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TO THE DEALER:
Assembly and proper installation of this product is the responsibility of the GASPARDO 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 GASPARDO 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 engineered 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 GASPARDO dealer has trained mechanics, genuine GASPARDO service parts, and the necessary tools and equipment to handle all your needs.

Use only genuine GASPARDO 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 ___________________________

Serial Number: (see Safety Decal section for location) ___________________________

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

Throughout 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 exclamation 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!

---

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

**WARNING**
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.

**CAUTION**
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 of the sickle bar mower

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 high speed operation on 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.

It is therefore advisable to strictly comply with the following instructions in order to prevent faults which could jeopardize the correct and long-lasting operation of the implement. Compliance with the instructions in this handbook is also important since the Manufacturer declines all and every responsibility for damage to persons or property caused by negligence and failure to comply with these instructions.

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.
Assembly drawing

1 External shoe;
2 Mowing guide;
3 Cutting arm;
4 Upper 3rd point hitches;
5 Gauge varying articulation;
6 Chassis;
7 Tirant;
8 Lower 3rd point hitches;
9 Hazard bar;
10 Support;
11 Identification label;
12 Cover;
13 Protective casing for connecting-rod systems;
14 Support;
15 Hinge (pivot point);
16 Blade guard;
17 PTO;
18 Lift link adjuster chain;
19 Bar height adjuster chain;
20 Hoisting arm.
Handling

During handling operations, use suitable personal protection devices:

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 symbol (8 page 9).

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

Safety-alert labels
Read and recognize safety information.
Be alert to the potential for personal injury when you see this safety-alert labels.

On your machine safety labels, the words DANGER, WARNING, and CAUTION are used with a safety symbols. 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:
1° PINCH OR CRUSH OR FALL
2° 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
1) CAUTION
AVOID INJURY
- READ OPERATOR’S MANUAL
- Inspect power unit per operator’s manual
- Know function and function of controls
- Keep all shields in place.
- Keep all covers 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.
- Keep fingers clear of cutterbar when folding cutterbar for transport.

6) CAUTION
Operate only with 540 rpm PTO

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

cod. G19502181
Preparing the tractor

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

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

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

Parking instruction
- 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.

Installing sickle bar on tractor
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 means of the adjuster (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).
3. Hook the oscillating arms of the tractor to pins (E and F, Fig. 7). The hoisting arm (H, Fig. 8) must be fixed underneath the tractor arm. Lock in place with the snap-in split pins (G Fig. 8).

4. Lock the lift links using the relative chains (I, 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 mower **MUST BE level front to rear.**

Make sure PTO shaft is locked on the tractor PTO prior to engagement (L). Check that the guard (M) is free to turn and fix it with the relative latch (M1).

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 (N, Fig. 10) from parking stand.

9. Remove support (O and P, Fig. 10) and remount them, upside-down in their seat.

10. Fasten with spring locking pin (N, Fig. 10).
PTO shaft adaptation
The PTO shaft, supplied with the machine, is of standard length. Therefore it might be necessary to adapt the PTO shaft. In that case, before doing anything, consult the Manufacturer for the eventual adaptation.

CAUTION
- When the PTO shaft is fully extended, the two tubes must overlap by at least 6 inches (Q Fig. 11). When fully inserted, the minimum play must be $1\frac{3}{64}$ inches (R Fig. 11).
- If the implement is used on another tractor, always check the above and that the guards completely 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 $10^\circ$, 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 (S, Fig. 13).
Stability of sickle bar mower 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:

\[
Z > (M \times s)-(0.2 \times T \times i) \quad \text{(d+i)}
\]

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:

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>Mass weighing on arms off hoist with full load (Technical data table)</td>
</tr>
<tr>
<td>T</td>
<td>Mass of tractor</td>
</tr>
<tr>
<td>Z</td>
<td>Total mass of ballast</td>
</tr>
<tr>
<td>i</td>
<td>Tractor wheelbase, that is, the horizontal distance between the tractor axles</td>
</tr>
<tr>
<td>d</td>
<td>Horizontal distance between the centre of gravity of the ballast and the front axle of the tractor</td>
</tr>
<tr>
<td>s</td>
<td>Horizontal distance between the centre of gravity of the operating machine and the back axle of the tractor</td>
</tr>
</tbody>
</table>

(please see Fig. 14 for reference):
INSTALLING

Parking instructions
• 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 sickle bar mower

The sickle bar must be set-up on flat and compact ground, supported by the relative supports (A and B, Fig. 15).

1. Raise sickle bar.
2. Put parking stand (A and B, Fig. 15) in the DOWN position: install spring locking pin in order to secure parking stand (C, Fig. 15).
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 shaft (, Fig. 16) from the tractor and put in on the special hook.
5. Remove quik-lock pin (D, Fig. 17) and pin (E, Fig. 17) from center link (F, Fig. 17).

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

6. Remove draft links (J, Fig. 17) from draft link brackets (G, Fig. 17) by removing quiklock pins (H, Fig. 17) and pins (I, Fig. 17).

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

7. Drive tractor forward slowly.
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 or 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 use are in perfect working order.
9) Before starting the equipment, check that 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. 15 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 adequate 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. 18).**

6) It is absolutely forbidden to stand in the space between the tractor and the equipment (Fig. 18) with the engine running.

7) The attaching of additional equipment onto the tractor brings about a different distribution of weight on the axles. Check the compatibility of the tractor performance with the weight that the mower transfers onto the three-point linkage. If in doubt consult the tractor Manufacturer.

8) Comply with the maximum admissible weight for the axle, the total mobile weight, transport regulations and the highway code.

**Wear appropriate clothing**

- 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.
Use of MECHANICAL lifting system (Fig. 19)

Adapting the sickle bar mower
To ensure optimum use, the sickle bar must completely project from the tractor (Fig. 20); three situations are shown in the Figure 21:
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.

Adjustment

- Remove safety hook (D, Fig. 22), 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. 22) 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 forward with respect to the arm base (Fig. 23).
- Using chain (F, Fig. 24), adjust the height of the sickle bar attachment with respect to the tractor. Attach the appropriate link to the special plate hole (G, Fig. 24).
Mark the link used so that the same position may be used each time the sickle bar is fitted to the tractor.

• Adjusting the hoisting chain (H, Fig. 25) so that during mowing the hoisting arm (I, Fig. 25) is free to move up and down; in this way, the cutting arm can follow any unevenness of the ground.

So that the mower will work well, we advise you to fix the chain (H Fig. 25) to the lifting arm (I Fig. 25) at the level of the 7th or 8th link of the chain.

• Adjust the height of the cutting arm from the ground with chain (J, Fig. 26). Lower the mower; when the external tip of the arm touches the ground, the inner shoe must remain approximately 10 cm. above ground level (Fig. 26). Adjust by moving the chain links.

So that the mower will work well, we advise you to fix the chain (J, Fig. 25-26) to the equalizer (L, Fig. 25-26), leaving the last links of the chain free.

• Adjust inclination of the cutting arm teeth using tie rod (M, Fig. 27).

• Adjust the cutting height (Fig. 28) by moving the mowing bar on the holes of the inner mowing bar support (N), and, turning the nut of the outer mowing bar support (M), bring it level with the ground.

Min. 1,2 inches
Max. 2,7 inches

Cod. G19502181
Mowing

• Remove the supports (P and Q, Fig. 29) and remount them, upside-down in their seat. Install spring locking pin in order to secure parking stand (R).

• Remove tie rod (S, Fig. 30) from the cutting arm and secure it in its seat.
• 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 separated, 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 easily, adjust spring (T, Fig. 31) using nut (U, 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.
ATTENTION
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.

CAUTION
• 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.

DANGER
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.
Use of HYDRAULIC lifting system (Fig. 32)

To install the hydraulic lifting kit of the mower, on versions with mechanical lifting, it is necessary to remove some parts of the equipment.

Figure 33 shows the parts that are to be removed from the equipment:
A - arm chain;
B - hinge chain;
C - lifting arm;
D - equalizer.

Take off the hinge chain (B) and the lifting arm (C).

Take off the equalizer (D) and the arm chain (A Fig. 34), removing and then putting back the safety hook linkage (E).
OPERATING - HYDRAULIC LIFTING SYSTEM
Adapting the sickle bar mower

To ensure optimum use, the sickle bar must completely project from the tractor (Fig. 35); three situations are shown in the Figure 36:

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. 37), the position of the stop bushing (C, Fig. 37) of the cylinder linkage must consequently be changed, according to the cases shown in figures 37 and 38.

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

- Remove safety hook (D, Fig. 39), 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. 39) 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 forward with respect to the arm base (Fig. 40).
- Using chain (F, Fig. 41), adjust the height of the sickle bar attachment with respect to the tractor. Attach the appropriate link to the special plate hole (G, Fig. 41). Mark the link used so that the same position 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. 42).

- Adjust the cutting height (Fig. 43) 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.
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. 45) in position (S1, Fig. 46) (under the cylinder rod), so that the cylinder bracket (T, Fig. 45) is released forwards towards position (T1, Fig. 46).

Climb into the tractor and operate the hydraulic distributor to lower the blade (U, Fig. 44) into the mowing position.

CAUTION: While working regularly check that the bracket (T) is still resting along the cylinder rod (Fig. 47).
**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 48. Lastly insert the lifting device as described in the previous paragraph.

With the rapid lifting device engaged, the bar (U, Fig. 49) has a negative inclination of -10° and a positive one of +16° (Fig. 50) 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. 51) 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. 51) of +30°, so that the end of field maneuvers can be carried out.
Mowing on slopes

Figures 52 and 53 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 Fig. 54 in order to improve the excursion and use of the sickle bar.

For mowing on sloping ground, disable the lifting (V) device as shown in Figure 55 and couple the lever (W) with tie rod (Z) and the rod (X) in position (Y) as shown in Figure 55.

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. 56).

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

The Quick Coupler must be used only with hydraulic lifting system.

1) Install hitch Quick Coupler (A, Fig. 57) 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 (A) is in range with the point hitches (B and C, Fig. 57).

3) Raise the Quick Coupler (A, Fig. 57) and make sure that sickle bar hitch is in the right position (E, Fig. 58).

CAUTION: Before you work around hitch:
- STOP engine.
- LOCK park brake.
- FIRMLY block mower on horizontal surface.

Removing sickle bar mower with Quick Coupler

1. Raise sickle bar.
2. Put parking stand (F and G, Fig. 59) in the DOWN position:
   install spring locking pin in order to secure parking stand (H, Fig. 59).
3. Lower sickle bar to the ground.
4. Raise the two Quick Coupler levers (D, Fig. 57) to unloch sickle bar.
5. Lower Quick Coupler till further free the sickle bar.
How to choose between sickle bars

<table>
<thead>
<tr>
<th>TYPE OF THE GROUND</th>
<th>TYPE OF THE FORAGE</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Dry and lignificated (gramineae)</td>
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<tr>
<td>Level</td>
<td>Normal DSS - SD/SD</td>
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<td></td>
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<tr>
<td>Hill</td>
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<td>Normal DSS - SD/SD</td>
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<tr>
<td></td>
<td>Stny field DSS - SD/SD</td>
</tr>
</tbody>
</table>

![Normal Section (SN)](image1)

![Self sharping double section (SD)](image2)

![Replaceable Normal tooth (DSS)](image3)
Practice safe maintenance

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

• 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.

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.

• 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.
SERVICE MACHINE SAFETY

• 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)

<table>
<thead>
<tr>
<th>Fine pitch screws (metric)</th>
<th>CLASS 6.6</th>
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<th>10.9</th>
<th>12.9</th>
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<td>301 (222)</td>
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<td>571 (421)</td>
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</table>

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 (A1, Fig. 60) and lock it in place with the screw (B). For transport put it in position (A2).
Lubrification

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.

Routine maintenance
• During the first working hours, check that the screws are tight (Fig. 71).

Every 8 work hours
• Grease points (A and B, Fig. 61).
• Grease the cardan shaft and its telescoping parts.
• Adjust belt tension periodically by adjusting nut (A, Fig. 62). 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. 63).

Periodically (6 months)
• Grease point (A and B, Fig. 61).

After each mowing
• 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.
Cleaning and oiling the sickle bar

**DANGER**
Cleaning and oiling are very dangerous operations. Always comply with the following instructions:
- 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;
- Brake the tractor and make sure it is unable to move;
- **Wash the sickle bar with a jet of pressurized water, standing at least one and a half meters away from the implement;**
- Switch off the tractor, remove the starter key and disengage the pto;
- Check the condition of the cutters;
- **When the mowing bar is dry, oil the cutters with very viscous oil;**
- Operate the sickle 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. 60)

Each start of season

At the start of each season it is important to check that the connection between the tooth-holding bar (D Fig. 61) and the blade guide (E) is correct. After many hours of work, wear of the blade guide material may be seen, and this will cause an increase in the coupling tolerance with the tooth blade. It is therefore advisable to restore the correct tolerance:
- unscrew the blade guide (Fig. 61);
- remove one or more shims (Fig. 62);
- put the blade guide back in the same position.

**IMPORTANT:** When replacing the teeth or the tooth-holding 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. 67).

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.
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. 70)
- With the implement resting on the ground, open the mowing bar.
- Remove the expansion pin (H, Fig. 68) and pull out the section-holding bar (Fig. 69) with the hooking tie rod (I Fig. 69).
- 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. 70)
- With the implement resting on the ground, open the mowing bar.
- Remove the expansion pin (H, Fig. 68) and slide out the section-holding bar (Fig. 69).
- Remove the damaged section using a pin punch (7 Fig. 4 on page 6).
- Rivet a new section with the rivets provided (J Fig. 70).
- Insert the section-holding bar and lock it in place with the expansion pin.

Replacement of tooth-holding bar (riveted) (N Fig. 70)
- With the implement resting on the ground, open the mowing bar.
- Remove the expansion pin (H, Fig. 68) and slide out the tooth-holding bar (Fig. 69).
- Insert the new tooth-holding bar and lock it in place with the expansion pin.

Replacement of tooth (riveted) (M Fig. 70)
- With the implement resting on the ground, open the mowing bar.
- Remove the expansion pin (H, Fig. 68) and slide out the tooth-holding bar (Fig. 69).
- Remove the damaged tooth using a pin punch.
- Rivet a new tooth with the rivets provided (M Fig. 70).
- Insert the tooth-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. 71).
• Remove all the teeth (Fig. 72).
• 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. 71).
• Slide out the tooth (Fig. 72), 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 (O, Fig. 73) and remove the protective casing.
• Loosen the belt tensioner completely (P, Fig. 73).
• 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 (O, Fig. 73).

Replacement of pulleys
Notes for replacement of pulleys, if necessary.
• Unscrew the screws (O, Fig. 73) and remove the protective casing.
• Loosen the belt tensioner completely (P, Fig. 73).
• Remove the belts.
To replace the driving pulley (Q, Fig. 74), turn it counterclockwise; vice versa, turn the driven pulley (R, Fig. 74) clockwise.
Transport on road

For transport, adjust and fix the chains of the side lifting arms of the tractor; lift the mowing bar (Fig. 75); secure it with the hooking tie rod (A, Fig. 76); slide in the safety hook (B, Fig. 76); cover the cutting blades and the outer mowing bar support with the guards provided (Fig. 77); 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 considerably, 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.
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 ID 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.

Dimensions and weight

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<tr>
<th>TYPE</th>
<th>A (mm - inch)</th>
<th>B (mm - inch)</th>
<th>C (mm - inch)</th>
<th>(kg - lb)</th>
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<td>700 - 27.5</td>
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<td>1200 - 2640</td>
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</table>
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) MECHANICAL LIFTING SYSTEM
8) HYDRAULIC LIFTING SYSTEM
Install the support on the third point linkage frame

Install the plate on the power take-off

Install the support on the third point linkage frame

Install the trip tie-rod on the third point linkage frame
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)

Connect the trip tie-rod to the rear frame
Sickle bar
Remove the protection and the supplementary blade. Withdraw the blades from the blade holder.

7.a

Remove the protection from the connecting rod system

7.b

Remove the blade holder expansion pins and securing screws

7.c

DANGER

CRUSHING AND PINCH POINTS MOVING MACHINERY PARTS CAN PINCH OR CRUSH OR FALL WHICH MAY CAUSE INJURY OR DEATH

KEEP AWAY SHARP BLADE - 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.
Remove the blade holder nuts and washers

Insert the blade holder vertically into the hinge guide

Two skilled people are required to perform this operation. (weight more than 55 lb - 25 Kg)

Insert the internal slide on the blade holder and secure it with the supplied screws, nuts and washers

7.d

7.e

7.f
Reinstall the blade-tooth and blade-coupling section on the blade holder.

Center the blade head with the hinge forks and insert the well lubricated expansion pins.

**DANGER**
CRUSHING AND PINCH POINTS
MOVING MACHINERY PARTS CAN PINCH OR CRUSH OR FALL WHICH MAY CAUSE INJURY OR DEATH.

Keep away from moving machinery parts.
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.

**7.g**

**7.h**
Reinstall the protection on the connecting rod

Install the grass guard bar

Install the moving guide and hazard bar
Do not tighten securing nut (A) on the moving guide completely: allow for proper movement of the guide.

Secure the stay on the moving guide
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.

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<table>
<thead>
<tr>
<th>Component</th>
<th>Code</th>
<th>Page</th>
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<tbody>
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<td>Frame</td>
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<td>Transmission</td>
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<td>Cutting blade (replaceable tooth)</td>
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<td>Hydraulic lifting system</td>
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SPARE PARTS

TAV. 951/12

NARROW ROADWAY

NORMAL ROADWAY
<table>
<thead>
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<th>Description</th>
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WARRANTY

GASPARDO 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 GASPARDO, 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 GASPARDO, a GASPARDO authorized dealer or distributor, and/or a GASPARDO 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 GASPARDO.

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.

GASPARDO 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.

GASPARDO’ obligation under this Warranty is limited to, at GASPARDO’ option, the repair or replacement, free of charge, of the product if GASPARDO, in its sole discretion, deems it to be defective or in noncompliance with this Warranty. The product must be returned to GASPARDO 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. GASPARDO shall complete such repair or replacement within a reasonable time after GASPARDO 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. GASPARDO MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND GASPARDO SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY AND/OR ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

GASPARDO 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, GASPARDO 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 GASPARDO’ ability to obtain materials or manufacture replacement parts.

No agent, representative, dealer, distributor, serviceperson, salesperson, or employee of any company, including without limitation, GASPARDO, its authorized dealers, distributors, and service centers, is authorized to alter, modify, 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 FOR REPLACEMENT PARTS

GASPARDO 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 GASPARDO, 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.

GASPARDO’s obligation under this Warranty is limited to, at GASPARDO’s option, the repair or replacement, free of charge, of the product if GASPARDO, in its sole discretion, deems it to be defective or in noncompliance with this Warranty. The product must be returned to GASPARDO 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. GASPARDO shall complete such repair or replacement within a reasonable time after GASPARDO 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. GASPARDO MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND GASPARDO SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY AND/OR ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

GASPARDO 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, GASPARDO 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 GASPARDO’s ability to obtain materials or manufacture replacement parts.

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

For warranty services contact your selling dealer.