# OPERATOR'S MANUAL PARTS CATALOG

# SICKLE BAR



p/n GH 19502091 02 / 2008

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#### TO THE DEALER:

Assembly and proper installation of this product is the responsibility of the Frontier dealer. Read manual instruction and safety rules. Make sure all items on the Dealer's Pre-Delivery Check List in the Operator's Manual are completed before releasing equipment to the owner.

The dealer must complete the Warranty Registration, located on the Frontier website. Warranty claims will be denied if the Warranty Registration has not been completed.

#### TO THE OWNER:

Read this manual before operating your frontier equipment. The information presented will prepare you to do a better and a safer job. Keep this manual handy for ready reference. Require all operators to read this manual carefully and become acquainted with all the adjustment and operating procedures before attempting to operate. Replacement manuals can be obtained from your selling dealer.

The equipment you have purchased has been carefully enginereed and manufactured to provide dependable and satisfactory use. Like all mechanical products, it will require cleaning and upkeep. Lubricate the unit as specified. Observe all safety information in this manual and safety decals on the equipment.

For service, your authorized Frontier dealer has trained mechanics, genuine Frontier service parts, and the necessary tools and equipment to handle all your needs.

Use only genuine Frontier service parts. Substitute parts will void the warranty and may not meet standards required for safe and satisfactory operation. Record the model number and serial number of your equipment in the spaces provided:

Model:	Date of Purchase
Sovial Number (200 Sofety Docal continue for long	tion)
Serial Number: (see Safety Decal section for local	ition)

Provide this information to your dealer to obtain correct repair parts.

Throghout this manual, the term **IMPORTANT** is used to indicate that failure to observe can cause damage to equipment. The terms CAUTION, WARNING and DANGER are used in conjunction with the Safety-Alert Symbol, (a triangle with an esclamation mark), to indicate the degree of hazard for items of personal safety.



This Safety-Alert Simbol indicates a hazard and means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury.



Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed.



Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury.

**IMPORTANT** 

Indicates that a failure to observe can cause damage to equipment.

NOTE Indicates helpful information.

#### **DESCRIPTION**

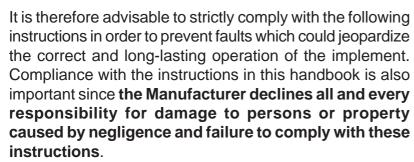
#### Description of the sickle bar

This agricultural implement can only operate by means of a cardan shaft applied to the pto of an agricultural tractor equipped with lift and universal three-point hitch. Since it is movable, the mowing machine can be easily mounted on tractors with different gauges or on tracked vehicles (Fig. 1). The two-motion tooth-blade system used in mowing machines, makes possible a scissors cut which leads to a higt speed operation on a any crop. The original tooth-blade motion guarantees a sharp and clean cut on any type of grass, be it damp or flattened. It is thanks to the total absence of soil which this mowing system does not raise, sharp because the stems are not frayed. The sickle bar may also be used with the cutting arm tilted for working on canals, ditches and embankments (Fig. 2 and 3).



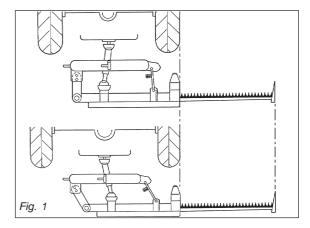
#### **ATTENTION**

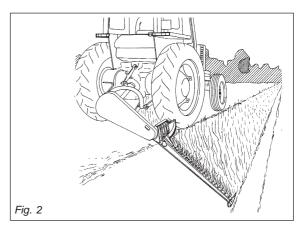
The sickle bar is suitable only for the uses indicated. Any other use different from that described in these instructions could cause damage to the machine and represent a serious hazard for the user.

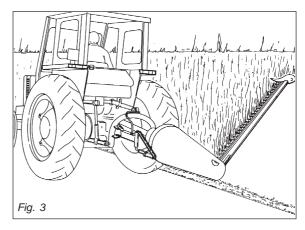


The Manufacturer shall, however, remain at the customers' disposal for immediate and thorough assistance together with anything else that may be required in order to ensure the correct operation and maximum efficiency of the implement.

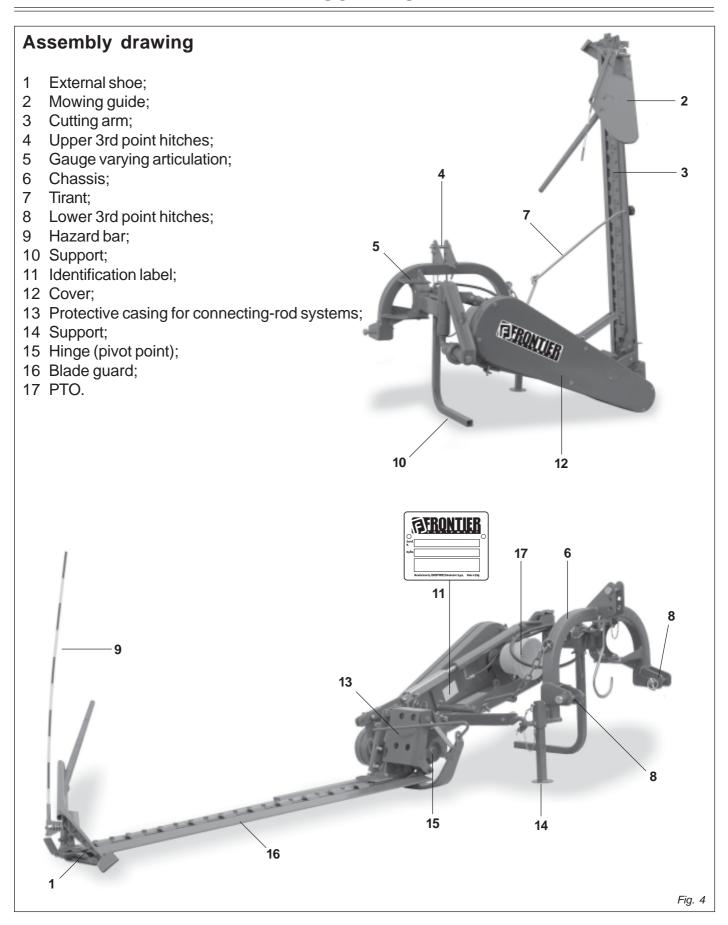
The Manufacturer reserves the right to make any modifications and improvements to the implement as may be considered opportune, without being obliged to immediately inform the user.



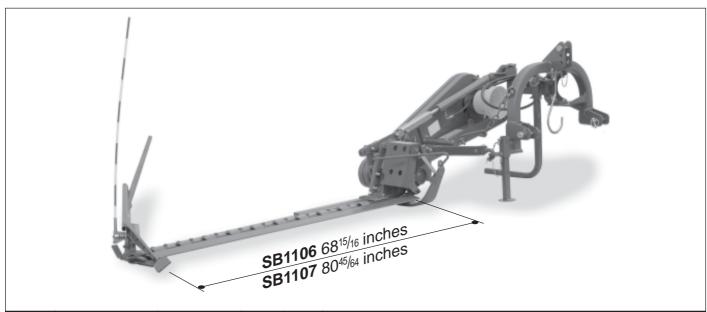




#### **DESCRIPTION**



#### **TECHNICAL SPECIFICATIONS**



Model	Work/width inches	Tractor HP min max.	Weight lbs.	Tooth number	Sections number	Side Drive	Work speed miles/h	PTO Input speed		Acoustic power level uttered bay machine (Weighed A) LwA	Continuous equivalent acoustic radiation pressure level (Weighed A) in the "worker's position" L <sub>PA</sub>
SB 1106	68.9	25 - 50	456	12	24	Belts B-93	6.2÷7.5	540	Cat. "I" Cat. "II" Quick coupler	110.7 dB	91.7 dB
SB 1107	80.7	25 - 50	470	14	28	Belts B-93	6.2÷7.5	540	Cat. "I" Cat. "II" Quick coupler	110.7 dB	91.7 dB

#### Handling

During handling operations, use suitable personal protection device:

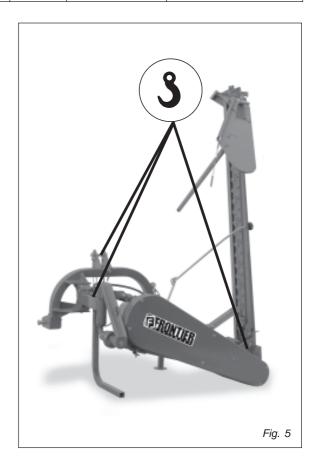


If the machine is handled, it must be lifted by hooking (Fig. 5) onto the appropriate holes with a suitable winch or crane of sufficient capacity. Because of the danger involved, this operation should be carried out by trained and responsible personnel. The mass of the machine is on the identification label (11 - Fig. 4).

Stretch the rope to keep the machine level.

The lifting points can be detected by finding the "hook" symbol (8 - page 9).

During handling operations make sure the implement has the required safety devices and guards.



#### SAFETY SIGNS

#### Safety-alert symbol

Read and recognize safety information.

Be alert to the potential for personal injury when you see this safety-alert symbol.



On your machine safety labels, the words DANGER, WARNING, and CAUTION are used with a safety symbol. DANGER identifies the most serious hazards. In this manual, the word CAUTION and this symbol call attention to safety messages.

#### Identification machine

Identification label

#### Machine safety labels

#### 1) CAUTION: AVOID INJURY

- Read Operator's Manual
- Ballast power unit per operator's manual
- Know location and function of controls
- Keep all shields in place
- Stay clear of power driven parts
- Never carry riders
- Keep people and pets a safe distance away from machine

#### BEFORE DISMOUNTING OR SERVICING

- Shut off engine and remove key
- Lock brake for park
- Lower or block up machine

#### 2) CAUTION

- 1 Keep all shields in place.
- 2 Disengage and shut off all engine and/or motor power before servicing or unclogging machine.
- **3** Keep hands, feet and clothing away from power-driven parts.

#### 3) DANGER: CRUSHING AND PINCH POINTS

MOVING MACHINERY PARTS CAN PINCH OR CRUSH OR FALL, WHICH MAY CAUSE INJURY OR DEATH.

#### 4) DANGER

Entanglement in rotating driveline can cause serious injury or death.

Keep all shields in place.

Avoid contact with rotating parts.

#### 5) DANGER: KEEP AWAY - SHARP BLADES

- Do not put hands or feet near the cutterbar. Blade contact can result in serious injury.
- Stay away until all motion has stopped and the mower is securely blocked up.
- Keep fingers clear of cutterbar when folding cutterbar for transport.

#### 6) CAUTION

Operate only with 540 rpm PTO



#### MACHINE SAFETY LABELS AND POSITIONS

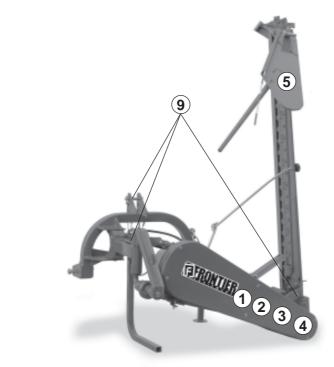




3. Keep hands, feet and clothing

away from power-driven parts.





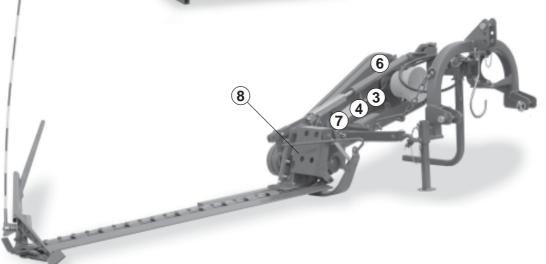




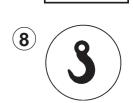
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- 7) High noise level. Use adequate acoustic protection.8) Coupling point for lifting.
- 9) Greasing point.



#### PREPARING THE VEHICLE

#### Preparing the tractor



CAUTION: Avoid injury. Proper ballastings is required for safe operation of your sickle bar

#### IMPORTANT: Refer to the tractor operator manual for proper ballasting information and tire inflation

- A 540 rpm PTO
- Refer to the tractor operator is manual for correct ballasting and tire pressure, depending on installed equipment.

#### Park vehicle safety

- Stop vehicle on a lever surface, not on a slope.
- Disengage PTO.
- Engage the park brake.
- STOP the engine.
- Remove the key.
- Before you leave the operator's seat, wait for engine and all moving parts to STOP.

#### Stay clear of rotating drivelines

Entanglement in rotating driveline can cause serious injury or death:

- Wear close fitting clothing.
- STOP the engine and be sure PTO driveline is stopped before getting near it.

#### Installing sickle bar on tactor

The sickle bar can be hitched to I, II or quick coupler category tractor equipped with a universal three-point coupling.



#### **DANGER**

Application of any implement to a tractor is a very dangerous operation and must only be carried out with the utmost care in compliance with the instructions.

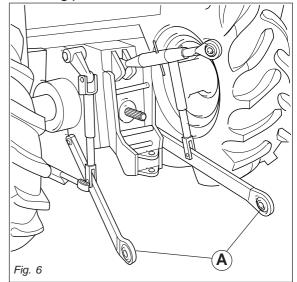
The correct tractor/sickle bar position is established by setting the implement at such a distance from the tractor that the universal coupling remains 2-4 inches from its maximum closing position. Now proceed in the following way:

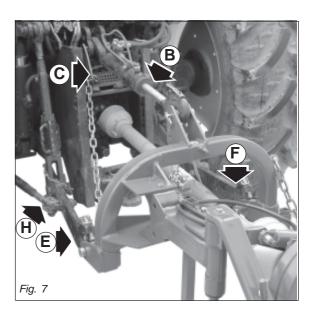
1.Back tractor into position and align draft links (A, Fig. 6) with draft link brackets on sickle bar.



#### **CAUTION:** Before you work around hitch:

- STOP engine.
- LOCK park brake.
- FIRMLY block mower on horizontal surface.
- 2. Connect the upper third-point and correctly regulate by adjusting the top link (B, Fig. 7). Place plate (C, Fig. 7) at the left side of the hitch integral with the same pin. Lock in place with the snap-in split pins (D, Fig. 8).

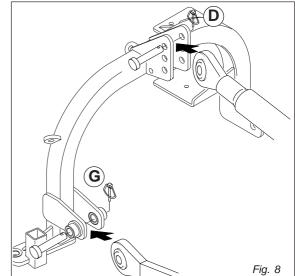




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#### **INSTALLING**

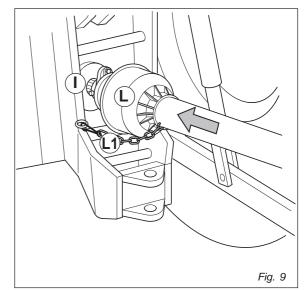
- 3. Hook the oscillating arms of the tractor to pins (E and F, Fig. 7). Lock in place with the snap-in split pins (G Fig. 8).
- 4. Lock the lift links using the relative chains (H, Fig. 7) and couplings parallel to the tractor. This operation must be carried out to prevent the machine from moving in a horizontal direction.



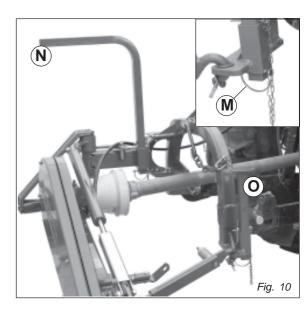
5. Install PTO shaft to tractor (Fig. 9).

#### IMPORTANT: Sickle bar MUST BE level front to rear.

Make sure PTO shaft is locked on the tractor PTO prior to engagement (I). Check that the guard (L) is free to turn and fix it with the relative latch (L1).



- 6. Remove the guard over the cutters (16, Fig. 4) and remove the tirant (7, Fig.4).
- 7. Lift-up sickle bar.
- 8. Remove spring locking pin (M, Fig. 10) from parking stand.
- 9. Remove support (N and O, Fig. 10) and remount them, upside-down in their seat .
- 10. Fasten with spring locking pin (M, Fig. 10).



#### **INSTALLING**

#### PTO shaft adaption

The PTO shaft, supplied with the machine, is of standard length. Therefore it might be necessary to adapt the PTO shaft. Consult your dealer for the eventual adaptation.



#### **CAUTION**

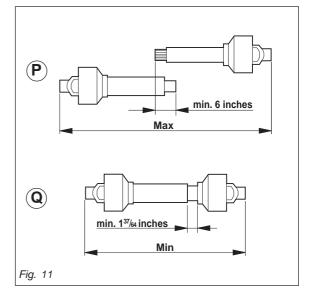
- When the PTO shaft is fully extended, the two tubes must overlap by at least 6 inches (P Fig. 11). When fully inserted, the minimum play must be 1<sup>37</sup>/<sub>64</sub> inches (Q Fig.11).
- If the implement is used on another tractor, always check the above and that the guards copletely cover the rotating parts of the PTO shaft.

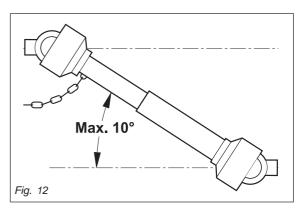


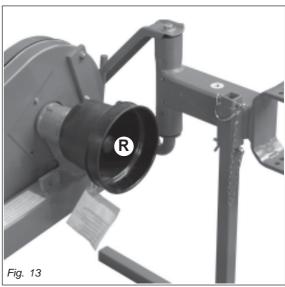
#### **ATTENTION**

Comply with the manufacturer's instructions when transporting the mowing machine.

- The equipment installed can only be controlled by means of the PTO shaft complete with the necessary overload safety (i.e. clutch) devices and guards fastened with the appropriate chain.
- Only the PTO shaft supplied by the Manufacturer must be used.
- The engine must not be running when installing and removing the PTO shaft.
- Care must be taken regarding the safety and correct assembly of the PTO shaft.
- Use the chain provided to stop the PTO shaft from rotating.
- Always check carefully that the PTO shaft guard is always in position, both during transportation and operation.
- Frequently and set intervals check the PTO shaft guard, it must always be in excellent condition.
- Before engaging the PTO, check that the set rpm corresponds to that indicated by the sticker on the equipment.
- Before inserting the PTO, make sure that there are no people or animals nearby and that the rpm selected corresponds to that permitted. Never exceed the maximum admissible speed.
- Watch out for the rotating universal joint.
- Do not insert the PTO with the engine off or synchronized with the wheels.
- Always disconnect the PTO when the cardan shaft is at too wide an angle (never more than 10°, Fig. 12) and when it is not being used.
- Only clean and grease the PTO shaft when the power take-off is disconnected, the engine is off, the hand brake pulled and the key removed.
- When not in use, place the PTO shaft on the support provided for it.
- After having dismantled the PTO, place the protective cover on the PTO shaft (R, Fig. 13).







#### Stability of sickle bar and tractor during transport

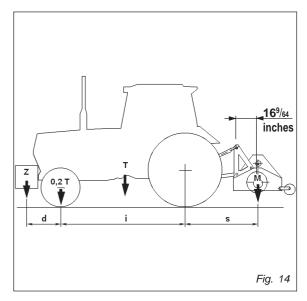
When a sickle bar is coupled to a tractor, so becoming an integral part of it for the purposes of road travel, the stability of the sickle bar-tractor complex may change and cause driving or operating difficulties (rearing up or side-slipping of the tractor). The condition of equilibrium can be restored by placing a sufficient number of ballasts on the front of the tractor so that the weights on the two tractor axles are distributed sufficiently evenly. To work in safety the instructions given in the highway code should be followed; these prescribe that at least 20% of the weight of the tractor alone should be borne by the front axle and that the weight on the arms of the hoist should not be more than 30% of the weight of the tractor itself. These factors are summarized in the following formulas:

$$Z > (M \times s)-(0.2 \times T \times i)$$
  
(d+i)

The amount of ballast that should be applied according to the formula is the minimum required for circulation on the road. If for reasons of tractor performance or to improve the set-up of the sickle bar during operation it is thought necessary to raise these values, please refer to the registration document of the tractor to check its limits. When the formula for calculating the ballast gives a negative result it will not be necessary

to add any weight. In any case, as long as the limits of the tractor are respected, a suitable quantity of weights may be applied in order to ensure greater stability during travel. The symbols have the following meanings:

М	Kg	Mass weighing on arms off hoist with full load (Technical data table)		
Т	Kg	Mass of tractor		
Z	Kg	Total mass of ballast		
i	m	Tractor wheelbase, that is, the horizontal distance between the tractor axles		
d	m	Horizontal distance between the centre of gravity of the ballast and the front axle of the tractor		
S	m	Horizontal distance between the centre of gravity of the operating machine and the back axle of the tractor		

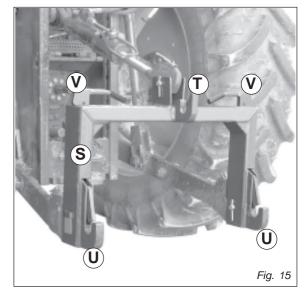


(please see Fig. 14 for reference):

#### **INSTALLING**

#### **Quick Coupler (optional)**

- 1) Install hitch Quick Coupler (S, Fig. 15) on the tractor (see tractor operator manual).
- 2) Parking the sickle bar on a flat and compact ground supported by the relative supports. Then slowly move the tractor back until the Quick Coupler (S) is in range with the point hitches (T and U, Fig. 15).



3) Raise the Quick Coupler (S, Fig. 15) and make sure that sickle bar hitch is in the right position (Z, Fig. 16).



#### **CAUTION:** Before you work around hitch:

- STOP engine.
- LOCK park brake.
- FIRMLY block mower on horizontal surface.

# **Z**Fig. 16

#### Park vehicle safely

- Stop vehicle on a level surface, not on a slope.
- Disengage PTO.
- Engage the park brake.
- STOP the engine.
- Remove the key.
- Before you leave the operator's seat, wait for engine and all moving parts to STOP.

#### Stay clear of rotating drivelines

Entanglement in rotating driveline can cause serious injury or death:

- Wear close fitting clothing.
- STOP the engine and be sure PTO driveline is stopped before getting near it.



#### **REMOVING**

#### Removing sickle bar

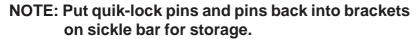
The sickle bar must be set-up on flat and compact ground, supported by the relative supports (A and B, Fig. 17).

- 1. Raise sickle bar.
- 2. Put parking stand (A and B, Fig. 17) in the DOWN position: install spring locking pin in order to secure parking stand (C, Fig. 17).
- 3. Lower sickle bar to the ground.



#### **CAUTION:** Before you work around hitch:

- STOP engine.
- LOCK park brake.
- FIRMLY block mower on horizontal surface.
- 4. Unhook the PTO schaft (, Fig. 18) from the tractor and put in on the special hook.
- 5. Remove quik-lock pin (D, Fig. 19) and pin (E, Fig. 19) from center link (F, Fig. 19).



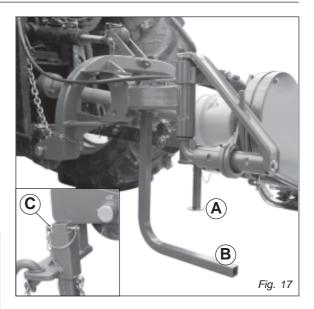
6. Remove draft links (J, Fig. 19) from draft link brackets (G, Fig. 19) by removing quiklock pins (H, Fig. 19) and pins (I, Fig. 19).

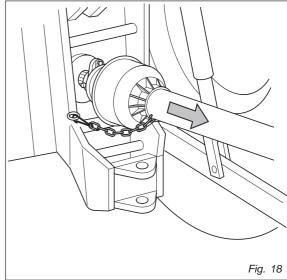
### NOTE: Put quik-lock pins and pins back into brackets on sickle bar for storage.

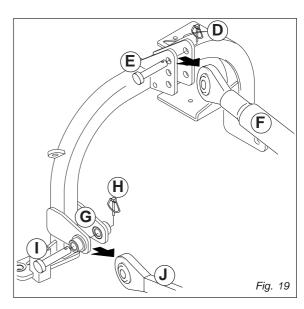
7. Drive tractor forward slowly.

#### Removing sickle bar with Quick Coupler

- 1. Raise sickle bar.
- 2. Put parking stand (A and B, Fig. 17) in the DOWN position: install spring locking pin in order to secure parking stand (C, Fig. 17).
- 3. Lower sickle bar to the ground.
- 4. Raise the two Quick Coupler levers (V, Fig. 15) to unloch sickle bar (Quick Coupler Figure, page 14).
- 5. Lower Quick Coupler till further free the sickle bar.







#### Operate safely

Carefully read all the instructions before using the machine; if in doubt, contact the technicians of the Manufacturer's dealer. The manufacturer declines all responsibility for the non-observance of the safety and accident prevention regulations described below.

#### **General norms**

- 1) Pay close attention to the danger signs in this manual and on the sickle bar.
- 2) The labels with the instructions attached to the machine give abbreviated advice for avoiding accidents.
- 3) Carefully observe, with the help of the instructions, the safety and accident prevention regulations.
- 4) Avoid touching moving parts in any way whatsoever.
- 5) Any work on and adjustment to the machine must always be done with the engine switched off and the tractor blocked.
- 6) People or animals must not, under any circumstances, be transported on the equipment.
- 7) It is strictly prohibited to drive the tractor, or allow it to be driven with the equipment attached by persons not in possession of a driver's license, an expert or in poor conditions of health.
- 8) Before starting the tractor and the equipment, check that all safety devices for transport and operation are in perfect working order.
- 9) Before starting up the equipment, check the area surrounding the machine to ensure that there are no people, especially children or pets, nearby, and ensure that you have excellent visibility.
- 10) Use suitable clothing. Avoid loose clothing or garments with parts that could in any way get caught in the rotating or moving parts of the machine.
- 11) Before starting work, familiarize yourself with the control devices and their functions.
- 12) Only start working with the equipment if all the protective devices are in perfect condition, installed and in the safe position.
- 13) It is absolutely prohibited to stand within the machine's radius of action where there are moving parts.
- 14) It is absolutely forbidden to use the equipment without the guards.
- 15) Before leaving the tractor, lower the implement coupled to the lift unit, stop the engine, engage the hand brake, remove the ignition key from the control panel, cover the cutters and outer skid with the relative guards. Raise the mowing bar (transport protection) according with the instructions given in this handbook.
- 16) The driver's seat must never be left when the tractor engine is running.
- 17) Before operating the mowing machine, check that the support struts (A and B, Fig. 17 page 15) have been removed from underneath the implement. Make sure that the sickle bar has been correctly mounted and adjusted. Check that the machine is in perfect order and that all components subject to wear and deterioration are efficient.
- 18) Before releasing the equipment from the third point attachment, put the hoist command lever into the locked position and lower the support feet.
- 19) Only operate during daylight or with proper artificial light.
- 20) All operations must be carried out by expert personnel, equipped with protective gloves, in a clean and dust-free environment.
- 21) Do not climb onto the machine while it is running, even if it is stationary.
- 22) Before approaching the mowing bar, disengage the pto, switch off the tractor, engage the parking brake and check that the cutters are at a complete standstill.
- 23) The coupled implement may only be controlled through the PTO shaft complete with the necessary safety devices for overloads and with the guards fixed with the relative latch.
- 24) During maintenance and work operations, make sure that no other person goes near the tractor and the implement and accidentally works the controls with the risk of causing injury to persons and damage to property.
- 25) As a precaution, always set adeguate supports under the implement during assembly, servicing, cleaning or assembly work with the mowing bar raised.

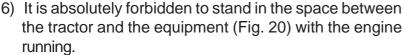
- 26) DO NOT wear radio or music headphones while operating the machine. Safe operation requires your full attention.
- 27) DO NOT operate the tractor and sickle bar when you are tired or ill.

#### Tractor hitch

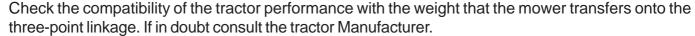
- 1) Hook the equipment to a suitable, sufficiently-powered tractor by means of the appropriate device (lifter), in conformity with applicable standards.
- 2) The class of the equipment attachment pins must be the same as that of the lifter attachment.
- 3) Take care when working within the range of the lifting arms as this is a very dangerous area.
- 4) Be very careful when hooking and unhooking the equipment.

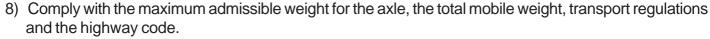


5) It is absolutely forbidden to stand between the tractor and linkage for acting the lifting controls from the outside (Fig. 20).











- Wear close fitting clothing and safely equipment appropriate for the job.
- Loud noise can cause impairment or loss of hearing, wear a suitable protective device such as earplugs.





#### Stay clear of rotating drivelines

Entanglement in rotating driveline can cause serious injury or death:

- Wear close fitting clothing
- Stop the engine and be sure PTO shaft is stopped before getting near it.





#### **CAUTION:** Before you work around hitch:

- STOP engine.
- LOCK park brake.
- FIRMLY block mower on horizontal surface.

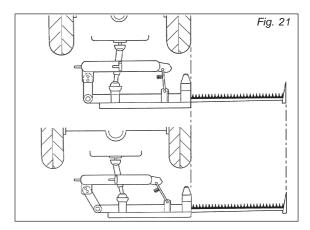


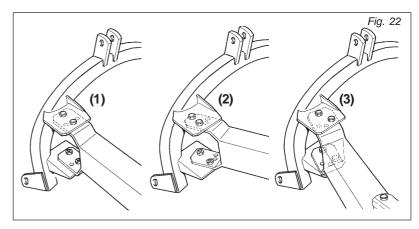
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#### Adapting the sickle bar

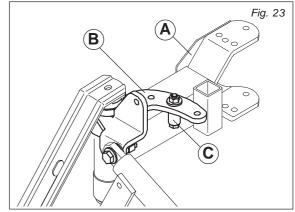
To ensure optium use, the sickle bar must completely project from the tractor (Fig. 21); three situations are shown in the Figure 22:

- 1) hitching to a tractor normally used for mowing jobs;
- 2) hitching to a large tractor;
- 3) hitching to a small tractor or to certain types of tracked vehicle.

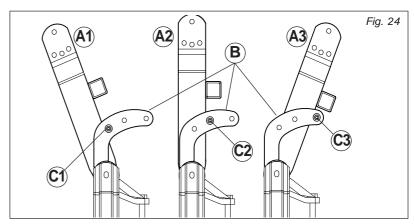


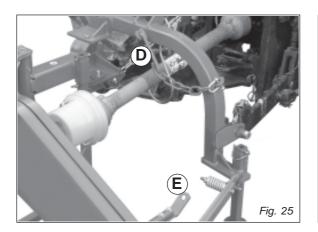


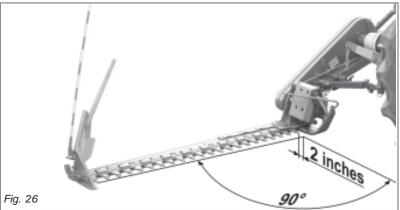
When the frame joint is moved (A, Fig. 23), the position of the stop bushing (C, Fig. 23) of the cylinder linkage must consequently be changed, according to the cases shown in figures 23 and 24.



Connections between frame joint and stop bushing for the movement of the mowing bar.

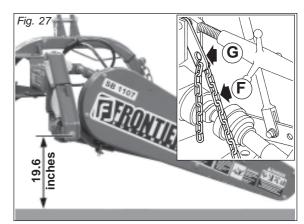


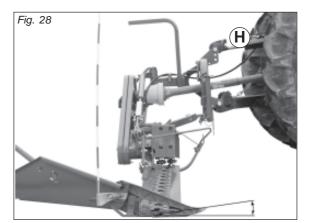




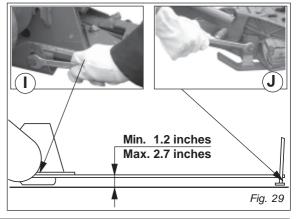
#### **Adjustment**

- Remove safety hook (D, Fig. 25), required only for transportation, and fit it back in the slot positioned above the chassis. Reduce to the minimum length in order to hook it in (E, Fig. 25) with the sickle bar to lower.
- Fit the sickle bar by adjusting the tractor tie-rods so that, when the sickle bar attachment is fitted to the three points on the tractor, the external tip of the cutting arm is approximately 2 inches. foward with respect to the arm base (Fig. 26).
- Using chain (F, Fig. 27), adjust the height of the sickle bar attachment with respect to the tractor. Attach the appropriate link to the special plate hole (G, Fig. 27). Adjust the height of the mower on the basis of the height shown in Figure 27.
  - Mark the link used so that the same postion may be used each time the sickle bar is fitted to the tractor.
- Adjust inclination of the cutting arm teeth using tie rod (H, Fig. 28).



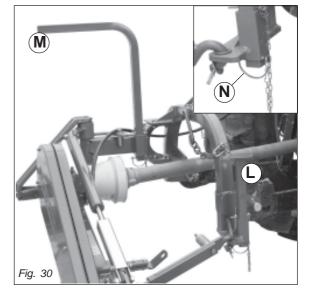


 Adjust the cutting height (Fig. 29) by moving the mowing bar on the holes of the inner mowing bar support (I), and, turning the nut of the outer mowing bar support (J), bring it level with the ground.



#### Mowing

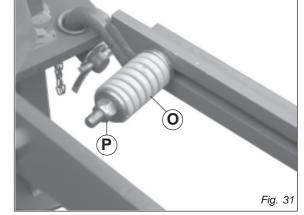
- Remove the supports (L and M, Fig. 30) and remount them, upside-down in their seat. Install spring locking pin in order to secure parking stand (N).
- Remove tie rod from the cutting arm.



• The sickle bar is fitted with a safety device for protection against obstacles. If this device is tripped by impact with an obstacle, stop the tractor without raising the cutting arm. Check that the cardan shaft has not become seperated, if so, reassemble it. Position the safety tie rod parallel to the ground, and reverse the tractor until the safety tie rod hooks up again. If the tie rod releases easly, adjust spring (O, Fig. 31) using nut (P, Fig. 31 which should be tightened half turn at a time.

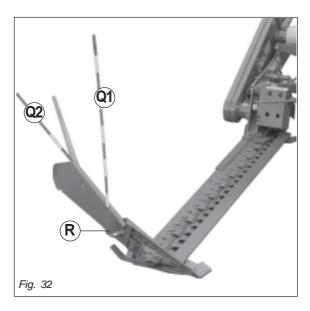
For successful mowing and to avoid jamming, we advise you to:

- Set and maintain the power take-off at a constant rate of 540 rpm to ensure correct blade frequency;
- Compatibly with the soil conditions and the type of grass, maintain a steady work speed: no slower than 5 mph to favor the discharging of the mown grass and no faster than 6.2 mph to avoid breaking or damaging the machine's structure.
- If the grass is tangled or flattened, keep the cutting bar grazing the ground.



#### Hazard bar

The hazard bar has been included with the equipment of the machine for safety reasons, to indicate the space occupied by the mower at work. For working, position the hazard bar in position (Q1, Fig. 32) and lock it in place with the screw (R). For transport put it in position (Q2).





If the blades becomes jammed, it is advisable to operate carefully wearing suitable personal protection. All the maintenance, adjustments and work preparation operations, must be carried out with the tractor strictly switched off and properly stationary, with the ignition key turned off and the sickle bar on the ground.



- Always raise the implement in order to reverse or change direction.
- The cutting arm should not be raised abruptly in order to avoid damaging the cutting blades.
- Power take-off must not exceed 540 r.p.m.
- Never run the engine at maximum power while mowing.
- In order to prevent breakages or damage, the speed of the tractor must never exceed 6.2 mph when the implement is working.

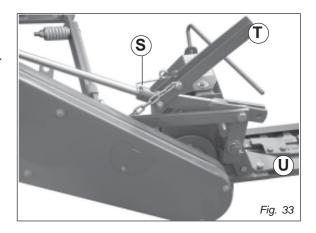


The mowing machine has sharp cutting blades. Always make sure that there are no persons, domestic animals, electrical cables, pipes and so forth, within the field of action of the implement.

#### Using the lifting device

Once you have positioned the equipment, prepare it for mowing:

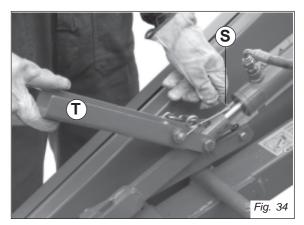
- · release the blade tie rod;
- remove the support prop;
- remove the blade protection.

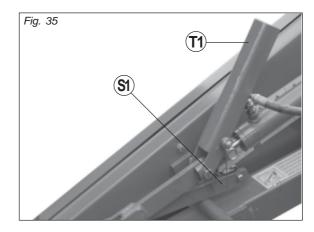


#### Operation of lifting device

To operate the device, put the spring (S, Fig. 34) in position (S1, Fig.35) (under the cylinder rod), so that the cylinder bracket (T, Fig. 34) is released forwards towards position (T1, Fig. 35).

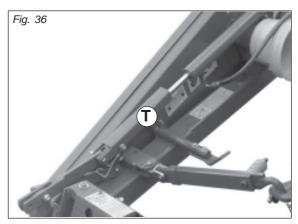
Climb into the tractor and operate the hydraulic distributor to lower the blade (C, Fig. 33) into the mowing position.





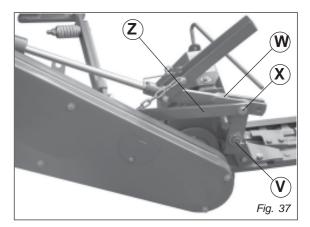


CAUTION: While working regularly check that the bracket (T) is still resting along the cylinder rod (Fig. 36).

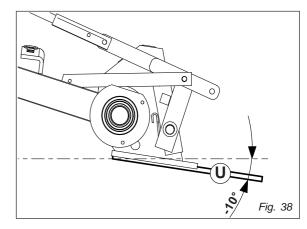


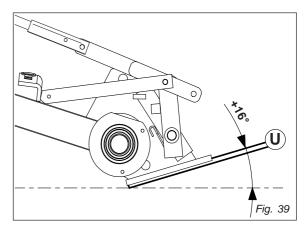
## Mowing on flat ground (or ground with small depressions)

For mowing on flat ground, couple the lever (V) with tie rod (W) and the rod (Z) in position (X) of Figure 37. Lastly insert the lifting device as described in the previous paragraph.

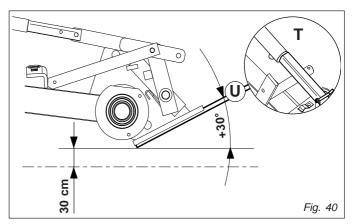


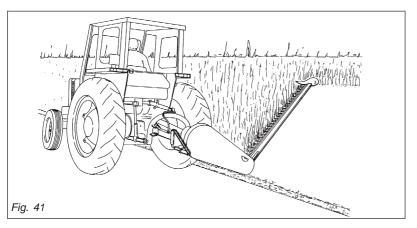
With the rapid lifting device engaged, the bar (U, Fig. 38) has a negative inclination of -10° and a positive one of +16° (Fig. 39) with respect to the horizontal plane during mowing. This system has been devised for mowing quickly and safely on flat ground or ground with small depressions.

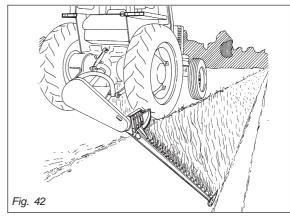




The operation of the lifting device up to the stop of the bracket on the cylinder (T, Fig. 40) allows the equipment to be raised by approx. 12 inches from the ground and, at the same time, an inclination of the blade (U, Fig. 40) of + 30°, so that the end of field maneuvers can be carried out.







#### Mowing on sloping ground

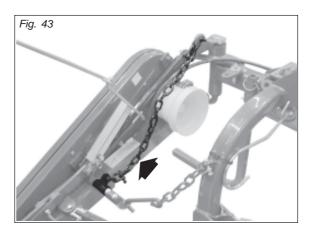
Figures 41 and 42 show various types of mowing on sloping ground (banks, canals, etc.).

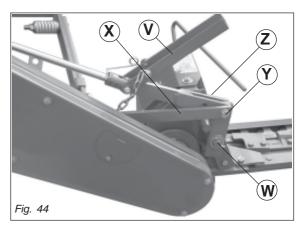


CAUTION: For mowing on surfaces that are not parallel to the tractor plane, we recommend removing the moving guide from the outer mowing bar support.

To mount pulling of Figure 43 in order to improve the excursion and use of the sickle bar.

For mowing on sloping ground, disable the lifting device (V) as shown in Figure 44 and couple the lever (W, Fig. 44) with tie rod (Z, Fig. 44) and the rod (X, Fig. 44) in position (Y, Fig. 44) as shown in Figure 44.

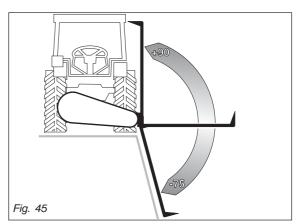




In this way the bar can be adjusted with the hydraulic cylinder to mow at different angles: from -75° to +90° with respect to the horizontal plane formed by the tractor (Fig. 45).

#### **IMPORTANT:**

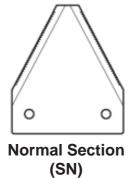
The sickle bar can operates in each position between -75° to +90°.



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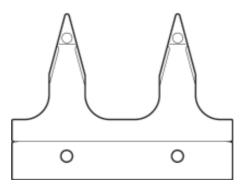
#### Table approximate for choice of the cutting bar

TYPE OF THE GROUND		TYPE OF THE FORAGE					
		Dry and lignificated (gramineae)	Humid, packed and low (cat coat)	Humid and packed (Lucerne-Clover)	Big and high (forage of the sorghum, corn)		
Level	Normal	DSS - SD/SN	DSS - SD	DSS - SN	DSS - SN		
Le	Stny field	DSS - SD/SN	DSS - SD	DSS - SN	DSS - SN		
≣	Normal	DSS - SD/SN	DSS - SD	DSS - SN	DSS - SN		
_	Stny field	DSS - SD/SN	DSS - SD	DSS - SN	DSS - SN		
Mountain	Normal	DSS - SD/SN	DSS - SD	DSS - SN	DSS - SN		
Mou	Stny field	DSS - SD/SN	DSS - SD	DSS - SN	DSS - SN		





Self sharping double section (SD)



Replaceable Normal tooth (DSS)

#### SERVICE MACHINE SAFETY

#### Practice safe maintenance

Understand service procedure before doing work. Keep area clean and dry.



- Never lubricate, service, or adjust machine while it is moving. Keep safety devices in place and in working condition. Keep hardware tight.
- To prevent from getting caught, keep hands, feet, clothing, jewelry, and long hair away from any moving parts.
- Before servicing machine, lower it to the ground. Disengage all power and stop the vehicle engine. Lock vehicle park brake and remove the key.
- Securely support any machine elements that must be raised for maintenance.
- Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris.
- Unauthorized modifications to the machine may impair its function and safety.

#### Wear appropriate clothing

- Wear close fitting clothing and safety equipment appropriate for the job.
- Loud noise can cause impairment or loss of hearing, wear a suitable protective device such as earplugs.
- Do not wear radio or music headphones while servicing the machine. Safe servicing requires your full attention.



#### Stay clear of rotating PTO shaft

Entanglement in rotating driveline can cause serious injury or death:

Stop the engine and be sure PTO shaft is stopped before getting near it.



#### Maintenance

Various servicing operations are listed in the following paragraphs. Lower running costs and longer machine life depend on constant and methodical compliance with these operations.

During work and maintenance operations, use suitable personal protective gear:



#### CAUTION

- The given frequencies are indicative and refer to normal conditions of use. They may therefore be subject to variations in relation to the type of service, a more or less dusty environment, seasonal factors, etc.
- In the case of heavy-duty conditions, the maintenance operations should obviously be more frequent.
- Before injecting grease into the lubricators, the greasing points must be thoroughly cleaned to prevent mud, dust or foreign bodies from mixing with the lubricant, thus reducing lubricating effect.



#### SERVICE MACHINE SAFETY



#### **ATTENTION**

It is absolutely essential to disengage the tractor pto, lower the mowing machine, switch off the tractor, ensure that this is at a complete standstill and remove the key before servicing, adjusting or preparing the implement for work. All assembly operations must be carried out on a work bench.

- Always keep oils and greases well away from children's reach.
- Always thoroughly read the warnings and precautions indicated on the containers.
- · Avoid contact with the skin.
- · Always thoroughly and fully wash after use.
- The utilized oils should be treated in compliance with the current laws in force.

- Do not proceed with maintenance and cleaning if the power take-off has not been disconnected first, the engine power off, the hand brake pulled and the tractor blocked with a wooden block or stone of the right size under the wheels.
- Periodically check that the bolts and nuts are tight, and if necessary tighten them again. For this it would be advisable to use a torque wrench, respecting the values of 52 Nm for M10 bolts, resistance class 8.8, and 143 Nm for M14 bolts resistance class 8.8 (Table 1: **Bolts tightening torques**).
- During assembling, maintenance, cleaning, fitting, etc., with the mowing machine raised, place adequate supports under the equipment as a precaution.
- The spare parts must correspond to the manufacturer's specifications. **Use only original spares**.

#### Bolts tightening torques - settings given in Nm (lb-ft)

(Table 1)

Fine pitch screws	CLASS					
(metric)	6.6	8.8	10.9	12.9		
M8 x 1	15 (11)	26 (19)	36 (26.5)	44 (32.5)		
M10 x 1.25	30 (22)	52 (38)	74 (54)	88 (65)		
M12 x 1.25	51 (37.5)	91 (67)	127 (94)	153 (113)		
M14 x 1.5	81 (60)	143 (105)	201 (148)	241 (178)		
M16 x 1.5	120 (88)	214 (158)	301 (222)	361 (266)		
M18 x 1.5	173 (127)	308 (227)	433 (319)	520 (384)		
M20 x 1.5	242 (178)	431 (318)	606 (447)	727 (536)		
M22 x 1.5	321 (237)	571 (421)	803 (592)	964 (711)		
M24 x 2	411 (303)	731 (539)	1028 (758)	1234 (910)		
M27 x 2	601 (443)	1070 (790)	1504 (1110)	1806 (1333)		
M30 x 2	832 (614)	1480 (1090)	2081 (1535)	2498 (1843)		

#### Lubrication

WARNING: • Firmly block sickle bar on horizontal surface.

- Always keep oils and greases well away from children's reach.
- Always thoroughly read the warnings and precautions indicated on the containers. Avoid contact with the skin.
- Always thoroughly and fully wash after use. The utilized oils should be treated in compliance with the current anti-pollution laws.



• During the first working hours, check that the screws are tight (Fig. 56).

#### **Every 8 work hours**

- Grease points (A and B, Fig. 46).
- Grease the PTO shaft and its telescoping parts.
- Adjust belt tension periodically by adjusting nut (A, Fig. 47). Check tension via the viewing panel on the belt guard. Belt slack must not exceed 1 inch. It is essential to close the inspection hatch with the relative lid after the belts have been examined.

#### **Every 50 work hours**

- Check the tightness of the connecting rod bolts regularly (Fig. 48).
- Checking the clearance tolerance

#### Periodically (6 months)

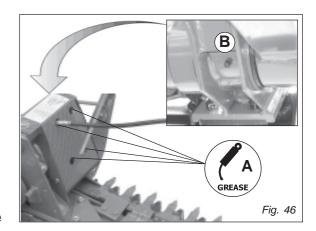
• Grease point (A and B, Fig. 46).

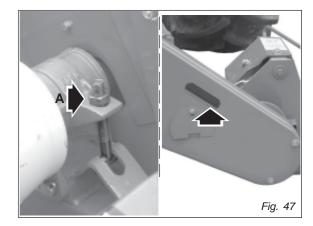
#### After each mowing job

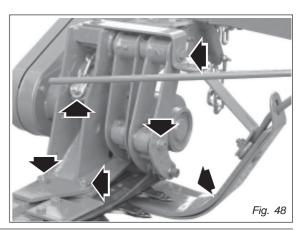
 Clean and oil the mowing bar blades according to the instructions in the chapter entitled: "Cleaning and oiling the cutters".

#### Lubricants

- It is advisable to use SAE 85W/140 OIL or equivalent for the reduction unit (or gear box) and side transmission.
- It is advisable to use GR MU EP 2 GREASE or equivalent for all greasing points.







**EFRONTIER** p/n GH 19502091

#### Cleaning and oiling the cutters

#### **DANGER**

Mowing bar cleaning and oiling are very dangerous operations. Always comply with the following instructions:

- Switch off the tractor, remove the starter key and disengage the pto;
- Brake the tractor and make sure it is unable to move;
- Lift the implement by means of the lift links in a flat place where it cannot slip;
- Operate the mowing bar, checking that there are no persons or animals in the vicinity;
- Wash the mowing bar with a jet of pressurized water, standing at least 5 feet away from the implement;
- Check the condition of the cutters;
- When the mowing bar is dry, oil the cutters with very viscous oil;
- Operate the mowing bar for a few seconds, checking that there are no persons or animals in the vicinity;
- Switch off the tractor, remove the starter key and disengage the pto;
- Fit the guards over the cutters and outer skid (C Fig. 49)

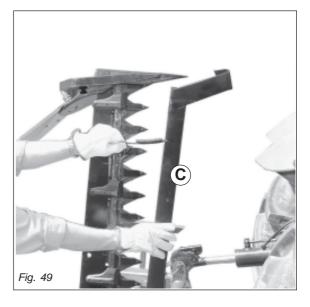
#### Checking the clearance tolerance

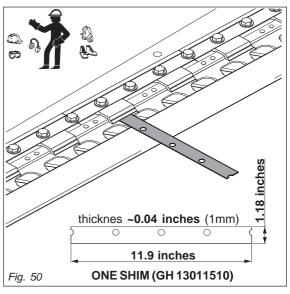


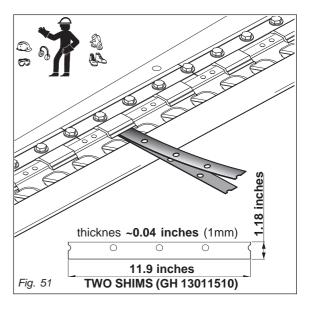
#### **ATTENTION**

It is absolutely essential to disengage the tractor pto, lower the mowing machine, switch off the tractor, ensure that this is at a complete standstill and remove the key before servicing, adjusting the implement for work. All assembly operations must be carried out on a work bench.

Every 50 hours of operation, the clearance between the tooth and upper blade guide must be checked. Too much clearance allows material to enter the cutting blade, leading to the possible breakage of the various parts of the cutting blade, as well as compromising cutting quality. Too little clearance creates excessive sliding friction on the blade as it slides, leading to the possible breaking of the tooth holding bar, the blade head or parts of the hinge. The check is to run between the tooth and the upper blade guide. The optimal clearance is determined by the passing of a shim (Fig. 50). If a shim cannot pass between the tooth and upper blade guide, a shim must be added (Fig. 53). If, on the other hand, two coupled shim can pass (Fig. 51), a shim must be removed in order to restore optimal clearance conditions.



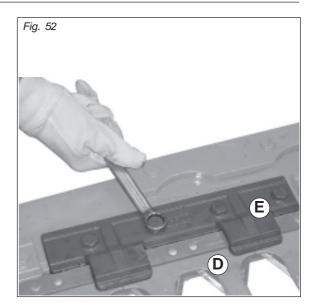




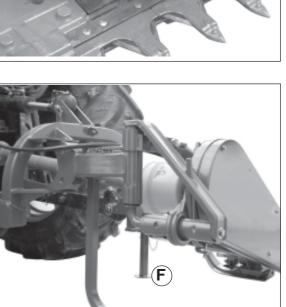
To restore the correct tolerance:

- unscrew the blade guide (Fig. 52);
- remove one or more shims (Fig. 53);
- put the blade guide back in the same position.

IMPORTANT: When replacing the teeth or the toothholding bar, carry out the check described above. When required, put back the shims to avoid striping or damage.







#### **Storage**

It is advisable to proceed in the following way at the end of the season or if the machine is to remain inactive for a long period of time:

- Treat the implement in compliance with the instructions given in the chapter entitled: "Cleaning and oiling the cutters".
- Carefully check for any damaged or worn parts and replace these as necessary.
- Fully torque all screws and bolts.
- Apply a little lubricant to the unpainted parts.
- Protect the entire implement with a cover.
- Lastly, store the implement in a dry place where it cannot be tampered with by unauthorized persons; the mowing machine must be set-up on flat and compact ground, supported by the relative supports (F and G, Fig. 54).

Careful compliance with these instructions will be all to the advantage of the user who will be sure to use an implement in perfect conditions when work begins again.

Fig. 54

#### Extra maintenance

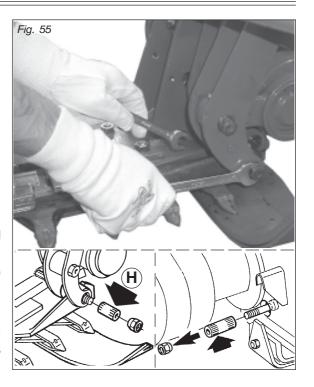


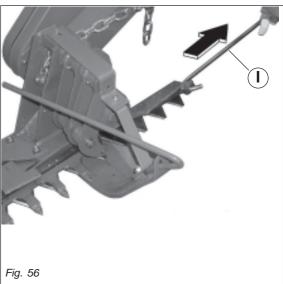
#### **ATTENTION**

It is absolutely essential to disengage the tractor pto, lower the mowing machine, switch off the tractor, ensure that this is at a complete standstill and remove the key before servicing, adjusting the implement for work. All assembly operations must be carried out on a work bench.

#### Replacement of section-holding bar (L fig. 57)

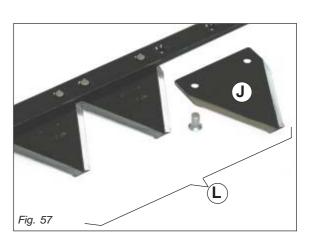
- With the implement resting on the ground, open the mowing bar.
- Remove the expansion pin (H, Fig. 55) and pull out the section-holding bar (Fig. 56) with the hooking tie rod (I Fig. 56).
- Insert the new section-holding bar and lock it in place with the expansion pin. Lubricate the cutters with very viscous oil during the assembly phase.





#### Replacement of sections (J fig. 57)

- With the implement resting on the ground, open the cutter bar.
- Remove the expansion pin (H, Fig. 55) and slide out the section-holding bar (Fig. 56).
- Remove the damaged section using a pin punch (7 Fig. 4 on page 6).
- Rivet a new section with the rivets provided (J Fig. 57).
- Insert the section-holding bar and lock it in place with the expansion pin.





#### **ATTENTION**

It is absolutely essential to disengage the tractor pto, lower the mowing machine, switch off the tractor, ensure that this is at a complete standstill and remove the key before servicing, adjusting the implement for work. All assembly operations must be carried out on a work bench.

#### Replacement of bar holding removable tooth

- With the implement resting on the ground, raise the mowing bar and secure it with the hooking tie rod.
- Unscrew all the tooth fastening screws (Fig. 58).
- Remove all the teeth (Fig. 59).
- Remove the expansion pin and slide out the bar.
- Insert the new tooth-holding bar and lock it in place with the expansion pin.
- Reposition the teeth and fasten them with the screws.

#### Replacement of removable tooth

- With the implement resting on the ground, raise the mowing bar and secure it with the hooking tie rod.
- Unscrew the screws of the tooth to be replaced (Fig. 58).
- Slide out the tooth (Fig. 59), put in the new one and lock it in place with the screws. For this it would be advisable to use a torque wrench, respecting the values of 30 Nm.

#### Replacement of belts

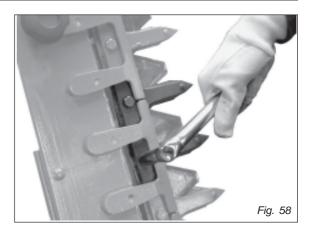
- Unscrew the screws (A Fig. 60) and remove the protective casing.
- Loosen the belt tensioner completely (B, Fig. 60).
- Replace the worn belts with new ones.
- Put these at the optimum tension using the belt tensioner. Belt play should not exceed 1 inch.
- Put the protective casing back in position and fix it in place with the screws (A, Fig. 60).

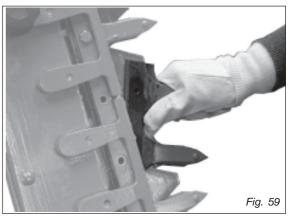
#### Replacement of pulleys

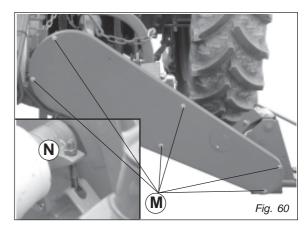
Notes for replacement of pulleys, if necessary.

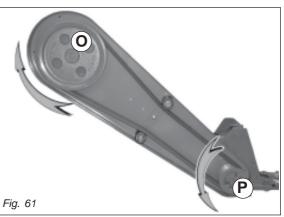
- Unscrew the screws (M, Fig. 60) and remove the protective casing.
- Loosen the belt tensioner completely (N, Fig. 60).
- Remove the belts.

To replace the driving pulley (O, Fig. 61), turn it counterclockwise; viceversa, turn the driven pulley (P, Fig. 61) clockwise.









#### **DEMOLITION AND DISPOSAL**

#### **Demolition and disposal**

This operation is to be carried out by the customer.

Before demolishing the machine, you are advised to carefully check its physical condition and ascertain whether there are any parts of the structure that may be susceptible to structural collapse or breakage during demolition.

The customer should operate in compliance with the environment protection laws in force in his/her country.



#### **CAUTION**

The machine demolition operations should be carried out by skilled personnel only, equipped with suitable protective clothing (safety footwear and gloves) and auxiliary tools and equipment. All the disassembly operations for demolition should be carried out with the machine stopped and detached from the tractor.

Before demolishing the machine, you are advised to render harmless all the parts that may be a source of danger and therefore:

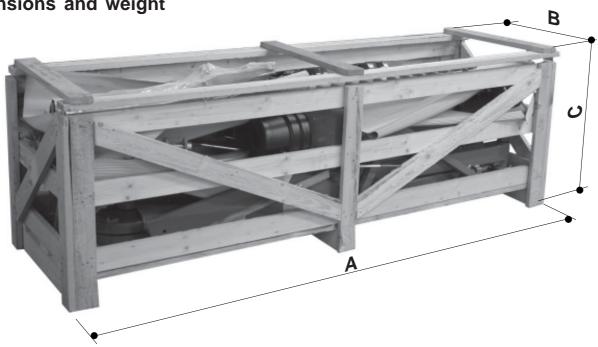
- scrap the structure using specialized firms,
- remove any electrical apparatus according to the laws in force,
- collect oils and greases separately, to be disposed of through specialized firms, in accordance with the regulations of the country in which the machine was used.

When the machine is demolished the identification label must be destroyed together with this manual.

#### **Foreword**

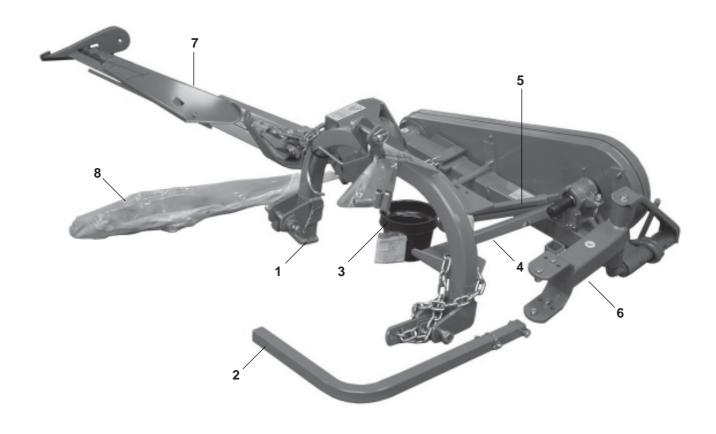
This chapter describes the phases involved in assembling a crated mower. When handling and assembling the unit, and subsequently during use and maintenance, always use suitable personal protection devices (A): always wear suitable clothing and the indicated protections. See the operating manual supplied with the unit for indication of the symbols used in this manual. When handling the unit, lift it by hooking up the special attachments and using a suitable hoist or crane rated for the weight of the unit. This operation is quite dangerous and must only be performed by prepared, responsible personnel. The machine weight is indicated on the identification label. The hook-up points are identified by the "hook" symbol (B). When moving the unit, make certain that all protections and safety devices are in place.





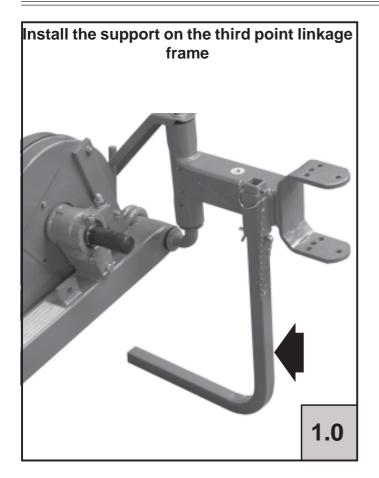
TYPE TYPE	A (mm - inch)	B (mm - inch)	C (mm - inch)	(kg - <i>lb</i> )
SB 1106 (X2)	2340 - 92	700 - 27.5	740 - 29	520 - 1144
SB 1107 (X2)	2340 - 92	700 - 27.5	740 - 29	560 - 1232

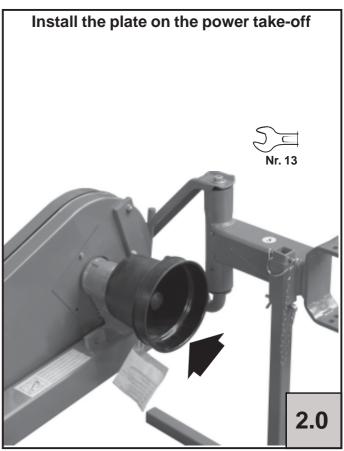
#### Sickle bar components

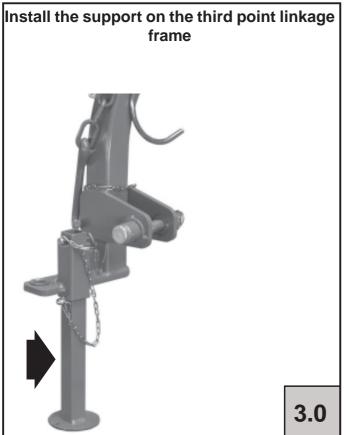


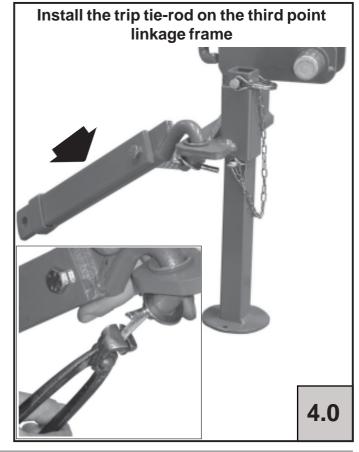
- 1) THIRD POINT LINKAGE FRAME.
- 2) SUPPORT.
- 3) POWER PTO PLATE.
- 4) FRONT PLATE.
- 5) TRIP TIE-ROD.
- 6) REAR FRAME.
- 7) BLADE HOLDER.
- 8) HYDRAULIC LIFTING SYSTEM

#### **ASSEMBLY**



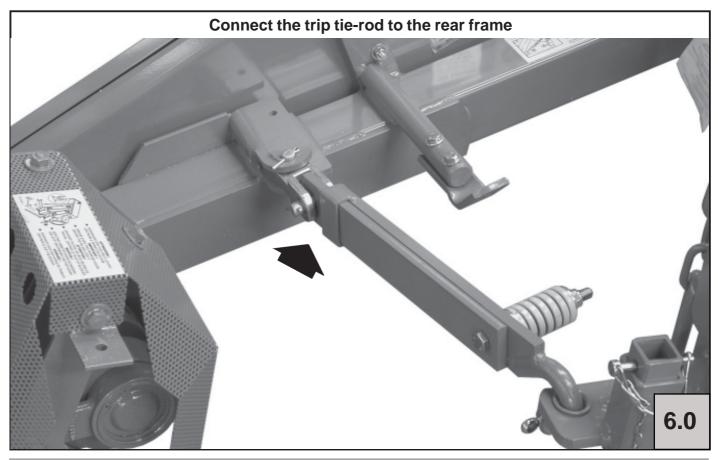


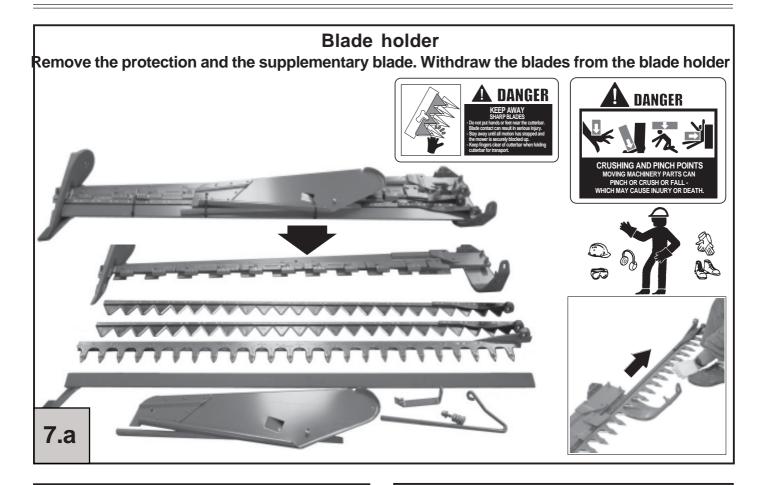


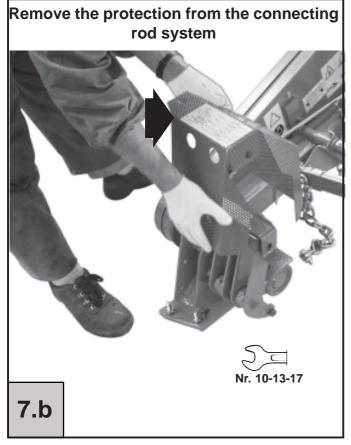


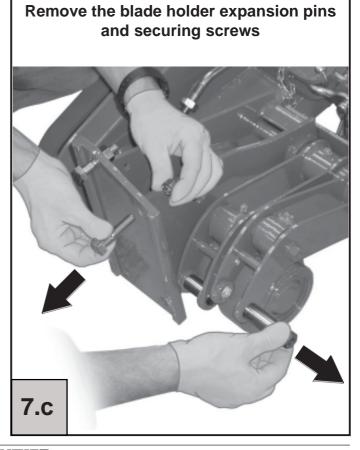
# **ASSEMBLY**

# Secure the third point linkage frame to the rear frame Two skilled people are required to perform this operation. (weight more than 55 lb - 25 kg) Nr. 19

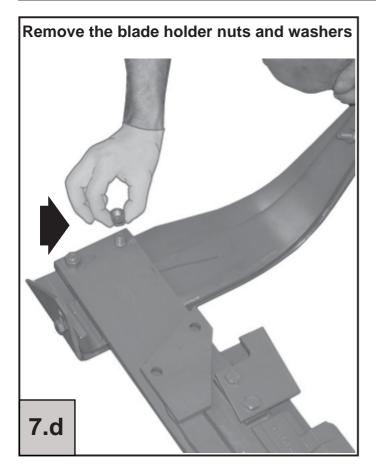


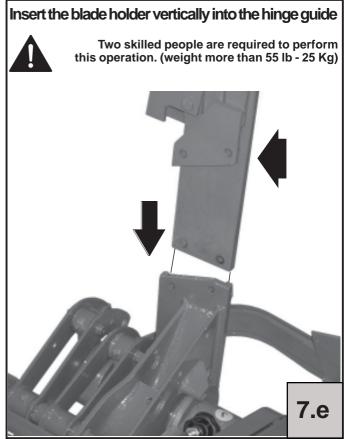


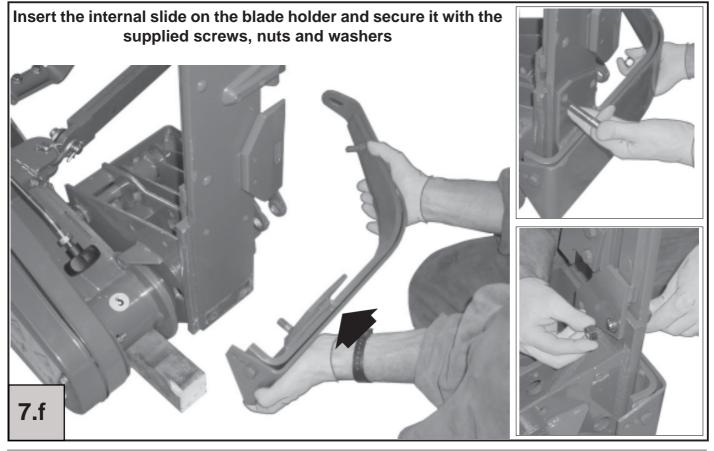


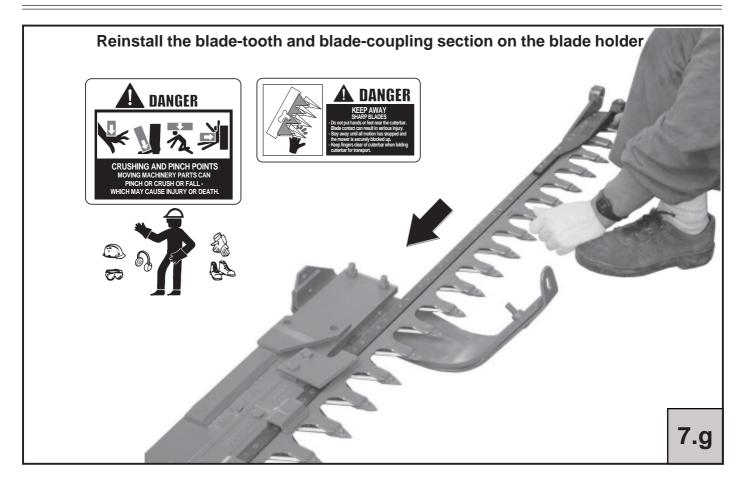


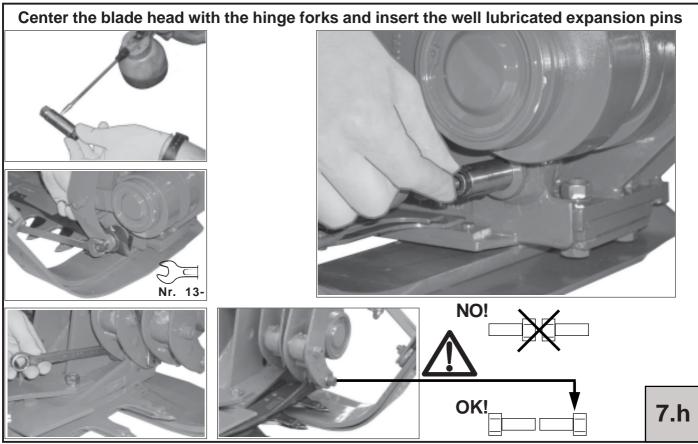
## **ASSEMBLY**



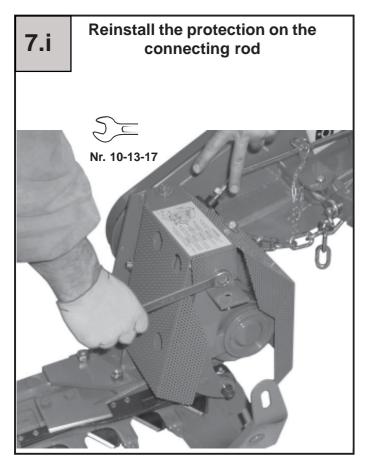


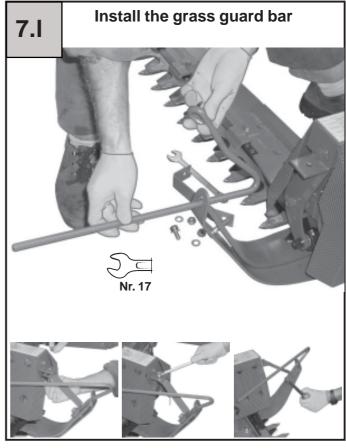


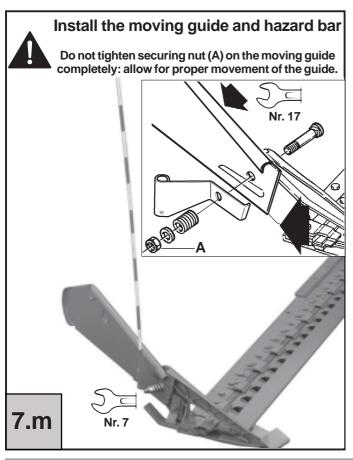


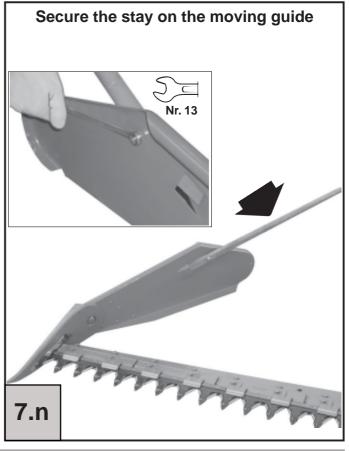


## **ASSEMBLY**



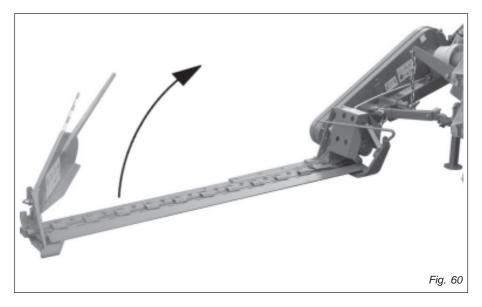






### TRANSPORT ON ROAD

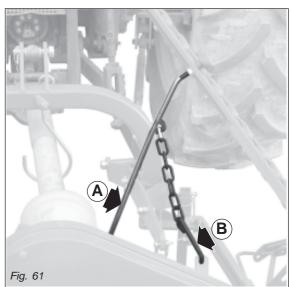
### Transport on road

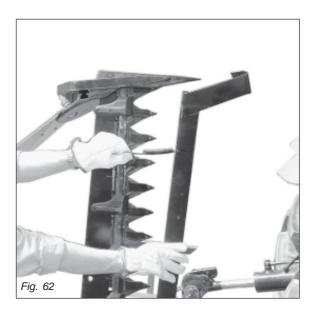


For transport, adjust and fix the chains of the side lifting arms of the tractor; lift the mowing bar (Fig. 60); secure it with the hooking tie rod (A, Fig. 61); slide in the safety hook (B, Fig. 61); cover the cutting blades and the outer mowing bar support with the guards provided (Fig. 62); lift the implement; put the hydraulic lifting command lever in the locked position.

### **Transport on Road**

- When driving on public roads, be sure to follow the highway code of the country involved.
- Any transport accessories must be provided with suitable signs and guards.
- It is very important to remember that road holding capacity as well as direction and braking capacity can be influenced, sometimes con-siderably, by equipment being either carried or towed.
- When negotiating curves, be aware of the variation in centrifugal force exerted in a position other than that of the center of gravity, with and without the equipment in tow. Also pay greater attention on sloping roads or ground.
- For displacements beyond the work area, the equipment must be placed in the transportation position.
- When the dimensions of carried or partially-carried equipment conceal the tractor's signalling and lighting devices, these must also be installed on the equipment itself, in conformity with regulations of the highway code of the country involved. When in operation make sure that the lighting system is in perfect working order.





### Spare parts

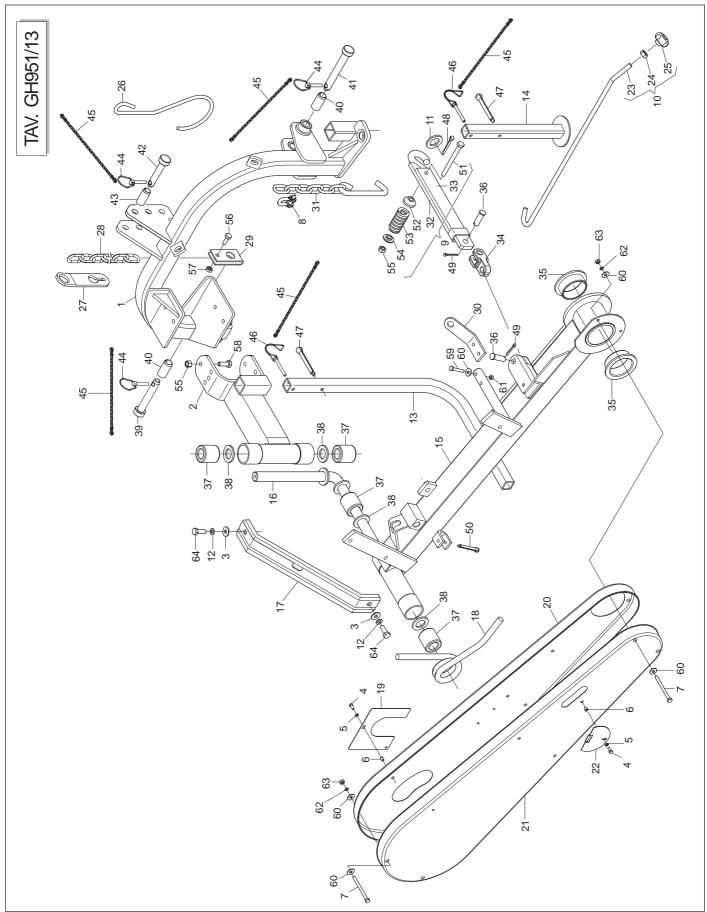
Orders must be transmitted through our area dealers and should always include the following indications:

- Type, model and serial number of the machine. These data are punched on the data plate with which every implement is equipped.
- Code number of the required spare part. This will be found in the spare parts catalogue.
- Description of the part and required quantity.
- Means of dispatch. If this item is not indicated, the Manufacturer, while dedicating particular care to
  this service, shall not be held responsible for delays in delivery caused by cases of force majeure.
  Transport expenses shall always be at the consignee's charge. The goods travel at the purchaser's
  risk and peril even when sold ex destination.

**NOTE**: The terms Right or Left indicated in the descriptions refer to the implement when viewed from the rear side.

### Table index

Frame	Tav. 951/13	pag. 44
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Cutting blade	Tav. 951/53	pag. 50
Hydraulic lifting system	Tav. 951/63	pag. 52

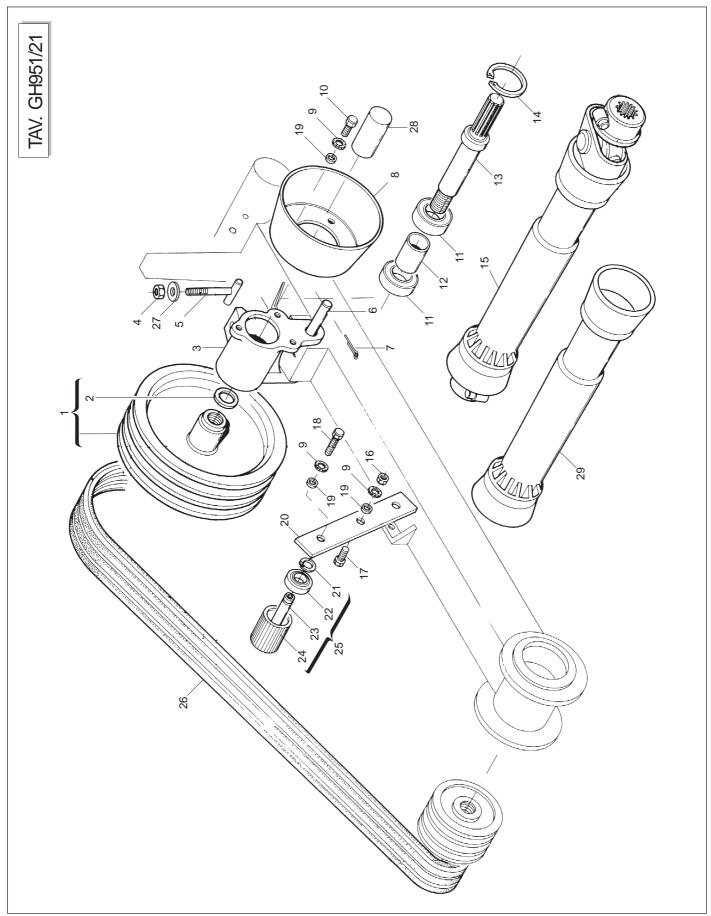


44 **AFRONTIFR** p/n GH 19502091

	FRAME				TAV. GH951/13
Pos.	n/d	Description	Pos.	u/d	Description
_	GH12217591	FBR FRAME	38	GH20970067	WASHER 54X5X32
7	GH12217821	JOINT	39	GHF20100047	PIN
က	GH20970035	WASHER 32X4X13	40	GH21010042	BUSHING 12. POINT
4	GHF01020403	BOLT M 6X16	41	GHF20100115	GASPARDO PIN 22X144 ZN
2	GHF01410037	PLANE WASHER D.6	42	GHF20100035	PIN
9	GHF02250680	THREADED INSERT M6X13 ZN	43	GH12217660	THIRD POINT BUSH
7	GHF01020092	BOLT 8 X110 5737 8.G GALVANIZ.	44	GHF02200507	SNAP PIN D 9 B/83
∞	GHF02250667	CLEVIS- 3/8- GALVANISED- ART.	45	GH13812311	CHAIN WITH SPRING CATCH
6	GH12217691	TRIP TIE-ROD	46	GHF02200562	SPLIT PIN D.8X70 ZB
10	GH21120211	CUTTER BAR TIE ROD FB/S	47	GHF02200272	SPLIT PIN 10 X60 1336 GALVAN.
7	GHF01410124	PLANE WASHER D20 UNI 6592 ZN	48	GHF02200259	SPLIT PIN 8 X45 1336
12	GHF01430071	WASHER D12 DIN 6798 D.INT.ZN	49	GHF02200195	SPLIT PIN 4 X251336 GALVAN.
13	GH12217810	PROP TUBE	20	GHF02200260	SPLIT PIN 8 X60 1336 GALVAN.
14	GH12217650	FRONT PROP	51	GHF01020176	BOLT M 12X130
15	GH12217800	HINGE BEARING ARM	52	GH21120301	CONE DISCONNECT FB940
16	GH21030010	ARMARTICULATION	53	GHF02400013	SPRING G 38X75 SPECIAL SPRINGS
17	GH21120212	JOINT ELEMENT FB/S	54	GH22310047	REAR ARM BUSHING DP
18	GH21120319	HINGE ARM SPRING FB940	52	GHF01230058	SELF LOCKING NUT M12X1,25
19	GH12236470	DRIVENAXLE PULLY PROTECTION	26	GHF01020476	BOLT M 10X30
20	GH21120215	INNERPROTECTION CASE FB/S	22	GHF01220033	NUT M10X 1,5 D980 8 ZB
21	GH21120216	OUTERPROTECTION CASE FB/S	58	GHF01020512	SCREW M 12X35
22	GH21120217	INSPECTION OPENING COVER-GUARD	59	GHF01020072	BOLT M 8X1,25X50 U5737 8.8 ZG
23	GH12216400	TIE ROD	09	GH20970140	WASHER 20X2X8,5
24	GHF01200306	NUT M14X2	61	GHF01230034	SELF LOCKING NUT M8X1,25
25	GHF06220011	6-LOBE HANDWHEEL M14	62	GHF01430059	WASHER D8 DIN 6798 D.INT.ZN
26	GHF20120400	SHAFT HOOK	63	GHF01200244	NUT M8
27	GH21030007	TRACTOR COUPLING PLATE	64	GHF01020510	BOLT M 12X30
28	GH21030035	CHAIN L.900			
29	GH21030034	FRAME COUPLING			
30	GH21120308	SAFETY HOOK COUPLING			
31	GH12217710	SAFETY CHAIN HOOK			
32	GH12217680	SLIDING ROD			
33	GH12217761	SNAP TIE ROD GUIDE			
34	GH12217950	FORK FOR TRIP TIE-ROD			
35	GH66248064	HINGE ARM BUSHING FB.			
36	GHF20100504	U BOLT PIN D.16X45			
37	GH21030027	RUBBER BLOCKS			

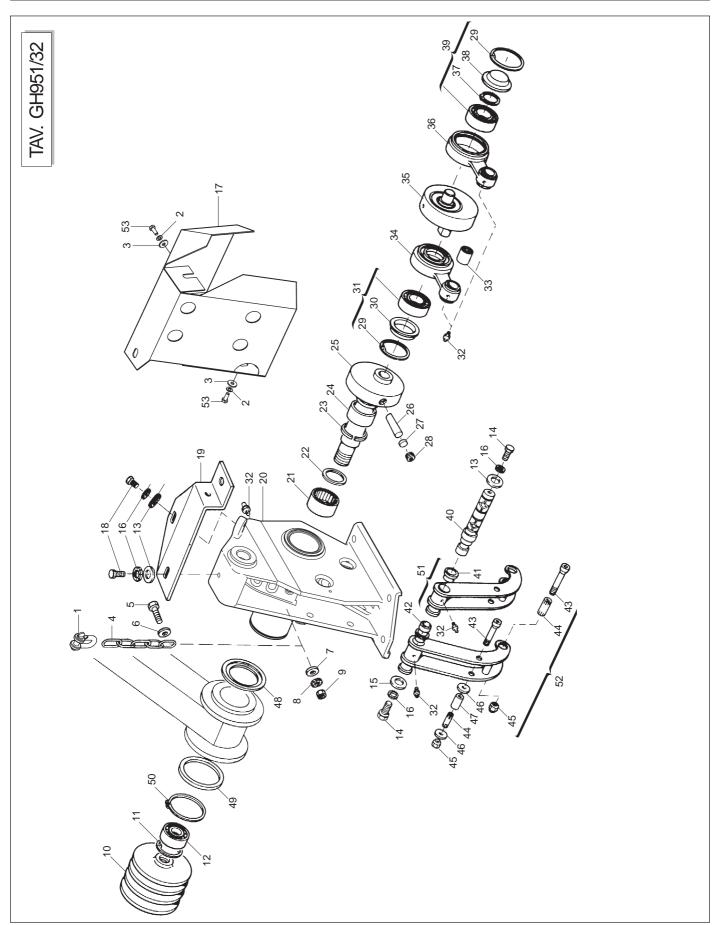
p/n GH 19502091





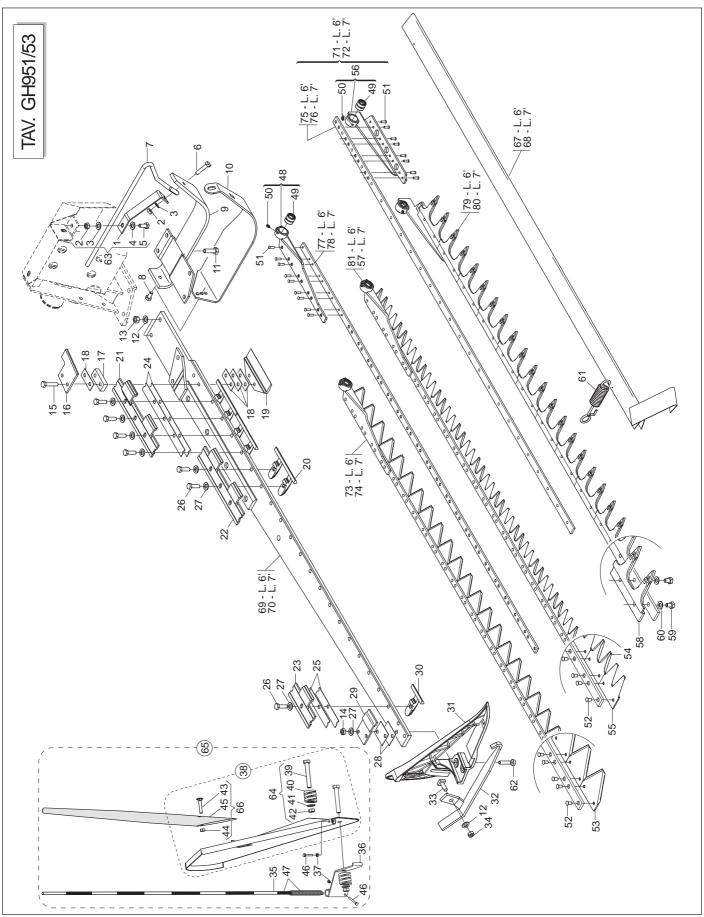
46 **EXPONTIER** p/n GH 19502091

TRANSMISSION				TAV. 0	TAV. GH951/21
Description		Pos.	u/d	Description	
GROOVE	3 GROOVE DRIVING PULLEY				
WASHER 48X3X30-5	3X3X30-5				
PTO SUPPORT	ORT				
NOT 14 UNI	NUT 14 UNI 5588 6.8 GALVANIZED				
SELT REGIS	BELT REGISTER ASSY.				
NTERM. TR	INTERM. TRANSM. SUPP. PIN				
3PLIT PIN 5	SPLIT PIN 5 X30 1336 GALVAN.				
OWER TAK	POWER TAKE-OFF PROTECTION HOUS				
VASHER D	WASHER D8 DIN 6798 D.INT.ZN				
30LT 8X16	BOLT 8X16 5739 8.G GALVANIZED				
BEARING 6206 2RS	206 2RS				
SPACER					
POWER TAKE-OFF	E-OFF				
SEEGER RII	SEEGER RING E. 62X 2 U7437 C70				
JNIVERSAL	UNIVERSAL JOINT B3 1000 AM				
JUT 8 UNI	NUT 8 UNI 5588 6.8 GALVANIZED				
30LT 8 X35	BOLT 8 X35 5732 4.6 GALVANIZED				
30LT 8X25	BOLT 8X25 5739 8.G GALVANIZED				
WASHER 20X2X8,5	0X2X8,5				
3ELT TIGH	BELT TIGHTENER ROLLERS SUPPORT				
SEEGER R	SEEGER RING E. 17X 1 U7435 C70				
BEARING 6203 2RS	3203 2RS				
GROOVE	3 GROOVE P.TIGHTEN. PIN				
<b>3ELT TIGH</b>	BELT TIGHTENER L.70				
<b>IGHTENE</b>	TIGHTENER ROLLER 3G. CP				
BELTS- B 93	3				
VASHER [	WASHER D14 UNI 6592 GALVANIZED				
OWER TA	POWER TAKE-OFF GUARD				
SAFETY GUARD AM	ARD AM				



Photographic Description         Pros. pin         Description           GHF02200697         LUK-0.2-39 C-ALVANISED-ARI.         35         GHF0020011         SEECER R ING 30X 1, 3U-1435 C70           GHF01420047         WASHER Ro BOIN GF98 D INIT CARA.         38         GH21120028         R PROTECTION HULG           GHF01420046         CHAN WASHER RO BOIN GF98 D INIT CARA.         39         GH21120028         R PROTECTION HULG           GHF01420046         CHAN D B. LISA         40         GH21120028         R PROMEE BLAGE SHAFT - ASSY.           GHF01420070         WASHER RO SAXA13         41         GH21120028         R PROMEE BUSHING ES PHACT - RSSY.           GHF0140020         WASHER RO SAXA13         42         GH21120067         R PROMEE BUSHING ES           GHF0140020         WASHER RO SAXA13         42         GH21120067         R PROMEE BUSHING ES           GHF0140020         WASHER RO SAXA13         41         GH21120067         R PROMEE BUSHING ES           GHF014002473         BULT RO SAXA13         41         GH21120067         R PROMEE BUSHING ES           GHF014002473         BULT RO SAXA13         42         GH21120067         R PROMEE BUSHING ES           GHF014002473         BULT RO SAXA14         GH21120067         R PROMEE BUSHING ES         GH21120067		HINGE				TAV. GH951/32	2
CLEVIS-38-GALVANISED-ART.         37         GHF02060112           WASHER D6 DIN 6798 D.INT.GALV.         38         GH21120028           FLATVASHER 6-6X 18X2 6593 ZN         40         GH21120024           GHAIN D3 L.194         40         GH21120024           BOLT M12X1,75A0         41         GH21120067           WASHER 35X8X13         43         GH21120067           WASHER D12 DIN 6798 D.INT.ZN         45         GH21120068           WASHER D12 DIN 6798 D.INT.ZN         46         GH21120068           JGCOOVE DRIVEN PULLEY         46         GH21120068           JGCOOVE DRIVEN PULLEY         46         GH21120068           JGCOOVE DRIVEN PULLEY         47         GH21120013           BEARING 6206 Z         47         GH21120018           WASHER 11 X35 X5         49         GH21120018           WASHER 11 X35 X5         51         GH21120116           WASHER D10 DIN 6788 D.INT.ZN         51         GH21120116           MASHER D10 DIN 6788 D.INT.ZN         52         GH21120116           SEGER RING B 5025         SEALING B 5025         SEALING B 5025         SEALING B 5025           SHOULDER RING WR 45         INTERNAL IR. RING 45X50X35         INTERNAL IR. RING 45X50X35         INTERNAL IR. RING 45X50X35 <th>Pos.</th> <th></th> <th>Description</th> <th>Pos.</th> <th>u/d</th> <th>Description</th> <th></th>	Pos.		Description	Pos.	u/d	Description	
WASHER D6 DIN 6798 D.INT.GALV.         36         GH21120028           FLAT WASHER 6-6X 18X2 6593 ZN         40         GH21120154           CHAIN D.8 L. 194         40         GH21120024           BOLT MLZX1,75X40         41         GH21120025           WASHER 32X4X13         43         GH21120007           WASHER 32X4X13         44         GH21120069           WASHER D12 DIN 6798 D.INT.ZN         45         GH21120069           MASHER D2 DIN 6798 D.INT.ZN         46         GH21120069           3-GROCK DRIVEN PULLEY         46         GH21120017           BEARING 6206 Z         47         GH21120018           WASHER 10,5X30         50         GH20370023           BOLT M 10X35         51         GH21120018           WASHER 11, X35 X5         51         GH21120018           WASHER 11, X35 X5         52         GH21120018           WASHER 11, X35 X5         51         GH21120018           WASHER 11, X35 X5         63         GH21120018           WASHER 11, X35 X5         64         GH21120018           WASHER 11, X35 X5         64         GH21120018           BLADE SHAFT SUPPORT FB/S         51         GH21120018           BLADE SHAFT SUPPORT FB/S         FR <th></th> <th>GHF02250667</th> <th>CLEVIS- 3/8- GALVANISED-ART.</th> <th>37</th> <th>GHF02050112</th> <th>SEEGER RING 30X 1,5 U7435 C70</th> <th></th>		GHF02250667	CLEVIS- 3/8- GALVANISED-ART.	37	GHF02050112	SEEGER RING 30X 1,5 U7435 C70	
PLAT WASHER 6-6X 18X2 6593 ZN   39 GH21120154 CHAIN D.8 L.194		GHF01430047	WASHER D6 DIN 6798 D.INT.GALV.	38	GH21120028	PROTECTION PLUG	
CHAIN D. B. L. 194         40         GH21120224           BOLT MIZX1,75X40         41         GH21120067           WASHER 35X8X13         42         GH21120067           WASHER 32X4X13         43         GH21120067           WASHER D12 DIN 6798 D.INT.ZN         44         GH21120068           NUT M12         46         GH21120018           3-GROOVE DRIVEN PULLEY         46         GH20970619           SEEGER RING E. 62X 2 U7437 C70         47         GH21120018           WASHER 10,5X30         50         GH20120018           BEARING 6206 Z         48         GH21120018           WASHER 10,5X30         50         GH21120018           WASHER 11,5X30         51         GH2112016           WASHER 10 DIN 678B D.INT.ZN         52         GH2112016           WASHER 11 SUPPORT FB/S         51         GH2112016           BLADE SHATT SUPPORT FB/S         51         GH2112016           HINGE         BEARING DHK 5025         52         GH2112016           SHOULDER RING WR 45         SHOULDER RING WR 45         SHOULDER RING WR 45         SHOULDER RING WR 45           PIN SPACER FB         PIN GRUB-SCREW FB         SPHER RING EXZ,5 U7437 C70         DUST COVER HINGE FB           RYI- INT. CONIN. R		GHF01420036	FLAT WASHER 6-6X 18X2 6593 ZN	39	GH21120154	KIT- EXT. CONN. ROD BEARING FB	
BOLT M12X1,75X40         41         GH21120067           WASHER 35X8X13         42         GH21120255           WASHER 32X4X13         43         GH21120025           WASHER D12 DIN 6798 D.INT.ZN         44         GH21120068           3-GROOVE DRIVEN PULLEY         45         GH21120018           SEEGER RING E. 62X 2 U7437 C70         48         GH21120018           BEARING 6206 Z         49         GH20970023           BEARING 6206 Z         49         GH20970023           WASHER 10,5X30         60         GH20200642           WASHER 10,5X30         50         GH7020068           WASHER 10 DIN 6738 D.INT.ZN         52         GH21120017           WASHER 10 DIN 6738 D.INT.ZN         52         GH21120070           WASHER 10 LONG 80 SYSTEM GUARD         53         GHF01020403           BLADE SHAFT SUPPORT FB/S         HINGE         BEARING DHS 60X58X4           SHOULDER RING 45         SHOULDER RING 45         SHOULDER RING 45           SHOULDER RING 6172X2,5 U7437 C70         SEEGER RING 6172X2,5 U7437 C70           DUST COVER HINGE FB         KIT-INT.CONN RINGE FB           KIT-INT.CONN RINGE FB         KIT-INT.CONN RINGE FB           FIN HINGE CCENTRIC         SPHERR NIPUR CASS8           PIN HINGE EC		GH12210460	CHAIN D.8 L.194	40	GH21120224	HINGE BLADE SHAFT - ASSY.	
WASHER 35X8X13         42         GH21120225           WASHER 32X4X13         43         GH21120071           WASHER 32X4X13         44         GH21120071           WASHER D12 DIN 6798 D.INT.ZN         45         GH21120068           JOEROOVE DRIVEN PULLEY         47         GH21120018           SEEGER RING E. 62X 2 U7437 C70         47         GH21120018           WASHER 10,5X30         50         GH20370023           BOLT M 10X35         49         GH201720018           WASHER 11 X 35 X 5         49         GH201720018           WASHER D10 DIN 6798 D.INT.ZN         52         GH21120156           CONNECTING-ROD SYSTEM GUARD         53         GHF01020403           BOLT 10X25 5739 8.G GALVANIZED         53         GHF01020403           BLADE SHAFT SUPPORT FB/S         HIMGE         BEARING DHK 5025         SEALING RING WR 45           INTERNAL IR. RING 45X50X35         HINGE SPINDLE FB/S         CONIC PIN FB         PIN SPACER FB           PIN SPACER FB         PIN GETZX2,5 U7437 C70         DUST COVER HINGE FB         PIN SPACER FB           KIT. INT. CONN. ROD BEARING FB         SPHERE NIPPLE M6X1/A         BEARING DHK 2538           PIN HINGE ECCENTRIC         CONTECTING ROD FB         PIN HINGE CONNECTING ROD FB	_	GHF01020514	BOLT M12X1,75X40	4	GH21120067	BRONZE BUSHING	
WASHER 32X4X13         43         GH21120071           WASHER D12 DIN 6798 D.INT.ZN         44         GH21120069           NUT M12         45         GH21120069           SEGEGE R RING E. 62X 2 U7437 C70         48         GH21120018           SEEGER RING E. 62X 2 U7437 C70         48         GH21120018           WASHER 10,5X30         49         GH21120018           BOLT M 10X35         50         GHC0050642           WASHER 11,0,5X30         50         GHC0050642           WASHER 11,0,5X30         50         GHC0050642           WASHER 11,0,5X30         50         GHC0050642           WASHER 11,0,5X30         60         GHC0050642           WASHER 11,0,5X30         60         GHC0050642           WASHER 11,0,5X30         60         GHC0050642           WASHER 11,0,5X30         60         GHC0050642           WASHER D10 DIN 6798 D.INT.ZN         52         GHC1120070           WASHER D10 DIN 6798 SX3         GHC1120070         GHC1120070           WASHER D10 DIN 6798 SX4         SEALING WA 45         GHC11200403           INTERNAL IR. RING 45X50X35         HINGE SPINDLE FB/S         CONIC PIN FB           PIN SPACER FR         FIN SPACER FR         FIN SPACER FR	_	GH20970007	WASHER 35X8X13	42	GH21120225	BLADES SPACER FB/S	
WASHER D12 DIN 6798 D.INT.ZN         44         GH21120068           NUT M12         45         GH21120068           3-GROOVE DRIVEN PULLEY         46         GH20370519           SEEGER RING E. 62X 2 U7437 C70         48         GH21120018           WASHER RIO 6206 Z         48         GH21120018           WASHER 10,5X30         50         GH702050642           WASHER 11 0X35         5         GH7120070           WASHER D1 DIN 6798 D.INT.ZN         52         GH2112016           WASHER D1 DIN 6798 D.INT.ZN         52         GH2112016           CONNECTING-ROD SYSTEM GUARD         53         GHF01020403           BCADE SHAFT SUPPORT FB/S         HIMGE         BEARING DHK 5025           SEALING RING DH 50X58X4         SHORD SYSTEM GUARD         SACONIC PIN FB           SHUNGE SPINDLE FB/S         CONIC PIN FB         PIN SPACER FB           PIN SPACER FB         PIN SPACER FB         PIN GRUB-SCREW FB           SEGER RING E.72X.5 U7437 C70         DUST COVER HINGE FB           KIT. INT. CONN. ROD BEARING FB         SPHERE NIPPLE M6X1/A           BEARING DHK 2538         PIN HINGE CCONNECTING ROD FB           PIN HINGE ECCENTRIC         CONTER CONNECTING ROD FB		GH20970035	WASHER 32X4X13	43	GH21120071	PIN FASTENING BOLT	
NUT M12  3-GROOVE DRIVEN PULLEY  46 GH20970519 SEEGER RING E. 62X 2 U7437 C70 BEARING 6206 Z WASHER 10,5X30 BOLT M 10X35 WASHER 10 DIN 6798 D.INT.ZN SOONE DRIVEN BS X 5 WASHER 11 X 35 X 5 WASHER 11 X 35 X 5 WASHER D10 DIN 6798 D.INT.ZN SOONECTING-ROD SYSTEM GUARD BLADE SHAFT SUPPORT FB/S HINGE BEARING DHK 5025 SEALING RING DH 50X58X4 SHOULDER RING WR 45 HINGE BEARING DHK 5025 SEALING RING BS SOONECTING ASSEALS SEGER RING E.72X.2 U7437 C70 DUST COVER HINGE FB KIT. INT. CONN. ROD BEARING FB SEEGER RING E.72X.2 U7437 C70 DUST COVER HINGE FB KIT. INT. CONN. ROD BEARING FB SPHERE NIPPLE M6X1/A BEARING DHK 2338 PIN HINGE CCENTRIC OUTER CONNECTING ROD FB HINGE ECCENTRIC		GHF01430071	WASHER D12 DIN 6798 D.INT.ZN	44	GH21120069	EXPANSION PIN FB	
3-GROOVE DRIVEN PULLEY SEEGER RING E. 62X 2 U7437 C70 SEEGER RING 6206 Z WASHER 10,5X30 SOLT M 10X35 S		GHF01200293	NUT M12	45	GH21120068	CONICAL NUT	
SEEGER RING E. 62X 2 U7437 C70       47       GH21120013         BEARING 6206 Z       48       GH21120018         WASHER 10,5X30       49       GH20970023         BOLT M 10X35       50       GHF02050642         WASHER 11 X 35 X 5       51       GH21120070         WASHER 11 X 35 X 5       51       GH21120070         WASHER D10 DIN 6798 D.INT.ZN       53       GHF01020403         BOLT 10X25 5739 8.G GALVANIZED       GHZ1120156       GHZ1120156         BOLT 10X25 5739 8.G GALVANIZED       BLADE SHAFT SUPPORT FB/S       HINGE       HINGE         HINGE       SHALT SUPPORT FB/S       HINGE       SPRING       HINGE         SEGER RING       BLADE       SHALT SUPPORT FB/S       CONIC PIN FB       PIN SPACER FB         PIN SPACER FB       PIN GRUB-SCREW FB       SEEGER RING E.72X2,5 U7437 C70       DUST COVER HINGE FB       KIT- INT. CONN. ROD BEARING FB       SPHERE NIPPLE M6X1/A       BEARING DHK 2538       PIN HINGE CONNECTING ROD FB         PIN HINGE CONNECTING ROD       BLADE CONNECTING ROD       BLADE CONNECTING ROD       BLADE CONNECTING ROD       BLADE CONNECTING ROD		GH21120118	3-GROOVE DRIVEN PULLEY	46	GH20970519	BOTTOMED WASHER 39X20-25X5X1	
BEARING 6206 Z       48       GH21120018         WASHER 10,5X30       49       GH20970023         BOLT M 10X35       50       GHF02050642         WASHER 11 X 35 X 5       51       GH21120070         WASHER 11 X 35 X 5       GH21120070       52       GH21120070         WASHER D10 DIN 6798 D.INT.ZN       53       GHF01020403         BOLT 10X25 5739 8.G GALVANIZED       GHF01020403       GHF01020403         BEARING DHK 5025       SEALING WA 45       GHF01020403       GHF01020403         HINGE SPINDLE FB/S       CONIC PIN FB       FIN SHOR 45       GHF01020403         PIN SPACER FB       PIN SPACER FB       FIN SPACER FB       FIN SPACER FB         PIN GRUB-SCREW HINGE FB       SPHERE NIPPLE M6X1/A       BEARING DHK 2538         PIN HINGE CONNECTING ROD FB       HINGE ECCENTRIC         OUTER CONNECTING ROD FB       HINGE SPACER FB		GHF02050392	SEEGER RING E. 62X 2 U7437 C70	47	GH21120137	INTERNAL RING FB	
WASHER 10,5X30       49       GH20970023         BOLT M 10X35       50       GH202050642         WASHER 11 X 35 X 5       51       GH21120070         WASHER 11 X 35 X 5       52       GH21120070         WASHER D10 DIN 6798 D.INT.ZN       52       GH21120156         CONNECTING-ROD SYSTEM GUARD       53       GHF01020403         BOLT 10X25 5739 8.G GALVANIZED       GHF01020403         BLADE SHAFT SUPPORT FB/S       HIMGE         BEADE SHAFT SUPPORT FB/S       HIMGE         BEADE SHAFT SUPPORT FB/S       HIMGE         BEARING DHK 5025       SEALING SWA 45         INTERNAL IR. RING 45X50X35       HINGE SPINDLE FB/S         CONIC PIN FB       PIN SPACER FB         PIN SPACER FB       PIN GRUB-SCREW FB         SEEGER RING E. 72X2,5 U7437 C70       DUST COVER HINGE FB         KIT- INT. CONN. ROD BEARING FB       KIT- INT. CONN. ROD BEARING FB         SPHERE NIPPLE M6X1/A       BEARING DHK 2538         PIN HINGE CONNECTING ROD FB       HINGE ECCENTRIC         OUTER CONNECTING ROD FB       HINGE SCONNECTING ROD FB		GHF04010171	BEARING 6206 Z	48	GH21120018	ANTERIOR WASHER	
BOLT M 10X35 WASHER 11 X 35 X 5 WASHER D10 DIN 6798 D.INT.ZN 52 GH21120070 S1 GH21120070 GONNECTING-ROD SYSTEM GUARD BLADE SHAFT SUPPORT FB/S HIMGE BEARING DHK 5025 SEALING RING DH 50X58X4 SHOULDER RING WR 45 INTERNAL IR. RING 45X50X35 HINGE SPINDLE FB/S CONIC PIN FB PIN SPACER FB PIN SPACER FB PIN SPACER FB PIN GRUB-SCREW FB SEEGER RING E.72X2,5 U7437 C70 DUST COVER HINGE FB KIT- INT. CONN. ROD BEARING FB SPHERE NIPPLE M6X1/A BEARING DHK 2538 PIN HINGE CONNECTING ROD FB HINGE ECCENTRIC OUTER CONNECTING ROD FB HINGE ECCENTRIC		GHF01420060	WASHER 10,5X30	49	GH20970023	WASHER 102X2X75-2	
WASHER 11 X 35 X 5 WASHER 11 X 36 X 5 WASHER D10 DIN 6798 D.INT.ZN S2 CONNECTING-ROD SYSTEM GUARD BOLT 10X25 5739 8.G GALVANIZED BLADE SHAFT SUPPORT FB/S HIMGE BEARING DHK 5025 SEALING RING WR 45 INTERNAL IR. RING 45X50X35 HINGE SPINDLE FB/S CONIC PIN FB PIN SPACER FB PIN GRUB-SCREW FB SEEGER RING E 72X2,5 U7437 C70 DUST COVER HINGE FB SEEGER RING E 72X2,5 U7437 C70 DUST COVER HINGE FB SHING DHK 2538 PIN HINGE CONNECTING ROD FB HINGE ECCENTRIC OUTER CONNECTING ROD  UNTER CONNECTING ROD		GHF01020479	BOLT M 10X35	20	GHF02050642	STOP RING 75 UNI 7435-75	
WASHER D10 DIN 6798 D.INT.ZN  WASHER D10 DIN 6798 D.INT.ZN  CONNECTING-ROD SYSTEM GUARD  BOLT 10X25 5739 8.G GALVANIZED  BLADE SHAFT SUPPORT FB/S  HIMGE  BEARING DHK 5025  SEALING RING WR 45  INTERNAL IR. RING 45X50X35  HINGE SPINDLE FB/S  CONIC PIN FB  PIN SPACER FB  PIN SPACER FB  RIT- INT. CONN. ROD BEARING FB  SPHERE NIPPLE M6X1/A  BEARING DHK 2538  PIN HINGE CONNECTING ROD FB  HINGE ECCENTRIC  OUTER CONNECTING ROD  OUTER CONNECTING ROD  OUTER CONNECTING ROD  OUTER CONNECTING ROD  S  GHF01120156  GHF01120156  GHF01020403  GHF010		GH18701140	WASHER 11 X 35 X 5	51	GH21120070	BLADE W/ BUSHINGS	
CONNECTING-ROD SYSTEM GUARD BOLT 10X25 5739 8. G GALVANIZED BLADE SHAFT SUPPORT FB/S HIMGE BEARING DHK 5025 SEALING RING WR 45 INTERNAL IR. RING 45X50X35 HINGE SPINDLE FB/S CONIC PIN FB PIN SPACER FB PIN SPACER FB PIN SPACER FB RING E 72X2,5 U7437 C70 DUST COVER HINGE FB KIT- INT. CONN. ROD BEARING FB SEEGER RING E 72X2,5 U7437 C70 DUST COVER HINGE FB KIT- INT. CONN. ROD BEARING FB KIT- INT. CONN. ROD BEARING FB HINGE CONNECTING ROD FB HINGE ECCENTRIC OUTER CONNECTING ROD HINGE ECCENTRIC		GHF01430023	WASHER D10 DIN 6798 D.INT.ZN	25	GH21120156	KIT- BLADE FASTENING PIN FB	
		GH12236490	CONNECTING-ROD SYSTEM GUARD	53	GHF01020403	BOLT M 6 X 16	
		GHF01020472	BOLT 10X25 5739 8.G GALVANIZED				
		GH21120221	BLADE SHAFT SUPPORT FB/S				
		GH12236500	HIMGE				
		GHF04010363	BEARING DHK 5025				
		GHF03011069	SEALING RING DH 50X58X4				
		GHF04010409	SHOULDER RING WR 45				
		GHF04100131	INTERNAL IR. RING 45X50X35				
		GH21120223	HINGE SPINDLE FB/S				
		GH21120126	CONIC PIN FB				
GH21120127 GHF02050403 GH66248111 GH21120153 GHF01100011 GHF04010362 GH21120128 GH21170020		GH21120136	PIN SPACER FB				
GHF02050403 GH66248111 GH21120153 GHF01100011 GHF04010362 GH21120128 GH21170020	28	GH21120127	PIN GRUB-SCREW FB				
21		GHF02050403	SEEGER RING E.72X2,5 U7437 C70				
GH21120153 GHF01100011 GHF04010362 GH21120128 GH21170020		GH66248111	DUST COVER HINGE FB				
GHF01100011 GHF04010362 GH21120128 GH21170020		GH21120153	KIT- INT. CONN. ROD BEARING FB				
	32	GHF01100011	SPHERE NIPPLE M6X1/A				
GH21120128 GH21170020 GH21170021		GHF04010362	BEARING DHK 2538				
GH21170020 GH21170021		GH21120128	PIN HINGE CONNECTING ROD FB				
GH21170021		GH21170020	HINGE ECCENTRIC				
		GH21170021	OUTER CONNECTING ROD				

FIRONTIER

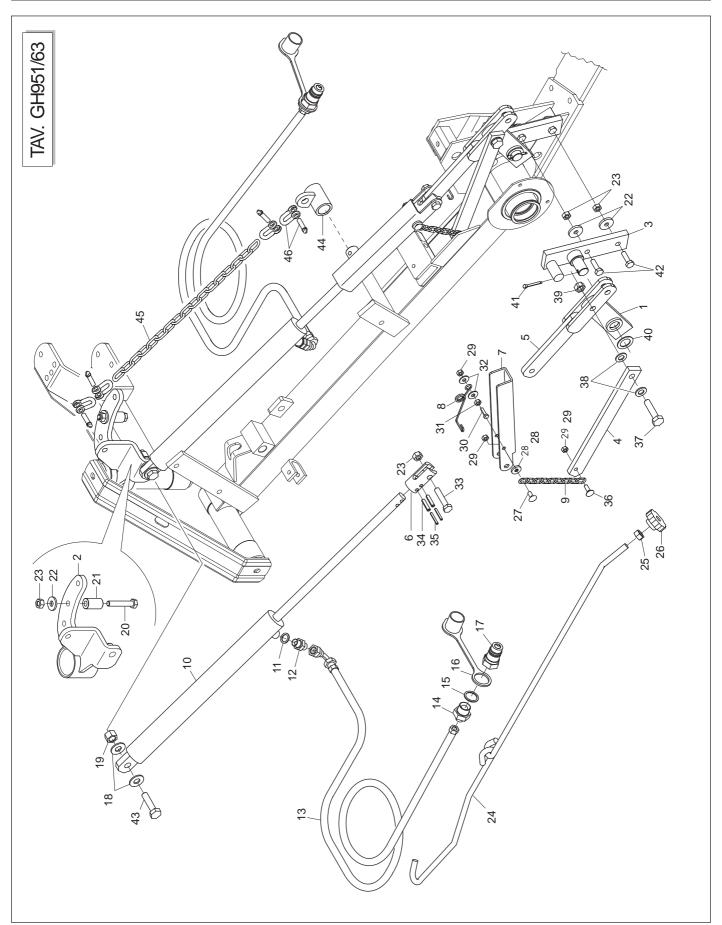


50 **EXFONTIER** p/n GH 19502091

	CUTTING BL	CUTTING BLADE (REPLACEABLE TOOTH)			TAV. GH951/53
Pos.	. p/n	Description	Pos.	u/d	Description
- c	GH21120321	INNER SLIDE SPACER	4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	GHF01230058	SELF LOCKING NUT M12X1,25
۷ ۳	GHF01200270 GHF01430023	MASHER D10 DIN 6798 D INT 2N	4 4	GHE01230034	SOLI 9740 3/32 4:0 GALVAINIZED SELFLOCKING NIT M8X1 25
4	GHF01410064	WASHER 10,5X21	45	GH20800061	SWATHBOARD ROD ASSY.
2	GHF01020472	BOLT 10X25 5739 8.G GALVANIZED	46	GHF01020011	SCREW 4X35 5737 8.G ZN
9	GHF01060077	BOLT 10X45 5732 4.8 GALVANIZED	47	GH13011660	INDICATIN BAR
7	GH21120322	HINGE PROTECTION	48	GH13013190	COMPL. BLADE HEAD SECTIONS
œ	GHF01020470	BOLT M 10X20	49	GH21120048	BUSHING- BLADE HEAD 28X20X24
6	GH21120323	INTERNAL RUNNER	20	GHF01100011	SPHERE NIPPLE M6X1/A
19	GH21120324	RUNNER WIDE INT. SLIDE	51	GHF02250520	PACK BLAD.MOUNT.TSC 6 X19-8 KG
= :	GHF01020154	BOL. M12X1,75X 45 5737 8.8 ZB	52	GHF02250519	PACK BLAD.MOUNT.TSC 6 X13-8
7 7	GHF01430071	WASHEK D12 DIN 6798 D.INI.ZN	55	GHZ1120243	COL SECTION
5 4	GHF012200233	NOT MIZ NIT M10X 1 5 D980 8 ZB	4 r.	GH13013530	LOWER DOUBLE FOINT SECTION
15	GHF01020114	۶ ۲	56	GH13013230	COMPL. BLADE HEAD W/ REMV. TEE
16	GH21120312	UPPER INNER BLADE GUIDE	22	GH13013680	COMPL. DOUBLE-TIP SECTION BLADE R.T 7'
17	GH13011600	INT. BLADE GUIDE SUPPORT	28	GH13013830	SPECIAL REMOVABLE TEETH
18	GH21120044	SHIMS-LOWER INT. GUIDE	29	GHF01010222	SCREW 8X1X12 5740 10.9
19	GH21120045	INNER LOWER BLADE GUIDE	09	GHF01460138	CONTACT ELAST. WASHER D8
20		LOWER DOUBLE BLADE GUIDE	61	GH65337002	TRACTION SPRING GUARD
21	GH19203311	UPPER BLADE INT. GUIDE REMOVAB	62	GHF01030501	SCREW TSQST 10X45 8.8
22	GH19203301	UPPER BLADE GUIDE REMOVABLE TI	63	GH13013120	COMPLETE SPACER
23		UPPER BLADE GUIDE EXT. REMOVAB	64	GH21120133	SWATHBOARD BOLT ASSY.
24		SHIM FOR UPPER BLADE GUIDE	65	GH21120134	SWATHBOARD - ASSY.
25		UPPER EXT. BLADE GUIDE SHIM	99	GH20800061	SWALHBOARD RODASSY.
26		SCREW 10X35 5739 8.G	67	GH21120054	TEETH GUARD 6'
27	GHF01410064	WASHER 10,5X21	89	GH21120112	IEEIH GUARD 7
78		SHIMS MM.1 UPPER EXT. GUIDE	69	GH13013431	REMV. TOOTH-HOLDING 67
29		UPPER OUT. BLADE GUIDE	0,2	GH13013471	KEMV. IOOI H-HOLDING /
3.0 2.1	GH13013511 CH102000003	LOWER SINGLE BLADE GUIDE	72	GH13013340 GH13013350	BLADE HEAD-TOOTH-HOLDING BAR 6 BLADE HEAD-TOOTH-HOLDING BAP 7;
- 6	GH21120038	EXT RINNER SIDE	7.3	GH13013580	COMPLEXITION-HOLDING BAR 6'
3 6	GHE01030508	BOITTO 11X30	74	GH13013590	COMPL. SECTION-HOLDING BAR 7
3 4 8		NUT 11 UNI 5588 6.8	75	GH13013300	REMV. TOOTH-HOLDING BAR 6'
35		INDICATION BAR	92	GH13013310	REMV. TOOTH-HOLDING BAR 7'
36	GH13011650	INDICATION BAR SUPPORT	77	GH21120246	ROD SECTIONS MT. 6'
37		NORM.SELF-LOCKING NUT 4 GALVAN	78	GH21120247	ROD SECTIONS MT. 7'
38	_	SWATHBOARD - ASSY.	79	GH13013771	COMPL. SPECIAL REMVTOOTHED BLADE 6'
30	GHF01060105	BOLT 12X80 5732 4.6 GALVANIZED	80	GH13013781	COMPL. SPECIAL REMV1001HED BLADE 7:
4 4	GHF01410076	ZN SWAT INDOARD COMP. SPRING. PLANE WASHER D12 UNI 6592 ZN	- 0	0/98/08/19	COMPL: DOOBLE-11P SECTION BLADE R.1 8
	_		=		

p/n GH 19502091



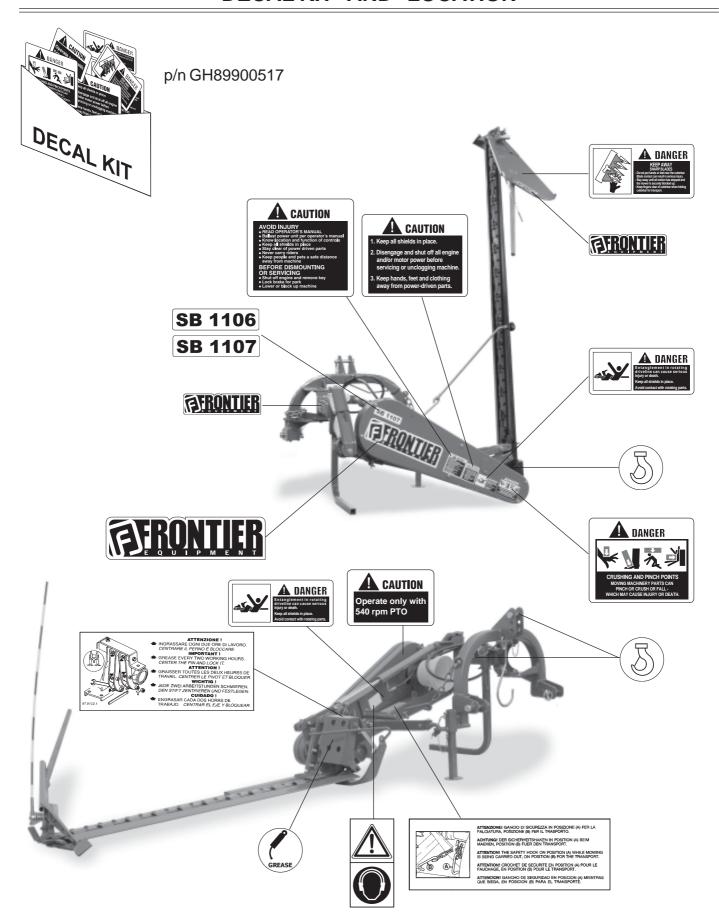


TAV. GH951/63		6592 ZB	X1,5		LVAN.	7 8.8 ZB	.8 ZG			D-ART.										AR —		3																=
	Description	WAS.M14 15X 28X2,5 U6592 ZB	SELF LOCKING NUT M14X1,5	WASHER 40X2X26	3 SPLIT PIN 5 X35 1336 GALVAN.	2 BOLT M12X1,75X 40 5737 8.8 ZB		TIE-ROD BUSH	CHAIN D.8 L.584	CLEVIS-3/8-GALVANISED-ART.																												
	s. b/n	GHF01410088	GHF01230072	GH20970070	GHF02200228	GHF01020152	GHF01020260	GH12218030	GH12210460	GHF02250667																												
	Pos	38	39	40	41	42	43	44	45	46																												
HYDRAULIC LIFTING SYSTEM	Description	LIFTING ROD	CYLINDER LINKAGE DEVICE	LIFTING PLATE	LIFTING ARTICULATION BAR	FORK LEVER CONNECTION	CYLINDER COUPLING	LIFTING BAR EDGE	UPPER HOOK TORSION SPRING	CHAIN D.5 L.194	CYLINDER D.40-D.20-380	1/4 COPPER WASHER	UPRIGHT 1/4" NIPPLE WITH GRUB	PIPE 1/4R2 C-F 1/4 L2000 HL/ID	NIPLE 1/4-1/2	1/2 COPPER WASHER	COVER 1/2	QUICK CONNECT MALE CONE 1/2 CO	WASHER 29,8X2X16,5	SELF LOCKING NUT M16X1,5	BOLT 12X80 5737 8.G GALVANIZED	BOSHING 12,3X25X42	WASHER 40X4X13	SELF LOCKING NUT M12X1,25	BLADE TIE ROD ZN	NUT M14X2	6-LOBE HANDWHEEL M14	BOLT 8 X20 5732 4.6 GALVANIZED	WASHER 21X4X8-5	SELF LOCKING NUT M8X1,25 980V	SCREW 8 X25 5739 8.G	NUT M8	PLANE WASHER D.8	BOLT M12X1,75X65 U5737 8.8 ZG	PIN EL. 8 X36 DIN 1481	PIN EL. 5 X36 DIN 1481	BOLT 8 X25 5732 4.6 GALVANIZED	
HYDRAULIC	u/d :	GH12217880	GH12218070	GH12217860	GH12217910	GH12217900	GH12216820	GH12217920	GH18903780	GH12217930	GH14911000	GHF03151238	GH16011690	GH23440517	GHF03150211	GHF03151237	GHF05150325	GHF03150935	GH20970111	GHF01230084	GHF01020166	GH18802150	GH20970085	GHF01230058	GH12217450	GHF01200306	GHF06220011	GHF01060040	GH20970104	GHF01220022	GHF01020441	GHF01200244	GHF01420048	GHF01020162	GHF02100141	GHF02100089	GHF01060041	100000

p/n GH 19502091



# **DECAL KIT AND LOCATION**



54 p/n GH 19502091

# **NOTES**

### WARRANTY



### **WARRANTY**

FRONTIER warrants this product to be free from defect in material and workmanship. Except as otherwise set forth below, the duration of this Warranty shall be for TWELVE (12) MONTHS COMMENCING ON THE DATE OF DELIVERY OF THE PRODUCT TO THE ORIGINAL PURCHASER.

Under no circumstances will this Warranty apply in the event that the product, in the good faith opinion of FRONTIER, has been subjected to improper operation, improper maintenance, misuse, or an accident. This Warranty does not apply in the event that the product has been materially modified or repaired by someone other than FRONTIER, a FRONTIER authorized dealer or distributor, and/or a FRONTIER authorized service center. This Warranty does not cover normal wear or tear, or normal maintenance items. This Warranty also does not cover repairs made with parts other than those obtainable through FRONTIER.

This Warranty is extended solely to the original purchaser of the product. Should the original purchaser sell or otherwise transfer this product to a third party, this Warranty does not transfer to the third party purchaser in any way. There are no third party beneficiaries of this Warranty.

FRONTIER makes no warranty, express or implied, with respect to engines, batteries, tires or other parts or accessories not manufactured by FRONTIER. Warranties for these items, if any, are provided separately by their respective manufacturers.

FRONTIER' obligation under this Warranty is limited to, at FRONTIER' option, the repair or replacement, free of charge, of the product if FRONTIER, in its sole discretion, deems it to be defective or in noncompliance with this Warranty. The product must be returned to FRONTIER S.p.A. with proof of purchase within thirty (30) days after such defect or noncompliance is discovered or should have been discovered, routed through the dealer and distributor from whom the purchase was made, transportation charges prepaid. FRONTIER shall complete such repair or replacement within a reasonable time after FRONTIER receives the product.

THERE ARE NO OTHER REMEDIES UNDER THIS WARRANTY. THE REMEDY OF REPAIR OR REPLACEMENT IS THE SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY.

THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE OF THIS WARRANTY. FRONTIER MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND FRONTIER SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY AND/OR ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

FRONTIER shall not be liable for any incidental or consequential losses, damages or expenses, arising directly or indirectly from the product, whether such claim is based upon breach of contract, breach of warranty, negligence, strict liability in tort or any other legal theory. Without limiting the generality of the foregoing, FRONTIER specifically disclaims any damages relating to (i) lost profits, business, revenues or goodwill; (ii) loss of crops; (iii) loss because of delay in harvesting; (iv) any expense or loss incurred for labor, supplies, substitute machinery or rental; or (v) any other type of damage to property or economic loss.

This Warranty is subject to any existing conditions of supply which may directly affect FRONTIER' ability to obtain materials or manufacture replacement parts.

No agent, representative, dealer, distributor, serviceperson, salesperson, or employee of any company, including without limitation, FRONTIER, its authorized dealers, distributors, and service centers, is authorized to alter, modity, or enlarge this Warranty.

This Warranty is effective only if the warranty registration is returned within ten (10) days.

For warranty services contact your selling dealer.



### WARRANTY



### WARRANTY FOR REPLACEMENT PARTS

FRONTIER warrants this product to be free from defect in material and workmanship for a period of ninety (90) days from the date of delivery of the product to the original purchaser.

Under no circumstances will this Warranty apply in the event that the product, in the good faith opinion of FRONTIER, has been subjected to improper operation, improper maintenance, misuse, or an accident. This Warranty does not cover normal wear or tear, or normal maintenance items.

This Warranty is extended solely to the original purchaser of the product. Should the original purchaser sell or otherwise transfer this product to a third party, this Warranty does not transfer to the third party purchaser in any way. There are no third party beneficiaries of this Warranty.

FRONTIER' obligation under this Warranty is limited to, at FRONTIER' option, the repair or replacement, free of charge, of the product if FRONTIER, in its sole discretion, deems it to be defective or in noncompliance with this Warranty. The product must be returned to FRONTIER with proof of purchase within thirty (30) days after such defect or noncompliance is discovered or should have been discovered, routed through the dealer and distributor from whom the purchase was made, transportation charges prepaid. FRONTIER shall complete such repair or replacement within a reasonable time after FRONTIER receives the product. THEREARE NO OTHER REMEDIES UNDER THIS WARRANTY THE REMEDY OF REPAIR OR REPLACEMENT IS THE SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY.

THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE OF THIS WARRANTY. FRONTIER MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND FRONTIER SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY AND/OR ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

FRONTIER shall not be liable for any incidental or consequential losses, damages or expenses, arising directly or indirectly from the product, whether such claim is based upon breach of contract, breach of warranty, negligence, strict liability in tort or any other legal theory. Without limiting the generality of the foregoing, FRONTIER specifically disclaims any damages relating to (i) lost profits, business, revenues or goodwill; (ii) loss of crops; (iii) loss because of delay in harvesting; (iv) any expense or loss

incurred for labor, supplies, substitute machinery or rental; or (v) any other type of damage to property or economic loss.

This Warranty is subject to any existing conditions of supply which may directly affect FRONTIER' ability to obtain materials or manufacture replacement parts.

No agent, representative, dealer, distributor, service person, salesperson, or employee of any company, including without limitation, FRONTIER, its authorized dealers, distributors, and service centers, is authorized to alter, modify, or enlarge this Warranty.

For warranty services contact your selling dealer.



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