF DISC HARROW WITH 10,12, 14 AND 16 DISCS

- 11 - Place on the front frame item 1, pull handle item 2, with the pin item 3, pass the ruler lock item 4, Through the inner of the handle lock body, joining the rear section item 5 through bolt item 6, as shown the Figure 06.



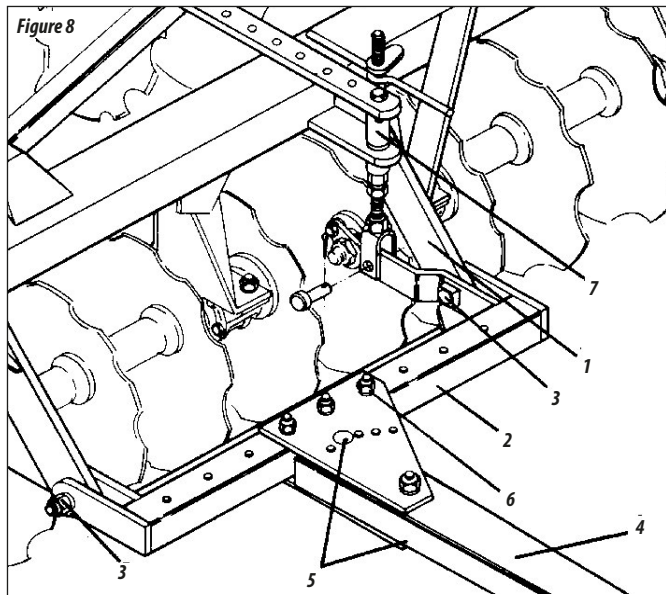
ASSEMBLY OF REGULATION OPENING SET OF DISC HARROW WITH 18, 20, 24 E 28 DISCS

- 12-Place on the front frame item 1, the front stabilize bar item 3, through the join pin item 4.
- 13-Place on rear frame item 2, the rear stabilize bar item 5, through the join pin item 7.
- 14-Coupling the front stabilize bar item 3 and rear item 5, through the join pin item 7.
- 15-Place the pull handle item 8, on right stabilizer bar, passing the strip lock adjustment item 9, by the inner of the handle lock body, joining it to the rear stabilizer bar through the bolt item 10, as shown in Figure 07.



HEAD OF HITCH ASSEMBLY

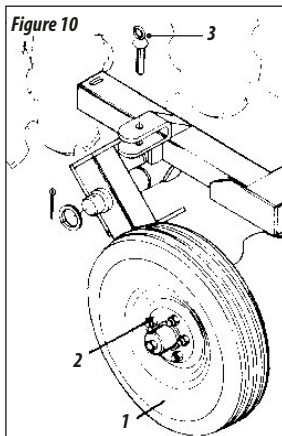
- 16-Place the transversal bar item 2 on front frame item 1 with bolts item 3.
- 17-Place the header coupling item 4, joining the transversal bar through the bottom plate and top item 5, with screws item 6.
- 18-When the harrow has tires, put the handle latch header item 7 on the cross bar item 2 and front frame item 1, as shown in Figure 08.



HITCH OF STABILIZER BAR

Figure 9

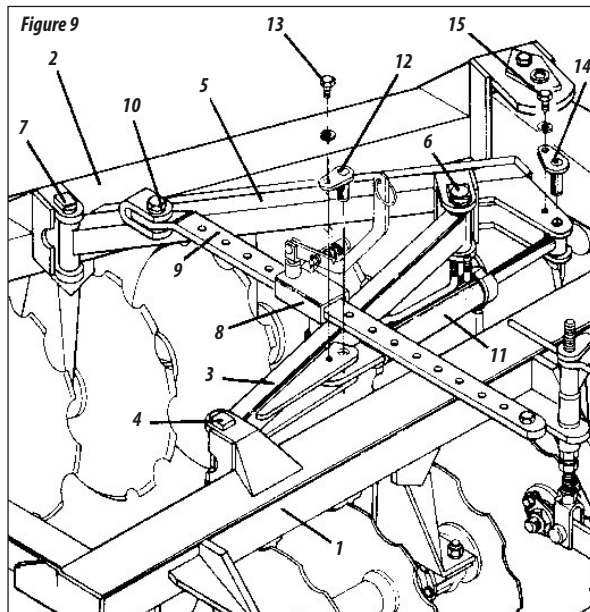
- 19 - The assembly of the stabilizer bars follow the same as harrows without piston, adding the assembly as follows:
- 20 - Place the piston item 11, so that the base of the cylinder is placed in front stabilizer bar, item 3, through the pin, item 12, locking it with bolt, item 13, and piston handle fixed to the rear stabilizer bar, item 5 through the pin, item 14, locking with bolt, item 15, as shown in **Figure 9**.



WHEEL HITCH

Figure 10

- 21 - Set the wheel item 1 in the hub, through the nuts item 2.
- 22 - Place the lock pin wheel item 3 on frame, as shown in **Figure 10**.



SCRAPER ASSEMBLY

- 23 - Set the scrapers item 1 in the front and rear frames, with bolts item 3, as shown in Figure 11.
- 24 - Note in the figure that, in the spacing where the bearings are fixed, there is no need of scrapers.

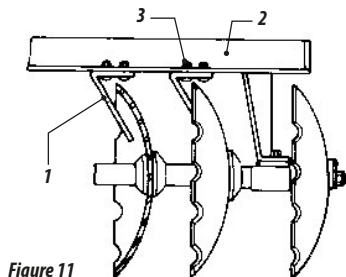


Figure 11

HARROW HITCH

- 25 - To hitch the harrow on the drawbar of the tractor, must check the alignment, adjust the exact height of the hitch of the harrow, use the L coupling pin and cotter pin it as shown in Figure 12.
- 26 - To hitch the harrow, find a safe place and easily accessible, always use low gear at low speed.

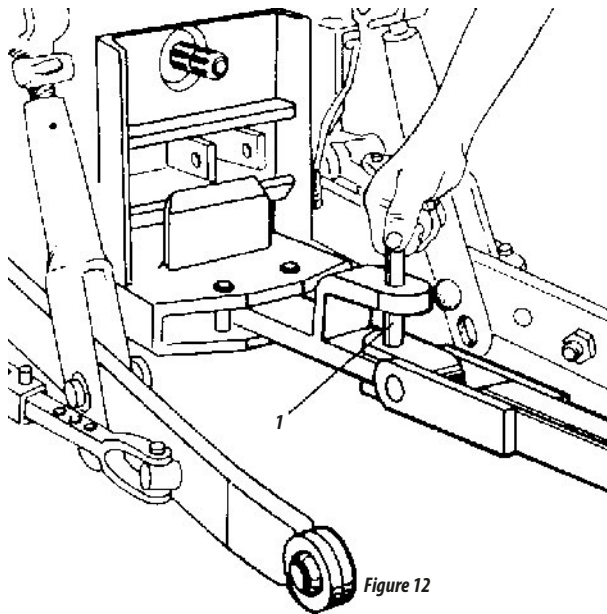


Figure 12

05 - ADJUSTMENT AND OPERATIONS

ADJUSTMENT OPENING

- 01 - To obtain an idel penetration of the discs, the opening of the harrow varies according with the type of soil.
- 02 - In the land of greater difficulty of penetration increases the opening "A" of harrow, as shown in Figure 13.
- 03 - In the soft terrain and loose, you must work with a smaller opening.
- 04 - To open or close the harrow, pull the rope that goes until to the driver, releasing the adjustment of the opening set. To open the harrow, move the tractor forward and backward to close the harrow.
- 05 - For transport, close the harrow completely.



NOTE

*Increasing the angle "A", greater penetration.
Decreasing the angle "A", smaller penetration.*

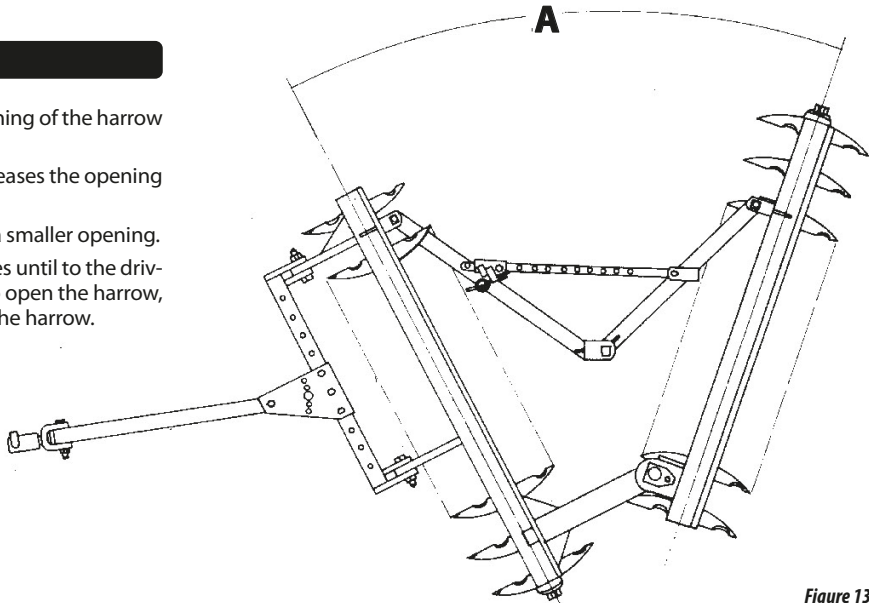
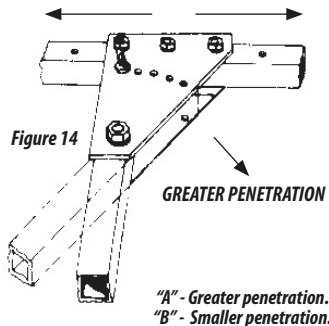


Figure 13

LATERAL DISPLACEMENT OF HARROW

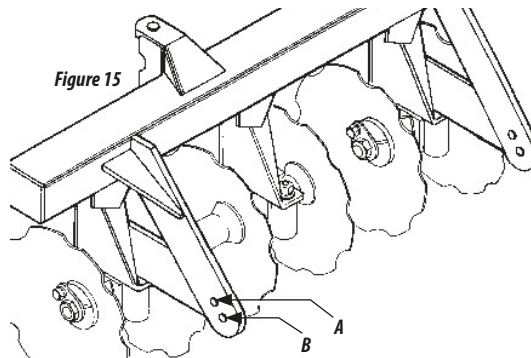
06 - This movement should be regulated when the harrow is not giving a perfect finish, so, keeping the tractor track. The harrow should work centralized with the central line of tractor. To do this, move the plates above and below the header to the right or left, as shown in Figure 14.

07 - The header coupling works in the center hole of the upper and lower plates for medium soil, displacing to the other holes change the angle attack of the front section.



ADJUSTMENT OF CROSS ON FRONT FRAME

08 - In the front frame are welded the front linkage arms, which has two holes as shown in Figure 15, whose main purpose is the leveling of the harrow header in relation to the bar of the tractor.



NOTE

When hitched in the top hole the penetration will be greater and consequently in the lower hole, the penetration will be smaller.
For harrows with tires, when changing the hole, also change the handle latch header hole.

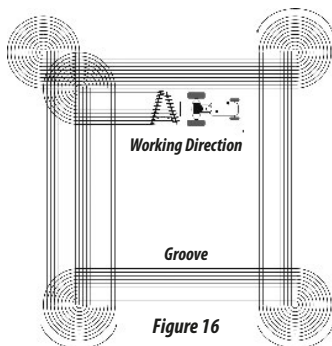
06 - OPERATIONS

- 01 - Before start the operations with the harrow, review it completely, retighten all bolts, nuts, hoses terminals, axes and especially the disc section.

HOW TO START THE HARROWING

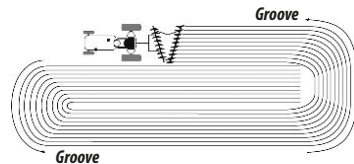
- 02 - At the start the harrowing should always follow the contour terraces or string, starting the operation in order to get the roof on the left side of the tractor driver.
- 03 - Do not turn to the right side, look the Fig 16. The harrowing ground should always be to the left of the tractor driver
- 04 - In the follow figur we show some operations system.

HARROWING INSIDE OUT WAY



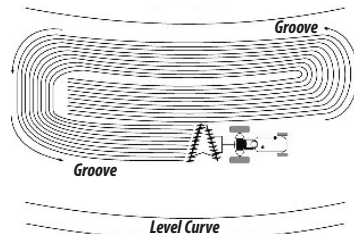
HARROWING TOWARDS INSIDE OUT

- 05 - In this way we obtain greater perfection. When you're walking in the headwaters should be very carefully to start other block.



PLOTS WITH CONTOUR LINE

- 06 - In terrain with contour plots is usual to get two plots at time, taking care to start the work with the contour of the left side of the tractor driver. When you get in the middle of the contour, it should have another plot to reduce fuel consumption.



TRANSPORT (for harrows with tires)

- 01 - To transport the harrow, remove the lock item 1 and the pin item 2 that locks the wheel support item 3. Then lower the wheel support item 3 to the ground. Then place the pin item 4 in hole of wheel support item 3 the way that is between the ribs of the wheel hub item 5 locking it.
- 02 - Then, move the tractor slowly forward until the wheel support item 3 lift the harrow and stay parallel to the lock.
- 03 - Then, place the pin item 2 and the lock item 1 locking the wheel support item 3. Take off the pin item 4 from the hole of wheel support item 3, unlocking the wheel hub item 5, as shown in the Figure 17.
- 04 - Before to start the transport, level the harrow adjusting the regulator item 6.

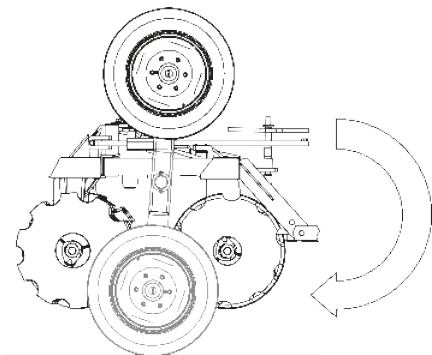
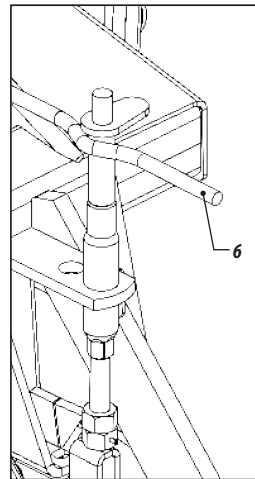
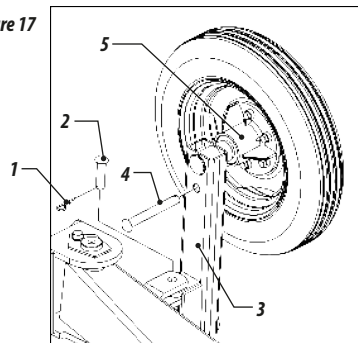


Figure 17



07 - LUBRICATION

- 01 - Lubrication is essential for good performance and durability of moving parts of the implements.
- 02 - Before starting work, carefully lubricate all grease points, always checking the relubrication intervals, making sure about the lubricant quality, the efficiency and purity, avoiding to use products contaminated by water, land, etc...

OIL BATH BEARING LUBRICATION

- 03 - In the first days of work with the harrow, check the oil level from bearings and also the retainers.
- 04 - Check the oil level each 120 hours of work.
- 05 - The oil change must be each 1200 hours of work. Use mineral oil SAE 90.

TABLE OF EQUIVALENT AND GREASES

<i>Manufacturer</i>	<i>Grease Type</i>
<i>Petrobrás</i>	<i>Lubrax GMA 2</i>
<i>Atlantic</i>	<i>Litholine MP 2</i>
<i>Ipiranga</i>	<i>Super Grasa Ipiranga Ipiranga Super Grasa 2 Ipiflex 2</i>
<i>Castrol</i>	<i>LM 2</i>
<i>Mobil</i>	<i>Mobilgrease MP 77</i>
<i>Texaco</i>	<i>Marfak 2 Agrotex 2</i>
<i>Shell</i>	<i>Retinax A Alvania EP 2</i>
<i>Esso</i>	<i>Multipurpose grease H Litholine MP 2</i>
<i>Bardahl</i>	<i>Maxlub APG 2 EP</i>

Table 2



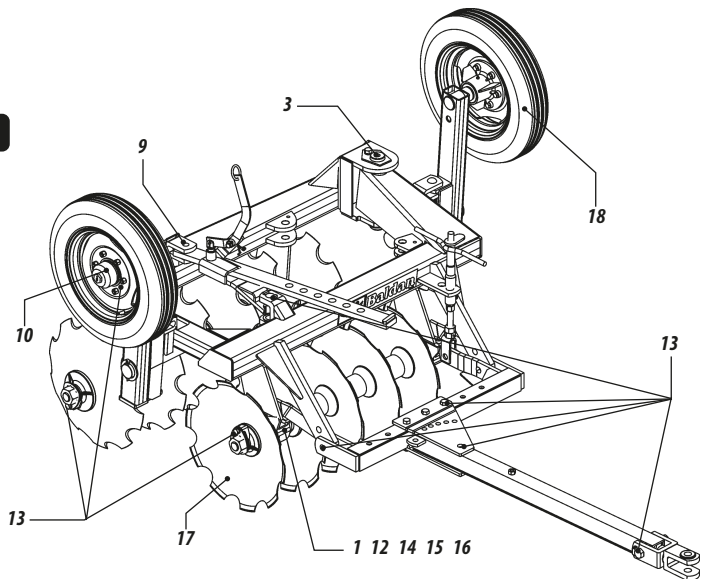
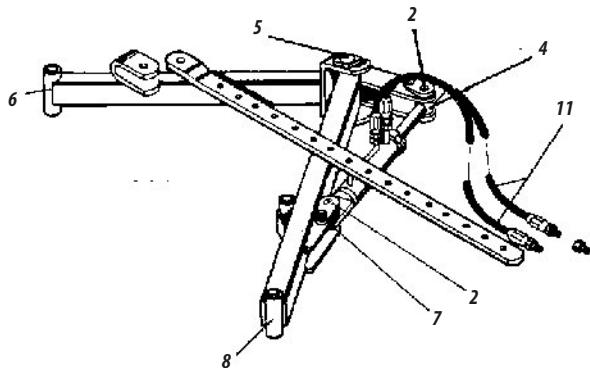
If there were other manufacturers or and other. Equivalent trends that are not listed in this. Table, consult the manufacturer's technical manual.

Item	Parts description	Number of lubrication points								Change oil	Lubr. W/ grease	Retight	Replace	Check	Maintenance intervals
		GR 10 Discs	GR/GRP 12 Discs	GR/GRP 14 Discs	GR/GRP 16 Discs	GR/GRP 18 Discs	GR/GRP 20 Discs	GR/GRP 24 Discs	GR 28 Discs						
1	Bearing	4	4	4	6	8	8	8	8		X				12 hours
2	Piston articulation pin	2	2	2	2	2	2	2	2		X				
3	Handle frame	1	1	1	1	1	1	1	1		X				60 hours
4	Piston handle	1	1	1	1	1	1	1	1		X				
5	Stabilizer bar join	1	1	1	1	1	1	1	1		X				
6	Rear stabilizer bar				1	1	1	1	1		X				
7	Piston hitch	1	1	1	1	1	1	1	1		X				
8	Front stabilizer bar	1	1	1	1	1	1	1	1		X				
9	Lock pull	1	1	1	1	1	1	1	1		X				
10	Wheel hub		2	2	2	2	2	2	2						
11	Hydraulic system													X	
12	Bearings oil													X	
13	Bolts / Nuts											X			120 hours
14	Retainers									X					1200 hours
15	Roller												X		1500 hours
16	Discs / Bearings												X		
17	Discs														
18	Tires												X		When necessary

ATTENTION

01 - After the first day of work, retight all the bolts and nuts.

OPENNING SYSTEM WITH HYDRAULIC SYSTEM *(Optional)*



09 - BEARINGS ADJUSTMENTS

- When the bearing shows looseness, adjust them as follows:

01 - Remove the washer item 1 in Figure 20.

02 - Loosen the bolts item 2 and take off the cover item 3.

03 - Remove 1 or 2 joints item 4, from the bearing cover.

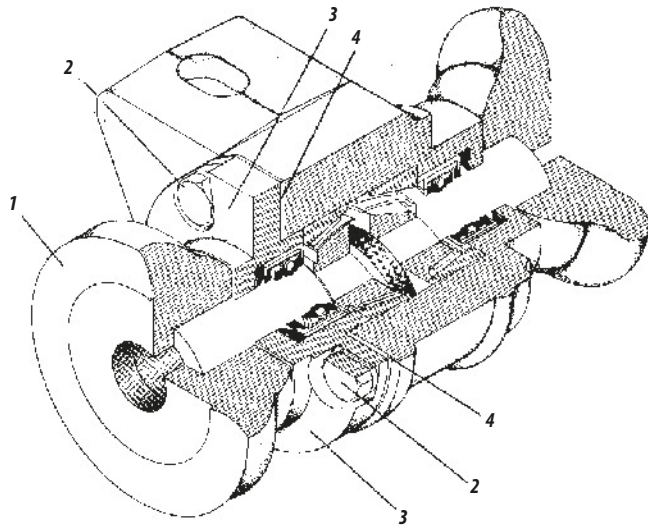
04 - Replace the cap and retighten it.

05 - If the loose persists, we can facemills the cover item 3, to increase the regulation, after assembly it the same on bearing with many joints are needed.

06 - The bearing must rotate free, so, without radial or axial clearances.

10 - CLEANING

01 - When the harrow remain inactive for an extended period, make a clean sweep in it, make sure if the ink wear off. If this happend, give an overall coat, use protective and lubricating oil to the harrow completely. Check the discs, give a coat of paint on them and use protective oil.



WARNING

Do not assembly the bearing without joints.

11 - APPROX PRODUCTION OF GR / GRP HARROWS

- To calculate the approx hourly output of harrows, use the follow:

$$A = \frac{L \times V \times F}{X}$$

Where:

A = Area to be worked

L = Work width of harrow(meters)

V = Average speed tractor (em metros)

F = Output factor

X = Hectare Value (10.000 m²)

- **Ex.: A GR / GRP of 24 discs, how many Ha it will output after 1 hour of work with an average speed of 7 Km per hour?**

A = ?

L = 3,10m

V = 6.000m/h

F = 0,90

X = 10.000m²

$$\frac{A = 3,10 \times 6.000 \times 0,90}{10.000} = 1,67 \text{ Ha/h}$$

12 - APPROX TABLE OF OUTPUT HOURLY

Table 4

<i>Model</i>	<i>Working Width (m)</i>	<i>Average Speed (m/h)</i>	<i>Output Factor</i>	<i>Approx. Output</i>
				<i>Hectares</i>
GR 10	1,05	6.000	0,90	0,57
GR/GRP 12	1,30	6.000	0,90	0,70
GR/GRP 14	1,55	6.000	0,90	0,84
GR/GRP 16	1,75	6.000	0,90	0,95
GR/GRP 18	2,00	6.000	0,90	1,08
GR/GRP 20	2,25	6.000	0,90	1,22
GR/GRP 24	2,70	6.000	0,90	1,46
GR 28	3,20	6.000	0,90	1,73

13 - IDENTIFICATION

- To consult the spare part catalogue or ask a technical assistance from Baldan, always indicate the model (1), serial number (2) and manufacture date (3), that you will find in the identification tag.

ALWAYS REQUIRE BALDAN ORIGINAL PARTS

 BALDAN		
BALDAN IMPLEMENTOS AGRÍCOLAS S/A. AV. BALDAN, 1500 NOVA MATÃO CEP 15.993-900 MATÃO-SP BRASIL FONE: (16) 3221-6500 CNPJ: 52.311.347/0009-06 CREA/SP 0170977		
01	Modelo / Model	Data / Date
02	Nº de Série / Serial Number	Tipo / Type
	Capacidade / Load Capacity	Peso / Weight



PUBLICATIONS

Code: 6055010533-3
CPT: GR13319A



WARNING

The drawings in this instructions manual are for illustrative purposes only. To enable a better overview and detailed instructions, on some drawings in this manual, safety devices (covers, shields, etc..) were removed. Never operate the agricultural wagon without these devices.



CONTACT

If you have questions, never operate the GR/GRP see the post sale.
Phone: 0800-152577
e-mail: posvenda@baldan.com.br

PRODUCT IDENTIFICATION

- Do the identification below to always have the properly informations about your equipment life time.

Owner: _____

Dealer: _____

Farm: _____

City: _____ Country: _____

Model: _____

Warranty certified number: _____

Serial number: _____

Purchase date: _____ / _____ / _____

NOTE:

[illegible]

Invoice. Nr: _____

CERTIFICATE OF WARRANTY

- 01 - **BALDAN IMPLEMENTOS AGRÍCOLAS S/A**, guarantee the normal operation of the product for a 6 (six) months period dated from the dealers's bill of sale to the first final customer.
- 02 - During this period, **Baldan** compromise itself to repair the material or manufacturing defects, but the labour, the freight and other expenses are the dealer's responsibility.
- 03 - At the guarantee period, all the request and replacement of any defective part must be made to the dealer of the region, which will send the defective part for analysis at **Baldan**.
- 04 - When this procedure won't be possible and the dealer couldn't have the ability to solve the problem, the dealer can ask for **Baldan's Technical Assistance** using the specific form delivered to them.
- 05 - After the analysis of the items replaced by **Baldan Technical Assistance** and if we conclude that it wasn't a guarantee problem, then the dealer will be the responsible for all costs related to the replacement; as well as material expenses, travel including accommodation and meals, also the accessories, lubricant used or any other expenses after having called the Technical Assistance. And, withal, the company Baldan is authorized to issue the billing in name of the respective reseller.
- 06 - Any repair made to the product which is in warranty period by the dealer, will only be authorized by Baldan after budget previous presentation describing pieces and labour to be accomplished.
- 07 - It is out of this term the product which has repairs or modifications not made by dealers from Baldan's network, as well as pieces applications or not authentic components to the product by the user.
- 08 - This certificate of guarantee will become invalid when notice that the damage or defect is the result of incorrect use of the product, of instructions non-observance or operator's inexperience.

- 09 - It's stipulated that this guarantee don't cover tires, polyethylene deposits, universal joints, hydraulic components, etc, wich equipments are guarantee by their manufacturers.
- 10 - The material or manufacture defects, object of this certificate of guarantee, will not be, by any hypotesis, reason for cancellation of the contract of sale, or indemnity of any kind.
- 11 - For a warranty solicitation to the distributor, you have to proceed in the following manner:
- 12 - Send the technical informe detailed telling the problem (technical assistance request form to the client), you can find it send us an email to **after-sales@baldan.com.br** or acessing our website.
- 13 - If it's possible send films and photos from the requested spare parts.
- 14 - To point at the form: serial number, manufacture year, etc, that is, all information asked at the form. The damage spare parts should be available for analysis of the the after sales department in a future visit (in case of requested).
- 15 - **Baldan** keeps the right of changing and or improve the technical characteristics of its products, without notice and without the obligation of act like this way with its previously manufactured products.

INSPECTION AND DELIVERY CERTIFICATE

- **SERVICE BEFORE THE DELIVERY:** This equipment was very carefully prepared by the dealer's organization, inspected in all its parts in agreement with the manufacture's prescription.
- **DELIVERY SERVICE:** The user was informed about the current guarantee terms and instructed about maintenance care and utilization.
- I confirm that I was informed about the current guarantee terms and instructed about the correct utilization and maintenance of this product.

Product: _____ *Serial number:* _____

Date: _____ *Bill of sale:* _____ *Store:* _____

City: _____ *State:* _____ *Zip code:* _____

Owner: _____ *Phone:* _____

Adress: _____ *Number:* _____

City: _____ *State:* _____

E-mail: _____ *Date of sale:* _____

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Product: _____ *Serial number:* _____

Date: _____ *Bill of sale:* _____ *Store:* _____

City: _____ *State:* _____ *Zip code:* _____

Owner: _____ *Phone:* _____

Adress: _____ *Number:* _____

City: _____ *State:* _____

E-mail: _____ *Date of sale:* _____

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Product: _____ *Serial number:* _____

Date: _____ *Bill of sale:* _____ *Store:* _____

City: _____ *State:* _____ *Zip code:* _____

Owner: _____ *Phone:* _____

Adress: _____ *Number:* _____

City: _____ *State:* _____

E-mail: _____ *Date of sale:* _____

3ª Page - Manufacturer

Please send this filled copy to Baldan, until 15 days after the purchase.

Signature / Store's stamp _____



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export@baldan.com.br

+55 16 3221 6500
baldan.com.br