Instruction
Manual

GSPCR

Wheel Type Offset Disc Harrow Remote Control - Heavy Duty

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 necessaries, 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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GSPCR

Wheel Type Offset Disc Harrow Remote Control - Heavy Duty

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

Scan the QR Code on the identification plate of your device and access this Instruction Manual online.

BALDAN

INDEX

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

WARNING

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

WARNING

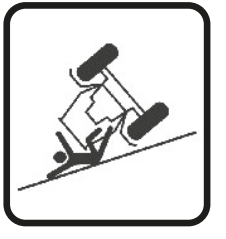
• Only start the tractor operations, when are you properly accommodated and with the seat belt fasted.

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

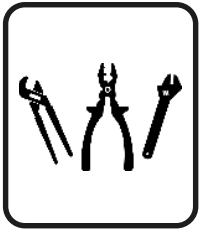
• Before any equipment maintenance, make sure that is properly stopped
• Avoid getting hit

⚠ 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 froint of it.
• When filling the tire, always use a containment device (filling cage).

⚠ WARNING

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



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

⚠ WARNING

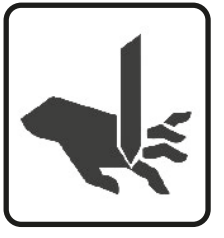
• The hydraulic oil operates pressurized and can cause serious injuries, in case of leakage. Periodically verify the condition of the hoses. If there are any signs of leakage, replace them immediately.

• 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.*

ATTENTION

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 the equipment make sure that nobody remains closer or on the same.**

02- ⚠ **During assembly or when mounting or dismonting the discs, use gloves.**

03- ⚠ **Turning on/off the hydraulics hoses, relieve the presure od circuit.**

04- ⚠ **Periodically check the quality consevations of hoses. If has any evidence of oil leak, replace it immediately, because the oil works under high pressure and and can cause serious injury.**

05- ⚠ **Do not use baggy clothes that can twist to the machine.**

06- ⚠ **Before you start the tractor engine, be firmly seated and sure you know thr operation of both, tractor and implement. Make sure the gear lever is in the neutral position, the P.T.O. drive is disengaged, and that the hydraulic lever command is also in the neutral position.**

07- ⚠ **Do not start the tractor engine indoors without adequate ventilation, the exhaust gases are harmful to health.**

08- ⚠ **When hitching the implement onto the tractor obliges you to maneuvre the tractor, make sure that there is enough room and that nobody close aroud can be caught. Always maneuvre with the engine in indle speed and be prepared immediatly the break when necessary.**

09- ⚠ **Do not do regulations with the implements working.**

10- ⚠ When operating on sloping land in contours, procced carfully always keep the machine stability. In case of instability initiation, reduce speed turn the tractor hill downwards and lever lift the implement.

11- ⚠ Always drive at safety compatible speeds, mainly when working in downhill, keep the tractor always hitched.

12- ⚠ Driving the tractor on roads keep the break pedals connected.

13- ⚠ Do not work with the tractor front light. Se a frente tiver tendência para levantar adicione mais pesos na frente ou nas rodas dianteiras.

14- ⚠ When you leave the tractor, make sure that the gear is in the neutral position, and the parking breaks applied. Never let the implement hitched at the tractor on lift hydraulic system.

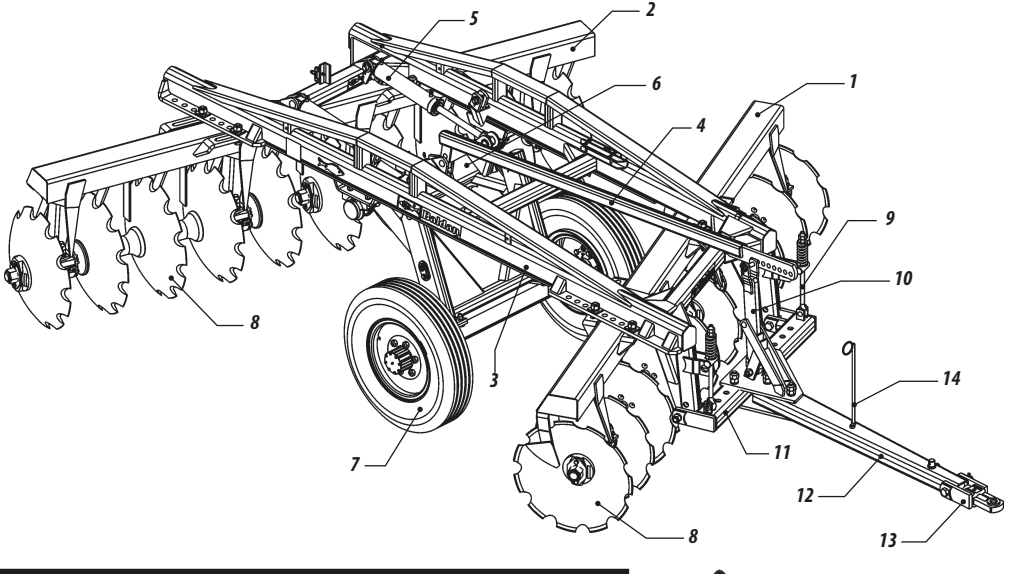
15- ⚠ Alcohol and drus may generate loss of reflex and changing of operator fisical conditions. So do not work with this equipment in use of this substance.

16- ⚠ Read and explain all the proceeds above to the user that can not read.

GSPCR - WHEEL TYPE OFFSET DISC HARROW REMOTE CONTROL - HEAVY DUTY

02. COMPONENTS

01 - Front frame
02 - Rear frame
03 - Main frame
04 - Stabilizer bar
05 - Cylinder
06 - Wheels articulation axle
07 - Wheels
08 - Disc section
09 - Stabilizer rod
10 - Stabilizer bar support
11 - Transversal bar
12 - Hitch header
13 - Hitch shackle
14 - Hoses support



03. TECHNICAL SPECIFICATIONS

Table 1

Model	Nr of discs	Working width (mm)	Working depth (mm)	Disc spacing (mm)	Disc diameter (ø)	Axle diameter (ø)	Approximate weight (Kg)			Tractor Power (Cv)
							32″	34″	36″	
GSPCR	10	1900	200 - 320	430	32″ - 34″ - 36″	2.1/2″	3318	3364	3422	150 - 160
GSPCR	12	2350	200 - 320	430	32″ - 34″ - 36″	2.1/2″	3491	3581	3649	180 - 192
GSPCR	14	2800	200 - 320	430	32″ - 34″ - 36″	2.1/2″	3910	4015	4094	210 - 224
GSPCR	16	3200	200 - 320	430	32″ - 34″ - 36″	2.1/2″	4230	4350	4441	240 - 256
GSPCR	18	3650	200 - 320	430	32″ - 34″ - 36″	2.1/2″	4607	4742	4844	270 - 288
GSPCR	20	4100	200 - 320	430	32″ - 34″ - 36″	2.1/2″	4765	4915	5029	300 - 320
GSPCR	22	4500	200 - 320	430	32″ - 34″ - 36″	2.1/2″	5330	5480	5630	330 - 352
GSPCR	24	4900	200 - 320	430	32″ - 34″ - 36″	2.1/2″	5900	6052	6200	360 - 384

The technical specifications are approximate and informed in normal work conditions.
Baldan reserves the right to modify any technical specifications without prior notice.

ASSEMBLING THE REAR DISC SECTION

- When starting to mount the **GSPCR**, always start with the set of discs; to assemble the rear disc section, proceed as follows:

01 - Place on the shaft (1) the concave thrust washer (2), flat washer (3), lock (4), nut (5), securing it with the spring washer (6) and the screw (7).

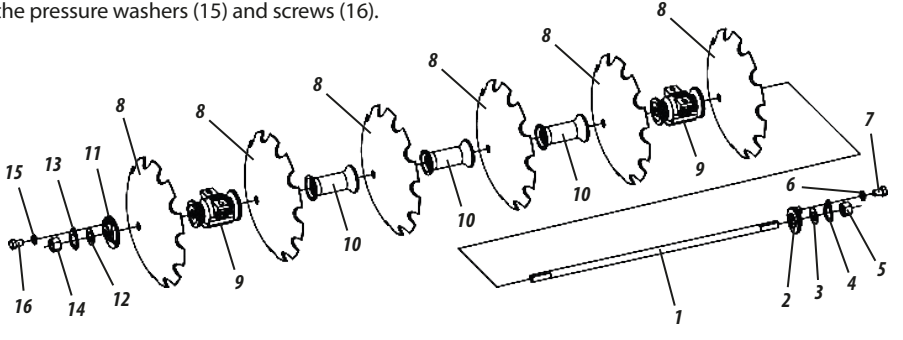
02 - Then, place on the shaft (1) the disc (8), bearing (9), another disc (8), separator spool (10) and so on.

03 - When the set is complete with all discs, bearings, separator spools, place the convex thrust washer (11), flat washer (12), lock (13), nut (14), tighten with the torques recommended on the pages 14 and 15 (high torque nutrunner procedure) or pages 16 and 17 (angle tightening procedure).

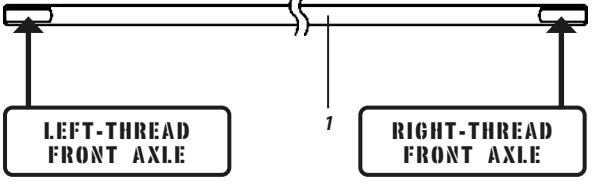
04 - Finish by placing the latch (13) fixing it through the pressure washers (15) and screws (16).

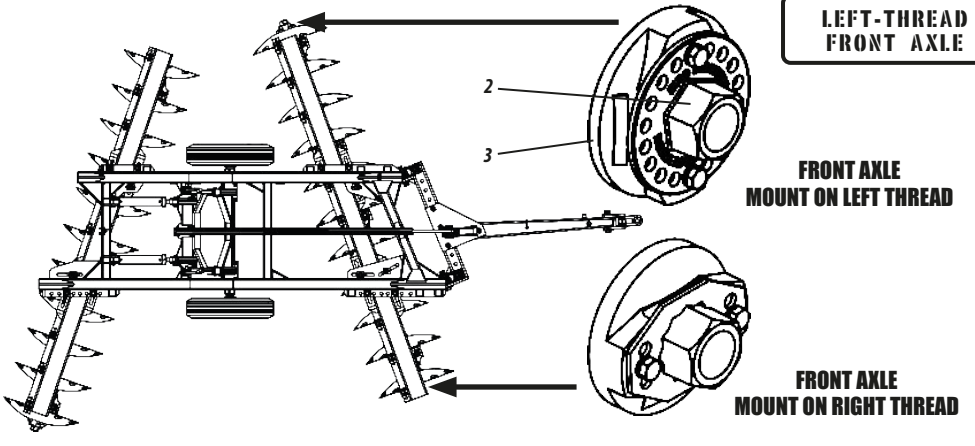
ATTENTION

During the first week of using the GSPCR, re-tighten all disc section bolts and nuts daily, then re-tighten them periodically.



- Before starting the assembly of the front disc section, check the milled area of the shaft (1) for the engraved information **"right-thread front axle"** and **"left-thread front axle"**, as there is the correct side for mounting it in the section front discs.



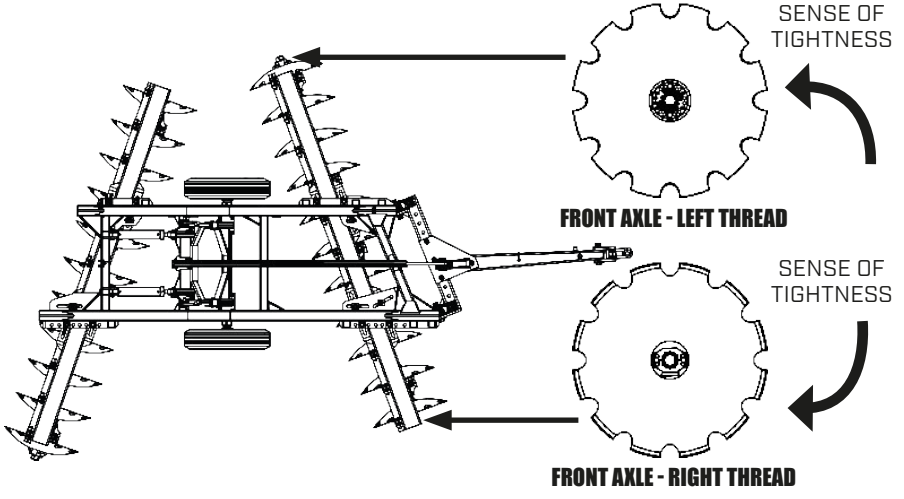


ATTENTION

The left-hand threaded flange nut (2) will be mounted on the front disc section only along with the new concave washer (3).

ASSEMBLING THE FRONT DISC SECTION - PART II

- Then check the tightening direction for each side of the front disc section; then assemble and tighten to the torques recommended on pages 14 and 15 (high torque nutrunner procedure) or pages 16 and 17 (angle tightening procedure).

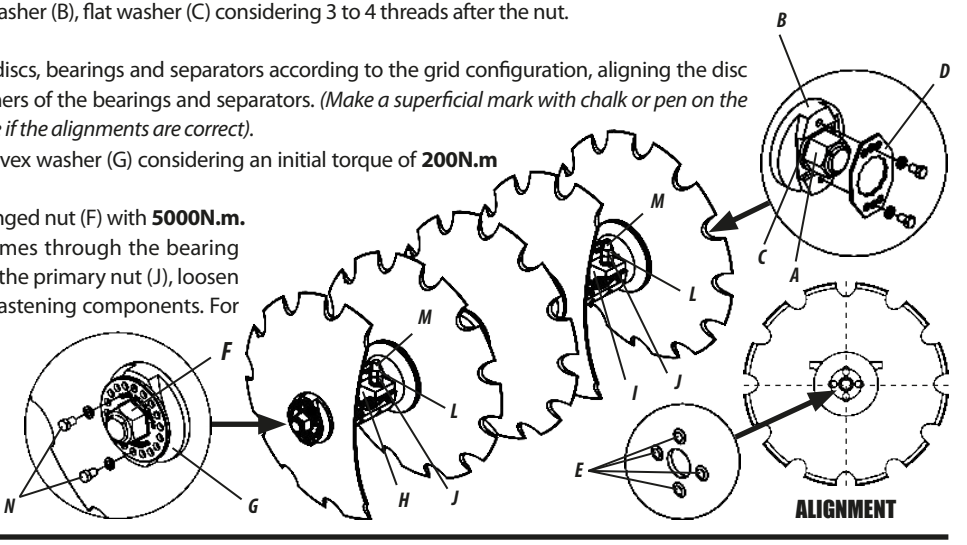


ATTENTION

During the first week of using the GSPCR-E, retighten all bolts and nuts on the disc sections daily, then retighten periodically.

- INITIAL GRIP

01 - I threaded the nut (A) with the concave washer (B), flat washer (C) considering 3 to 4 threads after the nut.
02 - Place the lock (D) from the nut (A).
03 - Assemble the disc section interspersing discs, bearings and separators according to the grid configuration, aligning the disc ridges (E) with the recesses of the thrust washers of the bearings and separators. *(Make a superficial mark with chalk or pen on the components of the stops on the disks to visualize if the alignments are correct).*
04 - I threaded the flanged nut (F) on the convex washer (G) considering an initial torque of **200N.m** as a reference point;
05 - Following the steps above, torque the flanged nut (F) with **5000N.m.**
06 - Screw the disc sections on the grid frames through the bearing bases (H and I) with a torque of **1500N.m** on the primary nut (J), loosen and repeat the procedure for adjusting the fastening components. For counter nut (L) consider a torque of **400N.m.**



- RETIGHTENING THE BEARING ON THE FRAME - 120 HOURS OF WORK

01 - Loosen the screws (M) of the bearing bases (H and I).
02 - Loosen the screws (N) of the flanged nut (F).
03 - Retighten the flanged nut (F) reaching a torque of **5000N.m.**
04 - Retighten the screws (M) of the bearing base (H and I) reaching a torque of **1500N.m** on the primary nut (J) and **400N.m** on the counter nut (L).
05 - Finish by tightening the bolts (N) of the flanged nut (F).

- INITIAL GRIP

01 - I threaded the nut (A) with the concave washer (B), flat washer (C) considering 3 to 4 threads after the nut.

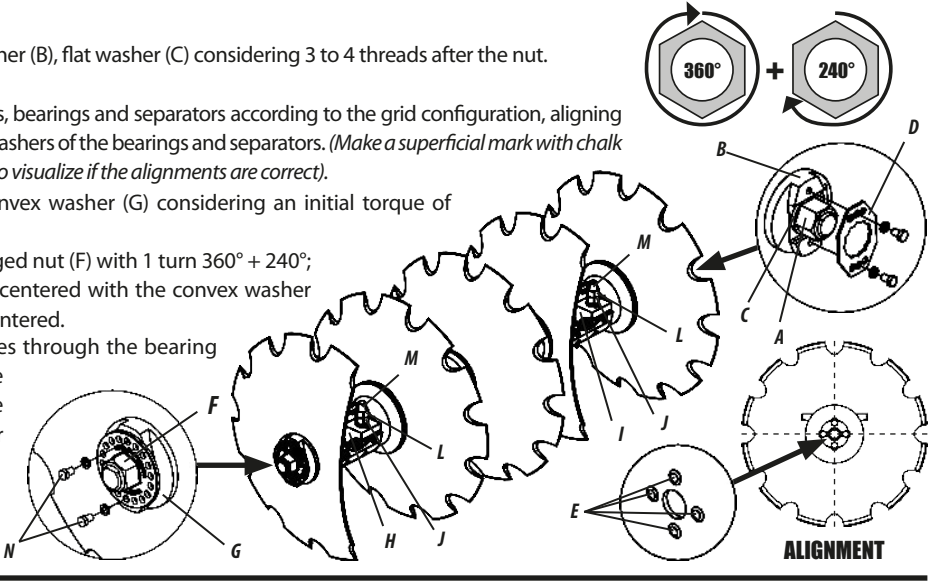
02 - Place the lock (D) from the nut (A).

03 - Assemble the disc section interspersing discs, bearings and separators according to the grid configuration, aligning the disc ridges (E) with the recesses of the thrust washers of the bearings and separators. *(Make a superficial mark with chalk or pen on the components of the stops on the disks to visualize if the alignments are correct).*

04 - I threaded the flanged nut (F) on the convex washer (G) considering an initial torque of **200N.m** as a reference point;

05 - Following the steps above, torque the flanged nut (F) with 1 turn 360° + 240°; if the center of the flanged nut hole (F) is not centered with the convex washer hole (G), give it another torque until they are centered.

06 - Screw the disc sections on the grid frames through the bearing bases (H and I) with a torque of 1500N.m on the primary nut (J), loosen and repeat the procedure for adjusting the fastening components. For counter nut (L) consider a torque of **400N.m.**

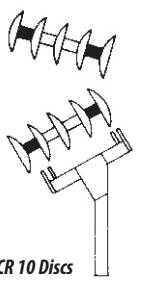


- RETIGHTENING THE BEARING ON THE FRAME - 120 HOURS OF WORK

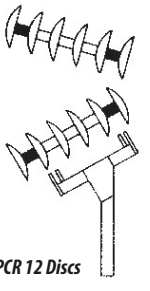
01 - Loosen the screws (M) of the bearing bases (H and I).
02 - Loosen the screws (N) of the flanged nut (F).
03 - Retighten the flanged nut (F) according to the indicated torque value.
04 - Retighten the screws (M) of the bearing base (H and I) reaching a torque of **1500N.m** on the primary nut (J) and **400N.m** on the counter nut (L).
05 - Finish by tightening the bolts (N) of the flanged nut (F).

05 - Check the figures witch shows the assembly of the discs sections to each grade model.

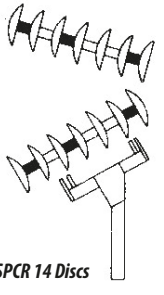
06 - Watch that the front disc section must stay on the rear section.



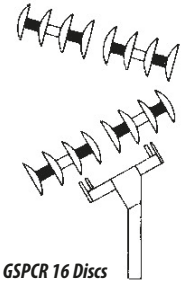
GSPCR 10 Discs



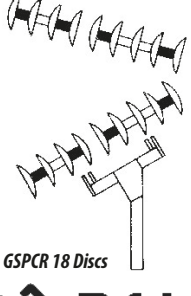
GSPCR 12 Discs



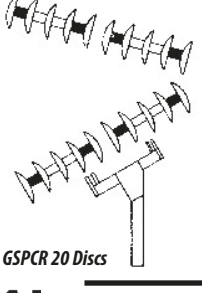
GSPCR 14 Discs



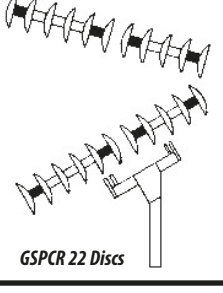
GSPCR 16 Discs



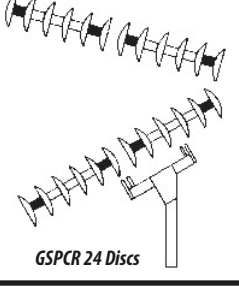
GSPCR 18 Discs



GSPCR 20 Discs



GSPCR 22 Discs



GSPCR 24 Discs

LEGEND:

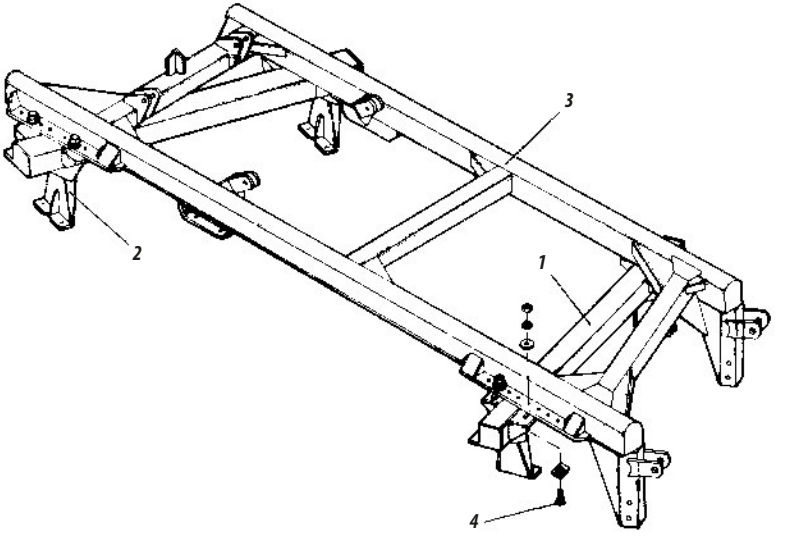
= ROLLER BEARING

= SPLIITER SPACER

= DISCS

07 - Put the frames in a clear and flat surface;

08 - Put the main frame (3) on the frames and fix them with bolts (4), lockers, washer and nuts.

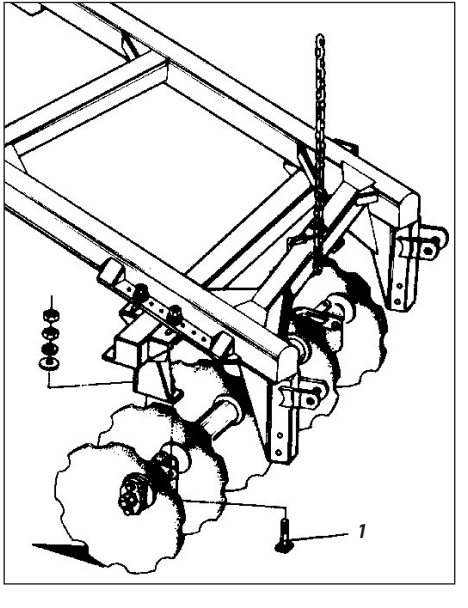


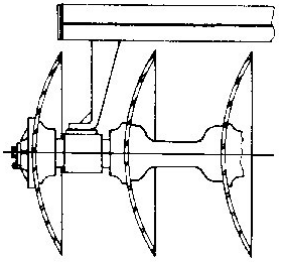
09 - Lift the rear or front frame, align the disc section, note their placement. Assembly the frame (1) with the disc section through the bolt (2), watching that the support of the bearing fixation must face the disc concavity.

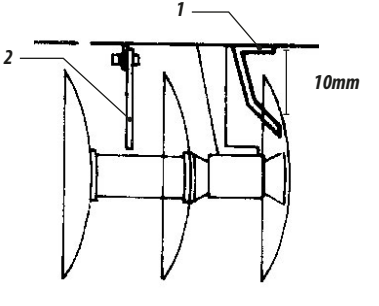
10 - Lift the other part of the implement and repeat the operation above. Checking the concavity of the disc section must face the opposite side of the other.

11 - Fix the disc scrapers (1) into the front and rear frames allowing a looseness of 10mm between each disc and scraper.

12 - Put also the central disc scrapers (2) onto the front and rear frames.







HYDRAULIC ASSEMBLY AND TYRES COUPLING

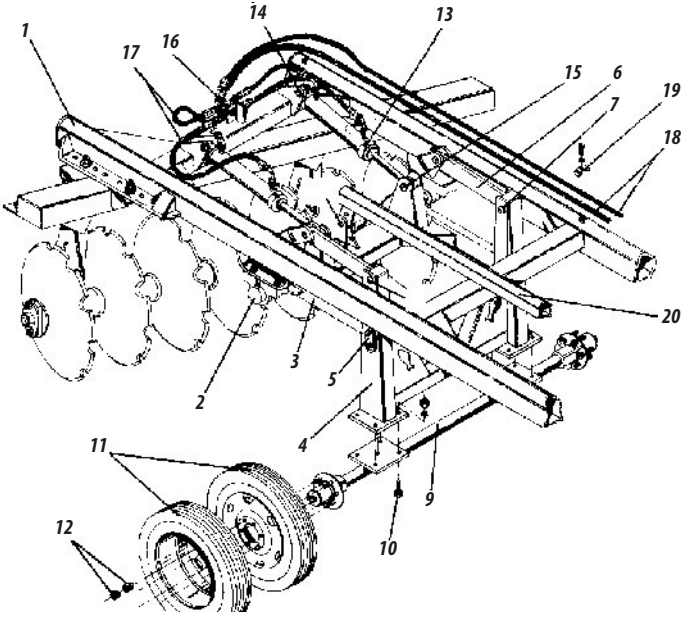
13 - Couple the axles (2) onto the articulation axle (3) fixing them into the main frame (1) with bolts. Put the articulation axle support (4) onto the axle (3) using pins (5) and lock it with bolt. Put the plates (6) of the axle support on the main frame (1) using the pin (7) locking it with a counterpin (8). Fix the axle (9) into the axle support (4) with the bolts (10).

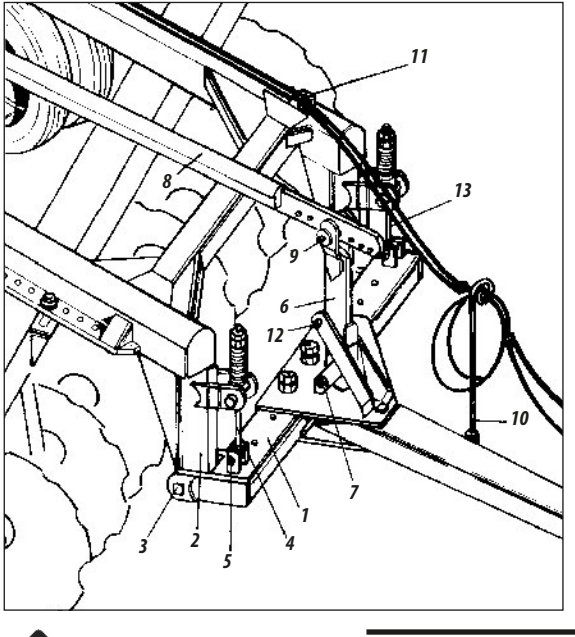
14 - Fix the wheels (11) into the axle (9) using nuts (12).

15 - Put the articulation cylinders (13) onto the main frame using a pin (14) and the rod fixed at the articulation axle with a pin (15).

16 - Fix the oil distributor (16) into the main frame (1). Couple the hoses of the cylinder (17) to the oil distributor and fix them into the frame with a bracelet (19).

17 - Put the stabilizer bar (20) onto the articulation axle (3) with a pin (21).





HARROW HITCH ASSEMBLY

18 - Fix the hitch header (1) into the frame (2) with bolts and nuts (3).

19 - Introduce the stabilizer rod (4) between the main frame plates, fix the interior part of the rod into the transversal bar with bolts (5).

20 - Puts the stabilizer bar support (6) onto the superior plate of the header with a bolt (7). Couple the frontal part of the stabilizer bar (8) into the support with a pin (9).

21 - Fix the hoses support (10) into the hitch header, and introduce the hoses through its orifice.

22 - Put the hoses braces (11) onto the main frame.

23 - The pin (12) must be placed only to help hitching the grade into the traction bar of tractor. Put the pin (12) and move the tyres, so the hitch will be lifted helping the grade hitching.

05. HITCH TO THE TRACTOR

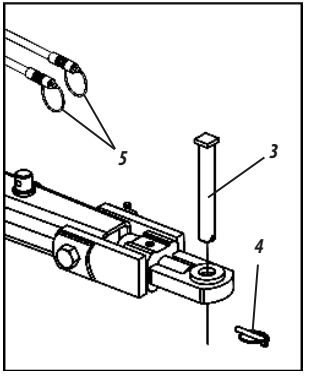
- For the perfect coupling of the **GSPCR** in **category 4** and **5** tractors, adapter bushings are sent in the packaging box. To engage the **GSPCR** on **category 4** and **5** tractors, proceed as instructed below.

CATEGORY 4 TRACTORS

01 - Take the smaller (1) and larger (2) adapter bushings that are in the packaging box and place them on the **category 4** tractor hitch, according to **detail "A".**

02 - Then slowly approach the tractor to the harrow in reverse, paying attention to the application of the brakes and attach the **GSPCR** to the tractor, fixing it through the coupling pin (3) and latch (4).

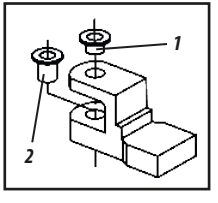
03 - Finish by coupling the hydraulic hoses (5) to the tractor's quick coupling.



ATTENTION

Before connecting or disconnecting the hydraulic hoses, stop the engine and relieve the circuit pressure, activating the control levers completely. Make sure that, when relieving the system pressure, no one is injured by moving the equipment.
When attaching the harrow, look for a safe and easily accessible place. Always use low gear with low throttle.
To couple in category 5 tractors, proceed according to the instructions on the next page.

DETAIL "A"



CATEGORY 5 TRACTORS

01 - Take the smaller (1) and larger (2) adapter bushings that are in the packaging box and place them on the **category 5** tractor hitch, according to **detail "A".**

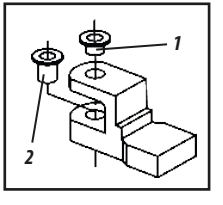
02 - Then slowly approach the tractor to the harrow in reverse, paying attention to the application of the brakes and attach the **GSPCR** to the tractor, fixing it through the coupling pin (3) and latch (4).

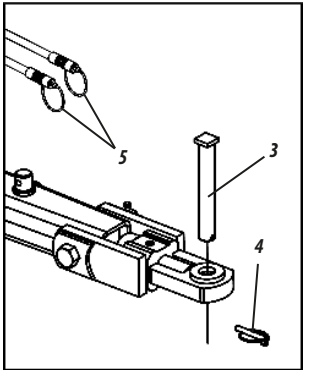
03 - Finish by coupling the hydraulic hoses (5) to the tractor's quick coupling.

⚠ ATTENTION

Before connecting or disconnecting the hydraulic hoses, stop the engine and relieve the circuit pressure, activating the control levers completely. Make sure that, when relieving the system pressure, no one is injured by moving the equipment.
When attaching the harrow, look for a safe and easily accessible place. Always use low gear with low throttle.

DETAIL "A"

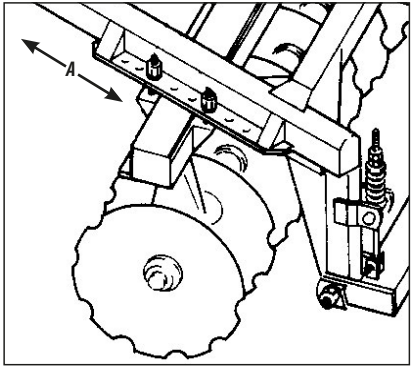




ADJUSTING THE PENETRATION ANGLE

01 - In order to obtain an ideal disc penetration, it is necessary to regulate the angle witch varies to each soil type:

- In hard penetration soils increase the opening of the harrow.



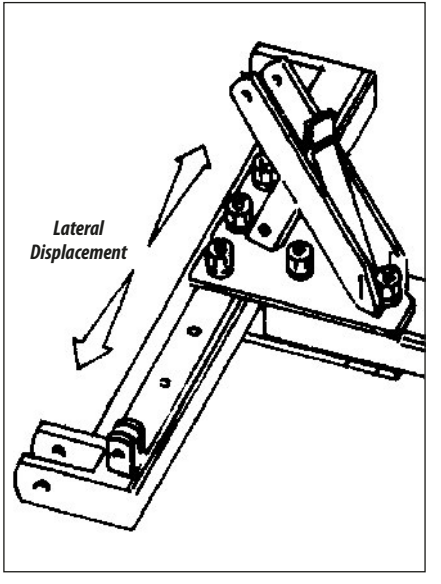
- In soft penetration soils decrease the opening of the harrow.

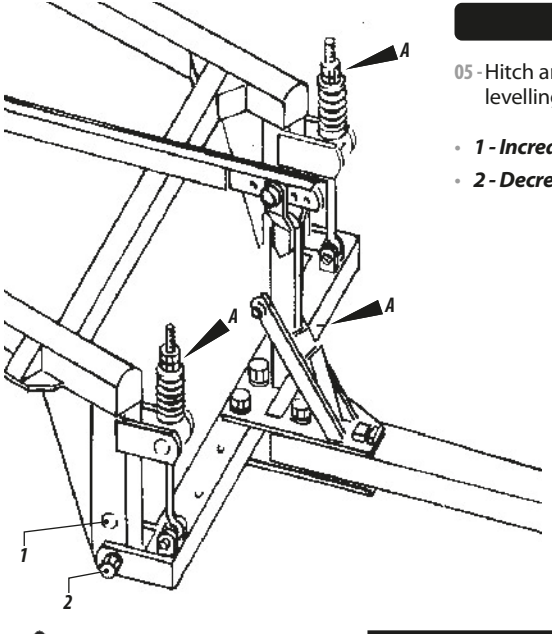
02 - To open or close the harrow, take the bolts that fix the central frame out and move the frames to obtain an ideal adjustments, as it is shown on the letter **"A".**

03 - The wheels also help to control the disc depth.

DISPLACEMENT ADJUSTMENT

04 - This lateral displacement is used to center the harrow behind the tractor, normally when working in unleveled areas. In order to get this centralization, move the inferior and superior plates (1) of the header to the left or right.





HITCH TRANSVERSAL BAR ADJUSTMENT

05 - Hitch arms are welded on the main frame, these arms have two orifices, witch reason is used for levelling the hitch beam to the tractor hitch.

- ***1 - Increase penetration***
- ***2 - Decrease penetration***

NOTE

When you fix the transversal bar on point 1, you'll get more penetration. On point 2, you'll get less penetration.

STABILIZER ROD AND STABILIZER BAR SUPPORT ADJUSTMENTS

06 - Leave a minimum distance of 10 to 20mm from the spring bushing. Also maintain a minimum distance of 20mm between stabilizer bar and the hitch beam support **"A"**.

07. OPERATIONS

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

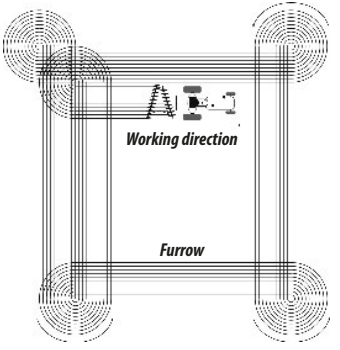
HOW TO START THE HARROWING

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. The harrowing ground should always be to the left of the tractor driver

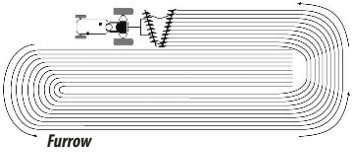
04 - In the follow figur we show some operations system.

HARROWING INSIDE OUT WAY



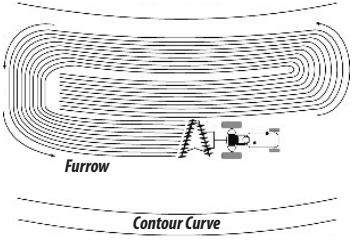
HARROWING TOWARDS INSIDE OUT

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.



07 - When the roller bearings present looseness, adjust them on the following way:

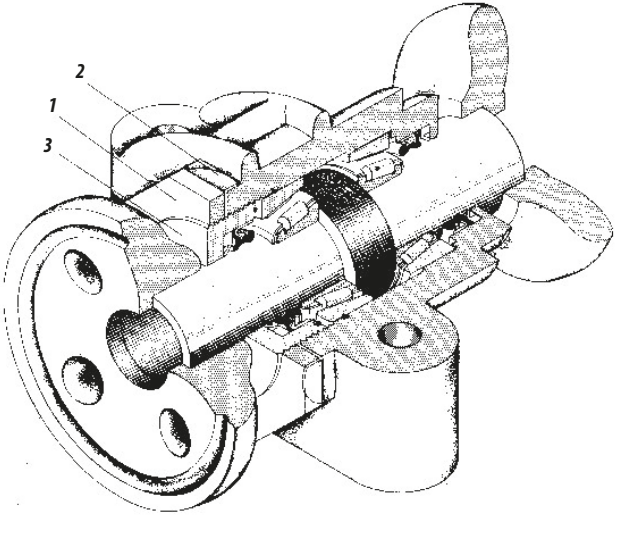
08 - Take out the washer (1).

09 - Release the bolts (2) and take out the lid (3).

10 - Take the joints 1 or 2 (4) out of the lid of the roller bearing. Put it again and tighten it.

NOTE

Don't assemble the roller bearing whitout a joint.



08. CLEANING

01 - When the grade remains inactive for a long period, make a general cleaning, check if the painting didn't get spoiled. If it happened, pass a protecting oil and lubricate it totally. Check the discs, repaint them and pass a protecting oil on them.

09. LUBRICATION

01 - The lubrication is isdispensable for a good performance and longer life of the machine motive parts.

02 - Before starting the operation, lubricate carefully all the devices always observing the gap time between the lubrication, assuring the quality of the lubricant, itsefficiency and purity, avoiding the use of products containing water, soil etc...

LUBRICATION OF THE ROLLER BEARINGS

03 - Clean all the fat devices with a clean cloth and if there is any damaged device replace it.

04 - The quality of fat in each bearing is 1.100 grams.

05 - The fat roller bearings will have to be lubricated every 12 working hours, using a specific fat at the table below:

FRICTION ROLLER BEARINGS LUBRICATION

06 - At the first working days with the grade, check the oil level of the roller bearings daily and the retainers too.

07 - Check the oil level every 120 working hours.

08 - The oil change must be done every 1200 working hours. Use the mineral oil SAE 90.

TABLE OF EQUIVALENT AND GREASES

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

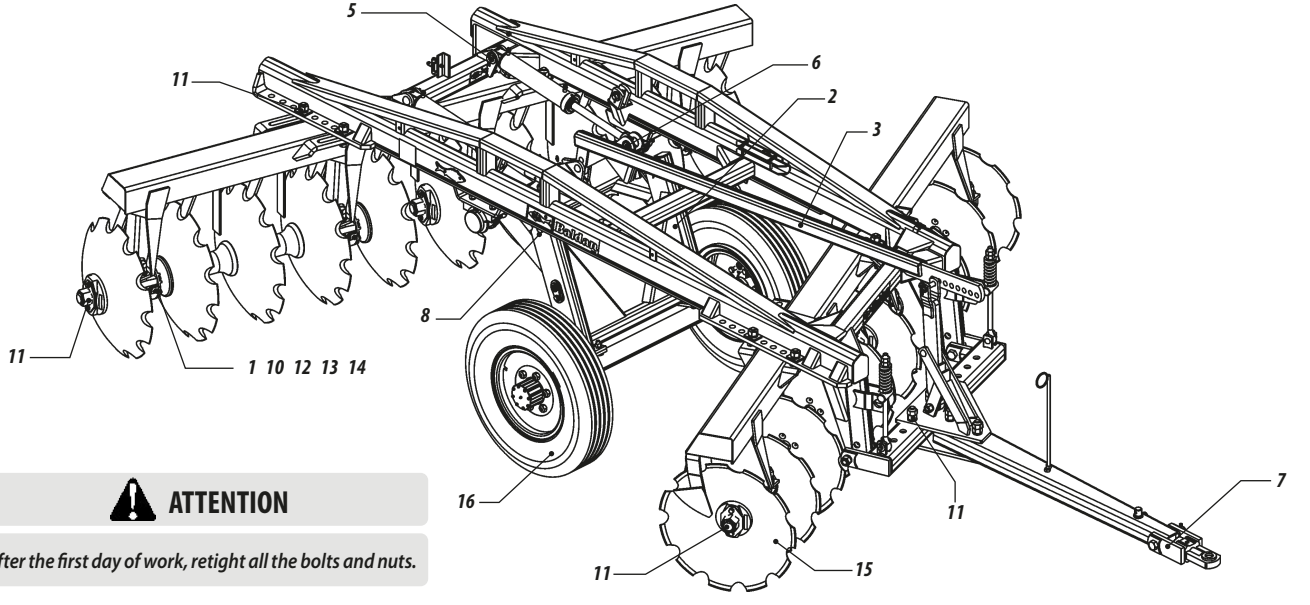
Table 2

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

10. LUBRIFICATION POINTS

Table 3

Item	Description	Fat device numbers						Oil Change	Lubrication with fat	Retighten	Replace	Check	Maintenance gap
		GSPCR 10 Discs	GSPCR 12 Discs	GSPCR 14 Discs	GSPCR 16 Discs	GSPCR 18 Discs	GSPCR 20 Discs						
1	Bearings	4	4	6	8	8	8		X				12 hours
2	Articulation axle pins	2	2	2	2	2	2		X				
3	Wheel cube	2	2	2	2	2	2		X				60 hours
4	Axle cube	2	2	2	2	2	2		X				
5	Piston clamp	2	2	2	2	2	2		X				
6	Piston rod clamp	2	2	2	2	2	2		X				
7	Hitch shackle	1	1	1	1	1	1		X				
8	Support articulation plate	4	4	4	4	4	4		X				
9	Hydraulic system											X	
10	Bearing oil											X	120 hours
11	bolts and nuts									X			
12	Bearings							X					1200 hours
13	Retainers										X		1500 hours
14	Rollers										X		
15	Discs										X		When needed
16	Wheels										X		



ATTENTION

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

11. HOURLY PRODUCTION OF THE GSPCR

01 - To calculate the hourly production of the **GSPCR** grades, it is necessary to use the following calculation:

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

WHERE:

A = Area
L = Width of the plow (meters)
V = Speed
F = Production factor
X = Measure of the hectare 10,000 m²

02 - **Example:** GSPCR grades with 10 discs, how many Ha will it produce in a working hour, in a average speed of 7 km/h?

- **A** = ?
- **L** = 1,90m
- **V** = 7.000m/h
- **F** = 0,90
- **X** = 10.000m²

$$\frac{A = 1{,}90 \times 7.000 \times 0{,}90}{24.200} = 0{,}49 \text{ Ha/h}$$

ESTIMATE HOURLY PRODUCTION TABLE

Table 4

Model	*Working width (m)*	*Average speed (m/h)*	*Production factor*	*Estimate hourly production*
				Hectáres
GSPCR 10	*1,90*	*7.000*	*0,90*	*1,20*
GSPCR 12	*2,35*	*7.000*	*0,90*	*1,48*
GSPCR 14	*2,80*	*7.000*	*0,90*	*1,76*
GSPCR 16	*3,20*	*7.000*	*0,90*	*2,01*
GSPCR 18	*3,65*	*7.000*	*0,90*	*2,30*
GSPCR 20	*4,10*	*7.000*	*0,90*	*2,58*

01 - The estimate production calculation refers to the calculus of the working areas or worked areas by the grade.

02 - If you want to know the time that will be spent to work a determined area, divide the value of this area by the hourly production of the grade.

- **Example: How long will it take the grade with 10 discs to produce 35 hectares, in a average speed of 7 km/h?**

$$X = \frac{35\ Ha}{1{,}20\ Ha/h} = 42 \text{ hours approximately}$$

03 - The daily production can vary by factors that modify the working rhythm, such as: humidity, soil hardness, soil inclination, and inadequate adjustments. These factors differ from the table above, witch we obtain working in soil with regular working conditions.

12. 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 ASK FOR ORIGINAL BALDAN SPARE PARTS

PUBLICATIONS

***Code:** 6055010592-9*
***CPT:** GSPCR102412322A*

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 GSPCR 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: _____/_____ / _____ *Invoice. Nr:* _____

NOTES:

NOTES:

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 responsability.

03 - At the garantee 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 abiliy 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 wich 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 wich 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 became invalid when notice that the damage or defect is the result of incorrect use of the product, of instructions non-observance or operator's inexperiences.

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:* _____

1ª Page - Owner

Signature / Store's stamp _____

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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:* _____

2ª Page - Store

Signature / Store's stamp _____

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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 _____

1.74.05.0059-5

AC MATÃO
ECT/DR/SP

RESPONSE-CARD

NOT REQUIRED SEAL

SEAL WILL BE PAID BY:

BALDAN

BALDAN IMPLEMENTOS AGRÍCOLAS S/A.

Av. Baldan, 1500 | Nova Matão | CEP: 15993-900 | Matão-SP | Brasil
Phone: (0**16) 3221-6500 | Fax: (0**16) 3382-6500
Home Page: www.baldan.com.br | e-mail: sac@baldan.com.br
Export: Phone: 55 16 3321-6500 | Fax: 55 16 3382-4212 | 3382-2480
e-mail: export@baldan.com.br

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