

TMG-TFMS50/60/72 PRODUCT MANUAL

v.2022.12.13

TRACTOR SIDE-SHIFT FLAIL MOWER



A WARNING



- · Please read and understand the product manual completely before assembly
- Check against the parts list to make sure all parts are received
- · Wear proper safety goggles or other protective gears while in assembly
- Do not return the product to dealer. They are not equipped to handle your requests.

TOLL FREE: 1-877-761-2819

Missing parts or have questions on assembly?

Please call: 1-877-761-2819 or email: cs@tmgindustrial.com

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IMPORTANT SAFETY INFORMATION

Safety always

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.

- 1. Operator should be familiar with all functions of the unit. Operate implement from the driver's seat only.
- 2. Make sure all guards and shields are in place and secured before operating the implement.
- 3. Do not leave tractor or implement unattended with engine running.
- 4. Dismounting from a moving tractor could cause serious injury or death.
- 5. Do not stand between tractor and implement during hitching.
- 6. Keep hands, feet, and clothing away from power-driven parts.
- 7. Wear snug fitting clothing to avoid entanglement with moving parts.
- 8. Watch out for wires, trees, etc., when raising implement. Make sure all persons are clear of working area.
- 9. 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 readthe message that follows it. In addition to design and configuration of equipment, hazard controland 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 avoids, 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 you protection

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

Shut down and storage

Lower machine to ground, put tractor in park, turn off engine, and remove the ignition key.

Detach and store implements in a 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

- 1. Comply with state and local laws.
- 2. Maximum transport speed for implement is 20 mph. Do not exceed. Never travel at a speed which does not allow adequate control of steering and stopping. Some rough terrain require a slower speed.
- 3. Sudden braking can cause a towed load to swerve and upset. Reduce speed if towed load is not equipped with brakes.
- 4. IMPORTANT: Do not tow a load that is more than 1/3 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

- 1. Understand procedure before doing work. Use proper tools and equipment. refer to Operator's
- 2. Manual for additional information.
- 3. Work in a clean dry area.
- 4. Lower the implement to the ground, put tractor in park, turn off engine, and remove key before performing maintenance.
- 5. Allow implement to cool completely.
- 6. Do not grease or oil implement while it is operation.
- 7. Inspect all parts. Make sure parts are in good condition and installed properly.
- 8. Remove buildup of grease, oil or debris.
- 9. Remove all tools and unused parts from implement before operation.
- 10. Prepare for emergencies
- 11. Be prepared if a fire starts.
- 12. Keep a fist aid kit and fire extinguisher handy.
- 13. Keep emergency numbers for doctor, ambulance, hospital and fire department near phone.

Wear protective equipment.

- 1. Protective clothing and equipment should be worn.
- 2. Wear clothing and equipment appropriate for the job. Avoid loose fitting clothing.
- 3. 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.

- 1. Escaping fluid under pressure can penetrate the skin causing serious injury.
- 2. Avoid the hazard by relieving pressure before disconnecting hydraulic lines.
- 3. 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.
- 4. 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 go to your nearest TMG dealer or visit our dealer locator at TMG.com.

- 3. Some new equipment installed during repair requires safety labels to be affixed to the replaced component as specified by TMG. 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:
 - a. Clean the area the label is to be placed.
 - b. Spray soapy water on the surface where the label is to be placed.
 - C. Peel backing from label. Press firmly onto the surface.
 - d. Squeeze out air bubbles with the edge of a credit card.

Safety labels





This shows the grease position.

Introduction

TMG welcomes you to the growing family of new product owners. This implement has been designed with care and built by skilled workers using quality materials. Proper assembly, maintenance, and safe operating practices will help you get years of satisfactory use from the machine.

The Flail Mowers are designed for Category 1 - three point hitch or Quick-Hitch System mounting. These Fixed Bar Flail Mowers are ideal for ripping, leveling, finish grading, and backfilling applications at feedlots, outdoor arenas, building sites, and maintenance operations on farm and ranch lanes or roadways.

Using This Manual

- 1. This Operator's Manual is designed to help familiarize you with safety, assembly, operation, adjustments, troubleshooting, and maintenance. Read this manual and follow the recommendations to help ensure safe and efficient operation.
- The information contained within this manual was current at the time of printing. Some parts may change slightly to assure you of the best performance.
- To order a new Operator's or Parts Manual contact your authorized dealer. Manuals can also be printed from the TMG Service & Support Center by your dealer.

Terminology

"Right" or "Left" as used in this manual is determined by facing the direction the machine will operate while in use unless otherwise stated.

Note: A special point of information that the operator must be aware of before continuing.

Important: A special point of information related to its preceding topic. The intention is that this information should be read and noted before continuing.

Owner Assistance

The Warranty Registration card should be filled out by the dealer at the time of purchase. This information is necessary to provide you with quality customer service. If customer service or repair parts are required contact a dealer. A dealer has trained personnel, repair parts and equipment needed to service the machine.

The parts on your machine have been specially designed and should only be replaced with genuine parts.

Serial Number Plate

For prompt service always use the serial number and model number when ordering parts from your dealer. Be sure to include your serial and model numbers in correspondence also.

Section 1: Assembly and Set-up

Tractor Requirements

This mower is designed with a 3-Point category 1 hitch. Tractor horse power rating should not exceed 50 PTO horse power.

Packing Description

Remove and check

Remove the packing, check goods without defect and omission.

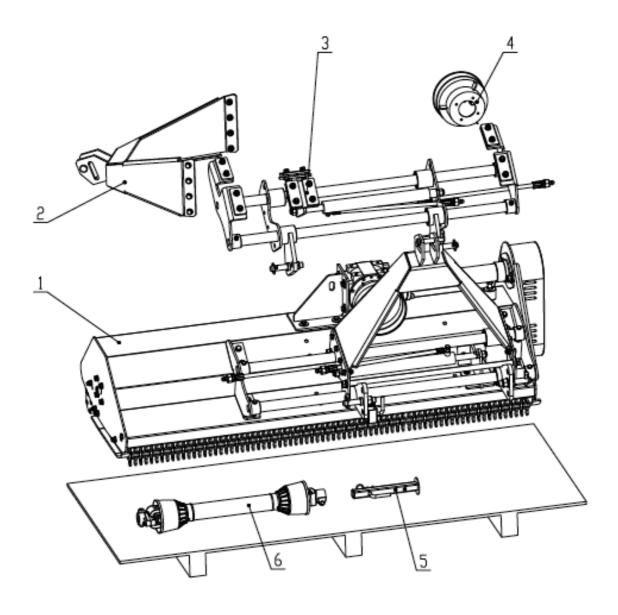


FIGURE 1: The Mower and Accessory In Package

Packing List The detailed packing list as the following table

Item	Description	Qty.	Package Form
1	Main body of the mower	1	None
2	Hitch bracket weldment and fittings	1	Bubble film
3	Side shift sub-assembly and fittings	1	Bubble film
4	PTO protective cover and fittings	1	Bubble film
5	Raker sub-assembly	1	Bubble film
6	Driveline shaft	1	None

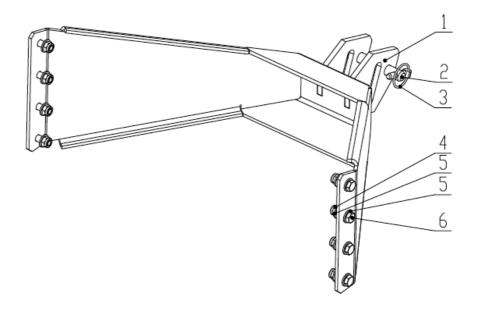


FIGURE 2: Hitch Bracket Weldment and Fittings

Item	Description	Qty.
1	Hitch bracket weldment	1
2	Hitch pin -Upper	1
3	Safety lock pin	1
4	Locknut M12	8
5	Plain washer 12	8
6	Bolt M12x35	16

The detailed description of side shift sub-assembly and fittings

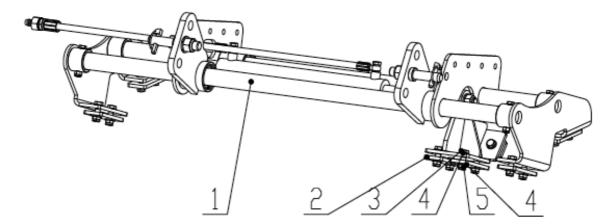


FIGURE 3: Side shift Sub-Assembly and Fittings

Item	Description	Qty.
1	Side shift sub-assembly	1
2	Backing plate	7
3	Bolt M12x40	14
4	Plain washer 12	28
5	Locknut M12	14

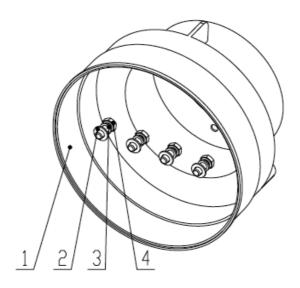


FIGURE 4: PTO Protective Cover and Fittings

Item	Description	Qty.
1	PTO protective cover	1
2	Plain washer 8	4
3	Spring washer 8	4
4	Bolt M8x20	4

The detailed description of raker sub-assembly

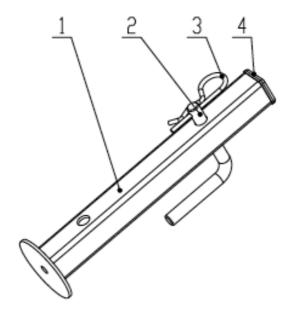


FIGURE 5: Raker Sub-Assembly

Item	Description	Qty.
1	Raker weldment	1
2	Raker pin	1
3	R pin	1
4	Plastic plug	1

Installation Wizard

1. The installation wizard will guide you to finish the final assembly of your new mower easily.

Tool Required

1/2" Ratchet Wrench with 19mm sleeve

17-19 Spanner

T type socket wrench 13mm

Installation

Step1: Installing Raker Sub-Assembly

Remove the packaging of raker sub-assembly, pull out the R pin from the raker sub-assembly as well as the raker pin.

Insert the raker weldment into the tube on the hood panel as well as the raker pin, and insert R pin into the hole on the raker pin.

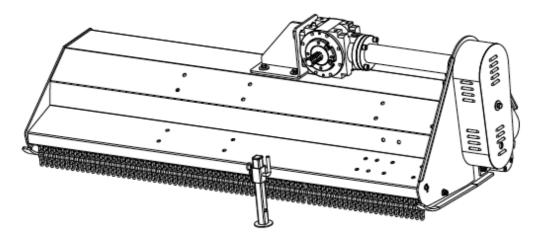


FIGURE 6: Installing Raker Sub-Assembly

Step2: Installing Side Shift Sub-Assembly and Fittings

Remove the packaging of side shift sub-assembly and fittings.

Use 14pcs of BoltsM12x40, 28pcs of plain washers12, 14pcs of locknutsM12and 7pcs of backing plates to fix side shift subassembly on the hood panel.

Tighten locknuts completely.

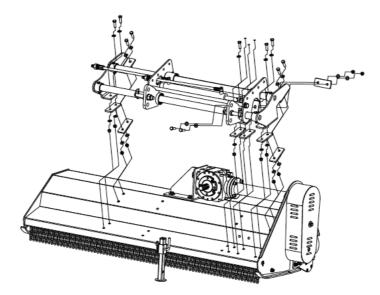


FIGURE 7: Installing Side Shift Sub-Assembly and Fittings

Step3: Installing Hitch Bracket Weldment and fittings

Remove the packaging of hitch bracket weldment and fittings.

Use 8pcs of BoltsM12x40, 8pcs of plain washers12 and 4pcs of locknutsM12 to fix hitch bracket weldment to side shift sub-assembly on hood panel.

Tighten locknuts completely.

Note: If the gap shown in figure 9does not meet the installation requirements of hitch bracket weldment, just remove the oil inlet pipe and oil outlet pipe to release the pressure in the cylinder.

That will make it easy to adjust the gap. Reinstall those oil pipes after hitch bracket weldment installation.

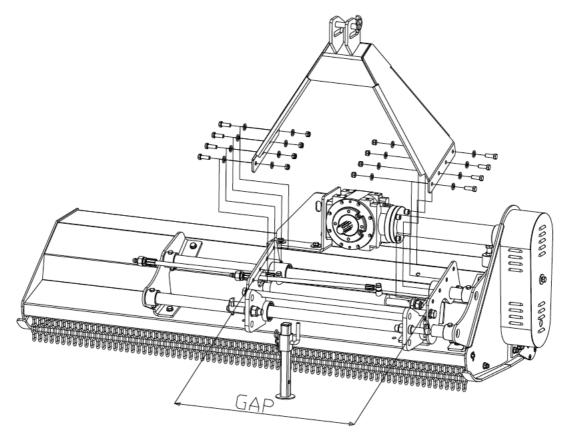


FIGURE 8: Installing Hitch Bracket Weldment and Fittings

Step4: Installing PTO protective cover and fittings

Remove the packaging of PTO protective cover and fittings.

Use 4pcs of Bolts M8x20, 4pcs of plain washers 8 and 4pcs of spring washers 8 to fix PTO protective cover to gearbox. Tighten bolts completely.



WARNING

Fill the item 1 with proper amount of gear oil in figure 9 before operation.

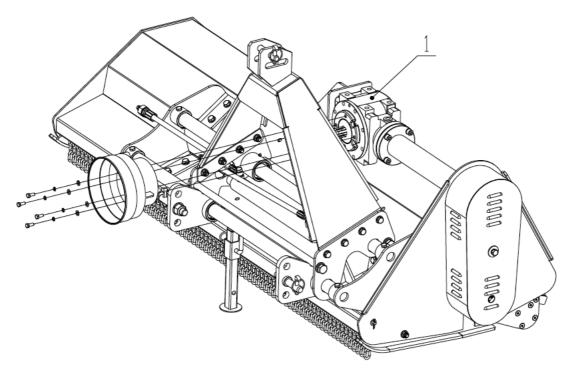


FIGURE 9: Installing PTO protective cover and Fittings

Tractor Hook-Up

- 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 link 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.

Driveline Installation

- 1. Slide driveline end with extended safety cone over spline shaft of gearbox and secure with attaching device.
- 2. Slide driveline over tractor's spline PTO shaft and secure with locking device of driveline.
- 3. Driveline should now be moved back and forth to ensure that it is secure on the PTO shaft of the tractor and mower gearbox.
- 4. Attach chain from the driveline shield to one of the upper hitch braces to ensure that the shield does not rotate.
- 5. Should driveline require shortening:
 - a. Hold the half-shafts next to each other in the shortest working position andmark them.
 - b. Shorten inner and outer guard tubes equally.
 - c. Shorten inner and outer sliding profiles by the same length as the guard tubes.
 - d. Proper overlap is a minimum of one-half the length of each tube, with both tubes being of equallength.
 - e. Round off all sharp edges and remove burrs. Grease sliding profiles.



CAUTION

Tractor PTO shield and all mower guards must be always in place during operation!

Section 2: Operating Instructions

Transporting

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

- 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 foradequate 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.
- 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 heightadjustments!

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. Excessivetension 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.

- 1. 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.

Knife 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 knife.
- 3. Install new knife and existing bolt.
- 4. Secure with nut.

V-Belt Installation



CAUTION

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

- 1. Remove belt guard fender and belt cover.
- 2. Disengage belt tension by loosening belt tension bolt until belt can be removed.
- 3. With tension relieved from belt remove old belt from pulleys.
- 4. Tighten belt tension bolt.

5. Reinstall belt guard and belt guard fender.

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

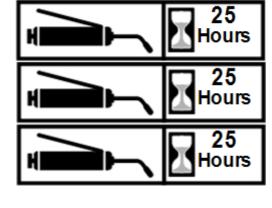
Cutter Rotor Bearing (Both Ends)

Type of Lubrication: Multi-purpose Grease

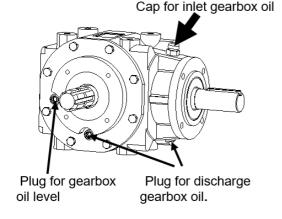
Gearbox

Type of Lubrication: SAE 90W Gear Lube.

Check oil level through cap for gearbox oil level.







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!

WARNING: Overfilling or under filling gear oil may cause gearbox seizing or damage and driveline shaft twisting.

IMPORTANT:

Gearboxes are shipped without gear oil. Gear oil must be filled before the first operation.

Mower should be level when checking oil in gearbox!

Driveline Profiles

Type of Lubrication: Multi-purpose Grease



Section 5: Specifications & Capacities

TMG-TFMS Series Mower Specifications				
MODEL	TMG-TFMS50 TMG-TFMS60 TMG-TFMS72			
STRUCTURE WEIGHT	300kg	330kg	370kg	
CUTTING WIDTH	1250mm	1550mm	1850mm	
SIDE SHIFT DISTANCE	350mm			
BLADE NUMBER	20 flail hammers	24 flail hammers	32 flail hammers	
PTO TURNNING SPEED	540r/min	540r/min	540r/min	
POWER REQUIRED	30-60hp	30-60hp	30-60hp	

Section 6: Troubleshooting

Problem	Solution			
Do not try to clean rear discharge area when mower is running. Bodily harm may occur!				
	Unplug and clean mower deck.			
Belt slipping	Remove belt guard shields and clean sheaves.			
	Replace belt.			
	Mow at full throttle (540 PTO rpm), check PTO speed and tractor engine.			
	Shift transmission to a lower gear.			
Detakes of upout areas	Tighten belts.			
Patches of uncut grass	Replace missing knives.			
	Replace knives.			
	Replace drive belt.			
Excessive vibration	Replace pulleys or align.			
	Remove belt guard shields & clean debris from belt area & sheaves.			
Gearbox noisy	Check lubricant level.			
	Raise cutting height by adjusting roller.			
Knives scalping grass	Change mowing pattern.			
	Reduce speed turns.			
	Shift to a lower gear.			
Uneven cut	Level mower.			
	Replace missing knives.			
To a standard day.	Mow at full throttle (540 PTO rpm).			
Tractor loaded down by mower	Shift to a lower gear.			
Howel	Clean mower.			

Section 7: Appendix

Warranty

TMG warrants to the original purchaser that this product will be free from defects in material and workmanship beginning on the date of purchase by the end user according to the following schedule when used as intended and under normal service and conditions for personal use.

Overall Unit and Driveline: One-year.

Blades and Belts: Considered wear items.

This warranty is limited to the replacement of any defective part by manufacturer and the installation by the dealer of any such replacement part, and does not cover common wear items such as blades, belts, tines, etc. TMG reserves the right to inspect any equipment or parts which are claimed to have been defective in material or workmanship.

This warranty does not apply to any part or product which in TMG's judgment shall have been misused or damaged by accident or lack of normal maintenance or care, or which has been repaired or altered in a way which adversely affects its performance or reliability, or which has been used for a purpose for which the product not designed. Misuse also specifically includes failure to properly maintain oil levels, grease points, and driveline shafts.

Claims under this warranty must be made to the dealer which originally sold the product and all warranty adjustments must be made through such dealer. TMG reserves the right to make changes in materials or design of the product at any time without notices.

This warranty shall not be interpreted to render TMG liable for damages of any kind, direct, consequential, or contingent to property. Furthermore, TMG shall not be liable for damages resulting from any cause beyond its reasonable control. This warranty does not extend to loss of crops, any expense or loss for labor, supplies, rental machinery or for any other reason. No other warranty of any kind whatsoever, express or implied, is made with respect to this sale; and all implied warranties of merchantability and fitness for a particular purpose which exceed the obligations set forth in this written warranty are hereby disclaimed and excluded from this sale.

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.

ENGLISH TORQUE SPECIFICATIONS

	Bolt Torque					
Bolt Diameter		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

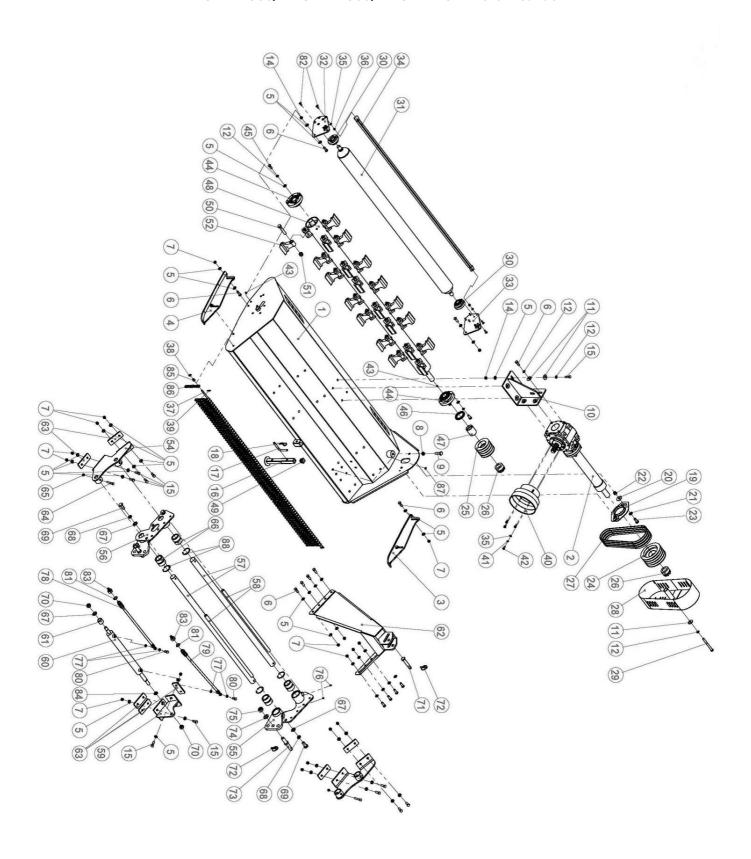
METRIC TORQUE SPECIFICATIONS

		Bolt Torque				
Bolt Diameter		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%.

Part Breakdown List

TMG-TFMS50/TMG-TFMS60/TMG-TFMS72 Part Breakdown



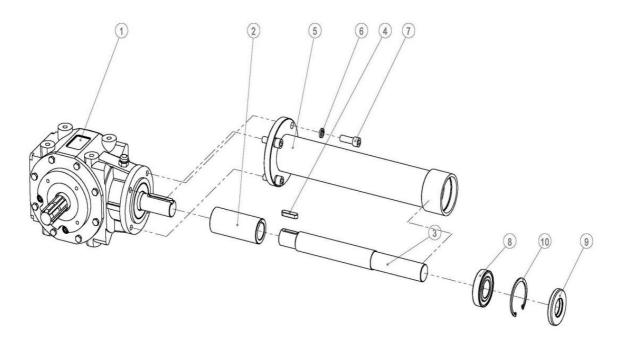
TMG-TFMS50/TMG-TFMS60/TMG-TFMS72 Part Breakdown List

PART NO.	REF. NO.	PART DESCRIPTION	QTY.	REMARK
	4030100002		1	TMG-TFMS50
1	4030100004	Hood panel	1	TMG-TFMS60
	4030100007		1	TMG-TFMS72
2	TFMS.07.00.000	Gearbox drive assy	1	
3	4030100009	Skate - L	1	
4	4030100010	Skate - R	1	
5	7040100006	Plain washer 12	72	
6	7010100005	Bolt M12x35	20	
7	7030500006	Locknut M12 class 8	26	
8	7030400001	Nut M16x1.5	1	
9	7010300003	Bolt M16x1.5x50	1	
10	4030100011	Gearbox mounting bracket	1	
11	7040300006	Large plain washer 12	9	
12	7040400006	Spring washer 12	17	
13	N/A	N/A	N/A	
14	7030500018	Locknut M12 class 5	8	
15	7010100008	Bolt M12x40	18	
16	4030100012	Raker	1	
17	4020000007	Raker pin	1	
18	4300100001	R pin φ4x75	1	
19	4010000014	Tension plate	1	
20	7040300007	Large plain washer 14	2	
21	7040100007	Plain washer 14	2	
22	7030500007	Locknut M14	2	
23	7010100009	Bolt M14x35	2	
	4050000003	Driving pulley - 3 grooves	1	TMG-TFMS50, TMG-TFMS60
24	4050000001	Driving pulley - 4 grooves	1	TMG-TFMS72
	405000004	Driven pulley - 3 grooves	1	TMG-TFMS50, TMG-TFMS60
25	4050000002	Driven pulley - 4 grooves	1	TMG-TFMS72
26	4130000001	Swellable sleeve Z3-35x60	2	
	44 = 2 - 2 - 2 - 2	- 1:	3	TMG-TFMS50, TMG-TFMS60
27	4150100001	Belt B991	4	TMG-TFMS72
28	4030100014		1	TMG-TFMS50, TMG-TFMS60
	4030100013	- Pulley cover	1	TMG-TFMS72
29	7010200001	Bolt M12x130	1	TMG-TFMS72
	7010200002	Bolt M12x110	1	TMG-TFMS50, TMG-TFMS60
30	7070100002	Bearing seat	2	
	4030100016	-	1	TMG-TFMS50
31	4030100018	Roller	1	TMG-TFMS60
-	4030100021	1	1	TMG-TFMS72
32	4010000015	Roller mounting plate - R	1	

33	4010000016	Roller mounting plate - L	1	
	4030100023		2	TMG-TFMS50
34 403	4030100025	Mud shield	4	TMG-TFMS60
	4030100028		7	TMG-TFMS72
35	7040100004	Plain washer 8	6	
36	7030500016	Locknut M8	2	
	402000010		1	TMG-TFMS50
37	4020000012	Guard chain rod	1	TMG-TFMS60
	4020000015		1	TMG-TFMS72
38	7040100005	Plain washer 10	2	
39	7100100001	Cotter pin φ3x25	2	
40	4100200006	PTO dust cover	1	
41	7040400004	Sping washer 8	4	
42	7010100006	Bolt M8x20	4	
43	4300400002	Pressure lubricator M8x1	2	
44	7070100003	Bearing seat	2	
45	7010100004	Bolt M12x30	8	
46	4100500002	Oil seal TC55x80x8	1	
47	4020000022	Oil seal sleeve L=48	1	TMG-TFMS50, TMG-TFMS60
47	4020000020	Oil seal sleeve L=65	1	TMG-TFMS72
	4030100034		1	TMG-TFMS50
48	48 4030100036	4030100036 Blade axle	1	TMG-TFMS60
	4030100039		1	TMG-TFMS72
49	4100200007	Cover 30x30	1	
		20	TMG-TFMS50	
50	7010500006	Bolt M16x1.5x85	24	TMG-TFMS60
			32	TMG-TFMS72
			20	TMG-TFMS50
51	7030800001	Locknut M16x1.5	24	TMG-TFMS60
			32	TMG-TFMS72
			20	TMG-TFMS50
52	4290200002	Hammer blade	24	TMG-TFMS60
			32	TMG-TFMS72
53	4030100043	Connecting bracket - R	1	
54	4030100044	Connecting bracket - L	1	
55	4030100045	Slippage bracket - R	1	
56	4030100046	Slippage bracket - L	1	
57	4020000028	Guide rail L=1218	2	
58	4020000029	Supporting tube L=705	2	
59	4030100042	Cylinder seat	1	
60	407000001	Slippage cylinder	1	
61	4020000032	Cylinder sleeve	1	
62	4030100047	Hitch	1	
63	4010000020	Splint	7	
64	7010200004	Bolt M10x70	4	

65	7030500017	Locknut M10	4	
66	402000030	Nylon bushing	4	
67	7040100013	Plain washer 18	6	
68	7040400013	Spring washer 18	4	
69	7010100010	Bolt M18x40	4	
70	7030800002	Locknut M18x1.5	2	
71	402000017	Hitch pin - upper	1	
72	4300100004	Safety lock pin φ11x50	3	
73	402000001	Hitch pin - lower	2	
74	7040200010	Plain washer 22	2	
75	7030500019	Locknut M22	2	
76	4300400001	Pressure lubricator M6x1	4	
77	7040600001	Combined sealing gasket 12	4	
78	4080100002	Oil pipe L=1900	1	
79	4080100001	Oil pipe L=1500	1	
80	7010600001	Hollow bolt M12x1.25x32	2	
81	7040600005	Combined sealing gasket 22	2	
82	7020300001	HSCHS M8x25	10	
83	4080100003	G1/2" adaptor (male)	2	
84	7030400002	Nut M18x1.5	1	
	4020000040	Chain spacer	54	TMG-TFMS50
85			68	TMG-TFMS60
			81	TMG-TFMS72
	4270100002	Guard chain	53	TMG-TFMS50
86			67	TMG-TFMS60
			81	TMG-TFMS72
87	4100200010	Round plug φ14 orange	8	
88	7090200002	Circlip for hole φ60	4	

TMG-TFMS50/TMG-TFMS60/TMG-TFMS72 Gearbox Assembly Breakdown



PART NO.	REF. NO.	PART DESCRIPTION	QTY.	REMARK
1A	4040100002	50HP Gearbox	1	
2A	4020000005	Shaft sleeve	1	
3A	4020000024	Shaft	1	TMG-TFMS50, TMG-TFMS60
	4020000006		1	TMG-TFMS72
4A	7080100001	Key A 10x40	1	
5A	4030100008	Shaft tube	1	
6A	7040400006	Spring washer 12	4	
7A	7020100002	HSCS M12x35	4	
8A	7060100001	Deep groove ball bearing 6207- 2RS	1	
9A	4100500001	Oil seal TC35x72x10	1	
10A	7090200001	Clicirp for hole φ72	1	