



LUMA Implementos Agrícolas

2015

BC 80 – BC 30 OWNER MANUAL

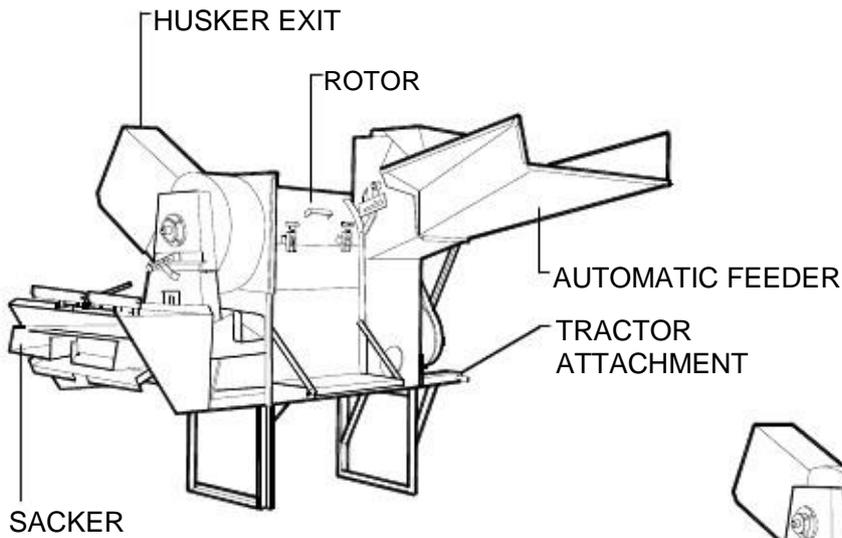


ENGENHARIA

LUMA IMPLEMENTOS

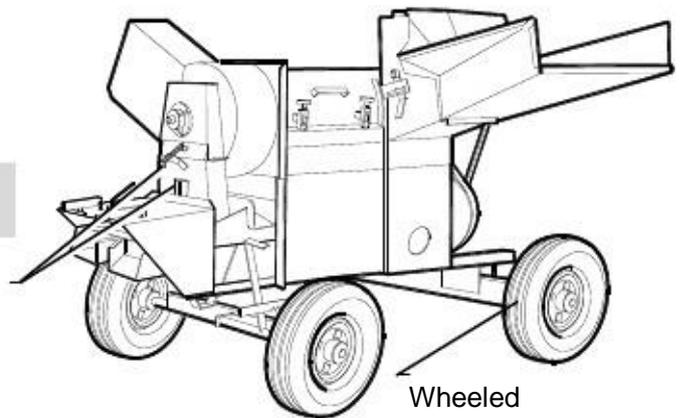
22/07/2015

MAIN PARTS

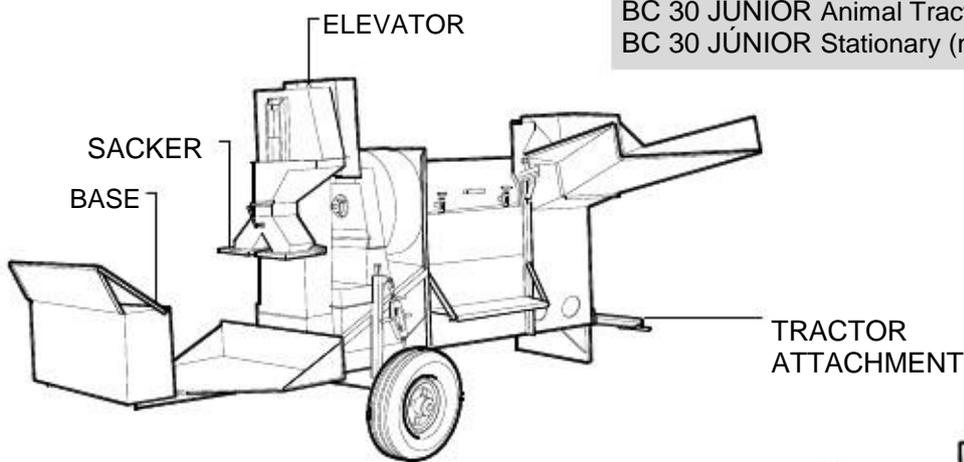


BC 30 JÚNIOR Universal

REGULATOR OF SUCTION

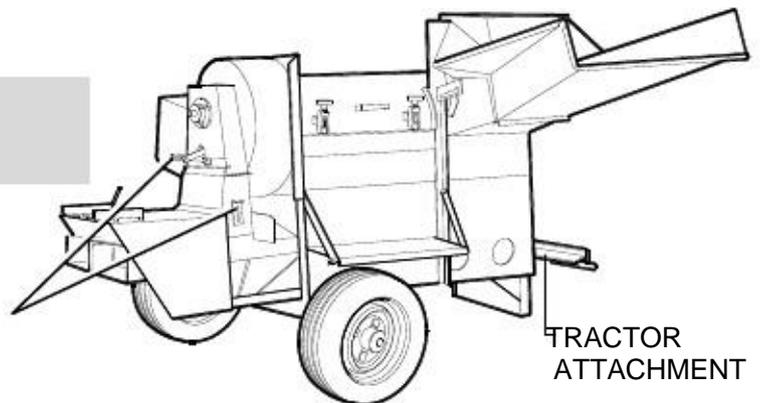


BC 30 JÚNIOR Animal Traction
BC 30 JÚNIOR Stationary (no wheeled)



BC 80 III Plataform and Elevator
BC 80 III Standard Plataform (no Elevator)

REGULATOR OF SUCTION



BC 80 III Universal

INTRODUCTION

Congratulations for the acquisition of a product with the most advanced technology in trail and cereal cleanness. The LUMA CEREALS THRESHERS were projected and tested to offer productivity, agility, and perfect functioning for many and many years. To obtain the best performance of your LUMA CEREAL THRESEHER, read carefully the instructions of this manual. In case of doubts, look for a LUMA authorized representative or get in contact with us.

ACTUATION

The LUMA CEREALS THRESHERS are joint to the tractor hydraulic system and actuated in electric power to 540 rpm and 1000 rpm in Agrale 4200 (technical characteristics, see page 8).

NOTE: The BC 30 JUNIOR Animal Traction model can be actuated by electric motor, diesel or gasoline engine (necessity potency, see page 8).

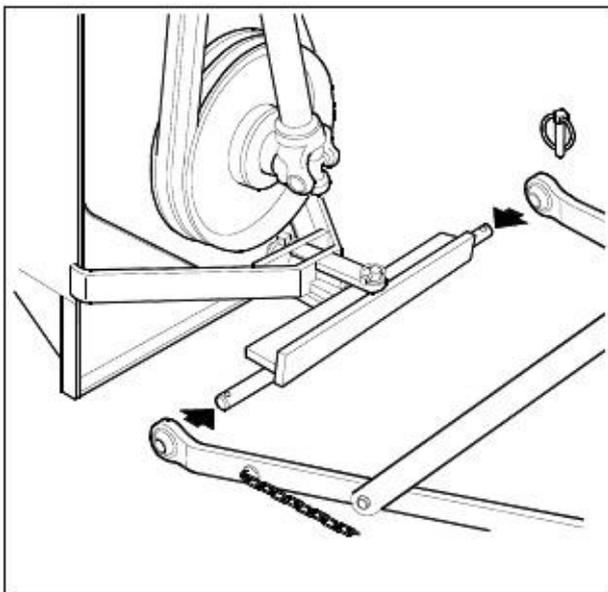
CONNECTING TO THE TRACTOR

1. Place the tractor in a way that the electric power plug stays as close as possible to the cardan of the machine actuated.
2. Join the two hydraulic arms of the tractor to the establisher base of the machine, locking it with the respective pins.

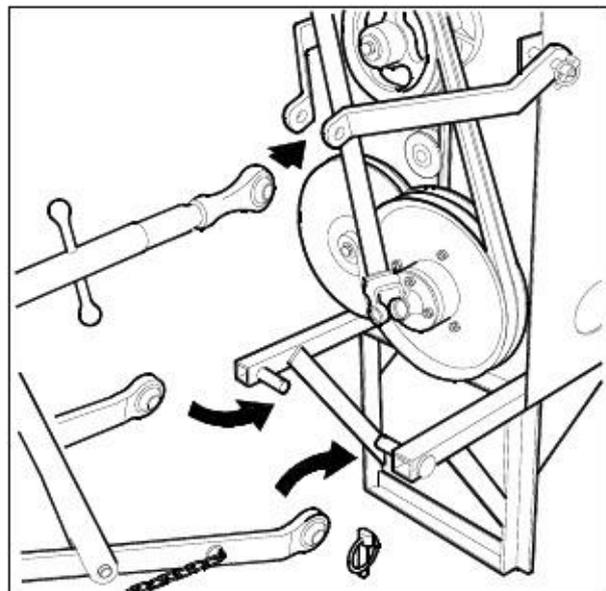
NOTE: In the model BC 30 JUNIOR Universal must also hinge the superior hydraulic arm (third point) to the machine.

3. Join the cardan to the tractor electric power plug.

ATTENTION: After hinging it, observe if the security pin of the cardan was correctly actuated and also check if it is secured locked.



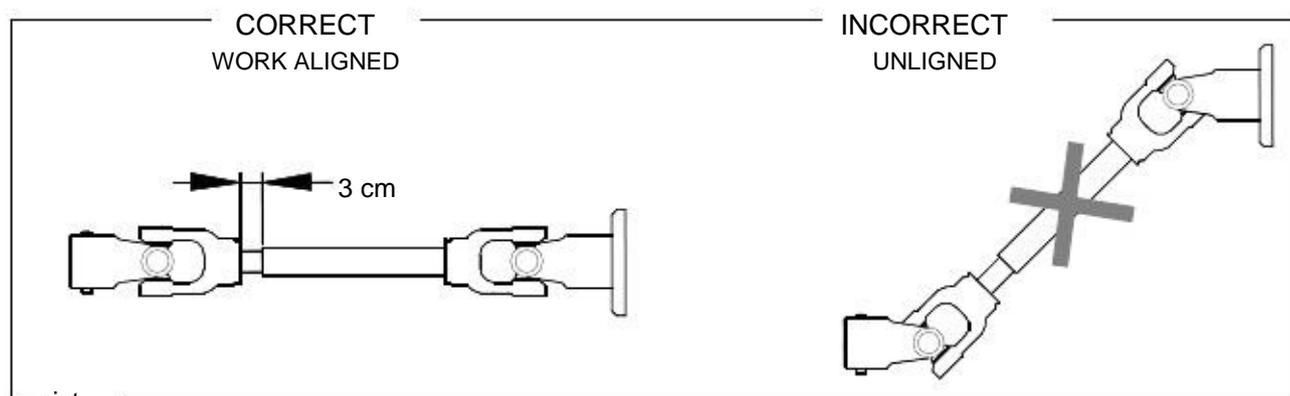
BC 80 III



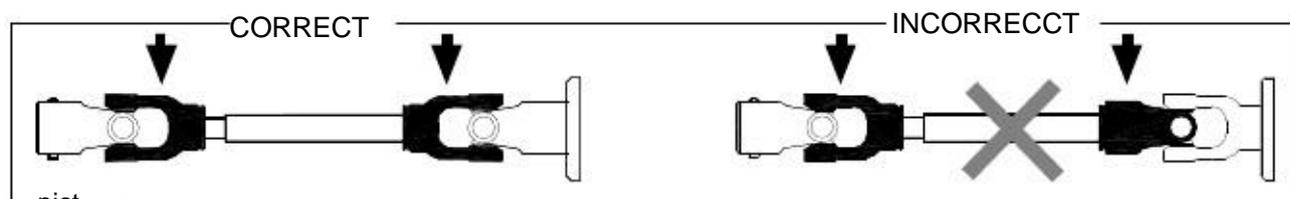
BC 30

IMPORTANT

- In work position, the cardan must be kept 3cm of clearance (as described in the pict. A), to avoid possibles damages to the crosshead. In case of necessity, the cardan length must be adjusted in order to obtain clearance quoted above.
- Always work with the cardan leveled and avoid brusques manuevers while the machine is functioning.
- Always join the cardan with the gauntlet aligned to avoid undesirable vibration (as ilustrated in pict.B,below).



pict.



pict.

SECURITIES RECOMMENDATIONS

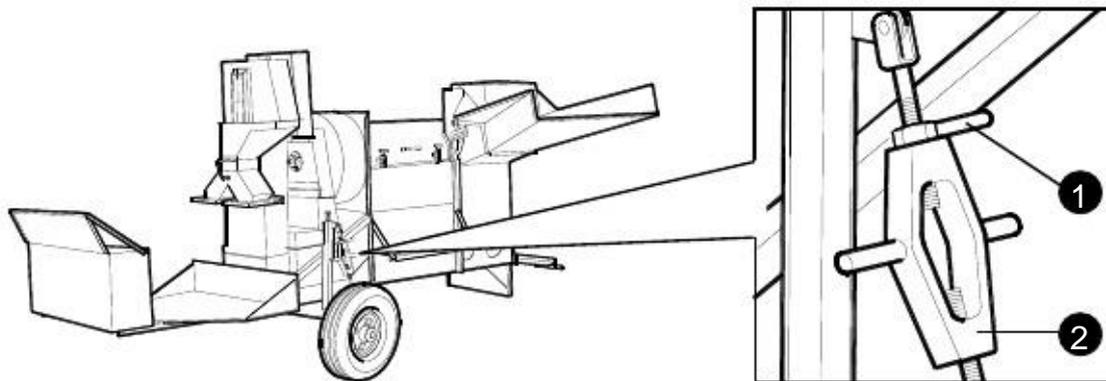
- Before starting the CEREAL THRESHER, verify if there is no objects or tools inside of the feeding bin or on the machine.
- Keep feet and hands far from the parts in motion (pollies,belts, cardan, etc). Do not use loose or faded clothes while operating the machine.
- Never introcuce your hands or objects inside the feeding bin to auxiliary the feeder. This procedure can cause personal injuries.
- Keep all the protections in the right place and turn the machine off before regulating, cleaning or lubricating.
- Drive the tractor with moderated speed, specially in curves or in rough terrene.

NECESSARIES ADJUSTMENTS BEFORE INITIATING THE OPERATION

LEVELING

The THRESHER equipped with wheeled, possess dispositive leveler which facilitates the adjustment level of the machine when working in irregular terrene. To level in a correct form, please follow the instructions in the next page.

Release the screw rib (1), and turn the dispositive (2) until you obtain the correctly leveling of the THRESHER. Next, retighten the screw rib (1).



IMPORTANT: The correct leveling is an important factor to obtain the best performance and productivity of your THRESHER.

A UTOMATIC FEEDER ADJUSTMENTS

All models are equipped with Automatic Feeder which keeps the alimentation stream appropriated to the machine, requiring only to adjust the feeder gap according with the type and condition of the product that will be prossecuted.

FEEDER GAP ADJUSTMENT (Pict. C)

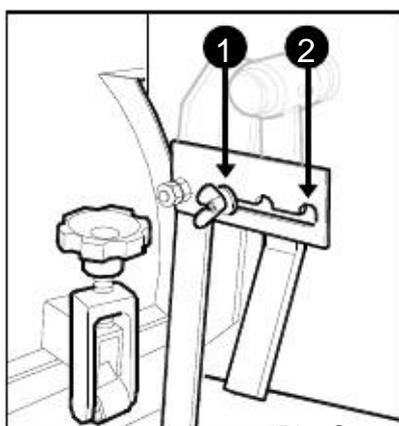
POSITION 1	To beat rice, soybean, dried bean.
POSITION 2	To beat corn, bean and creeper bean
MEDDIUM POSITION	Intermediay position that, depending on the huskes volume and quantity, it will adapt to the most indicated gap.

FEEDER COVER ADJUSTMENT (Pict. D)

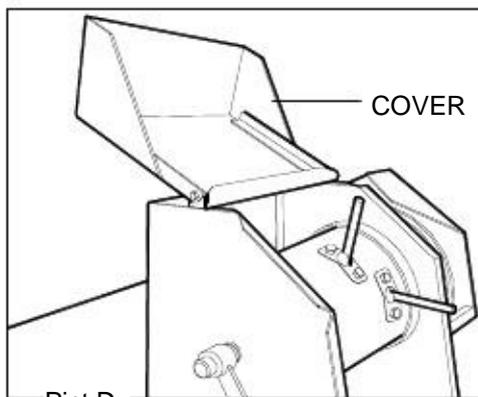
Depending on the product type to be prossecuted, the superior automatic feeder cover must be kept opened or closed:

To beat corn: CLOSED COVER

To beat rice, bean and soy: OPENED COVER



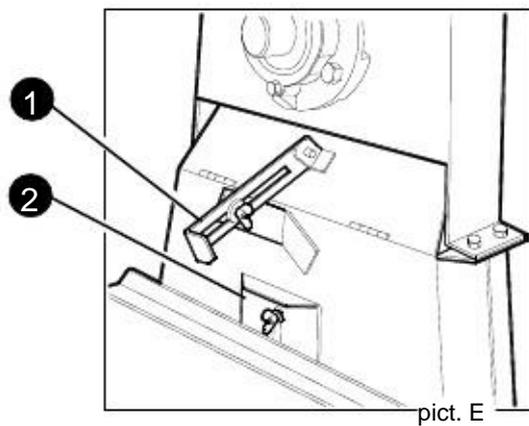
Pict.C



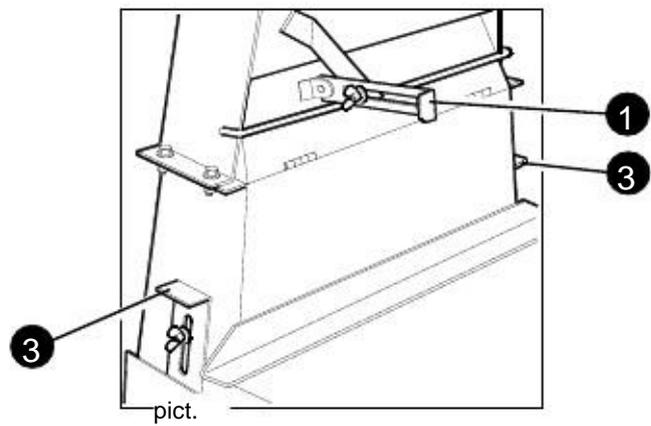
Pict.D

P RODUCT CLEANNESS (SUCTION)

The cleanness is accomplished by a suction system which separates the products and impurities. The ideal regulation varies according to the product conditions, such as: product humidity degree, humidity related to the air, husks quantity, etc.



BC 30 JÚNIOR



BC 80 III

HUSKS SUCTION ADJUSTMENT (models BC 30 JUNIOR and BC 80 III)

While the machine is functioning, loosen the wing screw of the regulator of suction (1) and slowly open the air entrance in a way that from the husk exit, are setting out only husks and impurities, without grain loss.

After, tighten the wing screw of the suction regulator (1). In case rice is being thrown out with husks, it is necessary to reduce the fan suction by turning the air inlet.

SUCTION OF THE DETRITUS ADJUSTMENT (model BC 30 JUNIOR) pict. E

While the machine is functioning, loosen the wing screw of the regulator of suction (2) and adjust according with the impurity volume existing with the product. After, tighten the wing screw of the regulator of suction (2).

SUCTION OF DETRITUS ADJUSTMENT (BC 80 III) pict. F

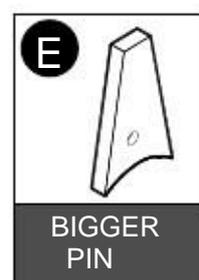
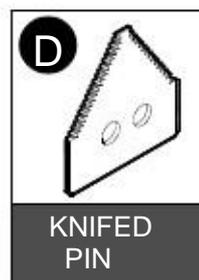
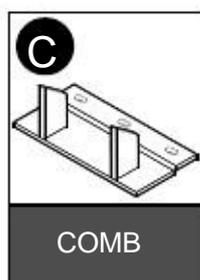
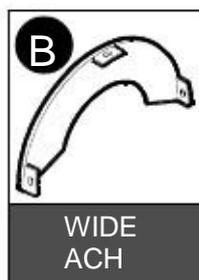
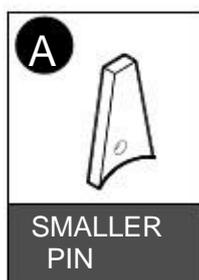
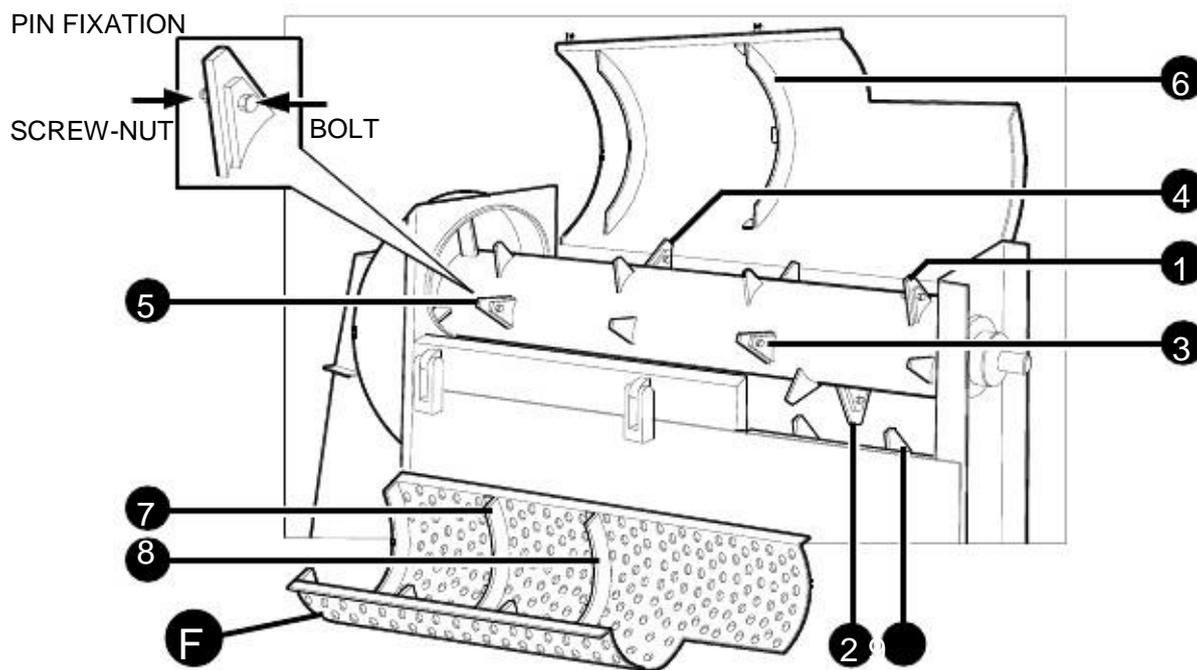
While the machine is functioning, loosen the wing screw of the regulator of suction (3) existing in both sides of the suction box, adjust and fix the regulator at the same height according to the impurity volume existing with the product.

NOTE: If the impurities are sticking out with grains, in BC 30 JUNIOR or BC 80 III, increase the suction, closing slowly the regulator (1) until you obtain the appropriated cleanness.

O PERATION

Always initiate the operation with the machine totally empty. Turn the electric power plug on of the tractor and wait few instant, until the rotor reaches the speed of its work and then start the feeding. The machine must be totally empty when is time to stop it.

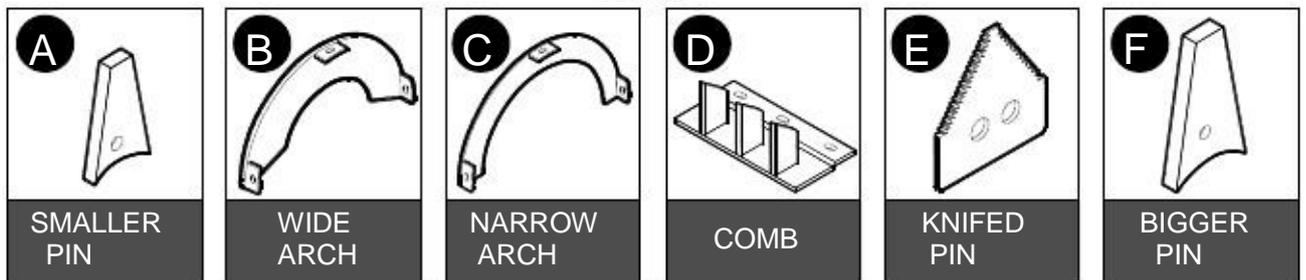
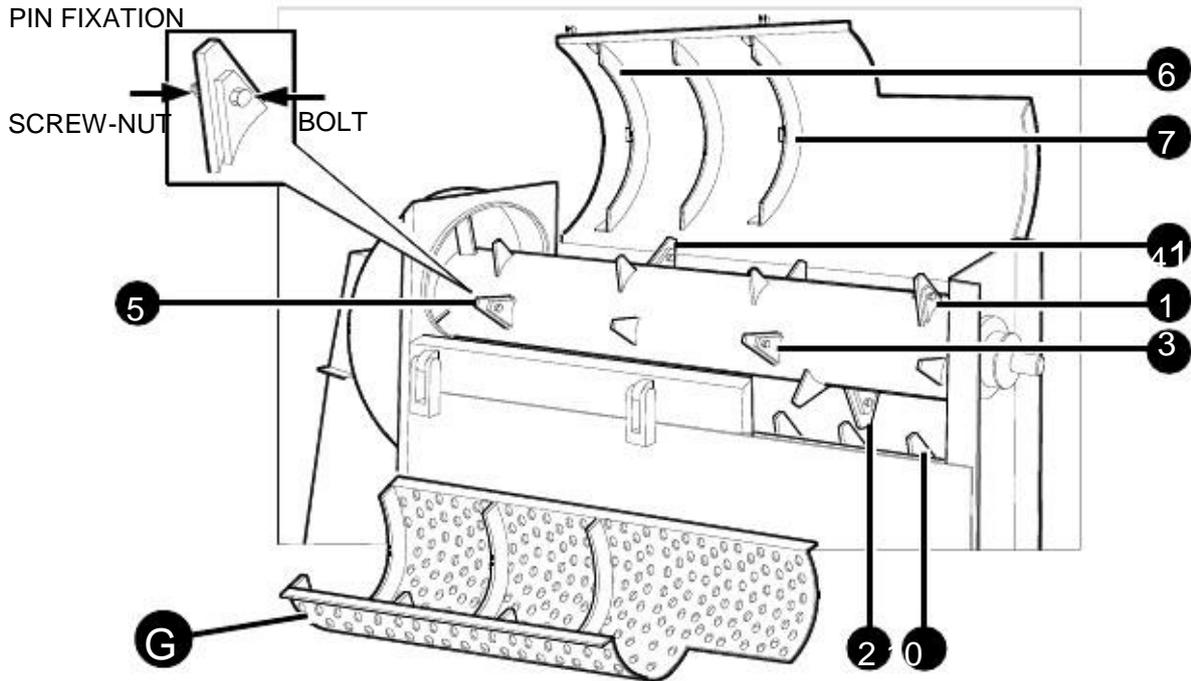
TO BEAT GRAINS - model BC 30 JÚNIOR



PRODUCT	INSTRUCTIONS - BC 30 JÚNIOR
RICE	Cut branches within 40 cm of length. Place two pins A in positions 4 and 5.
DRIED BEAN	Place four pins A in positions 1, 2, 3, 4 and 5.
BEAN WITH GREEN BRANCHES	Place two pins type D in positions 1 and 2.
CREEPER BEAN	Place the comb C in position 9. Place two pins D in positions 1 and 2.
CORD BEAN	Change the sieve holes F \varnothing 16 mm to the \varnothing 14 mm sieve holes. Place the comb C in position 9. Place four pins A in positions 1, 2, 4 and 5. Place one arch B in positions 6.
COMMON SOY	Place five pins A in positions 1, 2, 3, 4 and 5.
ROBUST SOY	Place three pins E in positions 1, 2 and 3. Place two pins A in positions 4 and 5.
CORN	Place three archs B in positions 6, 7 and 8. Remove all the pins that are settled in the rotor.

NOTE: *The items A, B, C and D, comes with the machine, and the rest are optionals. When fixing the pins of the rotor, always installs the screw at the left side of the pin, as shown in the "FIXATION OF THE PIN" above.

TO BEAT GRAINS - model BC 80 III

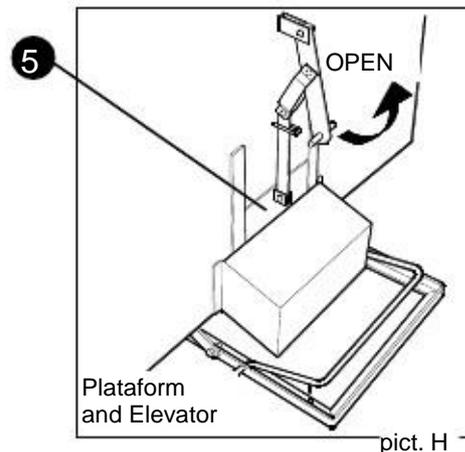
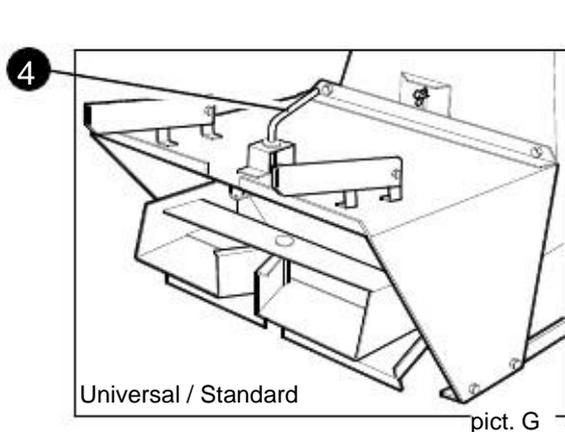


PRODUCT	INSTRUCTIONS - BC 80 III
RICE	Cut branches, maximum, 40 cm of length. Place two pins A in positions 4 and 5.
DRIED BEAN	Place five pins A in positions 1, 2, 3, 4 and 5.
BEAN WITH GREEN BRANCHES CREEPE BEAN	Place three pins E in positions 1, 2 and 3. Place one arch B in position 6.
	Place the comb D in position 10 Place three pins E in positions 1, 2 and 3.
CORD BEAN	Change the sieve G holes \varnothing 16 mm to the sieve holes \varnothing 14 mm. Place the comb D in position 10. Place five pins A in positions 1, 2, 3, 4 and 5. Place two archs B in positions 6 and 7.
COMMON SOY ROBUST SOY	Place five pins A in positions 1, 2, 3, 4 and 5. Place four pins F in positions 1, 2, 3 and 4. Place one pin A in position 5.
CORN	Place one arch C in position 7. Remove all the pins that are settled in the rotor.

NOTE: *The items A, B, C and E comes with the machine and the rest are optional. *By fixing the rotor pins, always install the screw at the left side of the pin, as shown in "FIXATION OF PINS", above.

S ACKING

The LUMA THRESHERS are equipped with a continuous sacking system. In the models B C 30 JUNIOR, BC 80 III (UNIVERSAL AND STANDARD PLATAFORM) the sacker has two exit (pict - G). You must put two sacks and when one of them is full, actuate the lever (4) directing the unloaded to the empty sack.



T ECHNICAL CHARACTERISTICS

	BC 30 JÚNIOR			BC 80 III		
	Universal	Animal Traccion	Stationary Motor	Universal	Plataform Standard	Plataform Elevator
Length	2050 mm	2550 mm	2050 mm	2520 mm	3400 mm	3300 mm
Width	1930 mm	2280 mm	2610 mm	2200 mm	2350 mm	2350 mm
Height	1580 mm	1580 mm	1580 mm	1800 mm	1800 mm	2000 mm
Sacker height from the ground	600 mm	600 mm	600 mm	760 mm	-	-
Groun height to the plataform	-	-	-	-	200 mm	425 mm
Plataform height to the sacker	-	-	-	-	560 mm	625 mm
Weight	300 Kg	438 Kg	326 Kg	510 Kg	600 Kg	635 Kg
Rotation of the rotor	820 rpm	820 rpm	820 rpm	860 rpm	860 rpm	860 rpm
Actuation	Driving Electric Motor: 10 hp by PTO Diesel Engine: 9 hp 540 rpm Gasoline Engine: 12,5 hp (Agrale 4200 1000 rpm)			Driving by PTO 540 rpm	Driving by PTO 540 rpm	Driving by PTO 540 rpm

PRODUCTION		
	BC 30 JÚNIOR Universal - Animal Traction - With Motor Universal	BC 80 III Plataform Std.- Plataform and Elevator
BEAN	15 to 22 sakes per hour	15 to 35 sakes per hour
CORN	25 to 45 sakes per hour	60 to 80 sakes per hour
RICE	15 to 20 sakes per hour	15 to 25 sakes per hour
SOY	15 to 20 sakes per hour	15 to 35 sakes per hour

OCCORRENCY CHART

Some problems might eventually affect the equipment's performance, by inadequate adjustments. The chart below shows the most common occurrences, probable causes and indicated solutions.

OCCORRENCY	PROBABLE CAUSES	HOW TO PROCEED
Unsatisfactory cleanness	Low rotation.	While the machine is thrashing keep: BC 30 JÚNIOR = 820 rpm in the rotor. BC 80 III = 860 rpm in the rotor.
	Loosen belts. Suction missing.	Stretch the belts. Regulate suction as shown on page 5.
Breaking grains.	Rotation excess.	While the machine is thrashing keep: BC 30 JÚNIOR = 820 rpm in the rotor BC 80 III = 860 rpm in the rotor.
	Missing deflector arch.	Install deflector arch. As shown on pages 6 and 7.
	Beating with smaller pins installed.	To beat corn, remove all the smaller pins and as shown on pages 6 and 7.
Low production.	Low rotation.	While the machine is thrashing keep: BC 30 JÚNIOR = 820 rpm in the rotor. BC 80 III = 860 rpm en el rotor.
	Irregular alimentation.	Keep the feeding bin full.
	Loosen belts.	Stretch the belts.
	Rotor pins used up or damaged.	Substitute the used up or damaged pins. Stretch the belts.
Throwing grains with branches.	Loosen belts.	
	Suction excess.	Open the suction regulator until it eliminates the lost of grains, as shown on page 5.
	Incorrectly rotation.	While the machine is thrashing keep: BC 30 JÚNIOR = 820 rpm in the rotor. BC 80 III = 860 rpm in the rotor. Wait until the product are in conditions
Overfull of the machine.	Product exccely humid or green.	to be proceeded.
	Rice cutted with long branches.	Cut rice with short branches (40 cm - máx).





LUMA Implementos Agrícolas

WARRANTY CERTIFICATE

LUMA IMPLEMENTOS AGRÍCOLAS. guarantees the machine here characterized against defects of manufacturing proven by the factory, following the conditions below:

1. The guarantee is due during the first six months, from the date that the machine is invoiced to the first client.
2. Consist the present guarantee in the compromise of LUMA to repair or provide freely in our factory in Itapira-SP the parts that presents manufacturing defects.,
3. It is not guaranteed by LUMA , damaged parts by improper use and neither in current abrasion of normal use, for example: sieves, belts, pins, etc, such as damages by inadequate transport.
4. The present guarantee will be complet invalid in the following cases:
 - A) Unadequated application of the machine, use of unadequated lubricative or negligence in the observation of instructions from this manual.
 - B) Modification and adpation, utilinzing parts or components not authentic.
5. Complaint about eventuals defects during the guarantee period must be presented to an LUMA authorized representative, which wil guide to the factory, with the defected part, and once detected the defect, it will be substituted.
6. It will only be accomplished the clause of the present guarantee certificate if the staff anexed is at LUMA possession, correctly filled out, when the solicitation by the usuary part, of the guarantee terms.
7. LUMA IMPLEMENTOS AGRÍCOLAS. reserves the right to effect modifications, always when it judged necessary.

ATTENTION: The control below must be tottaly filled out and kept by the owner. It will be very important for the machine identification if eventually some components needs to be replaced

OWNER GUARANTEE CONTROL

CEREAL THRESHER MODEL: _____ SERIES # _____

RECEIVE # _____ DATE _____ / _____ / _____

OWNER _____

ADDRESS _____

ZIP CODE _____ CITY _____ STATE/COUNTRY _____

DEALER- SEAL / SIGNATURE



DEALER GUARANTEE CONTROL

CEREAL THRESHER Model: _____ SERIES # _____

RECEIVE # _____ DATE: ____ / ____ / ____

OWNER: _____

ADDRESS: _____

ZIP CODE: _____ CITY _____ TE/COUNTRY _____

OWNER'S SIGNATURE

DEALER- SEAL / SIGNATURE

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FACTORY GUARANTEE CONTROL (FEEL AND KEEP IT)

CEREAL THRESHER MODEL: _____ SERIES # _____

FACTORER RECEIVE # _____ DATE ____ / ____ / ____

DEALER RECEIVE # _____

OWNER _____

ADDRESS _____

ZIP CODE _____ CITY _____ STATE/COUNTRY _____

OWNER'S SIGNATURE

DEALER - SEAL / SIGNATURE

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TO

LUMA IMPLEMENTOS AGRÍCOLAS

RUA XV DE NOVEMBRO,791 - ITAPIRA/SP - BRAZIL

CEP: 13974-520

Remitter:

Zip code:

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