Instruction Manual



ASTHMounted Chisel Plough

>> BALDAN

INTRODUCTION

e 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.

Instruction Manual

ASTH

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.



Mounted Chisel Plough

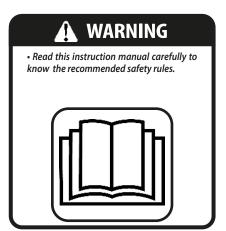
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01 - SAFETY RULES



THIS ALERT SYMBOL INDICATES IMPORTANT SAFETY NOTES. WHENEVER YOU FIND IT IN THIS MANUAL, READ THE MESSAGE WITH ATTENTION TO AVOID ANY ACCIDENT.







01 - SAFETY RULES



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



WARNING

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



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.





ALCOHOL AND DRUGS MAY GENERATE LOSS OF REFLEX AND CHANGING OF OPERATOR FISICAL CONDITIONS. SO DO NOT WORK WITH THIS EQUIP-MENT, IN USE OF THIS SUBSTANCE.



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- Men operating with the implement, do not allow people to stay very close to or on the implement.
- ⚠ In making any service mounting and dismounting the disks use gloves in their hands.
- 03- A Before connecting or disconnecting hydraulic hoses, relieve the system pressure triggering the command with the tractor off.
- 04- A 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- A Do not run engine indoors without adequate ventilation, because the exhaust fumes are harmful to health.
- 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.



- A Do not make adjustments to the implement at work.
- 10- A 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- Mhen driving the tractor on the roads, keep the brake pedals connected and use safety signs.
- 13- A 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- A Read or explain all the procedures above to the operator who cannot read.

MOUNTED CHISEL PLOUGH - ASTH

02 - COMPONENTS

- 01 Main Frame
- 02 Complete Depth Wheel
- 03 Wheel scraper
- 04-Hold support
- 05 Shanks
- 06 Reversible Tip
- 07 Fix support of shanks

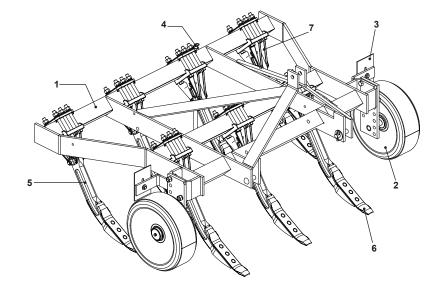
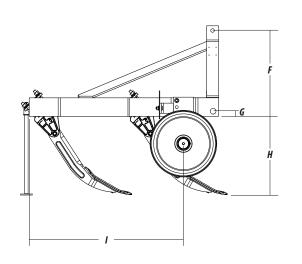


Figure 1

03 - DIMENTIONS (MM)



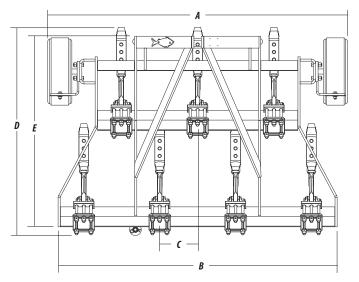


Figure 2

DIMENTIONS - ASTH

Model	Nr of Shanks	А	В	C Maximum	D	E	F	G	Н	1
ASTH 3 x 3	3	881	835	310	1560	1440	680	40	570	1100
ASTH 5 x 3	3	881	1640	710	1560	1440	680	40	570	1100
ASTH 5 x 5	5	881	1640	350	1560	1440	680	40	570	1100
ASTH 7 x 5	5	1855	1790	390	1560	1440	680	40	570	1100
ASTH 7 x 7	7	1855	1790	260	1560	1440	680	40	570	1100
ASTH 9 x 5	5	2410	2350	530	1560	1440	680	40	570	1100
ASTH 9 x 7	7	2410	2350	350	1560	1440	680	40	570	1100
ASTH 9 x 9	9	2410	2350	265	1560	1440	680	40	570	1100
ASTH 11 x 9	9	2860	2850	325	1560	1440	680	40	570	1100
ASTH 11 x 11	11	2860	2850	260	1560	1440	680	40	570	1100

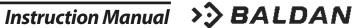
Table 1



04 - TECHNICAL SPECIFICATIONS

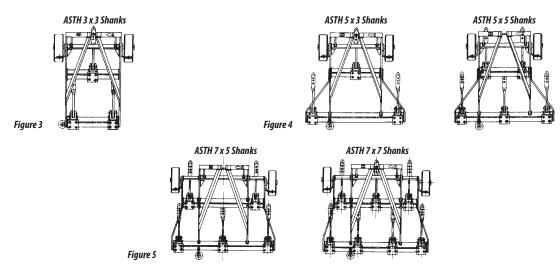
M - 4 - 1	Nrof	Tive Circa (comm)	Shanks	Shelf width	D(1-()	Approx. weight	Approx. power to work	
Model	Shanks	Tip Size (mm)	Spacing (mm)	(mm)	Depth (mm)	(Kg)	Surface (Hp)	Deep (mm)
ASTH 3 x 3	3	75 x 450	310	620	450	330	40 a 45	55 a 65
ASTH 5 x 3	3	75 x 450	620	1240	450	358	40 a 45	55 a 65
ASTH 5 x 5	5	75 x 450	310	1240	450	425	55 a 60	70 a 80
ASTH 7 x 5	5	75 x 450	310	1240	450	479	55 a 60	70 a 80
ASTH 7 x 7	7	75 x 450	260	1560	450	591	70 a 80	90 a 105
ASTH 9 x 5	5	75 x 450	520	2080	450	513	55 a 60	70 a 80
ASTH 9 x 7	7	75 x 450	310	1860	450	579	70 a 80	90 a 105
ASTH 9 x 9	9	75 x 450	260	2080	450	645	90 a 105	115 a 130
ASTH 11 x 9	9	75 x 450	310	2480	450	680	90 a 105	115 a 130
ASTH 11 x 11	11	75 x 450	260	2600	450	745	110 a 120	140 a 150

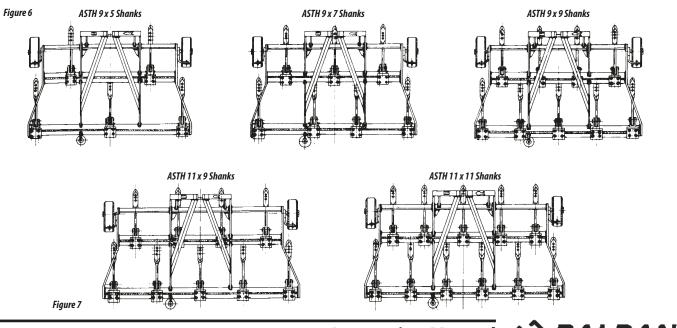
Baldan reserves the right to modify any technical specifications without prior notice. The technical specifications it's approximate and informed by regular conditions of work. Table 2



05 - ASSEMBLY

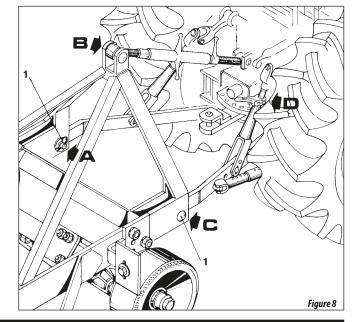
01 - The subsoiler assembly is done complete into the factory. Follow, showing the hastes orderfor each subsoiler model.





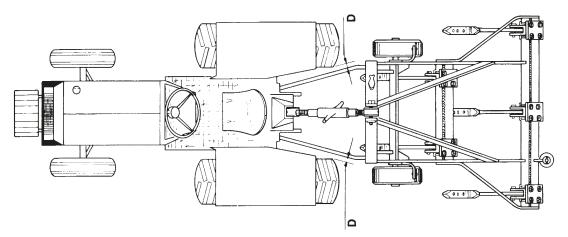
06 - SUBSOILER HITCH

- Before to hitch the subsoiler at the tractor, make sure if the same it's read to work, as follow:
- 01 Take oof the traction bar.
- 02 Make sure if the tractor has the front weights kit.
- 03 Ballast the wheels as the tractor specifications.
- 04-Hitch the lower left arm of tractor with the clamp pin as item 1 figure 8, at "A" support of subsoiler.
- 05 Hitch the 3° point of tractor at the "B" support of subsoiler.
- 06-Finally with the help of regulator handle of high "D" hitch the right lower arm of tractor at the "C" support of subsoileras shown the figure 8. Turn the handle supporte and the counter pin.



SUBSOILER CENTRALIZATION

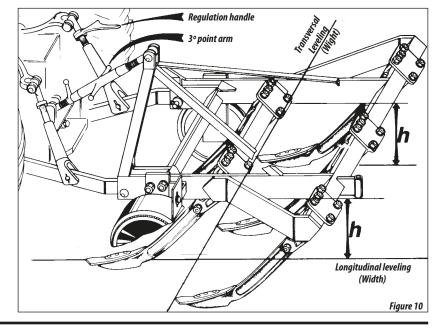
- To centralize the subsoiler related the longitudinal axle of tractor, proceed as follow:
- 07 Align the upper hitch of subsoiler with the 3º point of tractor; make sure if the distance "D" of lower arms from hydraulic are equal related the tractor tires as figure 9. The lower arms should be level with each other.



Fiaure 9

SUBSOILER LEVELING

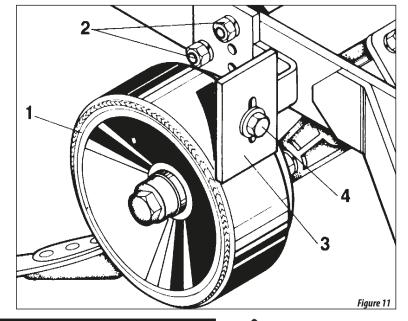
- To leveling the subsoiler proceed as follow:
- 08 The tractor must be in the flatness place; after that leveling the subsoiler on transversal way (width) through the handle of lower right arm from hydraulic hitch. Make sure the mesures "H" that must be equal as Figure 10.
- 09-The longitudinal leveling (lenght) it's done through the arm of 3° point. Make sure that the shanks should be parallels to the soil as Figure 10.



07 - ADJUSTMENTS AND OPERATIONS

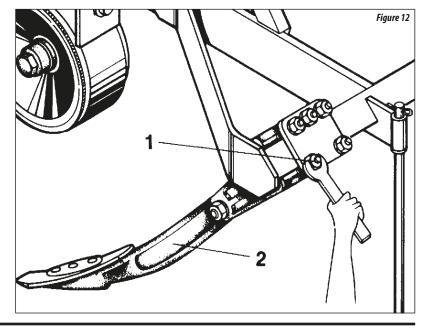
DEEP REGULATION

- 01-The subsoiler depth it's regulated through the wheels item 1 Figure 11, that limited the penetration of all shanks by uniform way.
- 02 For this regulation, loose the nuts item 2 and displace the wheel till the measure desired. Retight the nuts.
- 03 Also regulate the scrapers item 3, loosing the nuts item 4 and replace that till stay with a looseness of 10 to 20 mm from wheel.



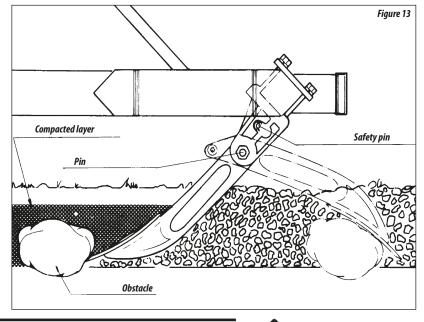
REGULATION OF SPACING BETWEEN THE SHANKS

- 04-The spacing between shanks must be regulated when the number of shanks changes (7 to 5 shanks, for example) or acoording of soil that will be worked.
- 05-To regulate the spacing, loose the nuts item 1, Figure 12 and slide the shank item 2 till the desire mesure. Retight the nuts item 1.



OPERATIONS

- 06-Subsoiling should be done on relatively dry land, in order to break up the compacted soil, commonly known as the hardcover, or simply walking plow compacted layer.
- 07-Checking the depth of the compacted soil (see detail in Figure 13) then adjust the working depth of the shanks.
- 08-The shanks are secured with a bolt controlled strength and a safety pin (Fuse). In operation, if the shank find a big obstacle and very resistant, the pin broken and the shank rotates over the bolt as shown in Figure 13, avoiding further damage to the set and own tractor.
- 09-Select a gear that allows the tractor to keep a certain reserve of power, ensuring against unforeseen efforts.
- 10-The working speed varies according the soil, we recommend an average of 4.5 to 5 km/hour.





08 - MAINUTENANCE

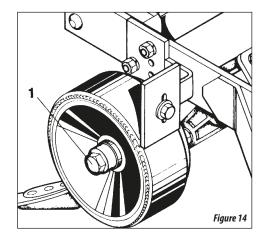
- 01 Check daily the conditions and tightening of bolts, nuts and pins of the subsoiler.
- 02 The nozzles are reversible. Always check the damage and make the reversal, if necessary to not miss the action of breaking the compacted soil.
- 03 Check if anyone pin broke.

LUBRICATION

- 04 Lubrication is essential for good performance and durability of the rolling part of the subsoil.
- 05 Lubricate the depth wheel each 100 hours of work as follows:
- 06 Remove the cap figure 14 item 1;
- 07 Clean the old grease.
- 08 Place new grease in the cap.
- 09 Replace the cap on the wheel.

09 - CLEANING

- 01 When assembling or disassembling any portion of the subsoil use methods and properly tools.
- 02 When the subsoil is staying for a longer inative period, make a general clean, check if the paint doesn't wear off. If this happened, give an overall coat, protective and lubricating oil to pass completely the subsoil. Check the nozzles, giving a fresh coat of paint on them pass protective oil.



10-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





PRODUCT IDENTIFICATION

• Do the identification below to always have the property informations at	oout your equipment life time.
Owner:	
Dealer:	
Farm:	
City:	Country:
Model:	
Warranty certified number:	Serial number:

Purchase date:	/	/	Invoice. Nr:

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



NOTE:		

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 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 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:

for analysis of the the after sales department in a future visit (in case of requested).

- 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 aftersales@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
- 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.

Serial number

• DELIVERY SERVICE: The user was informed about the current quarantee terms and instructed about maintenance care and utilization.

Product.

• I confirm that I was informed about the current guarantee terms and instructed about the correct utilization and maintenance of this product.

Date:	Bill of sale:		Store:	
				Zip code:
				Number:
City:				
E-mail:				
1ª Page - Owner	Signature / Store	's stamp		

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.

Serial number:

• DELIVERY SERVICE: The user was informed about the current quarantee terms and instructed about maintenance care and utilization.

Product: _____

Date:

Bill of sale:

• I confirm that I was informed about the current guarantee terms and instructed about the correct utilization and maintenance of this product.

City:	State:	Zip code:
Owner:	Phone:	
Adress:		
City:	State:	
E-mail:	Date	of sale:
2ª Page - Store	Signature / Store's stamp	

Store:

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- 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:				
Adress:				Number:
City:		State:		
E-mail:			Date of sale:	
L-111dii.			Dute of sure.	

3ª Page - Manufacturer

Signature / Store's stamp _____

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

1.74.05.0059-5 ECT/DR/SP AC MATÃO

RESPONSE CARD

NO STAMPING IS REQUIRED

THE STAMP WILL BE PAID BY:



Av. Baldan, 1500 | Nova Matão | CEP. 15983-900 | Matão-SP | Brasil | Cepre. (9"16) 3221-6500 | Fax: (9"16) 3231-6500 | Fax: (9"16) 3231-6500 | Fax: (9"16) 3231-6500 | Fax: 50 | Sax1-6500 | Fax: 50 | Sax1-6500 | Fax: 55 | 16 3382-4212 | 3382-4480 | Fax: 51 | 5 3382-4480 | Fax: 51 | Sax1-6500 | Fax: 52 | Sax1-6500 | Fax: 53 | Sax1-6500 | Fax: 54 | Sax1-6500 | Fax: 55 | 16 3382-4212 | 3382-4480 | Fax: 54 | Sax1-6500 | Fax: 55 | Sax1-6500 |

>> BALDAN

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