

**NBM SERIES
FLAIL MULCHER**



**OPERATOR'S
MANUAL**



OM-EN-1_JUL_2020

Congratulation for purchasing your new COSMO BULLY mulcher!

This machine 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 all the tools needed to use it safely.

A proper maintenance and knowledge of the safety rules of use will allow obtaining 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.

TO THE PURCHASER

This manual contains valuable information about COSMO BULLY FLAIL MULCHER. 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 Flail Mulcher, 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 Flail Mulcher may need new parts to replace those are worn or broken. If so, go to nearest COSMO BULLY dealer and provide him with the model and part number.

Customer information

Name _____

Purchased from_____

Purchased date_____

Model No._____

Serial No._____

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Safety at all times.

Thoroughly read and understand the instructions given in this manual before operation. Refer to the "Safety Decal", read all instructions noted on them.

- Do not allow anyone to operate this equipment who has not fully read and comprehended this manual and who has not been properly trained in the safe operation of the equipment.
- Operator should be familiar with all functions of the unit.
- Operate implement from the driver's seat only.
- Make sure all guards and shields are in place and secured before operating the implement.
- Do not leave tractor or implement unattended with engine running.
- Dismounting from a moving tractor could cause serious injury or death.
- Do not stand between tractor and implement during hitching.
- Keep hands, feet, and clothing away from power-driven parts.
- Wear snug fitting clothing to avoid entanglement with moving parts.
- Watch out for wires, trees, etc., when operating. Remove any foreign objects prior to operation.
- Make sure all persons are clear of working area.
- Turning tractor too tight may cause implement to ride up on wheels. This could result in injury or equipment damage.

Look for The Safety Alert Symbol

The SAFETY ALERT SYMBOL indicates there is a potential hazard to personal safety involved and extra safety precaution must be taken. When you see this symbol, be alert and carefully read the message that follows it. In addition to design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.

Be aware of signal words

A signal word designates a degree or level of hazard seriousness. The signal words are:



DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations, typically for machine components that, for functional purpose, cannot be guarded.



WARNING

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

For your protection

Thoroughly read and understand the "safety label" section, read all instructions noted on them.

Shutdown and storage

Lower machine to ground, put tractor in park, turn off engine, and remove the key. Detach and store implements in an area where children normally do not play. Secure implement by using blocks and supports.

Use safety lights and devices

Slow moving tractors, self-propelled equipment, and towed implements can create a hazard when driven on public roads. They are difficult to see, especially at night. Flashing warning lights and turn signals are recommended whenever driving on public roads. Use lights and devices provided with implement.

Transport machinery safely

Comply with state and local laws.

Maximum transport speed for implement is 20 kph. Do not exceed. Never travel at a speed which does not allow adequate control of steering and stopping. Some rough terrain requires a slower speed.

Sudden braking can cause a towed load to swerve and upset. Reduce speed if towed load is not equipped with brakes.

IMPORTANT: Do not tow a load that is more than double the weight of tractor.

Keep riders off machinery

Riders obstruct of operator's view, they could be struck by foreign objects or thrown from the machine.

Never allow children to operate equipment.

Practice safe maintenance

Understand procedure before doing work. Use proper tools and equipment. refer to Operator's Manual for additional information.

Work in a clean dry area.

Lower the implement to the ground, put tractor in park, turn off engine, and remove key before performing maintenance.

Allow implement to cool completely.

Do not grease or oil implement while it is operation.

Inspect all parts. Make sure parts are in good condition and installed properly.

Remove buildup of grease, oil or debris.

Remove all tools and unused parts from implement before operation.

Prepare for emergencies

Be prepared if a fire starts.

Keep a fist aid kit and fire extinguisher handy.

Keep emergency numbers for doctor, ambulance, hospital and fire department near phone.

Wear protective equipment

Protective clothing and equipment should be worn.

Wear clothing and equipment appropriate for the job. Avoid loose fitting clothing.

Prolonged exposure to loud noise can cause hearing impairment or hearing loss. Wear suitable hearing protection such as earmuffs or earplugs.

Operating equipment safely requires the full attention of the operator. Avoid wearing radio headphones while operating machinery.

Avoid high pressure fluids hazard

Escaping fluid under pressure can penetrate the skin causing serious injury.

Avoid the hazard by relieving pressure before disconnecting hydraulic lines.

Use a piece of paper or cardboard, not body parts, to check for suspected leaks. Wear protective gloves and safety glasses or goggles when working with hydraulic systems.

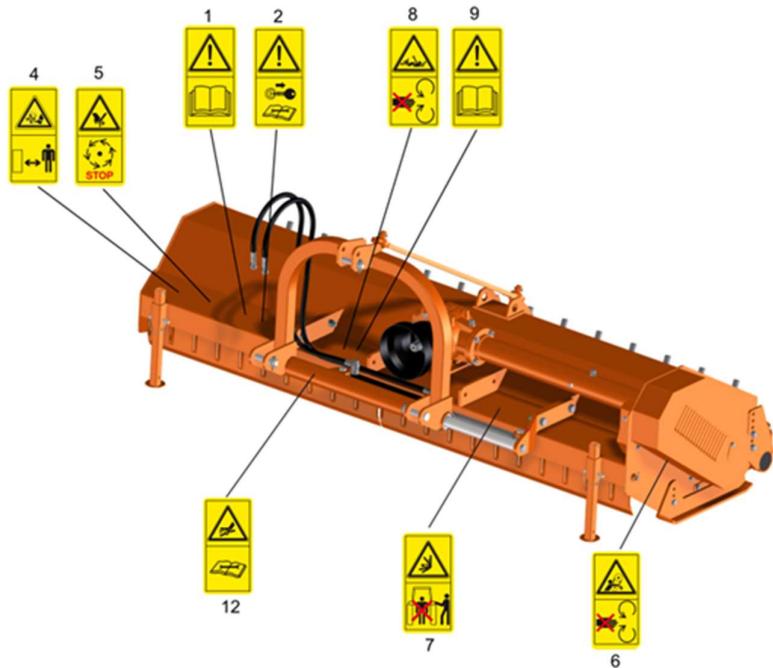
If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be treated within a few hours or gangrene may result.

Safety Labels

Your Flail Mower comes equipped with all safety labels in place. They were designed to help you safely operate your implement. Read and follow their directions.

1. Keep all safety labels clean and legible.
2. Replace all damaged or missing labels. To order new labels contact Farm Implements
3. Some new equipment installed during repair requires safety labels to be affixed to the replaced component as specified by Jonova. When ordering new components make sure the correct safety labels are included in the request.
4. Refer to this section for proper label placement.

To install new labels:



Section 1: Assembly and Set-up

Tractor Requirements

This mower is designed with a 3-Point category I hitch. Tractor engine horsepower rating should not exceed 50hp

Assembly

Refer to the parts illustration.

Tractor Hook-Up

1. Be certain that tractor draw bar will not interfere. Move draw bar ahead or remove if required. Draw bar should also be checked for clearance when unit is being raised for the first time.
2. Align lower link arms of tractor to hitch clevises on mower. Insert lower hitch pins into lower ball swivels and attach lynch pins.
3. Attach tractor top link to upper floating hitch on mower with pin supplied. Secure with lock pin.
4. Adjust tractor top link in or out to place upper hitch pin vertically above or slightly behind lower hitch pins to allow mower flotation. The mower should be run with the back 15 degrees lower than the front.

Tractor-Implement Stability

The weight of the machine modifies the stability of the system tractor Flail Mulcher, 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 Flail Mulcher.

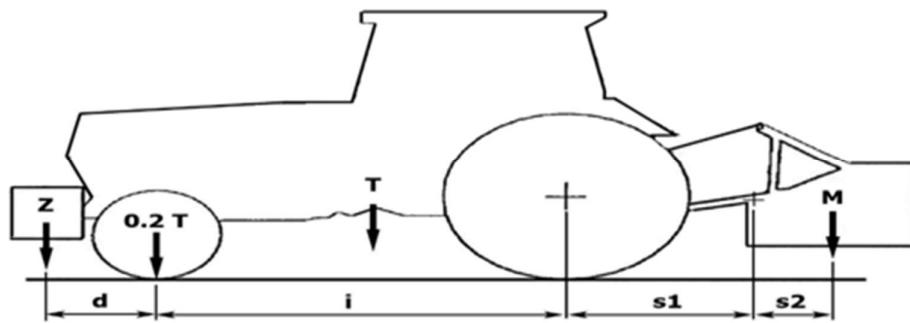


CAUTION

Check the lifting capacity and stability of the tractor making sure the following relations are complied with (see image on page 10 for definitions):

- $M \times (S1+S2) \leq 0.2 \times T \times i + Z \times (d+i)$
- $M \leq 0.3T$

If this not occurs, apply the front ballast required. 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 = Implement weight (kg)

s_1 = Distance between rear axle and lower hitch points (cm)

s_2 = Distance between lower hitch points and implement center of mass = 61 cm

Driveline Installation

The gearbox unit is equipped with a free wheel inside, able to absorb the rotor inertia during stopping, and to prevent possible damage to the transmission system machine-tractor that would be caused by an instantaneous stop of the rotor. Consequently, the use of a cardan shaft with free wheel is not required.

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 Flail Mulcher.

If the direction of rotation of the PTO tractor does not match that of the machine, contact the Manufacturer or your Dealer.

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

- park tractor and Flail Mulcher on a flat surface, with parking brake set, engine off, and ignition key removed;
- check that driveshaft, Flail Mulcher and tractor are in good condition, otherwise provide for their replacement;
- remove the PTO shield of the Flail Mulcher through the fixing screws;
- insert the driveline yoke on the implement PTO by first lining up the splines, then ensure its tightening onto the shaft through its fastener/snap pin;
- replace the PTO shield of the Flail Mulcher 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 Flail Mulcher the two retaining chains of the driveline shielding, to prevent shielding rotation during functioning of the machine.

Driveline Length - Check

Before operating the Flail Mulcher, 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 Flail Mulcher 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 Flail Mulcher 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 Flail Mulcher is in its lowest position in the ground).

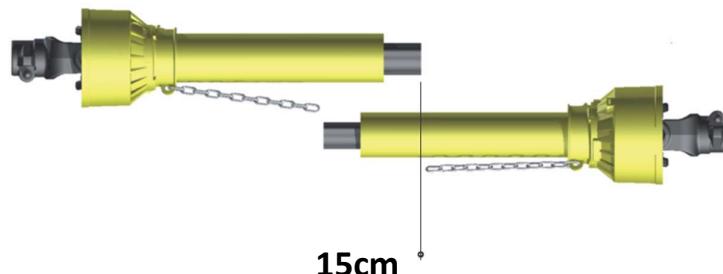
When the driveshaft is at its minimum length (max compressed position), there must be at least a

2 cm of distance between the ends of each transmission tube and the yokes side.

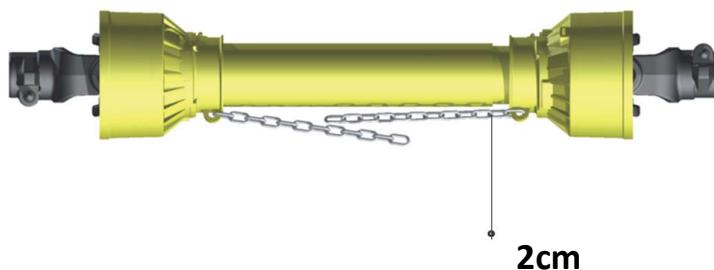
When the driveshaft is at its maximum operational extension, there must be an overlap between

the tubes profiles of 15 cm at least.

max. extended position



max. compressed position



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 Flail Mulcher the first time, make sure that the driveshaft is lubricated in accordance with how indicated in the instruction booklet;
- before operating the Flail Mulcher 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.



CAUTION

Tractor PTO shield and all guards must be in place at all times during operation!

Section 2: Operating Instructions

Transporting

NOTE: Always disengage PTO before raising mower to transport position.

1. When raising the mower to transport position, be sure that driveline does not contact tractor or mower. Adjust and set the tractor's 3-point hitch lift height so that the driveline does not contact mower deck in the fully raised position.
2. Be sure to reduce tractor ground speed when turning, leaving enough clearance so that the mower does not contact obstacles such as buildings, trees or fences.
3. Select a safe ground travel speed when transporting from one area to another. When traveling on roadways, transport in such a way that faster moving vehicles may pass safely.
4. When traveling over rough or hilly terrain, shift tractor to a lower gear.



CAUTION

When traveling on public roads, whether at night or during the day, use accessory lights and devices for adequate warning to operators of other vehicles. Comply with all Federal, State, and local laws.

Mowing Instructions

1. Clear area to be mowed of objects and debris that might be picked up and thrown by the mower blades.
2. Grass is best cut when it is dry. Mowing wet grass can cause plugging resulting in grass clumps behind the mower.
3. Grass should be mowed frequently as shorter clippings deteriorate faster.
4. If mowing extremely tall grass, it is best to raise cutting height and mow the area, then lower cutting height and mow a second time at the desired height.

Operating Instructions

Proper servicing and adjustments are the key to the long life of any machine. With careful and systematic inspection of the mower, costly maintenance, time and repair can be avoided.

Before beginning to mow, the following inspection should be performed:

1. Check oil level in gearbox.
2. Check that all plugs in gearbox have been replaced and tightened properly.
3. Be sure all mower knives, bolts and nuts are tight.
4. Be certain all guards and shields are in place and secure.
5. Grease driveline shaft and all other grease fittings.
6. Clear area to be mowed of rocks, branches and other foreign objects.
7. Lower mower to ground. Set tractor throttle at approximately 1/4 open. Engage PTO to start blades rotating.
8. Operate with 540 rpm PTO tractor.
9. At first begin mowing at a slow forward speed and shift up until the desired speed is achieved - maintaining 540 PTO rpm.
10. Mower knives will cut better at a faster blade speed than at reduced throttle.
11. After mowing the first 50 feet, stop and check to see that the mower is adjusted properly.
12. Do not make sharp turns or attempt to back up while mower is on the ground.
13. Do not engage PTO with mower in the fully raised position. Do not engage PTO at full throttle.

Section 3: Adjustments

Leveling the Mower

NOTE: Tractor and mower should be on level ground.

Leveling can be adjusted at the tractor's 3-point arms and center link.

Cutting Height Adjustment

The machines cutting height depends upon the position of the rear roller.

1. Remove the bolts that fix the roller on both sides.
2. Lift or lower both sides of roller in equal measurements.
3. Replace bolts and re-tighten.

3-Point Hitch Adjustments

The 3-point hitch system on this mower has been designed for front to back flotation when mowing on uneven terrain. Adjust tractor's top center link to place the upper hitch pin vertically above or slightly behind the lower hitch pins. The mower should be run with the back 15 degrees lower than the front.

The hitch can also be adjusted from side to side by turning the adjustment handle. Turn handle until you have achieved your desired location.



CAUTION

Engage parking brake, shut off tractor, remove key and disengage PTO before making any height adjustments!

Belt Tension



CAUTION

Belt drive system under spring tension; use care to avoid bodily harm!

The Belt tension should be checked after the first 20 hours of use. And then every 40 hours of use.

Tension on the belt can be adjusted with the belt tension bolt. Turn the bolt until desired tension is achieved. When the belt has the correct tension the gearbox should be adjusted so that the gearbox extension is running straight (parallel) with the flail mower. Loosen bolts at the bottom of the gearbox and move gearbox until gearbox extension is running straight.

Excessive tension on the belt may lead to premature failure of belt and drive components.



CAUTION

Excessive tension on the belt may lead to premature failure of belt and drive components.

Excessive tension on the belt may also lead to a safety hazard to the operator or bystanders.

Section 4: Maintenance and Lubrication

Maintenance

Proper servicing and adjustment is the key to the long life of any farm implement. With careful and systematic inspection, you can avoid costly maintenance, time and repair.



CAUTION

For safety reasons, each maintenance operation must be performed with tractor PTO disengaged, mower lowered completely to ground and tractor engine shut off with ignition key removed.

After using the mower for several hours, check all bolts to be sure they are tight and check drive belt tension.

Replace any worn, damaged or illegible safety decals by obtaining new decals from dealer.

Blade Replacement

IMPORTANT: Make sure that the knife is the same length as the others on the mower. This will keep the rotor rotation balanced.

1. Remove bolt and nut.
2. Remove old blade.
3. Install new knife and existing bolt.
4. Secure with nut.

V-Belt Installation/tension



CAUTION

To check belt tension, remove the safety cover of the belts and apply a force of about 10-15 kg half way between the two (2) pulleys. Record the movement/deflection of the belts. The force (of 10-15kg) should be able 10mm when the belt is correctly tensioned.

If the movement/deflection of the belts is greater than 10mm, belt tension needs to be increased.

Belt tension is adjusted using the bolts/nuts of the lateral drive tube (image below).



As you are tensioning the belts, to keep equal tension on all belts, you may need to reposition the gearbox mounting position (see image below)



If the movement/deflection of the belts is greater than 10mm and you have run out of belt adjustment, then it's time to replace the belts.

To replace the belts, at a minimum, you need to loosen all the bolts/nuts at the outer end of the lateral drive tube. You may even need to loosen the gearbox mounting nuts/bolts.

Once you have created enough 'slack' in the belts, applying a lateral force to the belts direction of travel should unseat the belt from the grooves in the pulley.

Always starting with the external belt and install the new belts in the reserve order to the way the old belts were removed.

Once the new belts have been fitted, realign the gearbox, and tension the belts as above. Then refit the belt cover, check the oil level, and re grease all grease points and you should be ready to re-commence operations.

Storage

At the end of the working season or when the mower will not be used for a long period, it is good practice to clean off any dirt or grease that may have accumulated on the mower and any of moving parts.

1. Clean as necessary.
2. Check knives for wear and replace if necessary.
3. Inspect mower for loose, damaged or worn parts and adjust or replace as needed.
4. Store unit inside if possible for longer life.
5. Repaint parts where paint is worn or scratched to prevent rust.
6. Replace all damaged or missing decals.

Lubrication

Driveline Shaft U-Joints



Type of Lubrication: Multi-purpose Grease

Roller Bearing (Both Ends)



Type of Lubrication: Multi-purpose Grease

Cutter Rotor Bearing (Both Ends)



Type of Lubrication: Multi-purpose Grease

Gearbox



Type of Lubrication: SAE 90W Gear Lube

Check oil level in gearbox by removing the plug located on the right hand side. Oil should be level with bottom of plug hole. Add oil if necessary by removing top fill plug and side plug. Add oil until it flows from side plug hole.

Do not overfill!

IMPORTANT: Mower should be level when checking oil in gearbox!

Driveline Profiles



Type of Lubrication: Multi-purpose Grease

Section 5: Specifications & Capacities

Code	NBM145	NBM155	NBM175
Description	NBM 1.45m Mulcher	NBM 1.55m Mulcher	NBM 1.75m Mulcher
Transmission	Belt drive		
Belts	Three (3)		Four (4)
Gearbox	50hp, 540rpm with free wheel clutch		
PTO Shaft	Series 4		
Skids	Adjustable, four (4) positions		
Rear roller	Ø121mm, height adjustable, six (6) positions		
Finish	Powder coated		
Rotor swing dia.	350mm (blade tip to blade tip diameter)		
Rotor diameter	108		
Rotor speed	2295		
Type of blade	Hammer		
No. of blades	24	24	28
Tower position/offset	Fixed/bolt on with two (2) mounting positions, 210mm apart		
Linkage	Category 1		
Guarding	CE compliant		
Overall width (mm)	1685	1785	1985
Working width (mm)	1450	1550	1750
Cutting height (mm)	54	54	54
Tractor range (hp)	30-50	35-50	40-50
Weight (kg)	355	362	376

Section 6: Troubleshooting

Problem	Solution
	CAUTION
	Do not try to clean rear discharge area when mower is running. Bodily harm may occur!
Belt slipping	<ul style="list-style-type: none">Unplug and clean mower deck.Remove belt guard shields and clean sheaves.Replace belt.
Patches of uncut grass	<ul style="list-style-type: none">Mow at full throttle (540 PTO rpm), check PTO speed and tractor engine.Shift transmission to a lower gear.Tighten belts.Replace missing knives.
Excessive vibration	<ul style="list-style-type: none">Replace knives.Replace drive belt.Replace pulleys or align.Remove belt guard shields & clean debris from belt area & sheaves.
Gearbox noisy	Check lubricant level.
Knives scalping grass	<ul style="list-style-type: none">Raise cutting height by adjusting roller.Change mowing pattern.Reduce speed turns.
Uneven cut	<ul style="list-style-type: none">Shift to a lower gear.Level mower.Replace missing knives.
Tractor loaded down by mower	<ul style="list-style-type: none">Mow at full throttle (540 PTO rpm).Shift to a lower gear.Clean mower.

Section 7: Appendix

Bolt Torque

The tables shown below give correct torque values for various bolts and cap screws.

Tighten all bolts to the torques specified unless otherwise noted. Check tightness of bolts periodically, using bolt torque chart as a guide. Replace hardware with the same strength bolt.

IMPERIAL TORQUE SPECIFICATIONS

Bolt Diameter	Bolt Torque					
	SAE 2		SAE 5		SAE 8	
	N.m	lb-ft	N.m	lb-ft	N.m	lb-ft
1/4"	8	6	12	9	17	12
5/16"	13	10	25	19	36	27
3/8"	27	20	45	33	63	45
7/16"	41	30	72	53	100	75
1/2"	61	45	110	80	155	115
9/16"	95	60	155	115	200	165
5/8"	128	95	215	160	305	220
3/4"	225	165	390	290	540	400
7/8"	230	170	570	420	880	650

METRIC TORQUE SPECIFICATIONS

Bolt Diameter	Bolt Torque			
	8.8		10.9	
	N.m	lb-ft	N.m	lb-ft
M3	0.5	0.4	1.8	1.3
M4	3	2.2	4.5	3.3
M5	6	4	9	7
M6	10	7	15	11
M8	25	18	35	26
M10	50	37	70	52
M12	90	66	125	92
M14	140	103	200	148
M16	225	166	310	229
M20	435	321	610	450
M24	750	553	1050	744
M30	1495	1103	2100	1550
M36	2600	1917	3675	2710

Torque figures indicated above are valid for non-greased or non-oiled threads and heads otherwise specified. Therefore, do not grease or oil bolts or cap screws unless otherwise specified in this manual. When using locking elements, increase torque values by 5%.

WARRANTY

COSMO Srl offers the following warranty to the purchaser of COSMO BULLY FLAIL MULCHER mentioned herein above subject to the conditions set out herein after provided the COSMO BULLY FLAIL MULCHER shall be in possession of and used by such purchaser as from the date of delivery.

COSMO Srl warrants its products for twelve (12) months against defective parts. This warranty shall not apply to implements or parts that have been subjected to negligence, of an accident, or that have been altered or repaired or used with non-genuine parts.

CONDITIONS

If you wish to make a warranty claim, you must first contact the supplier of your goods to begin the claim process.

The following are the warranty terms and conditions for new goods sold in Australia by Farm Implements P/L in conjunction with the manufacture COSMO Srl ("We", "Our" or "Us"), both of 12 Tarmac Way, PAKENHAM, Victoria, Australia, 3810.

1. To the extent that any goods or services supplied by Us are supplied to a 'consumer' as defined in the Australian Consumer Law, We will comply with any applicable consumer guarantees and the following statement will apply: "Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure."
2. 'Australian Consumer Law' means Schedule 2 of the Competition and Consumer Act 2010 (Cth).
3. The warranties provided in this document are in addition to any other rights or remedies available to you under the law and do not limit the consumer guarantees for 'consumers' under the Australian Consumer Law.
4. *Goods presented for repair may be replaced by refurbished goods of the same type rather than being repaired. Refurbished parts may be used to repair the goods.*
5. Any warranty claim that is the result of operator abuse, neglect or unauthorised modifications being made to the good will not be considered valid, subject to the Australian Consumer Laws. The warranty does not cover costs of claiming under this warranty; depreciation, damage, malfunction or failure caused by normal wear and tear; lack of reasonable maintenance or improper servicing; failure to follow operating instructions; misuse or lack of proper protection during storage. The expected normal

working conditions and maintenance requirements are outlined in the relevant operator's manual.

6. All new Implements are provided with a 12-month comprehensive warranty from the date of invoice against faulty workmanship or materials, under normal working conditions and service, as outlined in the relevant operational manual for the particular good. Your warranty for those goods will be considered void if any damage to the implement is caused by operator abuse, neglect, or if any unauthorised modifications have been made.
7. If you wish to make a warranty claim, you must immediately report the defect to the supplier within the warranty or consumer guarantee claim period, including a written statement of your claim, along with photos of the current condition of the goods by mail (or if possible, email) to the address of the place from which you purchased the good. You will be required to present valid proof of purchase, and at your expense promptly provide the goods to the supplier immediately after notification of a service issue.
8. Please note that We require an assessment of the condition of the goods to be conducted by either the supplier, Us or the manufacturer, as well as obtaining a history of use of the good before We can determine whether a consumer guarantee or manufacturer's warranty is applicable. We are not responsible for any transportation cost incurred in the repair or replacement of parts not covered by the warranty.
9. To the maximum extent permitted by law, and except in circumstances where the consumer guarantee provisions under the Australian Consumer Law apply and are inconsistent with the following, Our liability for the supply of the goods is limited, at Our discretion, to 1) replacement of the goods or the supply of equivalent goods; 2) repair of the goods; 3) payment of the cost of replacing the goods or acquiring equivalent goods; or 4) payment of the cost of having the goods repaired.
10. You acknowledge that use of the goods is inherently dangerous and agree that to the maximum extent permitted by law, We are not liable in any event for consequential loss, damage or injury, including loss of crops, loss of profits, or personal injury or death howsoever caused.
11. Farm Implements Dealers have no authority to make any representation, promise or admission on behalf of Us or to modify the terms or limitations of these Warranty Conditions in any way. Nothing in these Warranty Conditions constitutes a partnership between Us and any Farm Implements Dealer or constitutes any Authorised Dealer as an agent or employee of Ours for any purpose at all. Our Dealers have no authority or power to bind Us, to contract in the name of Farm Implements P/L or to create a liability against Us in any way or for any purpose at all, including but not limited to representations regarding performance or fitness for any purpose of the goods.

If you have specific queries regarding the warranties or consumer guarantees provided by Farm Implements P/L in conjunction with the manufacture COSMO Srl, please send details of your claim to Our attention at 12 Tarmac Way, PAKENHAM, Victoria, Australia, 3810, or via email at sales@farmimplements.com.au or phone +61 3 9706 5166.

THIS CONTRACT WILL BE INEFFECTIVE AND INOPERATIVE IF:

- a. The COSMO BULLY MULCHER has not been delivered, assembled, started and put into operation by the company or its Authorized, Representative.
- b. The warranty card has not been returned within 30 days of the date of purchase.
- c. The COSMO BULLY MULCHER parts thereof are subjected to neglect, fire, flood or other acts of God or if in the company's opinion any damage has caused to the COSMO BULLY MULCHER in transportation.
- d. The original numbers are 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 authorised representative.
- f. Any defect is not informed immediately to the company or its authorised representative, any alteration in warranty card is made.
- g. Any change in the location of the COSMO BULLY MULCHER or in its ownership during the warranty period must be intimated in writing to the company or its Authorized Representative ten days before the change. Failure to do so will absolve the company from the obligation under this warranty.
- h. Damage to the COSMO BULLY ROTARY MULCHER or any part thereof caused, during shifting or transportation is not covered by this warranty.
- i. This warranty is given in lieu of all other guarantees and condition expressed or implied by law or by any person purporting to act on behalf of the COMPANY and excludes every condition, warranty or guarantee not herein expressly set out.

NT – Parts/materials that are not covered by the warranty are as follows:

- 1. Blade**
- 2. Universal Joint Cross**
- 3. Paint**
- 4. Bearing**
- 5. Rubber Parts**
- 6. Gaskets**
- 7. Fasteners**

❖ WHEN THE WARRANTY BECOMES VOID

Besides the cases specified in the supply agreement, the warranty shall, in any case, become void:

- Should there have been a maneuvering error, use of an inadequate safety bolt on the cardan shaft torque limiter or when the cardan shaft clutch has been damaged through improper maintenance.
- When the implement has been used beyond the specified power limit as given in the technical data chart.
- When following repairs made by the customer without authorisation from the manufacturer or owing to non-genuine spare parts, the machine is subjected to variations and the damage can be ascribed to these variations.
- Whenever the user or anyone else on his behalf apply equipment to the machine that has not been expressly approved by the manufacturer.
- When the user failed to comply with the instructions in this manual book.

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 U-series Rotary Hoes that may be ordered to manufacturer.

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

- type of machine;
- Rotary Hoe 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.



Manufactured by:

Cosmo Srl

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