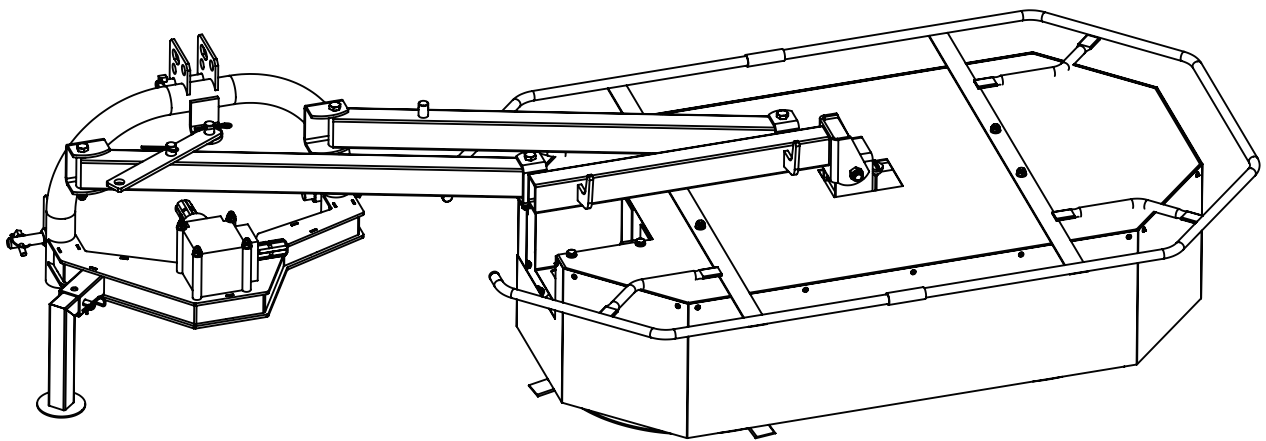


DM53 DRUM MOWER



Operator's Manual

MechMaxx

www.mechmaxx.com

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SPECIFICATIONS

Model	DM53
Cutting Width	53 in
Cutting Height	1 in
Number Of Drums	2
Number Of Cutting Blades	8
Tractor Power	25-40 HP
Length	99.6x37.5x26 in
Working Capacity	1.35ha/h
P.T.O Speed (R/Min)	540
Gearbox Oil Type	SAE90.EP
Working Speed (Mph)	8-10 km/h
Weight (N.W./G.W.)	406/474 lbs

SAFETY LABELS

LABEL LOCATIONS

⚠ WARNING



MUST ADD OIL BEFORE FIRST USE

⚠ WARNING ⚠

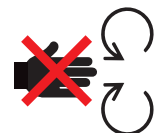
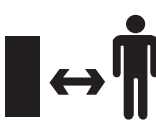
The PTO driveline **MUST** be measured and cut, if required, according to the Owner's Manual. Failure to do so will result in damage to both the tractor and the implement.

⚠ CAUTION ⚠



Read operation manual before using machine

1. Do not wear loose clothes while working.
2. Do not operate after drunk, over fatigue, ill and pregnant, do not allow children to use this machine
3. Make sure it is safe around before operating this machine.
4. Inspect and adjust the machine before operating.
5. Disengage drives including PTO and stop engine before inspection, adjustment or cleaning.
6. Keep all covers in position after inspection, adjustment or cleaning.
7. If lend this machine to others, make sure that he read the instruction manuals carefully before operating.

					⚠ DANGER
					     

⚠ CAUTION To avoid Injury or Machine Damage:
Operate only with 540 rpm PTO

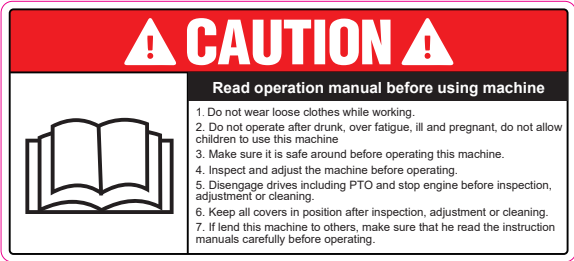
540 RPM ONLY

SAFETY LABELS

The machines use international pictorial labels where needed. These labels are described below:

NOTE: These molded-in label contains important safety and operating information. If the label becomes illegible, replace it immediately. Contact MechMaxx or an authorized service dealer for replacement labels.

Label	Meaning
	WARNING! Oil must be added before first use.

Label	Meaning
	WARNING! The PTO driveline MUST be measured and cut, if required, according to the Owner's Manual. Failure to do so may damage both the tractor and the implement.
	CAUTION! Read and understand the operator's manual before use. Wear proper clothing and do not operate the machine when intoxicated, fatigued, ill, or pregnant. Keep children away from the machine. Check the surrounding area and inspect the machine before operation. Before inspection, adjustment, or cleaning, disengage all drives, including the PTO, and stop the engine. Reinstall all guards and covers before use. When lending the machine to others, ensure they read the manual carefully before operating.
	DANGER! Read the manual before operation. Keep hands, feet, and bystanders away from moving parts. Wear proper personal protective equipment.
	CAUTION! To avoid injury or machine damage, operate only with a 540 rpm PTO.

IMPLEMENT IDENTIFICATION

An identification nameplate is affixed to the frame of each implement. The nameplate includes information such as the model, type, serial number, and weight. The nameplate shown below is for reference only; please refer to the actual product.

MechMaxx DRUM MOWER RELIABLE EFFICIENT VALUE			
Model:		Cutting width:	
Tractor Power:		No. of Blades:	
PTO Speed:		No. of Drums:	
Year:		Serial No.:	
www.mechmaxx.com			

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 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.

Detach and store implements in an area where children normally do not play. Secure implement by using blocks and supports.

TRANSPORT MACHINERY SAFELY

1. Comply with state and local laws.
2. Maximum transport speed for implement is 18 mph. 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.
3. Sudden braking can cause a towed load to swerve and upset. Reduce speed if towed load is not equipped with brakes.
4. Do not tow an implement that, when fully loaded, weighs more than 1.5 times the weight of towing vehicle.

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. Inspect all parts. Make sure parts are in good condition and installed properly.
7. Remove buildup of grease, oil or debris.
8. Remove all tools and unused parts from implement before operation.
9. Prepare for emergencies
10. Be prepared if a fire starts.
11. Keep a first aid kit and fire extinguisher handy.
12. Keep emergency numbers for doctor, ambulance, hospital and fire department near phone.

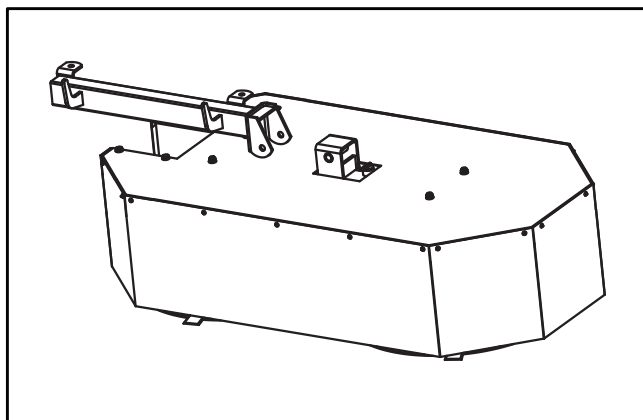
WEAR PROTECTIVE EQUIPMENT.

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

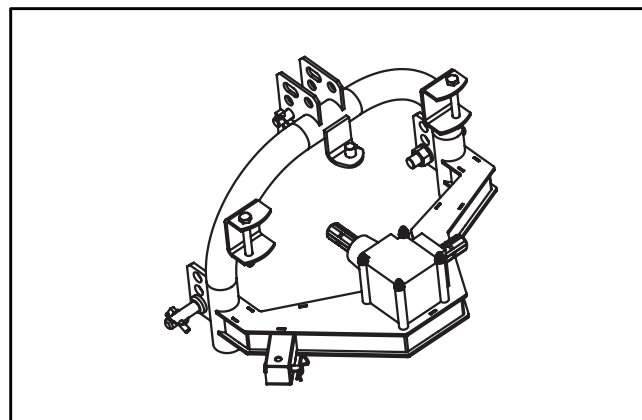


CONTENTS SUPPLIED

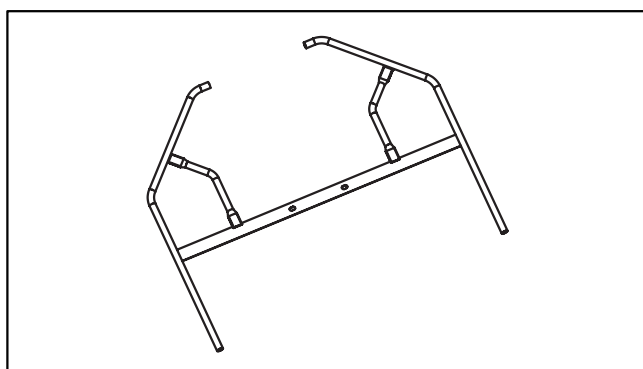
Your Drum Mower comes partially assembled and contains the following:



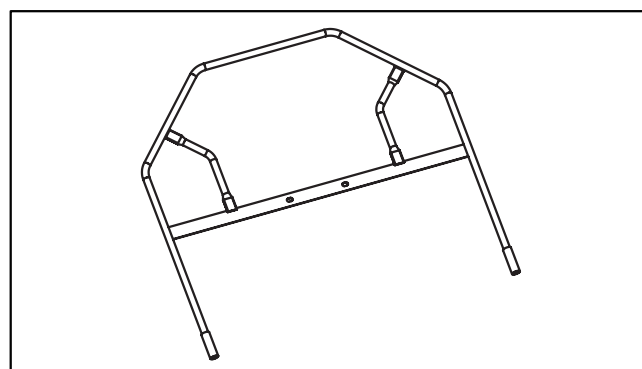
1x Main Frame



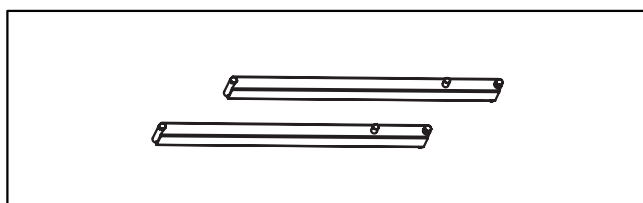
1x Hitch Assembly



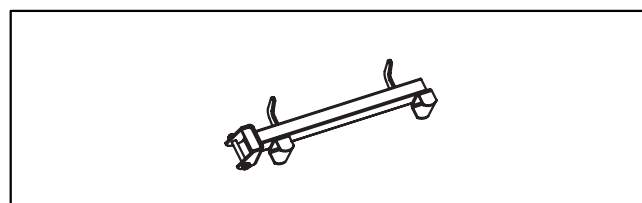
1x Right Guard Cover



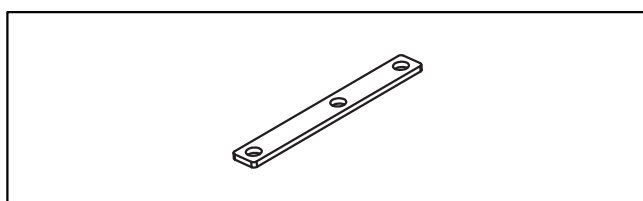
1x Left Guard Cover



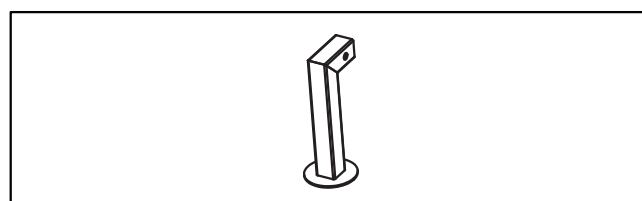
1x Vertical Arm



1x Swing Arm



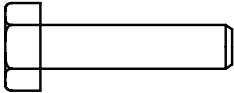
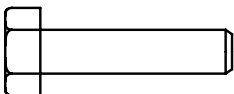
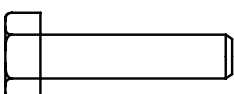
1x Panel

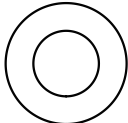
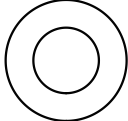
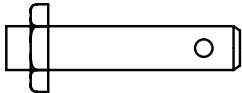


1x Parking Leg

*If any parts are missing or damaged, please contact us.

TO-SCALE HARDWARE

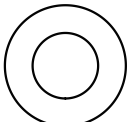
Hex lock nut M10	 X8
Hex lock nut M14	 X4
Hex lock nut M16	 X1
Hex bolt M10 X 50mm	 X8
Hex bolt M14 X 120mm	 X4
Hex bolt M16 X 120mm	 X4

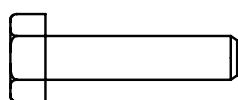
Flat washer 10	 X8
Flat washer 14	 X4
Pin Shaft 12x70	 X1
Type B Pin M3.5x75	 X3

ASSEMBLY

Following the assembly directions below, you will assemble the machine in a few minutes.

PROTECTIVE COVER ASSEMBLY

Flat washer 10	 X8
Hex lock nut M10	 X4

Hex bolt M10 X 50mm	 X4
--------------------------------	--

1. Align the tubes of the left and right guard covers.
2. Insert the Right Guard Cover into the Left Guard Cover, as shown in the figure. (See Figure 1)

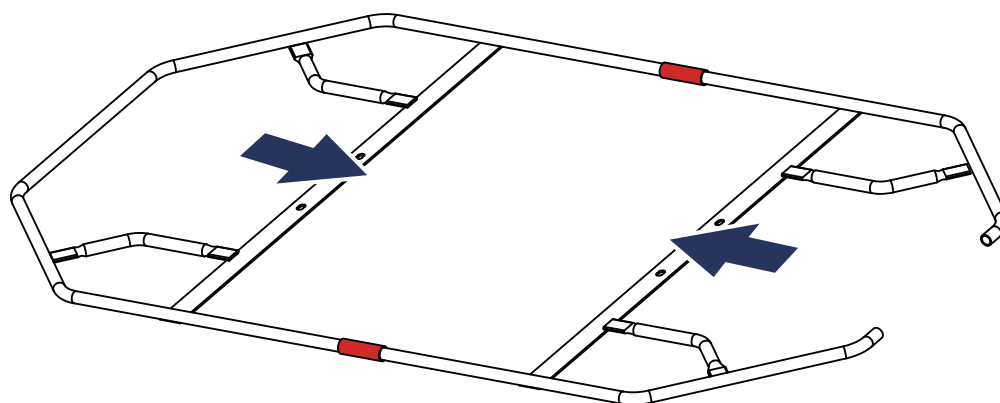


Figure 1

3. Align the four holes on the guard cover with the holes on the Main Frame.
4. Secure the cover to the hood using Hex Lock Nuts M10, Flat Washers 10, and Hex Bolts M10 × 50 mm. The heads of the four bolts should be positioned under the hood, while the lock nuts should be positioned on top of the guard cover. (See Figure 2)

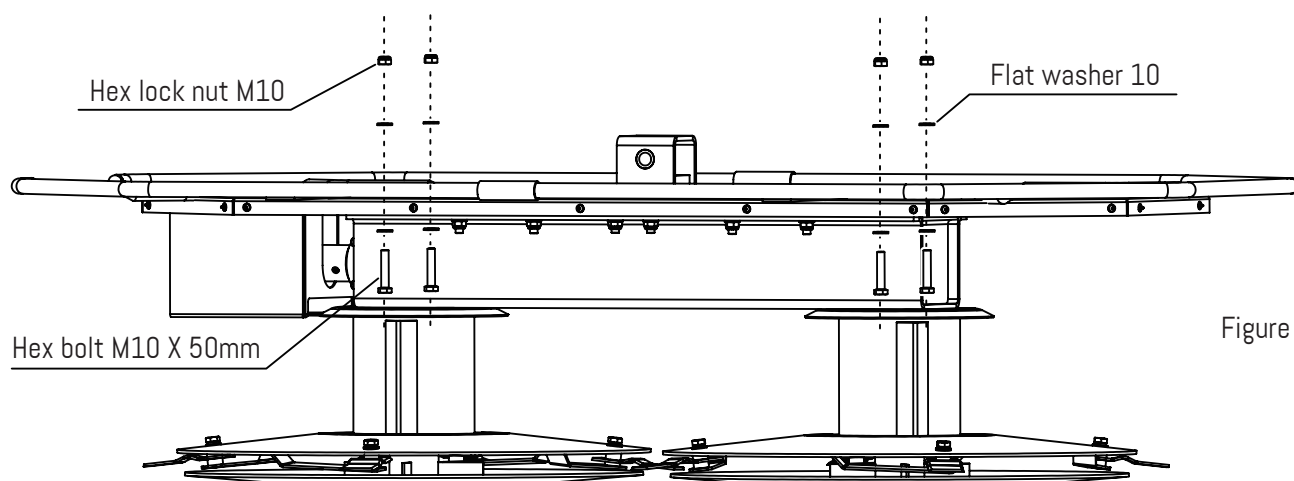
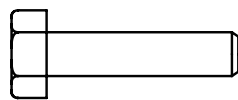


Figure 2

SWING ARM ASSEMBLY

Hex lock nut M16	 X1	Hex bolt M16 X 120mm	 X4
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1. Align the two holes on the Swing Arm with the outside of the lugs on the Main Frame.
2. Secure it using Hex Bolt M16 × 120 mm and Hex Lock Nut M16. (See Figure 3)

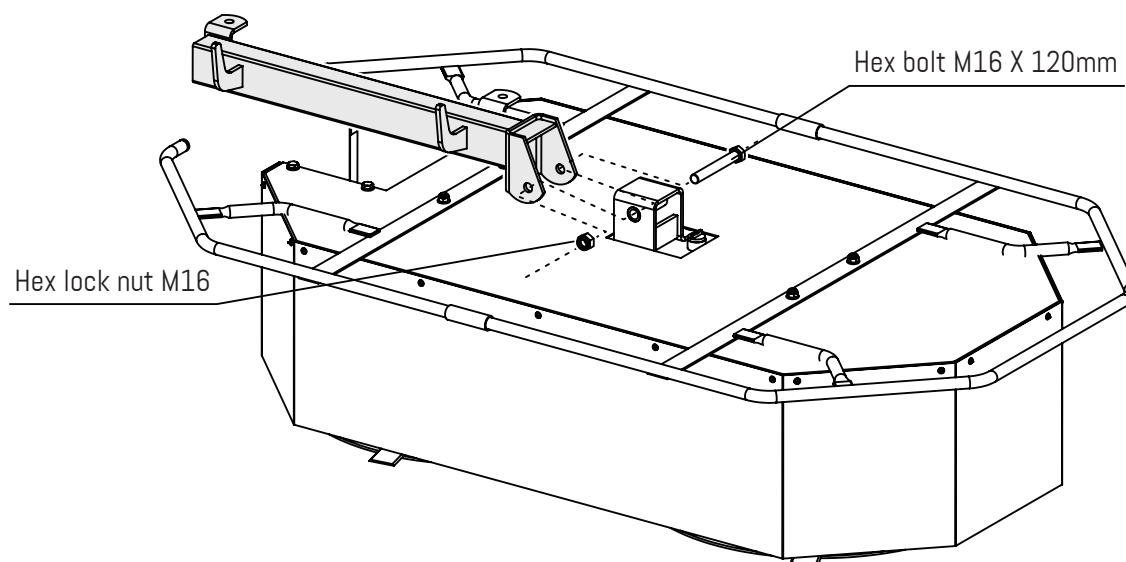
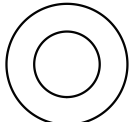
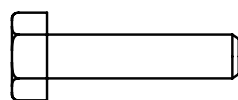


Figure 3

VERTICAL ARM ASSEMBLY

Flat washer 14	 X2	Hex bolt M14 X 120mm	 X2
Hex lock nut M14	 X2		

1. Align the two holes on the Vertical Arm with the lugs on the Swing Arm.
2. Secure the Vertical Arm to the inside of the lugs using Flat Washers 14, Hex Lock Nuts M14, and Hex Bolts M14 × 120 mm. (See Figure 4)

The bolts should pass through the Vertical Arm and the lug seat from top to bottom.

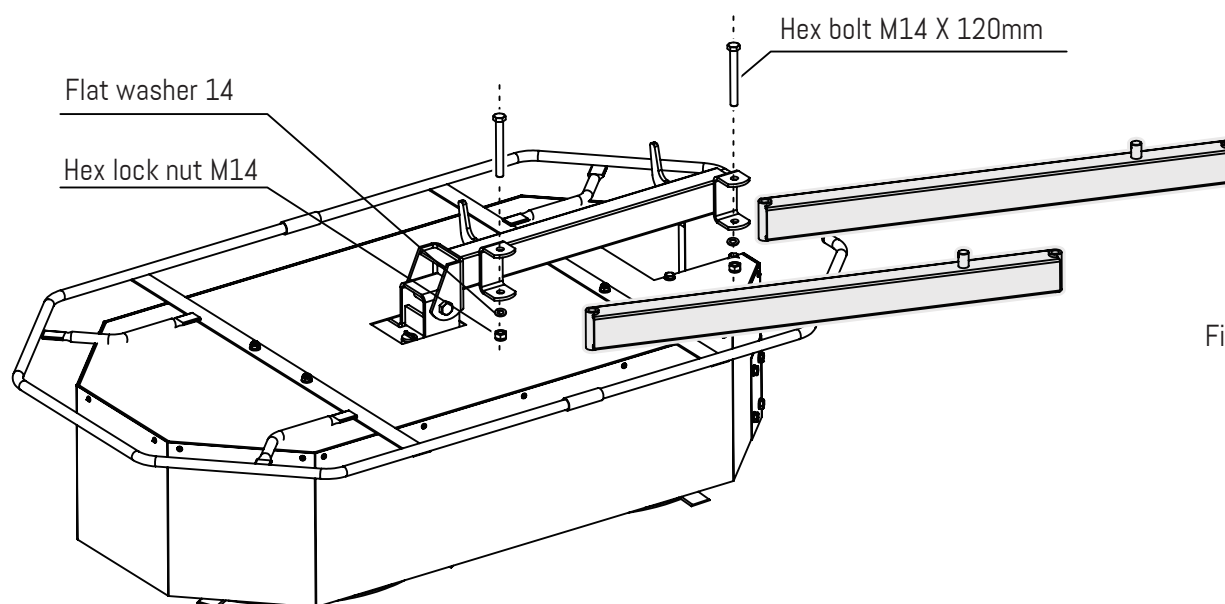
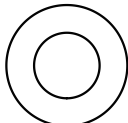
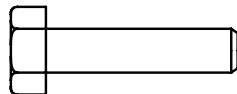


Figure 4

INSTALLING THE HITCH ASSEMBLY

Flat washer 14		X2
Hex lock nut M14		X2

Hex bolt M14 X 120mm		X2
---------------------------------	--	-----------

1. Adjust the positions of the two Vertical Arms so that they fit into the openings of the Hitch Assembly connecting plates.
2. Align the four holes on the Hitch Assembly with the holes on the Vertical Arms.
3. Secure the Vertical Arms to the inside of the lugs using Flat Washers 14, Hex Lock Nuts M14, and Hex Bolts M14 × 120 mm. (See Figure 5)

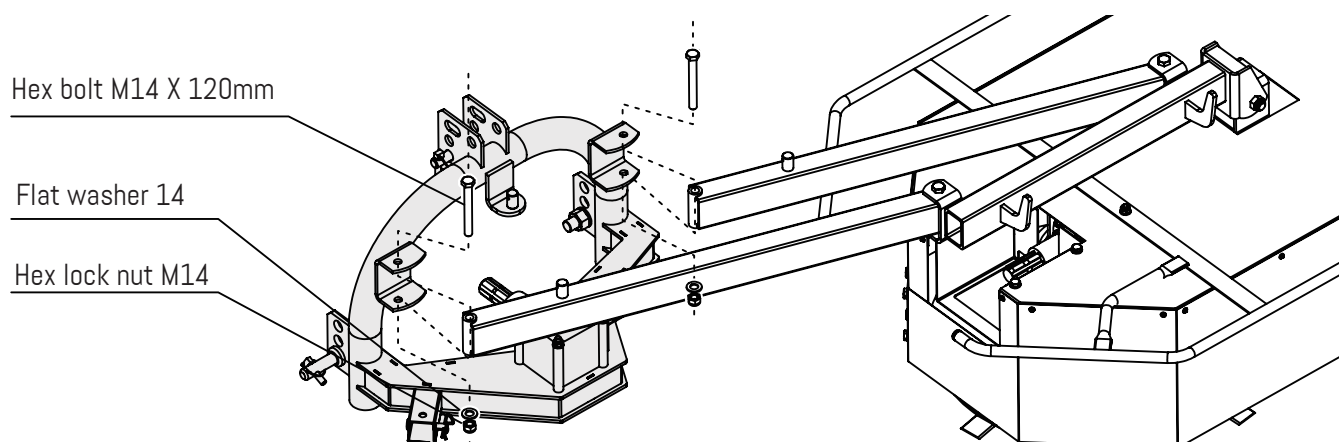
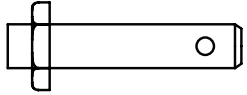
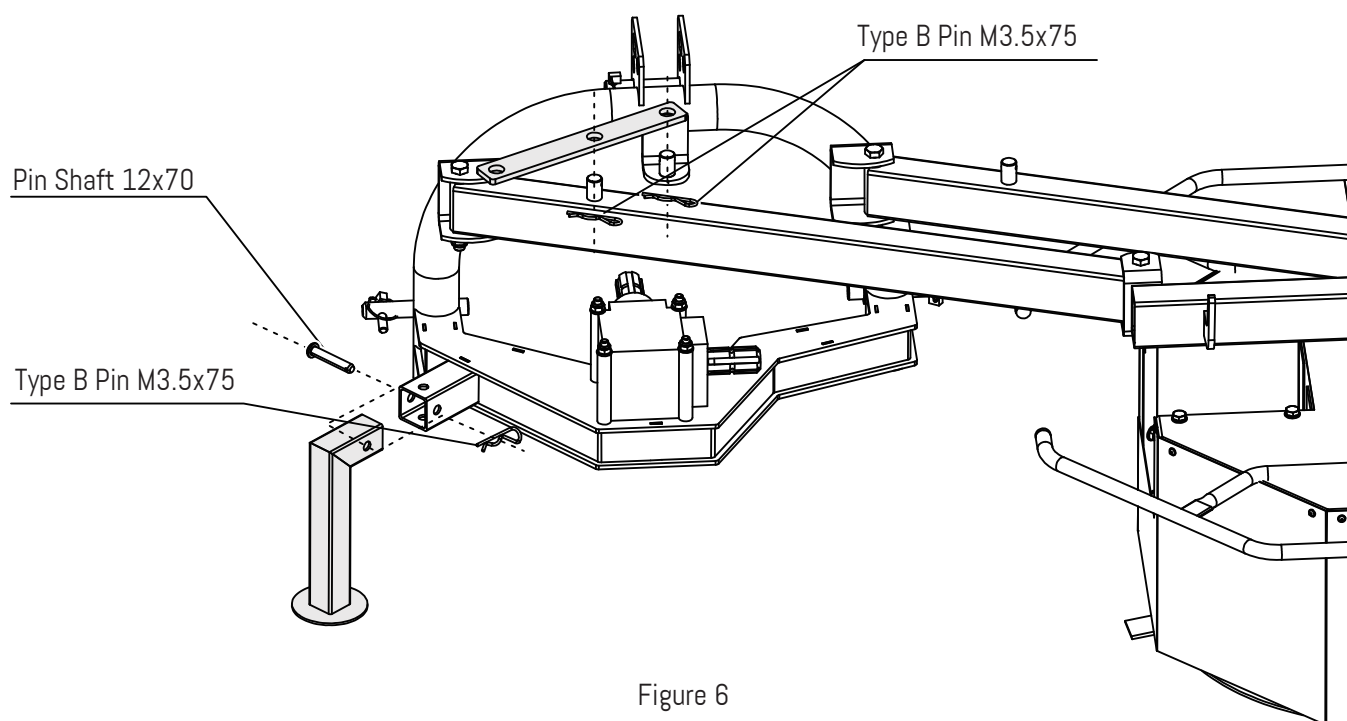


Figure 5

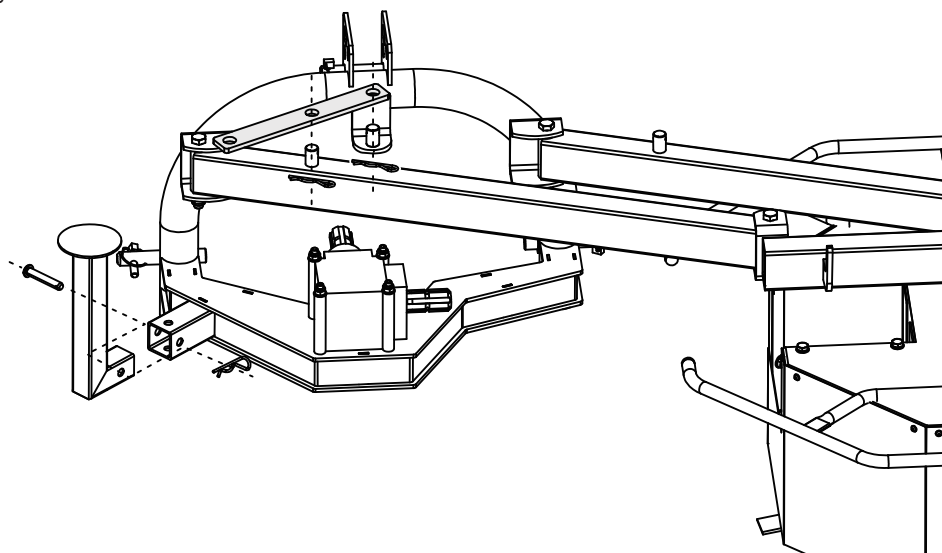
PARKING LEG ASSEMBLY

Pin Shaft 12×70	 X1	Type B Pin M3.5×75	 X3
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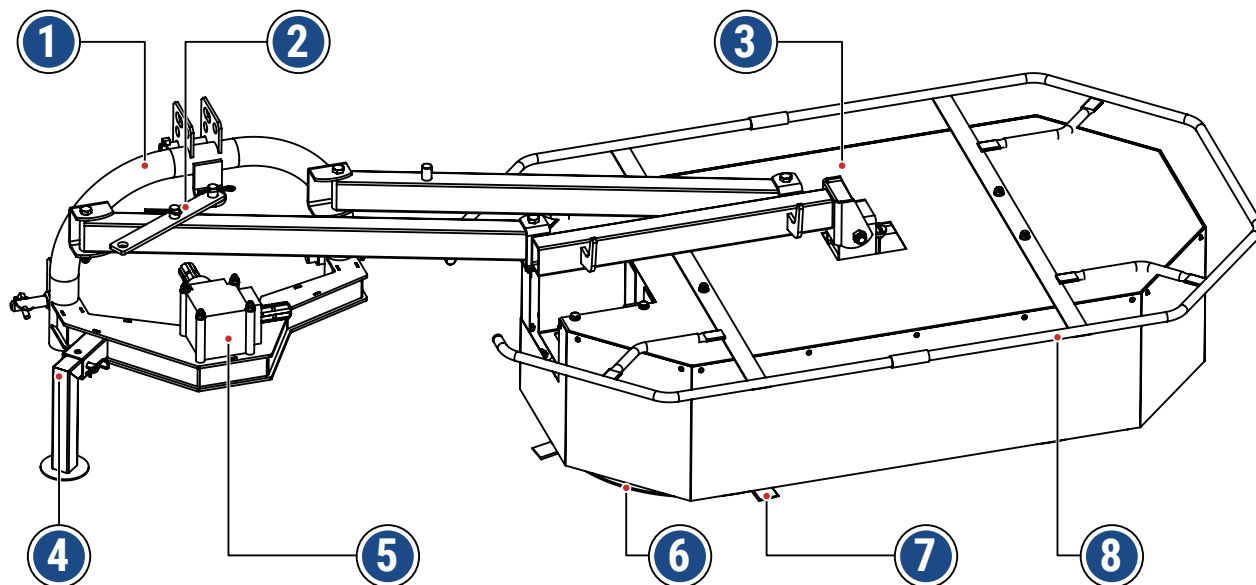
1. Align the tube of the Parking Leg with the mounting position on the Hitch Assembly.
 2. Insert the Pin Shaft 12×70 through the holes and secure it with the Type B Pin M3.5×75.
 3. Insert the Panel into the slot of the Vertical Arm and secure it with the Type B Pin M3.5×75. (See Figure 6)
- Two positions are available for adjustment.



Transportation and storage location:



MACHINE DESCRIPTION



- 1. Drawbar
- 2. Shaft locking bracket
- 3. Hood
- 4. Parking Leg

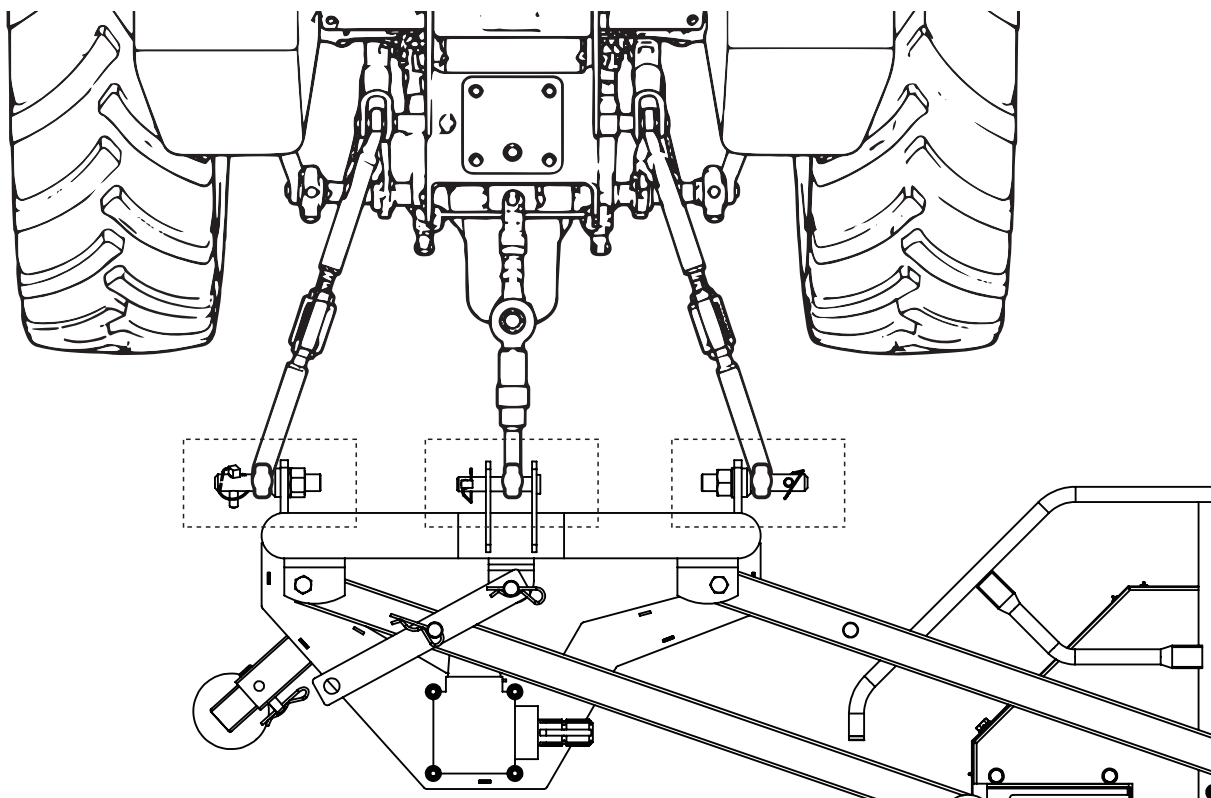
- 5. Step-up unit
- 6. Blade disc
- 7. Blade
- 8. Guard Cover

CONNECTION TO THE TRACTOR



- Only the operator is allowed within 50 meters of the machine.
- The operator must remain near the machine until all connection operations are complete.
- Never stand on, step over, or pass over the PTO shaft or the space between the machine and the tractor for any reason.
- For safety, always connect the machine on level ground.
- After completing the connection, keep the machine on level ground.

1. Align the lower hitch arms with the implement hitch pins and secure them with locking pins.
 2. Attach the upper link in the same way.
 3. Start the tractor and slowly raise the rear hitch to lift the mower.
 4. Move the spreader pins on both sides to the top position and secure them in the last holes.
- To disconnect the implement, follow the steps above in reverse order.



After connecting the machine to the tractor, make sure the shear pins have been inserted in all the three coupling pins and cannot come loose.

7. When the machine is used laterally, the plate should be placed in the position shown in Figure 7 and secured with the Type B Pin M3.5×75.

8. If the support leg is installed, raise it before operation.

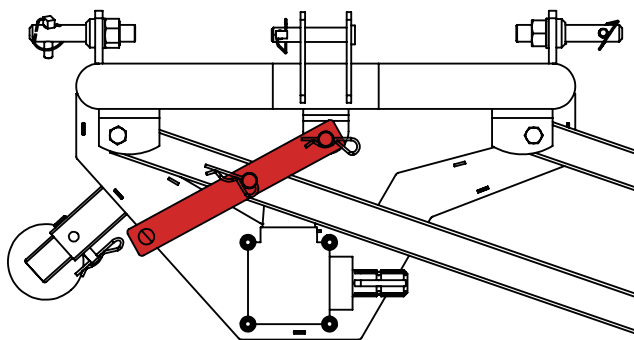


Figure 7

DRIVELINE INSTALLATION

Listed below are common practices that may or may not be applicable to the products described in this manual.



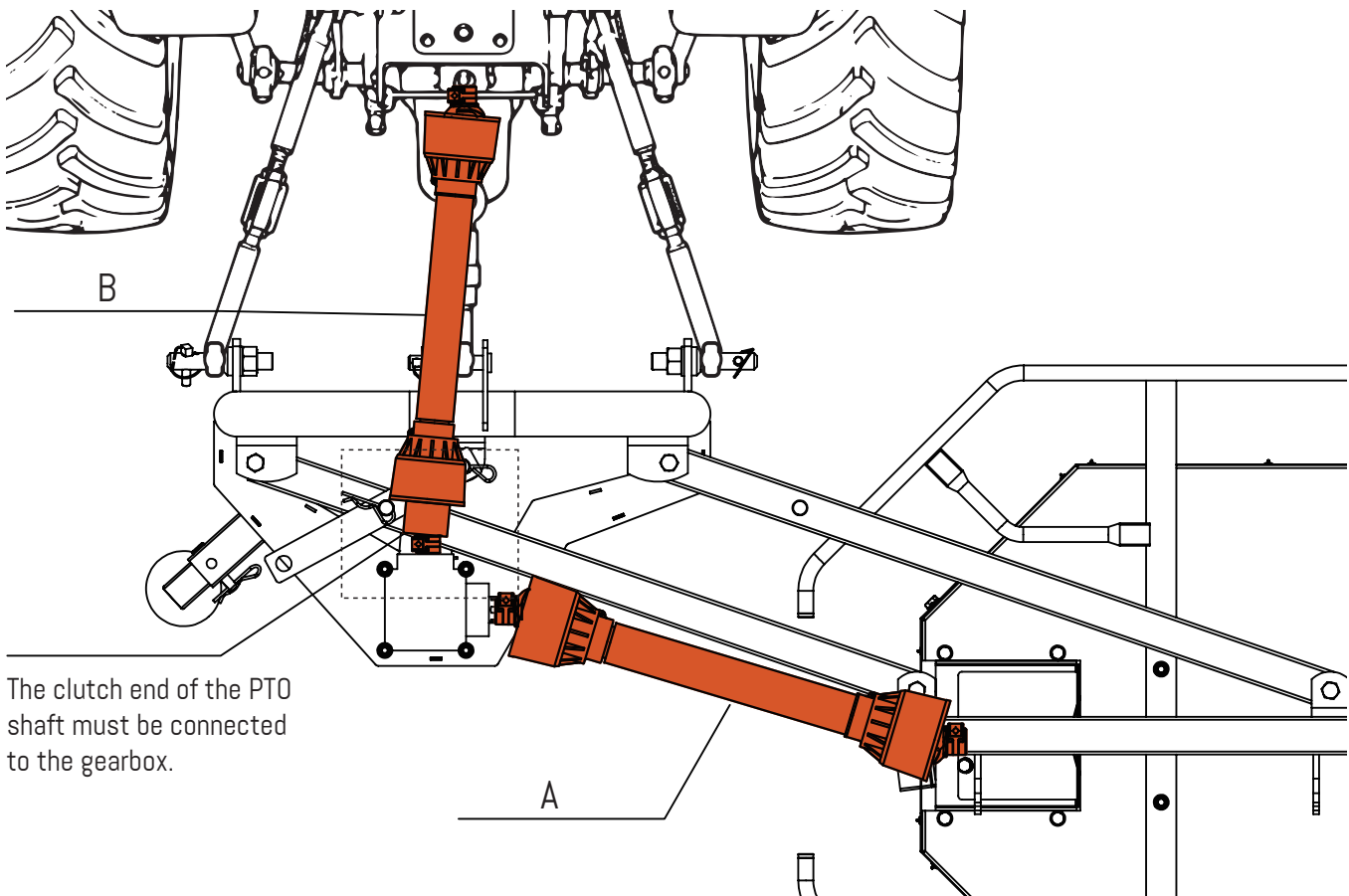
CAUTION

Do not engage tractor PTO while hooking-up and unhooking the prop shaft or stand near a rotating prop shaft. A person's body and/or clothing may get entangled to cause severe injury.

Do not use a power take-off adapter. The adapter will increase strain on the tractor's power take-off shaft causing possible damage to shaft and driveline. It will also defeat the purpose of the tractor's power take-off shield.

Make certain driveline yokes are securely fastened at each end. A loose yoke can work free allowing the driveline to rotate uncontrollably.

- After shutting off the tractor engine, install the cardan shaft onto the splined shaft of the implement and connect it to the tractor PTO shaft. Refer to the label attached to the cardan shaft for the connection point and direction of rotation.
- The cardan shaft without clutch between the two gearboxes (A) must be installed first, followed by the cardan shaft with clutch connecting the machine to the tractor (B).
- After installation, check to make sure the driveline operates properly and is not obstructed.



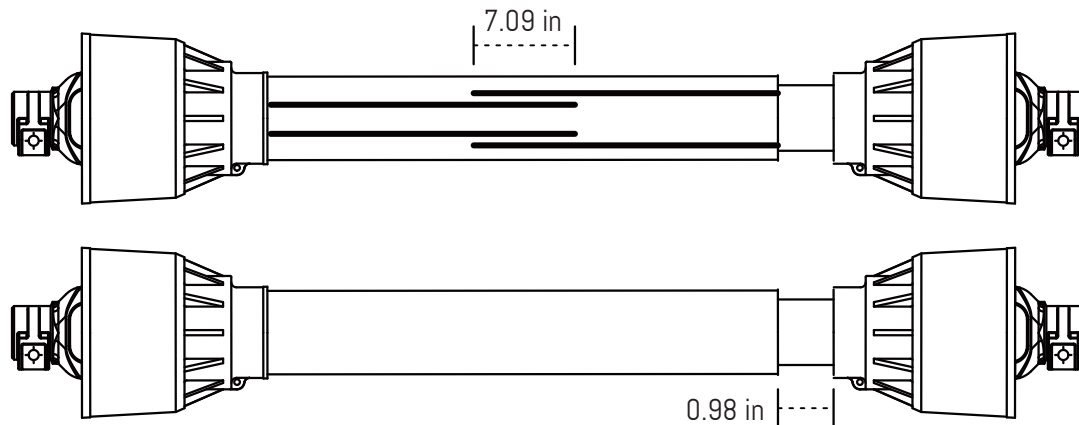
The clutch end of the PTO shaft must be connected to the gearbox.

SHORTENING THE PTO SHAFT

Before operating the mower, ensure that the PTO driveshaft length is suitable. The driveshaft supplied with the machine is a standard length; therefore, it may need to be shortened or adjusted depending on the tractor used with the mower.

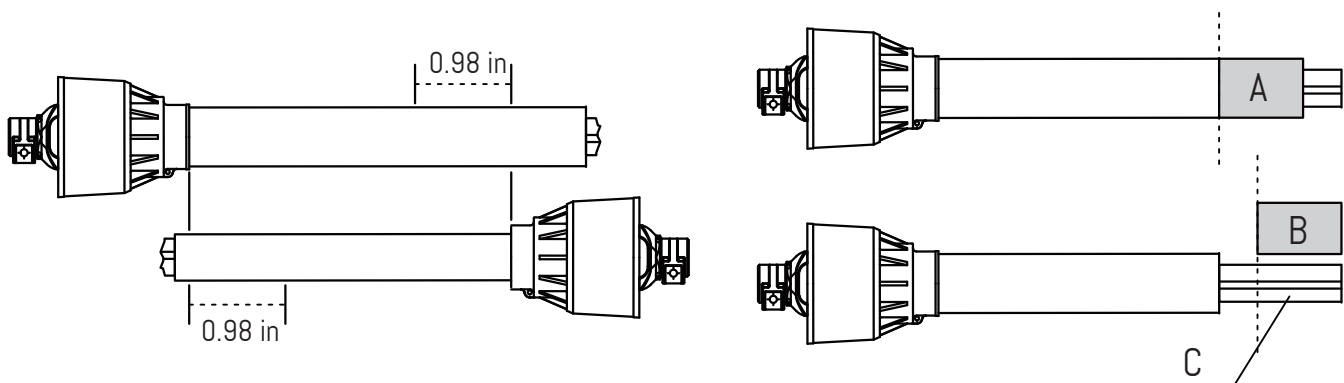
NOTICE: When checking the minimum driveline length, make sure the tractor PTO shaft and gearbox input shaft are aligned and level. An excessively long driveline may damage the tractor and implement.

In all operating positions, the minimum overlap of the cardan shaft must be at least 7.09 in. (180 mm). At the maximum coupling position, the cardan shaft must have a minimum clearance of 0.98 in. (25 mm).



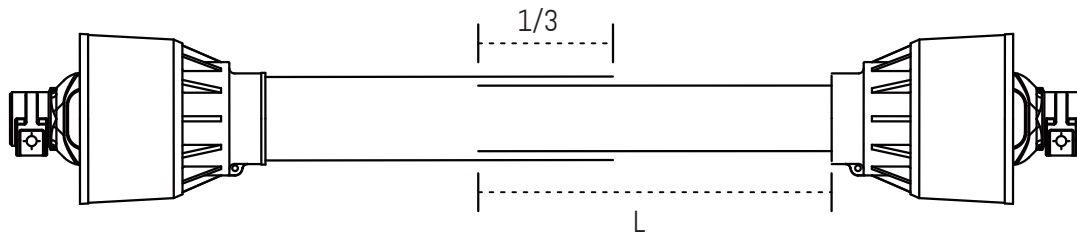
ADJUSTING THE PTO SHAFT

1. Position the machine as close as possible to the tractor. Secure the tractor, shut off the engine, and remove the ignition key.
2. Separate the two halves of the cardan shaft. Install the female half onto the tractor PTO and the male half onto the machine PTO, making sure they are correctly positioned and secured with the locking pins.
3. Place the two shaft halves parallel to each other, as shown in Figure 1.
4. Mark the points where the two shaft halves need to be shortened. Measure 0.98 in. (25 mm) from the starting point of each half, as shown in Figure 1.
5. Cut the guard cover (A), then use the cut section (B) as a reference to cut the splined shaft (C).
6. Repeat the same procedure for the other half of the shaft.



7. Before reassembling the shaft, clean both ends by removing burrs and beveling the two splined shafts. Remove all chips and cuttings.
8. Join the two halves of the shaft together.
9. Install the cardan shaft and check that it meets the required operating dimensions described in the previous section.

NOTE: Make sure the inner and outer splined profiles overlap by at least one-third of the total length (L).



Note: If you have any problem during operation and assembly please contact us for technical supporting!

OPERATION

CHECKLIST BEFORE OPERATION

**CAUTION**

Hazard control and accident prevention depend on the awareness, care, good judgment, and proper training of personnel involved in the operation, transport, storage, and maintenance of the mower.

Therefore, no one should operate this machine without first reading, fully understanding, and becoming familiar with the Operator's Manual.

Make sure all operators have completed the checklist below before operating the mower.

Before operating the machine, carefully inspect the following items:

1. Before starting the machine, check and lubricate all grease points on the machine and PTO driveshaft. Check the oil level in the gearbox and add oil if necessary.
2. Use only an agricultural tractor with horsepower within the specified range for the implement.
3. Make sure the machine is properly attached to the tractor. Ensure that retainers are installed on all mounting pins.
4. Make sure front ballast weights are installed on the tractor if required.
5. Check that the tractor PTO shaft rotates freely and that the machine driveline telescopes smoothly.
6. Check the blades. Make sure they are not damaged or broken and can swing freely in their mounts. Repair or replace them if necessary.
7. Check and tighten the blade bolts.
8. Check all rotating parts for entangled material and remove any debris.
9. Install and secure all guards, hooks, and covers before starting the machine.
10. Before installing the PTO shaft, make sure the engine is stopped and the PTO shaft is in safe working condition.
11. Keep all bystanders away from the area before engaging tractor power.
12. Before cleaning, repairing, or lubricating the machine, stop the engine and remove the ignition key.
13. When the PTO shaft is not connected to the tractor, support it on the frame to keep it from lying in the dirt.
14. Do not approach the machine while it is operating.
15. Before transport, make sure the mounting plate (A) is installed in the second hole and remove the support leg weldment (B). See Figure 12.
16. During operation, adjust the working width of the mower using the holes in the retaining plate.

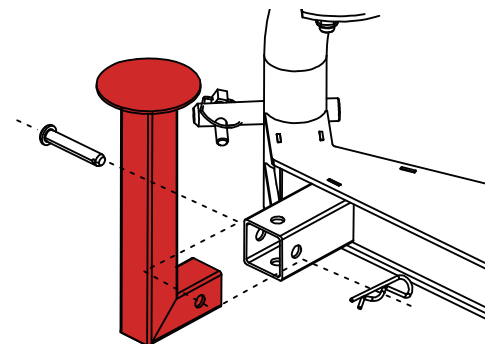
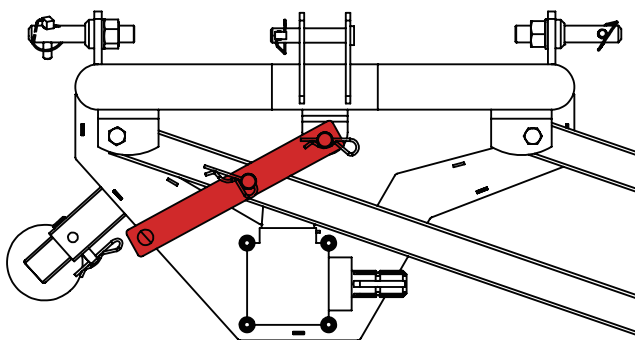


Figure 12

LEVELING ADJUSTMENT

Leveling adjustments are made using the tractor's 3-point lower lift arms and top center link.

1. Park the tractor and mower on a flat, level surface.
2. Slowly raise the mower with the tractor's 3-point hydraulic lift until the unit is approximately 1 to 2 in. above the ground.
3. Make sure the lower lift arms are stabilized to prevent excessive side-to-side movement.
4. Place a spirit level on the top cover from left to right. Adjust one of the lower 3-point lift arms up or down until the mower is level from side to side.
5. Adjust the tractor's top center link so that the upper hitch pin is vertically above, or slightly behind, the lower hitch pins.
6. Slowly operate the tractor's 3-point hydraulic control up and down to check for clearance between the tires, frame, and drawbar.

SERVICE AND MAINTENANCE

GENERAL SERVICE

The recommended maintenance intervals are based on normal operating conditions. Severe or unusual operating conditions may require more frequent service.

Every 4 Hours of Operation

- Check and tighten all nuts and bolts.
- Inspect for oil leaks around the housing, seals, flanges, and fittings. Check beneath the gearbox for oil accumulation.

After the First 50 Hours of Operation

- Drain and replace the gearbox oil after the first 50 hours of operation.
- After the initial oil change, replace the gearbox oil every 250 hours.

GEARBOX MAINTENANCE

Drain the oil from the gearbox completely. Check and clean the gearbox, then fill it with new gear oil to the specified oil level. For the recommended gear oil capacity, see Technical Data.

The draining procedure is as follows:

1. Remove the drain plug from the oil outlet and allow the oil to drain completely.
2. After the oil has drained, reinstall the drain plug.
3. Remove the inspection port bolt and sealing ring.
4. Fill the gearbox with gear oil until the oil begins to overflow from the inspection port, then stop filling.
5. Reinstall the inspection port bolt and sealing ring.

PTO SHAFT MAINTENANCE

During heavy use, it is recommended to lubricate the PTO shaft with multi-purpose grease every 8 to 10 hours of operation.

The PTO shaft is designed to telescope to accommodate dimensional changes as the machine moves through its operating range. A tubular guard encloses the drive components and is designed to rotate independently of them. The shaft should telescope smoothly, and the guard should rotate freely on the shaft at all times.

Annual disassembly, cleaning, and lubrication are recommended to ensure that all components function properly.

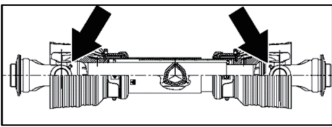
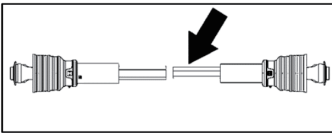
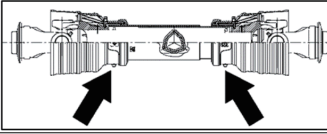
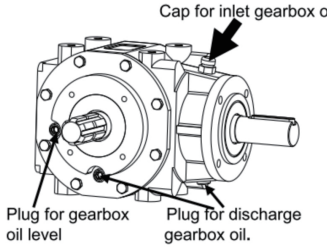
To maintain the PTO shaft, follow these steps:

1. Remove the PTO shaft from the machine.
2. Pull the shaft apart.
3. Use a screwdriver to pry the tabs out of the sleeves on each end.
4. Pull the shaft out of the plastic tubular guard.
5. Use solvent to clean the male and female telescoping sections.
6. Apply a light coat of grease to each section.
7. Clean the grooves on each end where the tabs are located, and clean each tab as well.
8. Apply a light coat of grease to each groove.
9. Insert the shaft into its corresponding guard and align the slots with the groove.
10. Insert the tabs through the slots and seat them in the groove.
11. Check that each guard rotates freely on the shaft.
12. Reassemble the shaft.

13. Check that the shaft telescopes smoothly.
14. Replace any damaged or worn components.
15. Install the PTO shaft on the machine.

LUBRICATION PARTS

Lubrication parts list:

Interval	Type	Name	Parts Image	Remark
 25 HOURS	 Multi-purpose Grease	Driveline Shaft U Joints		Quantity - 4 to 8 Pumps
		Driveline Profiles		Quantity - Clean & coat inner profile tube of driveline with a light film of grease and then reassemble.
		Inner Tube Bearings		Quantity - As Required
 AS REQUIRED	 Type of Lubrication: 85w/90	Gearbox		Do not overfill! Should your gearbox require service, take it to your Manufacturer dealer.
 25 HOURS	 Multi-purpose Grease	Other parts	If the GREASE labels () are posted on the machine, you need to lubricate it regularly. Recommend lubrication interval is 25hours.	

TIGHTENING TORQUE

Please follow the table below to identify the torque value as required.

TORQUE VALUES CHART FOR COMMON BOLT SIZES													
Bolt Size (Inches) in-tpi ¹	Bolt Head Identification						Bolt Size (Inches) mm x pitch ⁴	Bolt Head Identification					
													
	N.m ²	ft-lb ³	N.m	ft-lb	N.m	ft-lb		N.m	ft-lb	N.m	ft-lb	N.m	ft-lb
1/4"-20	7.4	5.6	11	8	16	12	M5X0.8	4	3	6	5	9	7
1/4"-28	8.5	6	13	10	18	14	M6X1	7	5	11	8	15	11
5/16"-18	15	11	24	17	33	25	M8X 1.25	17	12	26	19	36	27
5/16"-24	17	13	26	19	37	27	M8X1	18	13	28	21	39	29
3/8" -16	27	20	42	31	59	44	M10X 1.5	33	25	52	39	72	53
3/8" -24	31	22	47	35	67	49	M10X0.75	39	29	61	45	85	62
7/16" -14	43	32	67	49	95	70	M12X 1.75	58	42	91	67	125	93
7/16"-20	49	36	75	55	105	78	M12X 1.5	60	44	95	70	130	97
1/2" -13	66	49	105	76	145	105	M12X1	90	66	105	77	145	105
1/2" -20	75	55	115	85	165	120	M14 X2	92	68	145	105	200	150
9/16"-12	95	70	150	110	210	155	M14 X 1.5	99	73	155	115	215	160
9/16"-18	105	79	165	120	235	170	M16X2	145	105	225	165	315	230
5/8" - 11	130	97	205	150	285	210	M16X 1.5	155	115	240	180	335	245
5/8" -18	150	110	230	170	325	240	M18 X 2.5	195	145	310	230	405	300
3/4" -10	235	170	360	265	510	375	M18 X 1.5	220	165	350	260	485	355
3/4" -16	260	190	405	295	570	420	M20 X 2.5	280	205	440	325	610	450
7/8" -9	225	165	585	430	820	605	M20 X 1.5	310	230	650	480	900	665
7/8" -14	250	185	640	475	905	670	M24X3	480	355	760	560	1050	780
1"-8	340	250	875	645	1230	910	M24 X2	525	390	830	610	1150	845
1"-12	370	275	955	705	1350	995	M30 X 3.5	960	705	1510	1120	2100	1550
1-1/8"-7	480	355	1080	795	1750	1290	M30x2	1060	785	1680	1240	2320	1710
1-1/8" -12	540	395	1210	890	1960	1440	M36 X3.5	1730	1270	2650	1950	3660	2700
1-1/4"-7	680	500	1520	1120	2460	1820	M36X2	1880	1380	2960	2190	4100	3220
1-1/4" -12	750	555	1680	1240	2730	2010	¹ in-tpi = nominal thread diameter in inches-threads per inch ² N.m= newton-meters ³ ft-lb= foot pounds ⁴ mm x pitch = nominal thread diameter in millimeters x thread pitch						
1-3/8"-6	890	655	1990	1470	3230	2380							
1-3/8" -12	1010	745	2270	1670	3680	2710							
1-1/2" -6	1180	870	2640	1950	4290	3160							
1-1/2" -12	1330	980	2970	2190	4820	3560							
Torque tolerance +0%,-15% of torquing values. Unless otherwise specified use torque values listed above.													

- This chart is an approximate estimate of torque values.
- Always tighten hardware to these values unless a different torque value or tightening procedure is listed for a specific application.
- Fasteners must always be replaced with the same grades as specified in the manual.
- Always use the proper tool for tightening hardware; SAE for SAE hardware and Metric for Metric hardware.
- Make sure that fastener threads are clean and that you properly start thread engagement.

REPLACING THE BLADE

Frequently check the rotor blades to make sure they are in good working condition and properly secured to the rotor. Replace any worn or damaged blades with new ones.



Make sure replacement blades are of the same weight as the original blades to maintain proper rotor balance during operation.

Use original factory replacement blades whenever possible.

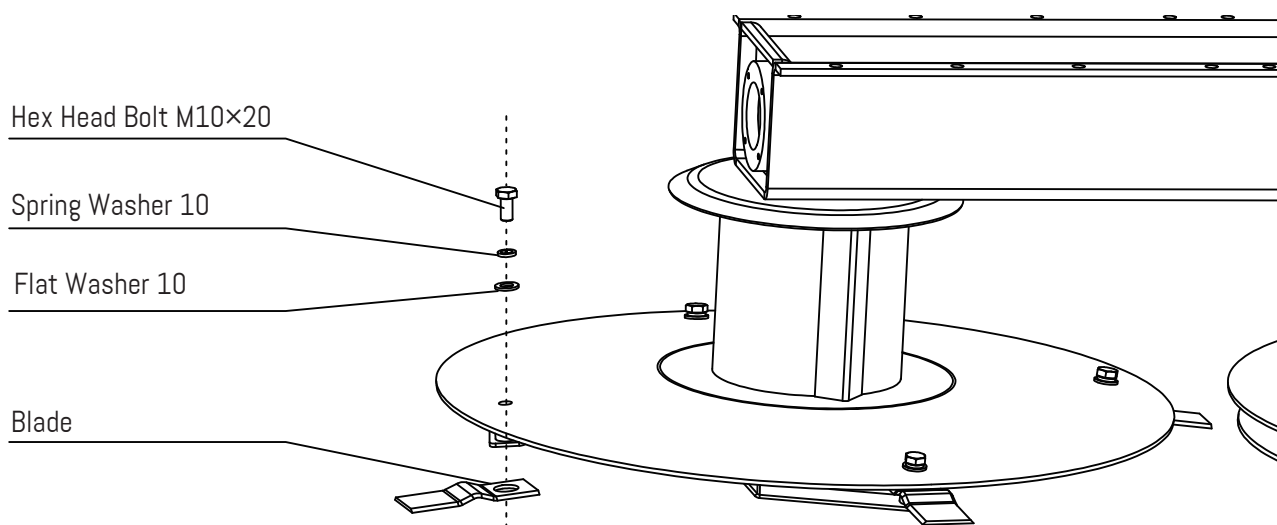
Frequently check the rotor blades and stationary blades to make sure they are in good working condition and properly secured. Replace any worn or damaged blades with new ones.

Replacement blades must be the same weight as the original blades to maintain proper rotor balance during operation. Only use original factory replacement parts.

Replacement Steps

1. Remove the full-thread hex head bolt M10×20, spring washer 10, and flat washer 10.
2. Replace the worn blade with a new one.
3. Reinstall the bolt and tighten it to the specified torque.

Note: It is recommended to apply thread-locking compound to the bolt before installation.



Note: If the images shown in the figure above differ from the actual machine, please refer to the actual machine.

STORAGE AND TRANSPORT

STORAGE

Before storing the implement, follow the steps below:

1. Remove any dirt and grease that may have accumulated on the mower and moving parts. Scrape off compacted dirt from under the hood. Clean the machine inside and out to help prevent corrosion.
2. Check the rotor, blades, blade mounts, and blade bolts for wear. Replace them if necessary.
3. If cleaning the machine with a high-pressure washer, do not spray water directly onto the rolling bearings.
4. Check and clean the universal joint and belt tension roller. Replace them if they are not in good condition. Lubricate all required points.
5. Repaint any scratched or damaged surfaces to prevent corrosion.
6. Store the machine in a dry, level area.

TRANSPORT



Always disengage the PTO before raising the mower to the transport position.

When traveling on roadways, operate in a manner that allows other vehicles to pass safely. Always use LED lights, clean reflectors, and a slow-moving vehicle sign clearly visible from the rear to warn other drivers of your presence.

Always comply with all applicable federal, state, and local laws.

Before transporting the implement, follow the steps below:

1. When raising the mower to the transport position, make sure the driveline does not contact the tractor or mower. If necessary, adjust and set the tractor 3-point lift height to limit mower movement and protect the driveline.
2. Reduce tractor ground speed when turning. Allow enough clearance to prevent the mower from contacting obstacles such as buildings, trees, fences, or other objects.
3. Select a safe travel speed when transporting the mower from one area to another. When traveling on roadways, operate in a manner that allows faster-moving vehicles to pass safely.
4. When traveling over rough or hilly terrain, shift the tractor to a lower gear.
5. In the transport position, the safety plate must be inserted into place, as shown in Figure 13.

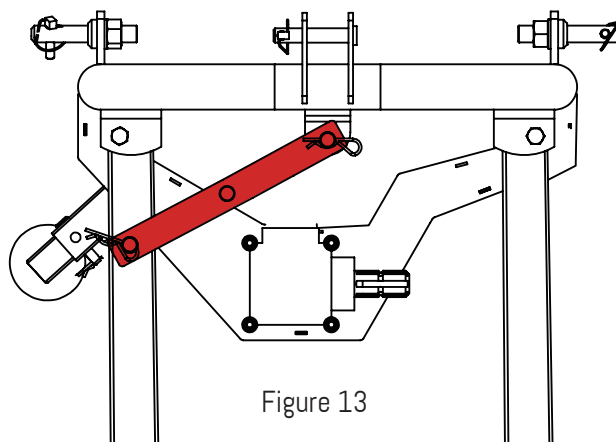


Figure 13

TROUBLESHOOTING

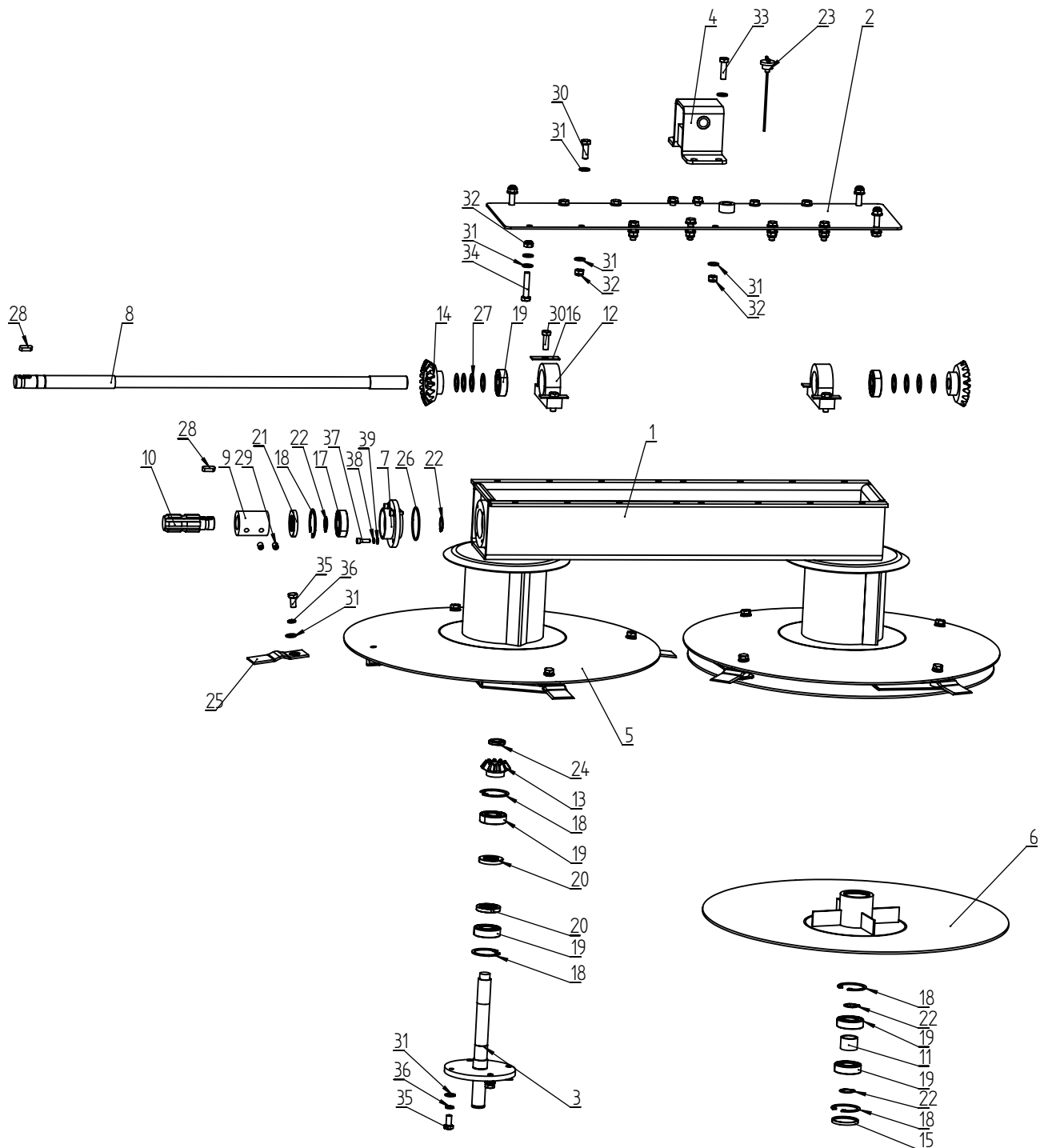
The troubleshooting list below includes common problems that may or may not apply to the machine described in this manual.

If you encounter a problem that is not covered in this list, please contact us for technical support.

Malfunction	Possible Cause	Solution
Significant machine vibration	Worn blades	Replace the blades
	Missing	
	Broken blades	
	Worn rotor support bearings	Replace the bearings
	Rotor fouled with debris	Clean rotor
	Loose parts	Tighten bolts and fasteners
	Incorrect power take-off speed	Select correct tractor power take-off speed
Excessively rapid blade wear	Blades touching the ground	Check and, if necessary, adjust cut height.
Blades tear rather than cut, shredded material not distributed evenly	Ground speed too high	Reduce the speed
	Cut height too low	Adjust cut height
	Excessive build-up of material under the head	Clean the head
	Clogging	Clean the machine to remove accumulated debris
Excessive driveline noise	Insufficient greasing	Apply grease as indicated in the Maintenance section
	Worn trunnion bearing	Replace bearings
	Exceeds 25 degrees	Do not exceed 25 degrees
Driveline wear	Insufficient greasing	Apply grease as indicated in the Maintenance section
	Operating angle incorrect	Reduce the operating angle
	Overloading	Avoid overloading and do not start the machine when loaded

Malfunction	Possible Cause	Solution
Breakage or deformation of the driveline	Overloading	Avoid overloading and do not start the machine when loaded
	Operating angle incorrect	Reduce the operating angle
Unit overheating	Not enough oil in the unit	Check seals and gaskets and replace any that are damaged
		Top off the oil
	Incorrect oil type	Replace with the prescribed type of oil
	Excessive oil	Restore correct oil level
	Overloading	Observe the prescribed speed and power conditions
Lateral adjustment and/or inclination angle adjustment functions not working correctly	Hoses connected incorrectly to tractor remotes	Connect correctly
	Remotes or hydraulic pump on tractor faulty	Check and repair if necessary
	Oil leakage	Check connections and tighten correctly if necessary
		Check hydraulic hoses and replace if necessary

PARTS DIAGRAM

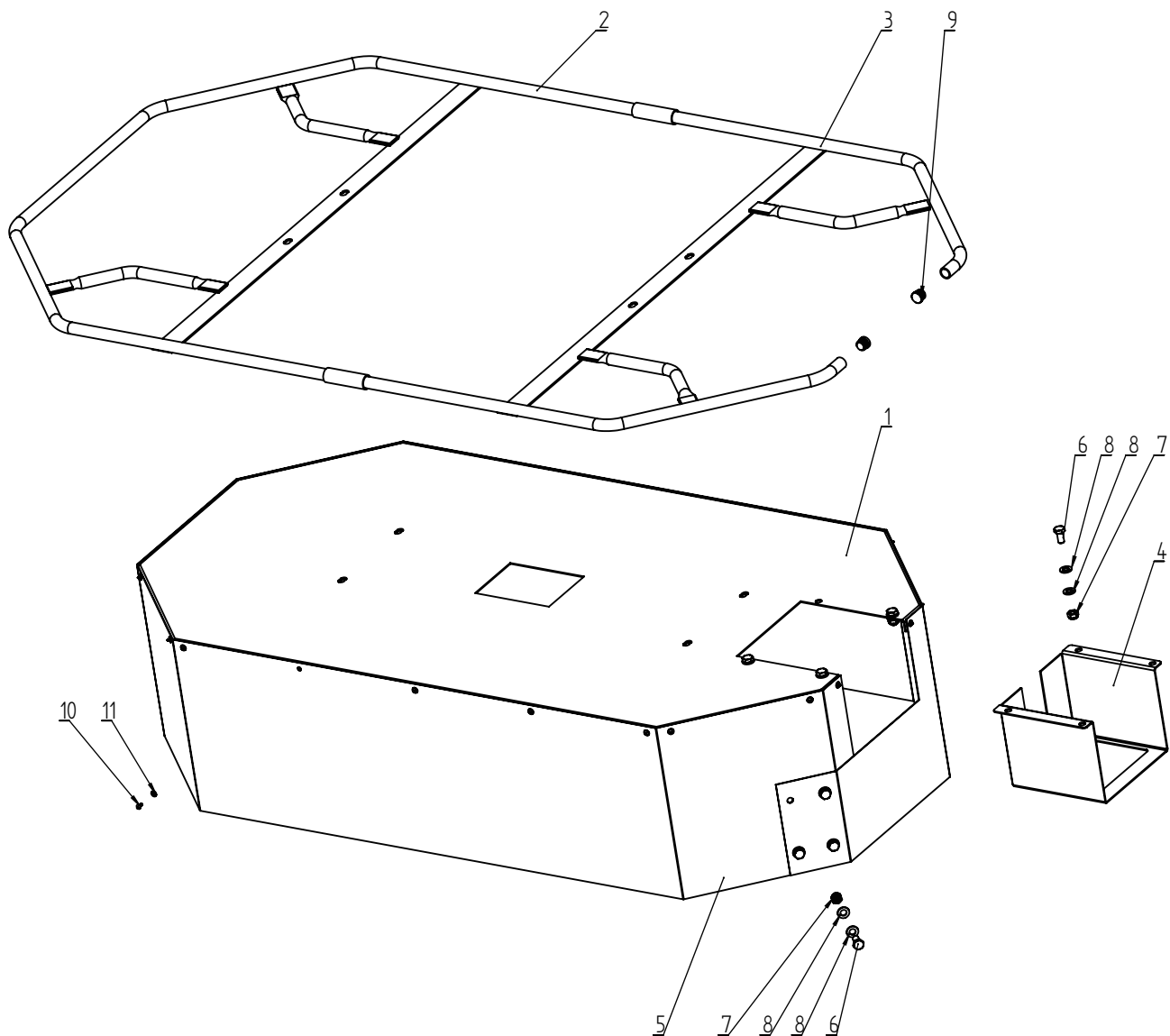


PARTS LIST

No.	Description	Qty.
1	Gearbox Weldment	1
2	Gearbox Top Plate Weldment	1
3	Pivot Shaft Weldment	2
4	Lug Weldment	1
5	Turntable Weldment	2
6	Bottom Turntable Weldment	2
7	Bearing Housing	1
8	Drive Shaft	1
9	Coupling	1
10	Drive Shaft Head	1
11	Spacer	2
12	Bearing Seat	2
13	Bevel Gear M5 Z10	2
14	Bevel Gear M5 Z17	2
15	Plug Cap	2
16	Locking Washer	4
17	Cylindrical Roller Bearing	1
18	Circlip for Hole 52	9
19	Deep Groove Ball Bearing	10
20	Skeleton Oil Seal	4
21	Skeleton Oil Seal	1
22	Circlip for Shaft 25	6
23	Oil Dipstick	1
24	Nylon Insert Lock Nut	2
25	Blade	8
26	O-Ring	1
27	Adjusting Shim	8
28	Parallel Key	2
29	Hex Socket Set Screw with Dog Point, M10×12	2

No.	Description	Qty.
30	Hex Head Bolt, Fully Threaded, M10×30	12
31	Flat Washer 10	48
32	Hexagon Thin Lock Nut with Non-Metallic Insert, M10	16
33	Hex Head Bolt, Fully Threaded, M10×35	4
34	Hex Head Bolt, Fully Threaded, M10×50	4
35	Hex Head Bolt, Fully Threaded, M10×20	16
36	Spring Washer 10	16
37	Hex Socket Head Cap Screw, M6×20	4
38	Spring Washer 6	4
39	Flat Washer 6	4

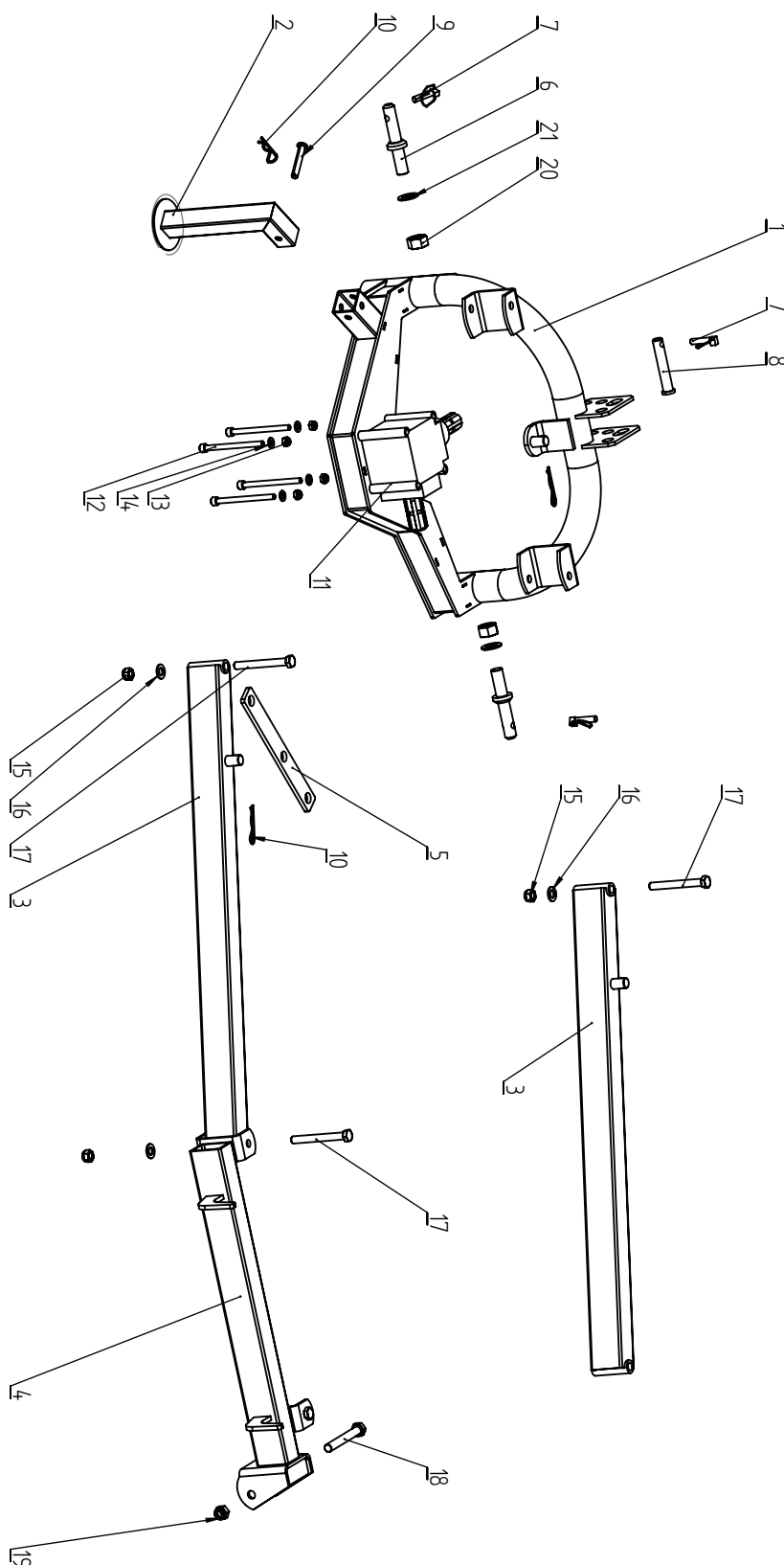
PARTS DIAGRAM



PARTS LIST

No.	Description	Qty.
1	Top Guard Weldment	1
2	Guardrail Weldment 1	1
3	Guardrail Weldment 2	1
4	Guard	1
5	Skirt	1
6	Hex Head Bolt, Fully Threaded, M10×20	8
7	Hexagon Lock Nut with Non-Metallic Insert, M10	8
8	Flat Washer 10	16
9	Round Tube Plug	2
10	Rivet	22
11	Flat Washer 5	22

PARTS DIAGRAM



PARTS LIST

No.	Description	Qty.
1	Hitch Weldment	1
2	Support Leg Weldment	1
3	Linkage Weldment 1	2
4	Linkage Weldment 2	1
5	Adjusting Plate	1
6	Drawbar Pin	2
7	Ring Cotter Pin	3
8	Pin Shaft, 16×105	1
9	Pin Shaft, 12×70	1
10	Type B Pin, M3.5×75	3
11	Gearbox	1
12	Hex Socket Head Cap Screw, Half Thread, M10×130	4
13	Hexagon Lock Nut with Non-Metallic Insert, M10	4
14	Flat Washer 10	4
15	Hexagon Lock Nut with Non-Metallic Insert, M14	4
16	Flat Washer 14	4
17	Hex Head Bolt, Fully Threaded, M14×120	4
18	Hex Head Bolt, M16×120	1
19	Hexagon Lock Nut with Non-Metallic Insert, M16	1
20	Hexagon Lock Nut with Non-Metallic Insert, M22	2
21	Flat Washer 22	2

The logo for MechMaxx is centered on a dark blue background. It features the text "MechMaxx" in a bold, italicized, white sans-serif font. The text is enclosed within a white rectangular border. The background is decorated with a grid of small, light blue stars on the left and right sides.

MechMaxx

info@mechmaxx.com