ROTARY TILLERS
FMA125 - SERIES

OPERATOR'S & PART'S
MANUAL

Titan Implement LLC
Congratulations for purchasing your new TITAN IMPLEMENT rotary tiller!

This tiller has been designed and manufactured following all safety and quality requirements needed for a safe and satisfactory use over time.

A careful reading of this manual will permit you to familiarize with your new equipment, and will provide you with all the tools needed to use it safely.

A proper maintenance and knowledge of the safety rules of use will allow you to obtain the best performance and a long service life of the machine.

The Safety Alert Symbol used throughout this manual and on safety decals of the machine indicates the presence of potential hazard to the operator. When you see this symbol, be alert and carefully read the message that follows it.

The Safety Alert Symbol is used in conjunction with following Signal Words, according to the degree of possible injuries that may result from operating the implement:

- **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. It may also be used to alert against unsafe practices.

- **CAUTION**
  Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

- **IMPORTANT**
  Indicates instructions or procedures that, if not observed, can cause damage to equipment or environment.

- **NOTE**
  Indicates helpful information.

READ, UNDERSTAND, and FOLLOW the safety messages following the Safety Alert Symbol and Signal Words. Failure to comply with safety messages could result in serious bodily injury or death.
This manual contains valuable information about TITAN IMPLEMENT ROTARY TILLER. It has been carefully prepared to give you helpful suggestions for operating, adjusting, servicing repair parts.

Keep this manual in a convenient place for quick and easy reference. Study it carefully. You have purchased a dependable and sturdy tiller, but only by proper care and operation can you expect to get the service and long life designed and built into it.

RIGHT-HAND AND LEFT-HAND sides are determined by watching from the tractor side.

Sometime in the future your tiller may need new parts to replace those are worn or broken. If so, go to nearest TITAN IMPLEMENT dealer and provide him the model and part number.

Customer information

Name ____________________________________________________________

Purchased from __________________________________________________

Purchased date _________________________________________________

Model No. _______________________________________________________

Serial No. ______________________________________________________
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1. ABOUT THIS MANUAL

The operator must read the manual for a correct understanding of the hazards that may present when operating the tiller, as well as for obtain optimum performance from the machine.

The manual is part of the machine, it must be kept in good condition and remain with the machine even in case of resale, until its demolition. In case of loss or damage, request a new copy to the Manufacturer or your Dealer.

The information, descriptions and illustrations in this manual describes the state of the product at the time of its publication, and may not reflect the product in the future.

The Manufacturer reserve the right to make design improvements or changes in specifications without incurring in any obligation to install them on units previously sold.

Text, illustrations and drawings of this manual cannot be disclosed or transmitted, in whole or in part, to third parties without the written permission of the Manufacturer. All rights are reserved.

2. INTRODUCTION

2.1. TILLER IDENTIFICATION

Each tiller has a plate for unique identification. Any request for assistance or information regarding the machine must be directed to the Manufacturer or Dealer always referring to the model and serial number on the nameplate affixed to the machine:

2.2. INTENDED USE

The FMA125-Series tillers are designed to be used uniquely for horticultural, agricultural, or commercial applications, to till soil for seedbed and planting preparation.

They are designed to be mounted on tractors equipped with hydraulic lift and universal three point hitch that can support the implement weight, and driven by the power of the tractor through the PTO driveshaft.

The tractors used to operate the FMA125-Series tillers must have the following requirements:

Hitch Category: 3-point Cat. I standard.
PTO: 540 RPM, 6-spline, 1 3/8 Z6
Horsepower: As per given in Technical Specification Sheet

**DANGER**
Any use of the machine other than the intended use is non-intended use, and is to be considered as unauthorized and dangerous. The manufacturer assumes no liability for damage resulting from non-intended use.

### 2.3. MAIN PARTS DESCRIPTION

1. Tiller deck
2. Clevis (lower hitch)
3. Lower hitch pin
4. Upper hitch pin
5. Topmast
6. Implement input connection (tiller PTO)
7. Gearbox
8. Side transmission case
9. Rear board
10. Rotor shaft
11. Tine
12. Parking stand
13. Skid
14. Cardan driveshaft
15. PTO Guard
16. Driveshaft Support

**NOTE**
Unless otherwise indicated, images shown in this manual refer to the tiller model wise.
## 2.4. TILLER SPECIFICATIONS

<table>
<thead>
<tr>
<th>TILLER MODEL</th>
<th>2004</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Overall dimensions</strong> mm</td>
<td>1545 x 882 x 687</td>
</tr>
<tr>
<td><strong>Tilling width</strong> in</td>
<td>49&quot;</td>
</tr>
<tr>
<td><strong>cm</strong></td>
<td>125</td>
</tr>
<tr>
<td><strong>Recommended Tractor HP range</strong> HP</td>
<td>20-25</td>
</tr>
<tr>
<td><strong>3-point Hitch type</strong></td>
<td>Cat. I</td>
</tr>
<tr>
<td><strong>Frame off-set</strong> in</td>
<td>-</td>
</tr>
<tr>
<td><strong>Number of Flanges on Rotor</strong> No.</td>
<td>6</td>
</tr>
<tr>
<td><strong>Number of tines per Flange</strong> No.</td>
<td>4</td>
</tr>
<tr>
<td><strong>PTO Input speed</strong> rpm</td>
<td>540</td>
</tr>
<tr>
<td><strong>Rotor Shaft Speed rpm @540</strong></td>
<td>230</td>
</tr>
<tr>
<td><strong>Standard Tine Construction</strong></td>
<td>curved</td>
</tr>
<tr>
<td><strong>Transmission type</strong></td>
<td>Chain</td>
</tr>
<tr>
<td><strong>Max Working depth</strong> cm</td>
<td>12</td>
</tr>
<tr>
<td><strong>Rotor tube diameter</strong> mm</td>
<td>52</td>
</tr>
<tr>
<td><strong>Rotor Swing Diameter</strong> mm</td>
<td>386</td>
</tr>
<tr>
<td><strong>Driveline safety device</strong></td>
<td>slip clutch</td>
</tr>
<tr>
<td><strong>Weight (driveline excluded) lbs</strong></td>
<td>297</td>
</tr>
<tr>
<td><strong>Kg.</strong></td>
<td>135</td>
</tr>
</tbody>
</table>
3. SAFETY

Proper use of equipment, a strict observance of the safety messages listed below and application of all reasonable practices to avoid any risks, prevents accidents or injury, allows the machine working better and longer, and minimize the failures. The manufacturer assumes no liability for any damage resulting from not applying the behavioral rules indicated into the manual.

3.1. GENERAL SAFETY INSTRUCTION

⚠️ DANGER
The machine must be used only by authorized and well trained operators. The operator must have read and understood the instructions of this manual, it must make adequate preparation for the proper use of the machine and must hold a driving license. In case of doubt about the use of the machine and/or the interpretation of this manual, the operator must contact the Manufacturer or the Dealer.

⚠️ WARNING
The manual must always remain with the machine. In case of loss or damage, request a new copy to the Manufacturer or your Dealer.

⚠️ WARNING
Follow strictly the rules prescribed by the safety pictograms applied to the machine.

⚠️ WARNING
Be sure that all safety pictograms are legible. If pictograms are worn, they must be replaced with others obtained from the Manufacturer, and placed in the position indicated by this manual.

⚠️ DANGER
Before using the machine, make sure that all safety devices are installed and in good working conditions. In case of damages of shields, replace them immediately.

⚠️ DANGER
Is absolutely forbidden to remove or alter safety devices.

⚠️ DANGER
Before starting, and during operation of the tiller, make sure there are no people or animals in the operation area: the machine can project material from the back, with risks of serious injury or death.

⚠️ DANGER
Pay maximum attention to avoid any accidental contact with rotating parts of the machine.

⚠️ DANGER
During operation, adjustment, maintenance, repairing or transportation of the machine, the operator must always use appropriate Personal Protective Equipment (PPE).

⚠️ DANGER
Do not operate the implement while wearing loose fitting clothing that can give rise to entanglement in parts of the machine.
FMA125-Series Rotary Tillers

⚠️ DANGER
Do not operate the implement when tired, not in good condition or under the influence of alcohol or drugs.

⚠️ CAUTION
If the use of the machine is required at night or in conditions of reduced visibility, use the lighting system of the tractor and possibly an auxiliary lighting system.

3.2. EQUIPMENT SAFETY INSTRUCTIONS

⚠️ WARNING
Use the tiller for its intended purpose only. Improper use can damage the tiller and cause serious injury to persons, animals, or death.

⚠️ DANGER
The machine should be used by a single operator driving the tractor.

⚠️ WARNING
Any unauthorized modification of the machine may cause problems in safety and relieves the Manufacturer from any liability for damages or injuries that may result to operators, third parties and objects.

⚠️ WARNING
Before using the machine, familiarize yourself with its controls and its working capacity.

⚠️ WARNING
Do not leave the tiller unattended with tractor engine running.

⚠️ WARNING
Do not operate tiller on too muddy, sandy or rocky soils.

⚠️ WARNING
Keep the machine clean from debris and foreign objects which may damage functioning or cause injury.

⚠️ WARNING
Do not use the machine if the category of the connecting pins of the tiller does not match that of the tractor hitch system.

⚠️ WARNING
Do not use the machine with missing bolts, screws, pins or safety pins.

⚠️ WARNING
Never use the machine to transport or lift people, animals or objects.

⚠️ WARNING
Make certain, by adding front ballast, that at least 20% of the total weight (tractor, implement and ballast) is on the front axle of the tractor, to ensure stability.
**WARNING**
Before engaging the tractor PTO, make sure the tractor PTO speed is set as required for the tiller (540 rpm). Do not over speed PTO or machine breakage may result.

**DANGER**
Do not operate the tiller if the driveshaft is damaged. The driveshaft could be subject to breakage during operation, causing serious injury or death. Remove the driveshaft and replace it with an undamaged.

### 3.3. OPERATING SAFETY INSTRUCTIONS

**WARNING**
Before using the machine, be sure to have cleared the operating area from obstacles (stones, branches, debris, etc...). Mark all the obstacles that cannot be eliminated (e.g. by means flags).

**DANGER**
Never engage the tractor PTO in the presence of people close to the driveshaft. The body, hair or clothing of a person can get caught in rotating parts, causing serious injury or death.

**DANGER**
Before engaging the PTO and during all operations, make sure that no person or animal is in immediate area of action of the machine. Never use the tiller if people are in his working area.

**DANGER**
It's absolutely forbidden to stand near the tiller with moving parts.

**WARNING**
The operator must operate tiller lifting/lowering only from the driving seat of the tractor. Do not perform lifting maneuvers on side or behind the tractor.

**WARNING**
Before making changes in direction, turns or going in reverse, slightly lift the tiller from the ground after disengaging the power take-off, to avoid damage to the machine.

**DANGER**
In presence of steep slopes (greater than 15 degrees) the tilling action may cause instability of the tractor, with risk of tipping and consequent serious injury or death hazard. Consult the manual for the tractor to determine the maximum slope that the tractor is able to deal with.

**DANGER**
Always disengage the PTO before raising the tiller, and never engage the PTO with the tiller in the raised position. The machine might throw objects at high speed, causing serious injury or death.

**WARNING**
Never leave the driver's seat when the tractor is turned on. Before leaving the tractor, lower the tiller to the ground, disengage the PTO, insert the parking brake, stop engine and remove the key from the control panel.

**DANGER**
The PTO shields of tractor and implement side, the driveshaft shielding and the driveshaft retaining chains must be properly installed and in good condition, to avoid risk of entanglement with serious injury or death.

⚠️ DANGER
Before engaging the PTO of the tractor, always make sure that the drive shaft is mounted in the correct direction, and that its clamping elements are properly connected both to tractor side and to tiller side.

⚠️ WARNING
Stop operating immediately if blades strike a foreign object. Repair all damage and make certain rotor and blades are in good condition before resuming operation.

⚠️ WARNING
Always disengage the tractor PTO when the driveshaft exceed an angle of 10 degrees up or down while operating. An excessive angle with driveshaft rotating can break the driveshaft and cause flying projectiles.

⚠️ CAUTION
Avoid clutch's overheating caused by too long or frequent slipping of the clutch, since it can damage the clutch components. Before checking slip clutch, make sure it has cooled. Clutch could be extremely hot and cause severe burn.

⚠️ CAUTION
Prolonged use of the tiller can cause overheating of the gearbox. Do not touch the gearbox during use and immediately after, it could be extremely hot and cause severe burn.

⚠️ WARNING
All adjustment operations on the tiller must be performed by qualified and trained operators, with the tractor engine off, the PTO disengaged, the tiller lowered to the ground or on security stands, the ignition key off and the parking brake set.

### 3.4. TRANSPORTING SAFETY INSTRUCTIONS

⚠️ WARNING
Before transporting, determine the stopping characteristics of the tractor and implement.

⚠️ WARNING
Transport only at speeds where you can maintain control of the equipment.

⚠️ WARNING
When driving on roads, the implement must be in transport position adequately raised from the road surface, with tractor lifting hydraulics locked so that the tiller cannot be lowered accidentally.

⚠️ DANGER
The implement may be wider than the tractor. Pay attention during transporting to persons, animals or obstacles exposed.
WARNING
When turning, use extreme care and reduce tractor speed.

WARNING
Do not operate the tractor with weak or faulty brakes or worn tires.

CAUTION
Always use tractor lighting system and auxiliary lighting system for an adequate warning to operators of other vehicles, especially when transporting at night or in conditions of reduced visibility.

DANGER
In case of tiller lifting, make sure that the lifting device chosen is suitable to perform the operation safely, and use only the lifting points prescribed on tiller.

3.5. MAINTENANCE SAFETY INSTRUCTIONS

WARNING
All maintenance and repairing operations must be performed by qualified and trained operators, with the tractor engine off, the PTO disengaged, the tiller lowered to the ground or on security stands, the ignition key off and the parking brake set.

WARNING
Perform repairs and replacements necessary to the machine using only original spare parts provided by the manufacturer or your dealer.

DANGER
Perform maintenance operations always using appropriate Personal Protective Equipment (protective eye glasses, hard hat, hearing protection, safety shoes, overall and work gloves, filter mask).

CAUTION
Before any maintenance operation, make sure that the parts which may become hot during use (friction clutch, gear box...) have cooled.

WARN4435G
Do not perform repairs that you do not know. Always follow the manual instructions and in case of doubt contact the Manufacturer or your dealer.

DANGER
Do not swallow fuels or lubricants. In case of accidental contact with eyes, rinse well with water and consult a doctor.

3.6. STORAGE SAFETY INSTRUCTIONS

WARNING
Never leave the tractor unattended with the tiller in lifted position. Accidental operation of lifting lever or a hydraulic failure may cause sudden drop of unit with injury or death by crushing.

DANGER
Following operation, or before unhooking the tiller, stop the tractor, set the brakes, disengage the PTO, lower the attached tiller to the ground, shut off the engine, remove the ignition key and wait for all moving parts to stop.

⚠️ **WARNING**  
Make sure all parked machines are on a hard, level surface and engage all safety devices.

⚠️ **CAUTION**  
Place support blocks under tiller as needed to prevent unit from tipping over onto a child and/or an adult. A tiller that tips over can result in injury or death.

⚠️ **CAUTION**  
Store the unit in an area away from human activity.

### 3.7. SAFETY LABELS

The safety labels applied on the machine give fundamental information for using the machine safely.

Make sure safety labels are in good conditions. If pictograms are worn, they must be replaced with others obtained from the manufacturer and placed in the position indicated by this manual.

Make sure the safety labels are legible. If necessary, wipe them by a cloth, with soap and water.

**Safety Labels position and description**
FMA125-Series Rotary Tillers

<table>
<thead>
<tr>
<th>Sr. NO.</th>
<th>SPARE CODE</th>
<th>DESCRIPTION</th>
<th>DECALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>D1090</td>
<td>WARNING: ALWAYS READ THE OPERATOR MANUAL</td>
<td>![Warning Icon]</td>
</tr>
<tr>
<td>2</td>
<td>D1038</td>
<td>MAINTENANCE: TURN OFF TRACTOR &amp; REMOVE KEY</td>
<td>![Warning Icon]</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>D1095</td>
<td>THROWN OR FLYING OBJECTS HAZARD</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>D1096</td>
<td>ROTATING KNIVES, LOWER LIMBS HAZARD</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>D1078</td>
<td>HAND HAZARD</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>D1079</td>
<td>ROTATING GEARS</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>D1097</td>
<td>CRUSHING HAZARD BY LINK LIFTING</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>D1098</td>
<td>IMPLEMENT INPUT DRIVELINE</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>D1099</td>
<td>TRACTOR PTO RPM &amp; ROTATION DIRECTION</td>
<td></td>
</tr>
<tr>
<td>No.</td>
<td>Code</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>-----</td>
<td>--------</td>
<td>--------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>D1122</td>
<td>FINGERS/HANDS CRUSHING HAZARD</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>D1082</td>
<td>SAFETY EQUIPMENT</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>D1007</td>
<td>OIL FILLING PLUG – NEW</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>D1008</td>
<td>GREASE – NEW</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>D1009</td>
<td>OIL DRAIN PLUG</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>D1006</td>
<td>MAINTAIN OIL LEVEL</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>D1083</td>
<td>LIFTING HOOK JOINT</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>D1108</td>
<td>CE LOGO</td>
<td></td>
</tr>
</tbody>
</table>
4. SET UP

The tiller is delivered fully assembled and equipped with a driveshaft with torque limiter (clutch discs) and related operating manual.

When the machine is delivered, check that there is no damage to the tiller or driveshaft. In case of damage or missing parts immediately notify the manufacturer or your dealer.

4.1. CONNECTING TO THE TRACTOR

To connect the tiller to the tractor the operator must do the following:

- drive the tractor in reverse, up to align the rear lifting arms to lower hitches of the tiller in parking;

- set the tractor's parking brake, stop engine, remove the ignition key and get off the tractor;

- connect the lifting arms of the tractor to the lower hitches of the tiller, through the use of the pins and the relative safety split pins;

- raise the tiller until PTOs of tractor and machine are at the same height, then adjust the 3-point top link so that the front of the machine is leveled to the back (the axis of the tiller PTO must be parallel to the ground), in order to limit stress transmitted to the tiller through the cardan shaft;

- make sure that left side of the tiller is leveled with the right, by adjusting the tractor lifting arms, then lock the arms to prevent swinging that could compromise the stability of tractor and machine;

- finally adjust the parking stand, placing it at the highest point by means of the related elastic pin.
4.2. DRIVELINE INSTALLATION

Before installing the driveshaft, the operator must read the manuals of driveshaft and tractor, checking in particular that rpm and direction of rotation of the tractor PTO match those of the tiller.

If the direction of rotation of the PTO tractor does not match that of the tiller, contact the manufacturer or your dealer.

To connect the driveshaft to the tractor and implement, the operator must:

- park tractor and tiller on a flat surface, with parking brake set, engine off, and ignition key removed;
- check that safety devices of driveshaft, tiller and tractor are in good condition, otherwise provide for their replacement;
- remove the PTO shield of the tiller through the fixing screws;
- position the driveshaft with clutch turned towards the implement side;
- insert the clutch hub on the tiller PTO, then ensure its tightening onto shaft through its fastener;
- replace the PTO shield of the tiller through the fixing screws;
- insert the driveshaft yoke on the tractor PTO, then ensure its tightening onto shaft through its fastener;
- hook to the tractor and tiller the two retaining chains of the the driveline shielding, to prevent shielding rotation during functioning of the machine.

Driveline Length Check

Before operating the tiller, ensure that the size of driveshaft is adequate. The driveshaft supplied with the machine has a standard length, therefore it may need an adaptation of the length, depending of the tractor which the tiller is combined.

The length of the driveshaft must be such to:

- avoid bottom out of the transmission tubes, when the driveshaft is in compressed position (when tiller is raised up off the ground);
- ensure an overlapping of the transmission tubes enough to transmit the torque required, when the driveshaft is in max extension (when tiller is in its lowest position in the ground).

When the driveshaft is at its minimum length (max compressed position), there must be at least a 2 cm of distance between the ends of each transmission tube and the yokes side.

When the driveshaft is at its maximum operational extension, there must be an overlap between the tubes profiles of 15 cm at least.
A driveshaft too long may cause structural damages to the tractor and machine. If the driveshaft is too long, it may be adapted by removing it and shortening the tubes according to the instructions provided by the manufacturer in its use and maintenance manual.

A driveshaft too short can cause disengage of the tubes during operation, with severe hazard for the operator and structural damage to the tractor and machine. If the driveshaft is too short, it must be replaced with a longer one. In this case contact the manufacturer or your dealer.

**IMPORTANT**

- before operating the tiller the first time, make sure that the driveshaft is lubricated in accordance with how indicated in the instruction booklet;
- before operating the tiller the first time, and after long periods of inactivity, make sure that the driveline clutch has run a short "run in" in accordance with what indicated in the instruction manual of the manufacturer, removing the possible oxidation of the components that may compromise the correct slipping during the usage (see also section "Maintenance");
- always engage the tractor PTO at low rpm to minimize the effect of the peak torque on the driveline and the machine.

### 4.3. TRACTOR-TILLER STABILITY

The weight of the machine modifies the stability of the system tractor-tiller, resulting in loss of steering control and braking.

The front axle of the tractor should always loaded with at least 20% of the overall weight of the system tractor-tiller.

1) \[ M \times (S1+S2) \leq 0.2 \times T \times i + Z \times (d+i) \]

2) \[ M \leq 0.3T \]

Consequently, the minimum ballast required is:

\[ Z_{min} = \frac{(M \times (S1+S2) - 0.2 \times T \times i)}{(d+i)}. \]

To determine the appropriate characteristics of the ballast, refer to the manual of the tractor.
i=Tractor wheelbase (cm)  
\(d=\)Distance between front axle and ballast center of mass (cm)  
\(T=\)Weight of tractor + operator (75 kg)  
\(Z=\)Ballast weight (kg)  
\(M=\)Tiller weight + roller weight (if included) (kg)  
\(S1=\)Distance between rear axle and lower hitch points (cm)  
\(S2=\)Distance between lower hitch points and implement center of mass = 33 cm

If the tiller is combined with other machines (fertilizers spreaders or seeders), the ballast check must be done considering:

\[M = \text{total weight of the implements (tiller+roller+spreader/seeder)}\]
\[S2 = \text{Distance between lower hitch points and center of mass of implements (tiller+roller+spreader/seeder)}\]

**CAUTION**  
Check the lifting capacity and stability of the tractor and, if necessary, applying the front ballast. To determine the appropriate characteristics of the ballast, refer to the manual of the tractor.

### 5. OPERATING

Before operate the tiller, make sure you have read and understood the operating manuals of the tiller, tractor and PTO shaft, and followed what is described in the section "Set Up".

**DANGER**  
During operation, adjustment, maintenance, repairing or transportation of the machine, the operator must always use appropriate Personal Protective Equipment (PPE).

Before starting work, ensure that all machine guards are in good conditions and fully functional.

During operation, the machine can throw material from the back: prevent people and animals to approach the operational area.
5.1. START UP

Before the start up and before each use, perform the following pre-operation inspections and service of the implement:

- check that the tiller has not damaged functional parts and has all mechanical parts in good condition. Repair and / or replace the damaged parts;
- check that the tiller has no missing parts (pins, safety pins, plugs oil ...). Restore the missing parts;
- check that all guards and safety devices have no damages and are properly positioned. Repair and / or replace the damaged shielding, restore the correct position;
- verify that the PTO driveshaft is properly installed (see section: Connection of the drive shaft);
- check that the driveshaft clutch is in good condition, and that its components are not subject to "sticking" (see section: Maintenance / Driveline);
- check the presence of lubricant in all greasing points of the tiller (driveshaft, supports...) (see sect. Maintenance / Driveline and Maintenance / Support rotor);
- check for oil leaks from the gearbox or the transmission side cover. Identify the reason of loss, then repair and / or replace the damaged components;
- check the correct oil level in the gearbox and in transmission side box (see section maintenance);
- check that blades are not excessively worn and the relating hardware is correctly tightened (see sect. Maintenance);
- check that all the tiller hardware is properly tightened. Refer to the tightening table in the manual for proper torque values;
- check that all safety decals are correctly positioned, in good condition and legible. Replace any damaged decals;
- check that there is no constraints that may prevent the movement of equipment. Remove any constraint.

Before the start up and before each use, make the following checks on the operating area identified for tillage:

- check that area is clear of foreign objects (rocks, branches or debris). Remove any obstacle and visibly highlight obstacles that cannot be eliminated (e.g. by means flags);
- make sure in the working area exposed there are no people or animals;
- make sure the soil to be worked is not too grassy, muddy, sandy or rocky.

⚠️ WARNING

Before conducting the above inspections and service, make sure the tractor engine is off, all rotation parts are completely stopped and the tractor is in park with the parking brake engaged. Make sure the tiller is resting on the ground or securely blocked up and the tractor lifting hydraulics locked.

Once all the checks above have been done, start tractor and the tiller as follows:

- start the tractor and engage the tractor PTO at low rpm, making sure that the tiller is NOT in the raised position but close to the ground, then increase speed engine until to 540 rpm;
- lower the tiller on the ground and simultaneously start driving the tractor at low speed. Subsequently increase the ground speed depending on ground conditions;
If the environmental temperature is very cold, it's recommended to wait a few minutes with the PTO of the tractor at low rate before lowering the tiller completely on the ground;

drive for a while operating the tiller, then stop the tractor to check the quality of the work performed. If you need to get off the tractor, lift the tiller just out of the ground, reduce engine speed and disengage PTO, set the parking brake, stop engine and remove the ignition key;

If the working depth and/or soil texture are not as desired, correct them by adjusting the skids and/or the rear cover (see section Adjustments).

5.2. OPERATING INSTRUCTIONS

During operations: OPERATE ACCORDING TO FOLLOWING INSTRUCTION

always keep the tractor engine at rpm rate ensuring to the tiller the right power required for the use;

always keep a tractor speed adequate to conditions of the soil to be worked (from 2 to 10 km / h approx.). Reduce speed in the case of hard or stony soils;

choose a driving pattern that provides the maximum pass length and minimizes turning;

when working in the hills, if you can do "climbing" in the sense of the slope, in any case do not work along the hillside, making the steps from top to bottom to reduce the terrace. Where possible always try to «work up» the slope. If this is not possible avoid hoeing along the contours of the hill and hoe up and down the slope to avoid a terracing effect;

always perform changes and reverse of direction with PTO disengaged and the tiller slightly lifted from the ground to avoid damage to the machine;

periodically check for foreign objects wrapped around the rotor shaft and remove them, after disengaging PTO, turning off tractor engine, and removing ignition key;

if the blades strike a foreign object, or in case of prolonged intervention of the clutch due to an object wedged into the rotor, stop operating immediately, idle the engine speed and disengage the PTO. Wait for stopping of all rotating parts, then raise the implement and proceed to removing the object, after stopped the tractor, set the parking brake, stopped engine and removed the ignition key. Repair any damages immediately, and make sure rotor and blades are in good condition before restarting operation;

avoid friction clutch overheating caused by too long or too frequent slipping of the clutch, since this can damage the friction plates and clutch parts.

Typical problems that may occur operating the tiller are described into Troubleshooting section, together with their solutions.

5.3. ADJUSTMENTS

WARNING

All adjustment operations must be performed with the tractor engine off, the PTO disengaged, the tiller lowered to the ground or on security stands, the parking brake set and the ignition key off.

FRICITION CLUTCH ADJUSTMENT

The PTO driveshaft and friction clutch are designed to transmit adequate power to the tiller.

The clutch preserves the machine from overloads, through the slipping of friction discs, and limits the max torque transmissible to a calibrated value set at factory. It is recommended, therefore, to leave unchanged this value to avoid damages to the machine or to driveshaft.
An adjustment can be done, however, when the clutch slipping is too frequent, which means that the calibration is too low.

In this case, the tightening of nuts over the compressed springs will give an increase in torque transmissible.

On the contrary, a loosening of the nuts over the springs will give a decrease in torque transmissible.

**IMPORTANT**

For details about clutch adjustment, refer to the user manual of the manufacturer of the driveshaft installed.

The manufacturer is not liable for damages resulting from a wrong modification of the clutch calibration.

**NOTE**

Excessive tightening of the springs can prevent the clutch from slipping and to protect the machine from overload.

Make sure that the height of all the compressed springs is equal to prevent clutch malfunctioning.

**SKIDS ADJUSTMENT**

The working depth of the tiller is determined by the position of the side skids: it may be increased by raising the skids, and decreased by lowered them. It's important that both skids are adjusted at the same height.

To adjust the working depth, perform the following steps:

- lift the machine, put it safely on security stands, then switch the tractor engine off, disengage PTO, set parking brake and off the ignition key;
- loosen the in the front of the skid (bolt 1 - see picture);
- unscrew and remove the bolt on the rear of the skid (bolt 2 - see picture);
- adjust the height of the skid through the holes, as desired;
- reinstall the bolt 2 (refer to the tightening table of this manual for proper torque values);
- tighten the bolt 1 (refer to the tightening table of this manual for proper torque value).
When finished, verify that both skids are at same level, and check if the front of the tiller is leveled
to the back, when lowered to the ground. Adjust with the 3-point top link if necessary.

**REAR BOARDADJUSTMENT**

The FMA125-Series tillers are equipped with a rear board with chain.

The position of the rear board is adjustable by varying the number of chain links included between
distance XY, which remain tensioned under the weight of the board (i.e. links between the rear
board hole 1 and the slot of the frame 2).
• to raise the rear board, reduce the number of chain links in tension. This operation, together
with the increase of the tractor ground speed, allows to have a coarser soil texture;
• to lower the rear board, increase the number of chain links in tension. This operation, together
with the reduction of the ground speed, allows to have a finer soil texture.

WARNING
To avoid the risk of crushing or cutting of fingers, raise or lower the rear board only from the lower
edge, not from the sides.

5.4. STOPPING AND DISCONNECTION

To stop the tiller at the end of a working session:
• bring the tractor to a complete stop;
• place the transmission in park or neutral;
• reduce the engine speed, then disengage the PTO;
• wait for stopping of all rotating parts;
• lower the implement to the ground;
• set the parking brake;
• shut down the engine and remove the key before exiting the tractor;
• do the cleaning and maintenance required to make the machine ready for later use (see Section
Maintenance).

WARNING
Never leave the tractor unattended with the implement in the lifted position.

To disconnect the tiller from the tractor (e.g. to make a change of implement):
• adjust the skids to their lowest position (see Section Adjustments);
• adjust the parking stand to the lowest position, through the use of relative retaining pin;
• park the tractor on a dry and level surface;
• reduce the engine speed, then disengage PTO;
• wait for stopping of all rotating parts;
• lower the implement to the ground;
• set the parking brake;
• shut down the engine and remove the key before exiting the tractor;
• place safety blocks under tiller to prevent unit from tipping over onto a child and/or an adult. A
tiller that tips over can result in injury or death;
• disconnect the driveline from the tractor PTO and rest it on the provided support of the tiller;
• disconnect the top link and rear lifting arms of the tractor from the tiller hitches;
• check the tiller stability. If needed, place additional safety blocks;
• get on the tractor, start the engine and move away from the tiller slowly;
• make sure the tiller remains stored in a protected area, to prevent that unauthorized personnel
can approach it.
Before a long term storage (e.g. at seasonal end), do cleaning and maintenance operations as specified in Sections MAINTENANCE and STORAGE.

5.5. TRANSPORTING

To set the tiller for transportation, perform the following steps:

- idle tractor engine, disengage tractor PTO, and wait for stopping of all rotating parts;
- lift the tiller until the transport position, making sure the driveline transmission tubes does not contact tractor or tiller. A minimum gap of 2 cm should be leaved between the tubes and tractor and tiller (see also Section Driveline installation);
- lock the tractor lifting hydraulics, turn off the engine, set the parking brake, remove ignition key and get off the tractor;
- adjust the parking stand to the highest position, through the use of relative retaining pin, to prevent its possible damage during transport.

When driving on public roads, follow strictly all local laws and traffic regulations.

**WARNING**
When driving on public roads, reduce your speed, be aware of traffic around you and proceed in such a way that faster moving vehicles may pass you safely.

6. MAINTENANCE

Proper and regular maintenance ensures a long life of the equipment, avoids failures and saves time and repair costs.

Periodic inspections and maintenance operations described in this section must be performed by operator in the times and terms prescribed. Failure to comply with maintenance prescriptions can compromise the functioning and duration of the machine, and consequently invalidate the warranty.

The frequency of maintenance indicated refers to normal conditions of use: it must be intensified in severe operating conditions (frequent stops and starts, prolonged winter season etc ...).

Repairs, maintenance and modifications other than those mentioned in this paragraph should NOT be performed without consulting the manufacturer or your dealer. Manufacturer, as the case, may give the authorization to proceed with the repair together with all necessary instructions.

Wrong or inappropriate repairs or maintenance may generate abnormal operating conditions, equipment damage and generate risks for the operator.

**WARNING**
For safety reasons, all maintenance operations must be performed with tractor PTO disengaged, tiller stopped and completely lowered to the ground or onto support blocks, parking brake set, tractor engine shut off, and ignition key removed.

**IMPORTANT**
Respect the environment. Store or dispose of unused chemicals as specified by the chemical manufacturer.

6.1. BLADES REPLACEMENT

Frequently check the wear condition of blades through visual inspection. The wear of blades is very variable depending on the type of soil.
Replacement of the blades is necessary when the operator notices increase of power absorption during tilling, or when the blade dimension is significantly reduced compared to the original.

The use of the machine with blades in bad condition compromises the quality of work.

Before perform replacement of the blades:

- idle tractor engine, set the parking brake, disengage tractor PTO, and wait for all moving parts to come to a complete stop;
- place the tiller slightly lifted from the ground on safety blocks or mechanical stands;
- lock the control lever of the hydraulic lift of the tractor;
- turn off the tractor and remove the key.

To perform the replacement of blades:

- remove the two bolts and washers clamping the blade to the rotor flange, then remove the blade;
- position the new blade exactly instead of the worn blade, then tighten the bolts, referring to the tightening table of this manual for proper torque values. Be sure to install the blade with cutting edge in front of the direction of rotation;
- repeat the same procedure for all the other blades.

At the end of the replacement, make sure the blades have the right helical arrangement, as shown in the figure:

![Diagram showing the correct orientation of the blades](image)

Periodically check the tightness of screws and nuts, and tighten if necessary.

**IMPORTANT**

Remove and install one blade at a time to ensure blades are correctly oriented when installed.

Replace worn blades only with original parts.

**CAUTION**

Worn tines may be very sharp!
6.2. GEARBOX LUBRICATION

Lubricant: SAE EP 140 gear oil
Check the oil level every 50 hours.

If the sign is below the minimum, fill up oil till restore the correct level.
The oil change must be performed:
- after the first 50 working hours;
- each 200 working hours.
To make the oil change:
- place a tank under the oil drain plug (bottom of gearbox);
- unscrew the oil drain plug and drain oil completely into the tank;
- retighten the drain plug;
- unscrew the oil filling plug;
- fill up oil till restoring the correct level (between the two reference dipstick marks);
- retighten the filling plug;
- dispose the discharged oil into containers for used oil.

⚠️ CAUTION
Before touching the gearbox wait until it has cooled sufficiently.

**IMPORTANT**
Frequently check possible oil leaks from tiller through visual inspection, and in case of leakage provide immediately proper maintenance.
Avoid oil leaks on the ground when restoring oil level or making oil change.
6.3. SIDE CASE LUBRICATION

Lubricant: SAE EP 140 gear oil

Check the oil level every 50 hours, making sure it reaches the level plug on the transmission cover. If the oil is below this level, fill up oil till restore the level. The oil change must be performed every 200 working hours.

To make the oil change:
- remove the skid from the transmission side;
- place a tank under the oil level plug;
- unscrew the oil level plug and drain completely the oil into the tank;
- retighten the level plug;
- unscrew the oil filling plug (top of transmission cover);
- fill up oil till restoring the correct level (until level plug);
- retighten the filling plug;
- replace the side skid;
- dispose the discharged oil into containers for used oil.

6.4. BEARING HOUSING LUBRICATION

Lubricant: SAE multi-purpose lithium-type grease

Grease the rotor hub supports every 8 working, through a suitable grease gun.
**IMPORTANT**
Make sure to clean the fitting zerk before using grease gun.
Do not let excess grease collect on or around parts, particularly when operating in sandy areas.

6.5. **DRIVESHAFT MAINTENANCE**
Lubricant: SAE multi-purpose lithium-type grease
Grease crosses, sliding parts of protective shielding and driveshaft transmission tubes.
IMPORTANT
For details about maintenance and lubrication of the driveshaft, refer to the user manual of the driveshaft manufacturer.

Driveshaft clutch:
Exposition to the elements of tiller and driveshaft, or a long period of inactivity, generally results in oxidation of some clutch components, and creates "sticking" effect on the clutch.

Consequently, the torque required to the slippage of the clutch increases considerable respect to the value set at factory, and this may be cause of driveshaft breakage during operation, or damage to the tractor or implement.

To avoid it, before re-using the tiller, operator must perform a short "run-in" of the clutch, as follows:

- take note of the height of the compressed springs;
- loosen the bolts that compress the springs;
- connect the tiller to the tractor (see section Connecting to the tractor);
- connect the driveshaft (see section Driveline installation);
- start the tractor and engage PTO for few seconds, in order to cause slippage and separation of the parts "sticked" of the clutch;
- turn off the tractor, remove key and wait for all components are stopped before dismounting from tractor;
- retighten the bolts restoring the original springs position on the driveshaft.

NOTE
For replacement of the driveshaft service parts (e.g. friction discs), refer to the user manual of the driveshaft manufacturer.

7. STORAGE

Before leaving the tiller unused for a long time, it's necessary to perform following tasks to preserve the appearance and functionality of the machine, and to make easier the restart at later use:

- park the tiller on a flat surface, in a place dry and protected from exposition to the elements, possibly with storage temperature between 0 and 50 °C (see Section Stopping and disconnection);
- thoroughly clean the machine, removing from the rotor all residues due to tillage, in order to avoid damage from grass and stagnant water;
- inspect carefully the machine, checking for worn and/or damaged parts. Perform immediately all repairs and/or replacements needed, in order to make the machine ready for restarting;
- in case of abrasion of painted surfaces, provide restoring the surface protection through touch-up paint to prevent rust;
- make sure the safety decals are in their original positions, intact and legible. When required, replace the decals immediately;
- lubricate properly all grease points, and restore the oil levels as indicated in the maintenance Section. Use protective oil to coat the exposed mechanical components and to protect them against rust.
If the tiller driveshaft is equipped with a friction clutch, it is suggested to take note of the height of the compressed springs and loosen the bolts that compress the springs, to prevent the discs from "sticking" effect due to moisture, that may cause the clutch failure at restart of the activities (see also Driveshaft maintenance).

Before restart the operations, restore the original height of the springs.

8. SCRAPPING

In case of scrapping, the machine must be disposed in appropriate and authorized sites, according to local legislation.

Before scrapping, separate plastic parts from rubber parts, aluminum, steel, etc.

Recover and dispose any exhausted oils to authorized centers for oil collecting.

9. TROUBLESHOOTING

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>POSSIBLE CAUSE</th>
<th>POSSIBLE SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gearbox/transmission case noise noticeable and constant</td>
<td>Low oil level.</td>
<td>Add oil to the gearbox/transmission case. Replace gears</td>
</tr>
<tr>
<td></td>
<td>Worn gears.</td>
<td></td>
</tr>
<tr>
<td>Intermittent noise from tiller</td>
<td>Loose blades.</td>
<td>Tighten blades hardware Replace damaged gear</td>
</tr>
<tr>
<td></td>
<td>Gear tooth damaged.</td>
<td></td>
</tr>
<tr>
<td>Noise and/or vibration from tiller</td>
<td>Blades worn or damaged.</td>
<td>Replace blades. Replace bearings.</td>
</tr>
<tr>
<td></td>
<td>Bearings damaged.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>the front of the tiller is not leveled to the back.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rotor damaged.</td>
<td>Repair/replace rotor Reduce ground speed</td>
</tr>
<tr>
<td></td>
<td>Hard soil.</td>
<td></td>
</tr>
<tr>
<td>Driveline vibration</td>
<td>Worn driveshaft.</td>
<td>Replace driveshaft.</td>
</tr>
<tr>
<td></td>
<td>Machine lifted too high.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Debris wrapped on rotor.</td>
<td>Lower machine and readjust tractor lift stop. Remove debris</td>
</tr>
<tr>
<td>Rotor stops turning</td>
<td>Slip clutch slipping.</td>
<td>Reduce load to tiller or adjust slip clutch. Repair broken link</td>
</tr>
<tr>
<td></td>
<td>Broken chain in chain box.</td>
<td></td>
</tr>
<tr>
<td>Machine skip or leaves crop residue</td>
<td>Badly worn blades.</td>
<td>Replace worn blades.</td>
</tr>
<tr>
<td></td>
<td>Slip clutch slipping.</td>
<td>Adjust slip clutch or reduce load.</td>
</tr>
<tr>
<td></td>
<td>Ground speed too fast for conditions.</td>
<td>Reduce ground speed .</td>
</tr>
<tr>
<td>Smoke and/or hot smell from tiller</td>
<td>Debris wrapped around in blades and/or rotor.</td>
<td>Remove debris.</td>
</tr>
<tr>
<td></td>
<td>Low oil level in gearbox.</td>
<td>Add oil Reduce load to machine or adjust slip clutch.</td>
</tr>
<tr>
<td></td>
<td>Slip clutch slipping.</td>
<td></td>
</tr>
<tr>
<td>Issue</td>
<td>Cause</td>
<td>Remedies</td>
</tr>
<tr>
<td>---------------------------------------</td>
<td>------------------------------------------------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>Gearbox overheating</td>
<td>Low oil level. Hard soil.</td>
<td>Add oil. Reduce ground speed.</td>
</tr>
<tr>
<td>Blades wear frequently</td>
<td>Muddy or sandy soil.</td>
<td>Reduce ground speed.</td>
</tr>
<tr>
<td>Blades break frequently</td>
<td>Stony soil.</td>
<td>Reduce ground speed.</td>
</tr>
<tr>
<td>Oil leaking from gearbox/transmission case</td>
<td>Gearbox/transmission case overfilled.</td>
<td>Drain to proper level.</td>
</tr>
<tr>
<td></td>
<td>Loose filling/drain plug.</td>
<td>Tighten filling/drain plug.</td>
</tr>
<tr>
<td></td>
<td>Damaged breather plug.</td>
<td>Replace breather plug.</td>
</tr>
<tr>
<td></td>
<td>Damaged seals.</td>
<td>Replace seals.</td>
</tr>
<tr>
<td>Tillage depth insufficient</td>
<td>Tiller is carried by tractor.</td>
<td>Lower tractor 3-point arms.</td>
</tr>
<tr>
<td></td>
<td>Tractor has insufficient power.</td>
<td>Increase PTO speed.</td>
</tr>
<tr>
<td></td>
<td>Skids need adjusting.</td>
<td>Adjust skids.</td>
</tr>
<tr>
<td></td>
<td>Blades worn or bent.</td>
<td>Replace blades.</td>
</tr>
<tr>
<td></td>
<td>Blades incorrectly installed.</td>
<td>Install tines correctly.</td>
</tr>
<tr>
<td></td>
<td>Debris entangled in blades and/or rotor.</td>
<td>Clear rotor and/or blades</td>
</tr>
<tr>
<td>Soil texture too coarse</td>
<td>Rear board too high.</td>
<td>Lower rear board.</td>
</tr>
<tr>
<td></td>
<td>PTO speed too slow.</td>
<td>Increase PTO speed.</td>
</tr>
<tr>
<td></td>
<td>Ground speed too fast.</td>
<td>Reduce ground speed.</td>
</tr>
<tr>
<td>Soil texture too fine</td>
<td>Rear board too low.</td>
<td>Raise rear board.</td>
</tr>
<tr>
<td></td>
<td>Ground speed too slow.</td>
<td>Increase ground speed.</td>
</tr>
<tr>
<td>Tiller choking up with soil</td>
<td>Blades worn or bent.</td>
<td>Replace blades.</td>
</tr>
<tr>
<td></td>
<td>Blades incorrectly installed.</td>
<td>Install tines correctly.</td>
</tr>
<tr>
<td></td>
<td>Rear board too low.</td>
<td>Raise rear board.</td>
</tr>
<tr>
<td></td>
<td>Soil too wet.</td>
<td>Wait until soil dries.</td>
</tr>
<tr>
<td>Tiller skipping on ground or leaving crop residue</td>
<td>Blades incorrectly installed (wrong helical arrangement, cutting edge in wrong direction...)</td>
<td>Install blades correctly(replace right helical arrangement, position cutting edge in front of rotation direction...)</td>
</tr>
<tr>
<td></td>
<td>Debris entangled in blades and/or rotor.</td>
<td>Clear rotor and/or blades.</td>
</tr>
<tr>
<td></td>
<td>Ground speed too fast.</td>
<td>Reduce ground speed.</td>
</tr>
<tr>
<td></td>
<td>Soil too hard.</td>
<td>Reduce ground speed and make tilling in more steps.</td>
</tr>
<tr>
<td>Tillage not uniform</td>
<td>Blades worn or damaged.</td>
<td>Replace blades.</td>
</tr>
<tr>
<td></td>
<td>Skids not aligned.</td>
<td>Align skids.</td>
</tr>
<tr>
<td></td>
<td>Tiller left side not leveled with right side.</td>
<td>Adjust tractor 3-point arms.</td>
</tr>
<tr>
<td>Too load required to tractor</td>
<td>Excessive working depth.</td>
<td>Lower skids.</td>
</tr>
<tr>
<td></td>
<td>Excessive PTO speed.</td>
<td>Reduce PTO speed.</td>
</tr>
</tbody>
</table>
10. TORQUE VALUES TABLE

Check frequently tiller hardware to make sure that screws and bolts are tightened according to torque values listed in following table:

<table>
<thead>
<tr>
<th>BOLT SIZE (METRIC)</th>
<th>8.8 grade</th>
<th></th>
<th>10.9 grade</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N m</td>
<td>Ft lb</td>
<td>N m</td>
<td>Ft lb</td>
</tr>
<tr>
<td>M6</td>
<td>11</td>
<td>8</td>
<td>15</td>
<td>11</td>
</tr>
<tr>
<td>M8</td>
<td>26</td>
<td>19</td>
<td>36</td>
<td>27</td>
</tr>
<tr>
<td>M10</td>
<td>52</td>
<td>39</td>
<td>72</td>
<td>53</td>
</tr>
<tr>
<td>M12</td>
<td>91</td>
<td>67</td>
<td>125</td>
<td>93</td>
</tr>
<tr>
<td>M14</td>
<td>145</td>
<td>105</td>
<td>200</td>
<td>150</td>
</tr>
<tr>
<td>M16</td>
<td>225</td>
<td>165</td>
<td>315</td>
<td>230</td>
</tr>
<tr>
<td>M18</td>
<td>310</td>
<td>230</td>
<td>405</td>
<td>300</td>
</tr>
<tr>
<td>M20</td>
<td>440</td>
<td>325</td>
<td>610</td>
<td>450</td>
</tr>
</tbody>
</table>
11. WARRANTY

Titan Implement LLC. offer the following warranty to the purchaser of TITAN equipment mentioned herein above subject to the conditions set out herein after provided the TITAN IMPLEMENT equipment shall be in the possession of and used by such purchaser from the date of delivery.

Titan Implement LLC. Warrants its products for a period of twelve (12) months from date of delivery, for manufacturing or material defects only. Failed part will be replaced at its authorized dealers only and any part component there of that shall be examined by them, shall disclose if to be defective. This warranty shall not apply to equipment or parts that have been subject to negligence, or accident, or not maintained as per company instructions specified in operator manual or that have been altered or repaired or used with non-genuine parts or abused or due to contaminated oil or used in not recommended application.

Warranty Terms & Conditions:

1) The purchaser of TITAN IMPLEMENT equipment should strictly follow the instruction given in the instruction manual provided by the company along with the TITAN IMPLEMENT equipment at the time of delivery. Changes if any, resulting in improper usage will not be covered by the warranty. This warranty will automatically terminate on the expiry of warranty period of Six months even the TITAN IMPLEMENT equipment may not be in use for any time during the warranty period for any reason whatsoever including any technical reasons and time taken for such repairs/replacement of parts, and in transit, whether under this warranty or otherwise shall not be excluded from the warranty period.

2) All wear and tear items like bearings, chains, sprockets, oil seals, tines, blades, rubber parts and gaskets are not covered under warranty.

3) All items with normal wear or failure due to normal wear will not be covered under warranty.

4) While the company or authorized dealers will make every effort to carry out repairs/replacement of parts under this warranty as soon as possible. It is expressly made clear that the company shall not be liable to do within any specific period of time.

   In the event of repairs/replacement of any parts, this warranty will thereafter continue to remain in force only for the unexpired period of warranty.

5) It is entirely left to company discretion to repair/replacement of parts at the site of delivery or at the authorized service points of its dealers. The defective parts which has/have been agreed to be replaced, should be returned to the company without any further claim.

6) The warranty shall not cover any consequential or resulting liability, damage or loss arising directly or indirectly out of any defect in the TITAN IMPLEMENT equipment. This warranty shall be strictly limited to repairs and replacement of the defective parts specified in the warranty, and does not cover any reimbursement of labour charges for any repairs so earned out at dealer/client end.

7) This warranty shall not be extended in any case of replacement or return of the TITAN IMPLEMENT equipment as a whole. Only failed parts will be covered under warranty.

8) The purchasers of TITAN IMPLEMENT equipment will itself fully responsible for model/variant selection.
9) This warranty does not cover for statutory duties and taxes like excise, service tax or CST or VAT or State sales tax and octroi and any other local taxes payable on any of the parts which the company may supply or repairs free of cost during the warranty period.

10) This warranty also does not cover the cost of packaging, to and fro freight and transportation charges etc., on the defective TITAN IMPLEMENT equipment or other parts of the TITAN IMPLEMENT equipment sent to company’s works in Rajkot or to the authorized service station.

11) **Warranty becomes void if:**

   a) The TITAN IMPLEMENT equipment has not been delivered, assembled, started and put into operation by the company or its authorized representative.

   b) The duly filled delivery certificate is not in our possession within 15 days from the date of delivery.

   c) The TITAN IMPLEMENT equipment or any parts thereof is subjected to neglect, fire, floods or other acts of God or if in the company’s opinion any damage has caused to the TITAN IMPLEMENT equipment during transportation.

   d) The original serial number is removed, obliterated or altered from the unit.

   e) Any attempt is made to have the repairs executed by a person or persons, other than the company or its authorized representative.

   f) Any defect is not informed immediately to the company or its authorized representative, any alteration in warranty card is made.

   g) Whenever the user or anyone else on his behalf applies equipment to the tractor or to prime mover that has not been expressly approved by the manufacturer or not suitable to the equipment.

12) a) Any changes in the location of the TITAN IMPLEMENT equipment or in the/its ownership thereof during the warranty period must be intimated in writing to the company or its authorized dealer within ten days before the change. Failure to do so will absolve the company from the obligation under this warranty.

   b) Further, in the case of shifting for the continuation of the Warranty, the TITAN IMPLEMENT equipment has to be inspected by the company or its authorized representative before shifting from the original location and before using it at the new location. The inspection free levied by the company or its authorized representative as well as the cost of rectification of any damage in transit, detected in the above inspection, shall be borne by the purchaser/owner, if at the time of restarting, the TITAN IMPLEMENT equipment is found to be in working order; this warranty shall continue to be in force for the remaining period of the warranty.

   c) Damage to the TITAN IMPLEMENT equipment or any part thereof caused during shifting or transportation is not covered by this warranty.

13) None of the company representative or authorized dealer is authorized to alter/amend any terms and conditions of this warranty policy. Only the management of the company is authorized to do so. The decision of the company will be final and binding to the purchaser.
15) This warranty is given in lieu of all other guarantees and condition expressed or implied by law or by the any person purporting to act on behalf of the company and excludes every condition, warranty or guarantee not herein expressly set out.

**Note:** The parts/material that are not covered by this warranty are as follows:

1. Blades
2. Universal joint cross
3. Paint
4. Bearings
5. Rubber parts
6. Gaskets
7. Fasteners
8. Fabrication
9. Chains & sprockets
10. Tines

### 12. SPARE PARTS

All repairs and replacements on the machine must be performed only by using original spare parts, which must be obtained / provided from the manufacturer or your dealer.

This section contains the information needed to identify the parts of FMA125-Series tillers that may be ordered to manufacturer.

When request spare parts to manufacturer, always give following indications:

- type of machine;
- tiller serial number;
- description and p/number of the spare parts;
- quantities.

**NOTE**

For identification of p/numbers and description of safety decals refer to the Section Safety labels.

For identification of p/numbers and description of PTO driveline parts, refer to the manual of the driveshaft manufacturer.

The Manufacturer reserves the right to substitute a required part with an equivalent part, if applicable.
PARTS MANUAL
FMA125 SERIES
FRAME ASSEMBLY SPARE PARTS TABLE
FRAME ASSEMBLY SPARE PARTS LIST
<table>
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**FRAME ASSEMBLY-FMA125 SERIES**

**SIDE ASSEMBLY SPARE PARTS TABLE**
SIDE DRIVE ASSEMBLY-FMA SERIES (085/105/125)

➢ SIDE ASSEMBLY SPARE PARTS LIST
### SIDE DRIVE ASSEMBLY - FMA125 SERIES (085/105/125)

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GREABOX ASSEMBLY SPARE PARTS LIST

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ROTOR ASSEMBLY SPARE PARTS TABLE
## ROTOR ASSEMBLY SPARE PARTS LIST

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Titan Implement
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PH:(423)334-0012