LandMax

Suppliers Of Quality Agricultural Machinery



BRM Hydro

Hedge Trimmer

Operator's Manual

www.landmax.co.nz

Please read this manual carefully before using the product.
Please follow the instructions and safety warnings in the manual.
Please keep this manual in a safe place for future reference.

We are constantly improving our products. Please note the data and pictures in this manual may differ from the actual product.

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Ⅰ. Safety operation warning instructions

Warning label meaning

	Attention! Please read the instruction manual carefully before using the machine. Failure to follow this warning may result in injury.
	Warning! Stay away from the working area of the running machine. Failure to comply with this warning may result in personal injury.
	Warning! Keep a safe distance when driving a small loader. Failure to follow this warning may result in personal injury.

Safety Operation Precautions

Failure to observe the following precautions may result in death or injury!

Danger! Failure to comply with this warning may result in death or serious injury.

WARNING! Failure to comply with this warning could result in personal injury.

2. Assembly

2.1 Connection between base and cantilever

Please refer to Figure 1-1:

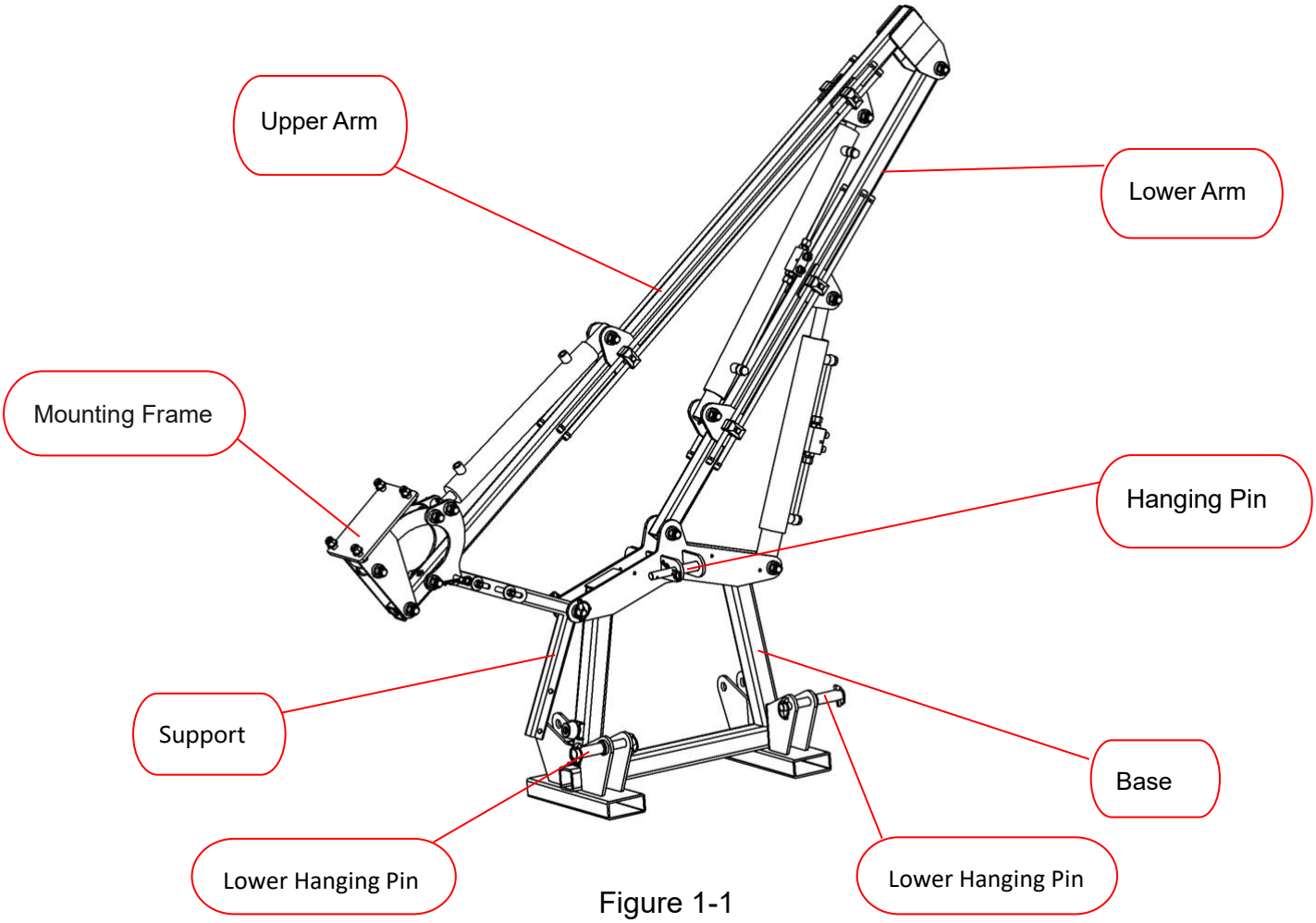


Figure 1-1

1. After the holes of the lower arm and upper arm are aligned and the pins are inserted, align the lower hole of the lower arm with the upper hole on the base weld and insert the pins;
2. After the base and upper and lower arms are free to move, tighten the bolts on the pins to prevent them from falling off;
3. According to customer needs, the cantilever assembly (mounting frame welding point) can be mounted with different types of engineering accessories (hedge trimmer/circular saw).

2.2 Tractor Requirements

Tractor horsepower and suspension category should be selected according to the following requirements. Tractors exceeding the horsepower range must not be used. Narrow three-point suspension. The adjustment arm must be fixed to prevent lateral movement. Most tractors are equipped with sway pins or adjustable chains.

Tractor horsepower range: 20-60 hp;
Suspension type: Category I and II three-point suspension;
Rear PTO speed: 540r/min;
Tractor Weight: See important tips below.

2.3 Tractor suspension

Please refer to Figure 1-1 :
1. Make sure the tractor drawbar and implement are not interfering. If necessary, move the drawbar forward or backward. Check the drawbar when lifting for the first time.
2. Remove all suspension pins;
joint on the tractor's lower suspension with the mounting hole of the hedge trimmer 's lower suspension, insert the lower suspension pin and secure it with the locking pin;
4. Align the center hole of the tractor's upper adjustment rod with the upper suspension mounting hole of the hedge trimmer, insert the upper suspension pin and secure it with the R pin;
5. Use the tractor's lifting device to raise the 3-point hitch to lift the hedge trimmer 1 to 2 inches. Check again that there are latches, R pins or locking pins on the 3-point hitch.
6. According to different configuration requirements, we provide adjustable pull rods and stabilizer frames to make the connection between tractor and machine more stable.

2.4 Drive shaft installation

! Danger
When the PTO is installed, be sure not to start the tractor output shaft because the operator is standing near the rotating driveline, which could cause the shaft to become entangled with the worker's body or clothing, resulting in injury or death.
1. Park the tractor on a level surface, and slowly lift the tractor's three-point suspension to change the height of the base until the gearbox input shaft is in line with the tractor output shaft;
2. Remember to put the tractor in the parking position, apply the handbrake, turn off the tractor, and remove the key;
3. Slide the inner yoke (implement end) of the drive shaft (PTO) onto the gearbox and make sure the joint is locked onto the gearbox input shaft;
4. Slide the inner yoke (tractor end) of the drive shaft (PTO) onto the tractor power take-off shaft and make sure the joint is locked;
5. If the drive shaft length is not suitable for the distance between the tractor and the hedge trimmer, refer to the instructions on the page "Shortening the drive shaft length".
6. Pull the drive shaft back and forth to ensure that the PTO at both ends of the tractor and hedge trimmer are locked. If either end is loose, it must be reconnected;

2.5 Check the overlap length of the drive shaft

1. Before checking the drive shaft overlap, make sure the drive shaft is properly installed and level. (See "Drive System Installation" on page 103 if necessary.)
Please refer to Figure 1-3:
4. For driveshaft length, measure 1 inch from the universal joint boot to the end of the other driveshaft boot (the "B" dimension). If the measurement is 1" or more, refer to "Checking the Extended Driveshaft Length". If the measurement is less than 1", refer to "Shortening the Driveshaft Length".

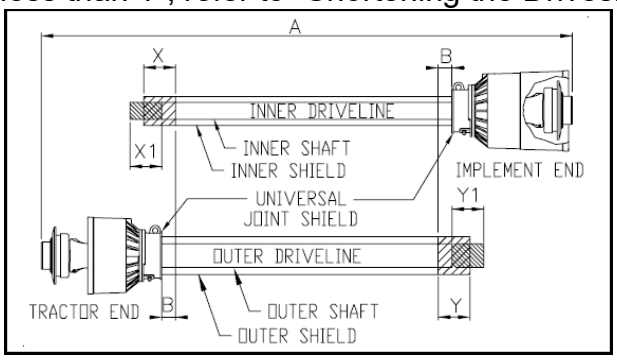


Figure 1-3

2.6 Shorten the length of the drive shaft

Please refer to Figure 1-3:
1. Pull the outer and inner parts of the drive shaft apart;
2. Reinstall the outer drive shaft onto the tractor's PTO shaft, making sure the universal joint is properly secured;
3. Pull the inner transmission shaft to correctly connect the universal energy-saving gearbox with the gearbox;
3. Keep the inner and outer drive shafts parallel to each other:
(1) Measure 1 inch ("b" dimension) from the back of the drive shaft universal joint outer shield and make a mark at this location on the inner shield of the drive shaft.
(2) Measure 1" ("b" dimension) back from the inner drive shaft universal joint guard and make a mark at this location on the outer drive shaft guard.
4. Remove the drive shaft from the tractor output shaft and the gearbox input shaft;
5. The dimension from the end of the inner cover to the mark ("x" dimension) requires cutting off the inner cover and cutting off the inner shaft of the same length ("X1" dimension);
6. The dimension from the end of the outer cover to the mark ("y" dimension), you need to cut off the outer cover and cut off the outer shaft of the same length ("Y1" dimension);
7. Remove all burrs and crushed materials;
8. Check the extension length of the drive shaft;

Check the extension length of the drive shaft

Check the foldable extended length of the drive shaft. If necessary, refer to

"Checking the foldable extended length of the drive shaft".
The maximum length allowed for the drive shaft must be fully extended with a minimum overlap of tube lengths of no less than 1/3 of the inner and outer lengths.

1. Grease the inside of the outer shaft and reassemble the drive shaft;
2. Assemble the drive shaft with the inner and outer tubes overlapping by 1/3. When assembling, measure and record the maximum allowable length as shown in the figure below for future reference;

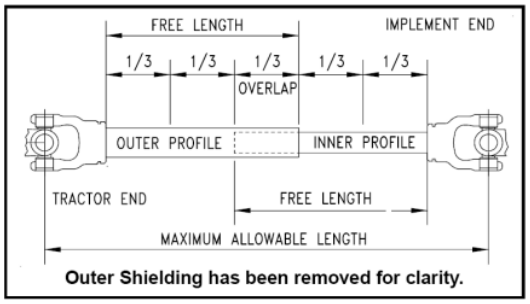


Figure 1-4

3. Connect the inner drive shaft to the hedge trimmer 's gearbox input shaft and the outer drive shaft to the tractor's PTO shaft;
4. Move the drive shafts back and forth to ensure they are locked to the tractor output shaft and the gearbox input shaft. If they are loose, they must be reconnected.

2.7 Check the cause of the drive shaft interference

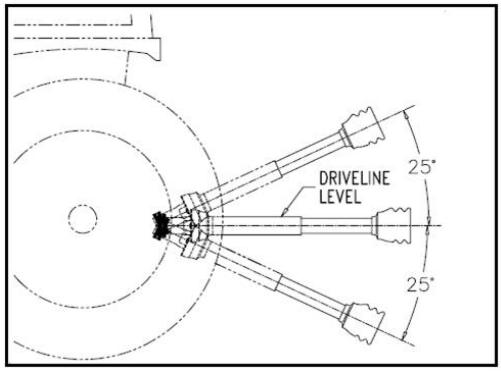


Figure 1-5

Move the drive shaft as far as possible during operation, refer to Figure 1-5

1. Raise and lower the machine to find the maximum extended drive shaft length. Check to make sure the overall drive shaft length does not exceed the maximum allowed length and move it up or down 25 degrees.
2. If necessary, the tractor three-point lift height can be set to prevent the drive shaft from exceeding the maximum permissible length and moving upwards by 25 degrees.

3. Operation Instructions

3.1 Pre-startup checklist

✓	**examine**	page number
	Read and follow the 3-point connection & preparation	

	instructions. Refer to "Assembly and debugging".	
	Read and make any necessary adjustments. See "Adjustments"	
	Read and follow all operating procedures. Refer to the "Operating Instructions"	
	Read and follow all maintenance instructions. Refer to "Maintenance & Lubrication"	
	Read and follow all lubrication instructions. Refer to “Lubrication Essentials”	
	Ensure all gearbox lubrication is done correctly. Refer to "Gearbox Lubrication"	
	First inspect the hedge trimmer and regularly check for loose bolts and pins. Always make sure all lock nuts and bolts are tight. Refer to the torque value chart for common bolt torque values.	

3.2 Steps to shut down the tractor

The tractor must be switched off as instructed before any inspection, maintenance or repair of the tractor or hedge trimmer is carried out.

1. Park the tractor on level ground and not on a steep slope.
2. Put the tractor in park and apply the parking brake.
3. Always stop the drive shaft when operating.
4. Shut off the engine and remove the key.
5. Wait for the drive shaft to come to a complete stop before disassembling the tractor.
6. Wear safety glasses.

3.3 Transportation

!Notice

Use auxiliary lights or other devices to give appropriate warnings to operators of other vehicles, both at night and during the day, and comply with local laws.

1. When the hedge trimmer is lifted to the transport position, be especially careful when transporting it. The hedge trimmer raises the weight of the tractor, increasing the possibility of tipping over.
2. When turning or leaving, be sure to reduce the tractor speed and leave enough space so that the hedge trimmer does not come into contact with obstacles such as buildings, trees or fences.
3. When transporting, choose a safe driving speed, and when driving on the road, ensure that fast-moving vehicles can pass safely.
4. When driving on rough or hilly terrain, shift the tractor to a lower gear.

3.4 Safety Information

!!Danger

When installing or removing the drive shaft or when someone is near the drive shaft, the tractor power output shaft should be placed in neutral. Otherwise, the body or clothing of nearby people may be caught in the drive shaft, which may result in serious injury or death.

!!Danger

If the guards and safety covers are not in place and closed, the high-speed

rotation of the hedge trimmer may expel high-speed foreign objects causing injury or death.

!!Danger

Do not sit or stand on the hedge trimmer. Doing so may cause a person to fall or become entangled in the machine, resulting in serious injury or death.

!!Danger

Do not operate or drive on steep slopes where the tractor could overturn, causing serious injury or death. Consult your tractor manual for acceptable slopes that the tractor can negotiate.

!!Danger

Do not use the hedge trimmer to lift or carry objects, as this may result in damage to the hedge trimmer, serious personal injury or death.

!!Danger

Do not use a hedge trimmer as a work platform. Improperly guarding the hedge trimmer may result in serious injury or death.

!!Danger

Always put the tractor PTO shaft in neutral, engage the parking brake, turn off the tractor, remove the switch key, and wait for the blades to come to a complete stop before removing the hedge trimmer from the tractor.

!!Danger

This hedge trimmer for other types of work may damage the crushing parts, drive components, hedge trimmer frame and tractor.

!Notice

This hedge trimmer is only suitable for tractors with a 540r/min, rear-mounted PTO shaft. The tractor PTO shaft speed is not allowed to exceed the speed, otherwise it will cause damage to the machine.

3.5 Work Instructions

1. Clear debris and fragments from the hedge trimmer blades; do not use the hedge trimmer on stony ground.
2. Before operating the hedge trimmer, perform the following checks:

•All connecting pins are fixed.

•All protective covers should be in place and secured.

•All bolts and lock nuts should be installed in place, tightened and torqued to the appropriate values.

• Make sure the blade is not broken or loose.

3.6 Operation Instructions

Correct maintenance and commissioning are key to ensuring the long life of any machine. By carefully and systematically checking the hedge trimmer, expensive maintenance and repair costs can be avoided.

Before starting work, the machine should be inspected as follows:

1. Check the oil level in the gearbox. Refer to Gearbox Lubrication.
2. Check the bolts on the gearbox and the breather bolt to make sure they are tight.
3. Make sure all hedge trimmer blades, bolts and lock nuts are tightened.

4. Make sure all guards and shields are in place and secure.
5. The drive shaft and all other parts requiring lubrication are filled with grease.
6. Clear away rocks, branches, and other foreign objects; do not use the hedge trimmer on rocky ground.
7. Use a tractor with a 540r/min PTO. First, put the hedge trimmer on the ground and start the tractor. When the engine is running, the PTO is shifted to 540 rpm. Use the operating handle to input hydraulic oil into the hedge trimmer motor. After the hedge trimmer blade speed stabilizes, gradually increase the engine speed until the PTO speed reaches 540r/min and maintains it; the blade of the blade cuts better at full speed than at low speed.
8. After moving forward and working for 15 meters, stop and check whether the hedge trimmer is adjusted correctly.
9. Do not make sharp turns or attempt to reverse while the hedge trimmer is in contact with the ground. Doing so will cause premature wear on the drum bearings.
10. Never work near or on steep slopes.
11. Do not allow anyone (including yourself) to approach the hedge trimmer while it is operating.
12. When the hedge trimmer is being raised, the control lever for the tractor’s power take off (PTO) shaft must be in the neutral position. The PTO shaft must not be engaged while the tractor engine is running at high throttle. Power to the PTO shaft must be disengaged whenever the hedge trimmer is being raised.
13. Regularly check whether there are any foreign objects around the cutter shaft. Foreign objects must be removed after cutting off the power output, turning off the tractor and removing the start key.

3.7 General operating instructions

Now that you have familiarized yourself with the operator's manual, completed the operator's checklist, properly connected the hedge trimmer to the tractor, made the correct offset or center adjustment, and preset your mowing height, you are ready to begin using the hedge trimmer and run the safety check. If at any time during the safety check a malfunction is detected with the hedge trimmer or tractor, immediately shut off the tractor, remove the key, and make any necessary repairs or adjustments before continuing operation.

Make sure the tractor's parking brake is engaged, and the hedge trimmer is on the ground. Start the tractor and let the tractor idle at low speed. Using the tractor's rear hydraulic lift lever, raise the hedge trimmer to the transport position, making sure the drive shaft is not entangled by foreign objects and is not in contact with the hedge trimmer frame. Move the hedge trimmer to the work site and lower it to the mowing position. With the tractor still at low idle, engage the PTO. If all is well, increase the engine speed until the tractor's engine speed reaches the full power take-off (PTO) operating speed of 540

rpm. The operating speed is between 3 and 8 km/h. Try increasing or decreasing the tractor speed to achieve the desired mowing effect.

Operators must plan ahead and choose a route that allows safe turns to prevent unnecessary injuries and fatalities. Increase or decrease travel speed depending on mowing conditions to ensure the best possible cut quality.

If the hedge trimmer hits an object, stop the tractor and hedge trimmer immediately, check the blade shaft, and make necessary repairs if damaged before resuming operation. Select the tractor gear and gear to maintain this combination. Generally, when working in an environment with dense growth, it is necessary to slow down the tractor. Avoid crossing steep slopes and avoid sharp descents to prevent tractor and hedge trimmer damage. Slow down when turning and avoid sharp turns as much as possible. Look back frequently when working to observe the working condition of the hedge trimmer to avoid unnecessary damage.

When work is complete slowly raise the hedge trimmer to transport height, ensuring the drive shaft is not tangled and in contact with the hedge trimmer frame, then return the engine to low idle, disconnect the PTO and place the adjustable stop on the tractor hydraulic lift lever console so the blade can be returned to the same cutting height and transport height.

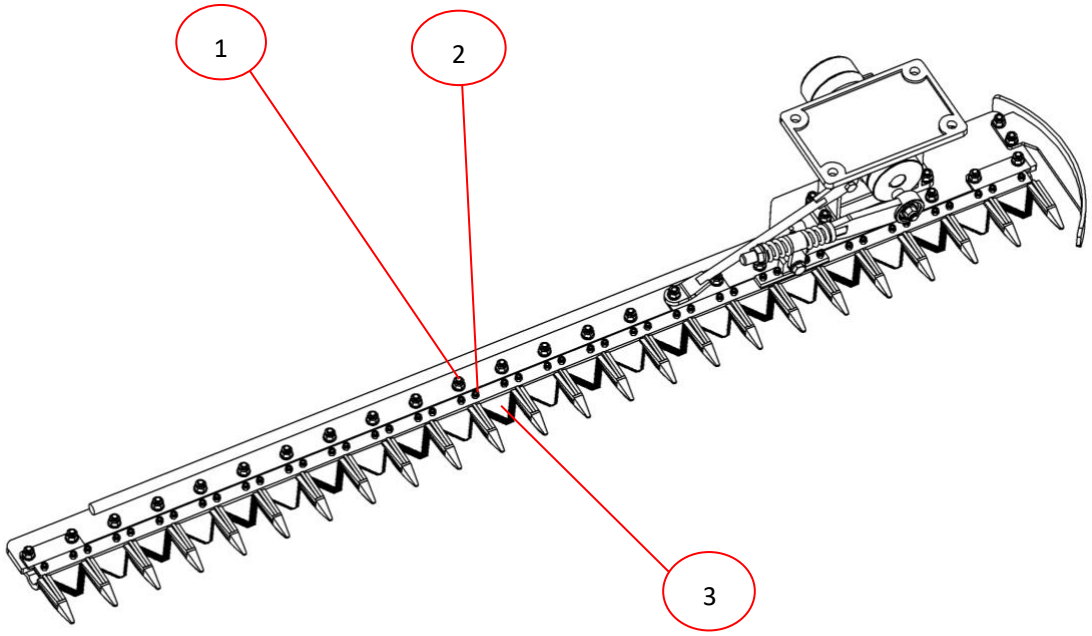
!Notice
After the work is completed, put the tractor in the parking gear, apply the handbrake, turn off the tractor, remove the key, and make adjustments when there are no safety hazards!
!Notice
If the hedge trimmer needs to be lifted off the ground for calibration, make sure there is additional support underneath the hedge trimmer! Without support, the hedge trimmer may fall and cause serious injury to anyone present.

3.8 Blade replacement

Check the blade frequently to ensure it is securely installed and does not pose a safety risk. If it is damaged, replace it with a new one.
!Notice:
1. When replacing the blade, pay attention to the direction of the blade edge to prevent reverse installation, which may not achieve the expected mowing effect;
2. The weight of the replaced blade must be within the allowable error range to ensure the dynamic balance of the blade shaft and reduce machine vibration, thereby ensuring the stability and durability of the hedge trimmer.
3. The replacement blade must be the factory original blade.

Replacement steps

1. Remove the lock nut and bolt and take out a guard.
2. Remove the lock nut and hexagon socket bolt, and remove the damaged blade under the guard.
3. Install the new blade, lock nut and hexagon socket bolt.
4. Put the guard in place and tighten the anti-loosening nuts and bolts .



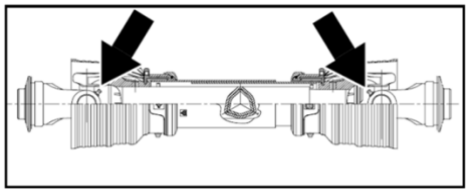
4. Maintenance and lubrication

4.1 Storage

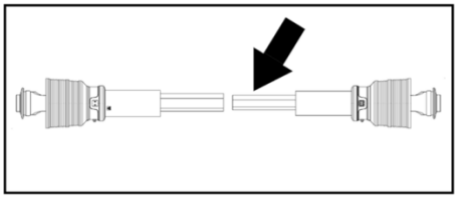
After the working season of the hedge trimmer, it is necessary to inspect the hedge trimmer and perform necessary maintenance before parking it for a long time. This will help ensure that the hedge trimmer can be used next time.
1. Remove all debris and grease from the hedge trimmer, debris from under the cover parts, and then clean the surface thoroughly with a garden hose.
2. Check whether the blade and blade bolt are worn and replace them if necessary.
3. Check whether the parts of the hedge trimmer are loose, damaged or worn and adjust or replace them as needed.
4. Repaint the scratched parts to prevent rust. If necessary, consult your supplier for various touch-up matters. You can also apply a thin layer of oil or grease on the worn areas to minimize oxidation.
6. Replace any damaged or missing labels.
7. Store the hedge trimmer on a clean, dry, level surface indoors to reduce maintenance and extend the life of the hedge trimmer.
8. Add lubricating oil according to the location indicated by "Lubrication position".
9. Put the drive shaft and hedge trimmer together for easy use next time.

!! Danger
When servicing the hedge trimmer, ensure that the transmission is disconnected from the tractor PTO and that the hedge trimmer has a sturdy support when lifted.

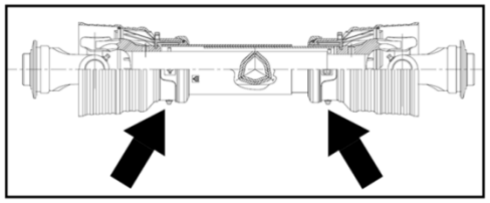
4.2 Lubrication position



Drive shaft U -joint
Lubrication type: Multi-purpose grease
Quantity - 4 to 8
Lubricating oil is needed after 10 hours of work.



Drive shaft connecting rod
Lubrication type: Multi-purpose grease
Quantity - Clean and coat the drive shaft internal profile tube with a light coat of grease before reassembling.
Lubricating oil is needed after 10 hours of work.



Inner tube bearing
Lubrication type: Multi-purpose grease
Quantity - As per request
Lubricating oil is needed after 10 hours of work.

Machine maintenance

All grease fittings need to be filled with grease every 25 hours.

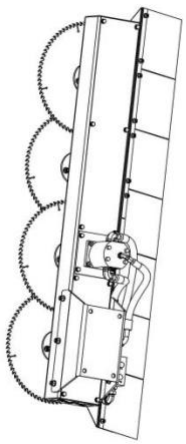
5. Various connection replacement parts

Connect with tractor

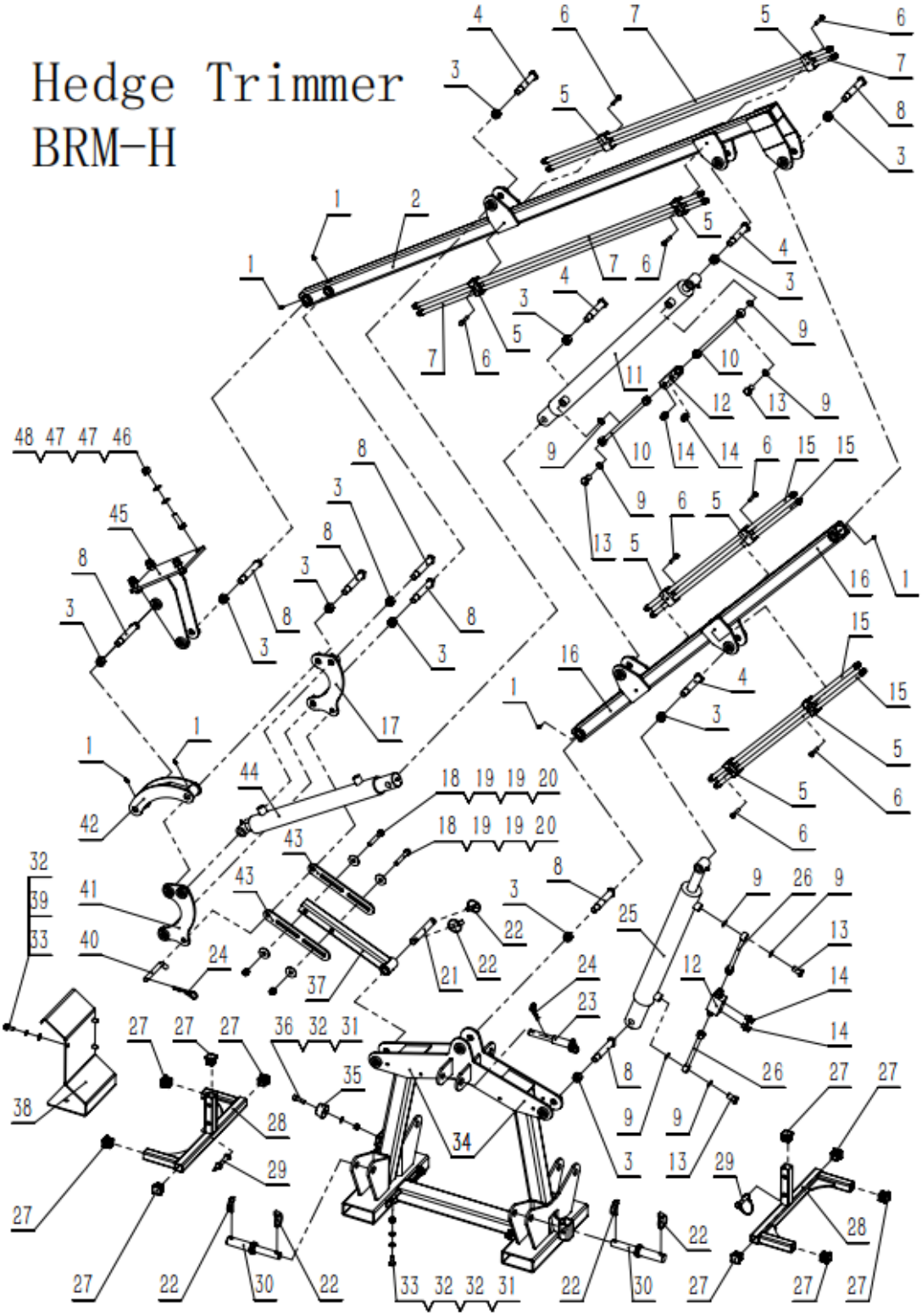
The base suspension is connected to the tractor, and the cantilever can be mounted with different configurations as shown in the figure above (cutting branches, sawing branches). After the tractor starts normally, turn the reversing valve handle, the hydraulic system starts working, and adjusts the machine to a normal height to complete various operations.

6. Product technical parameters

7. Parts Catalog

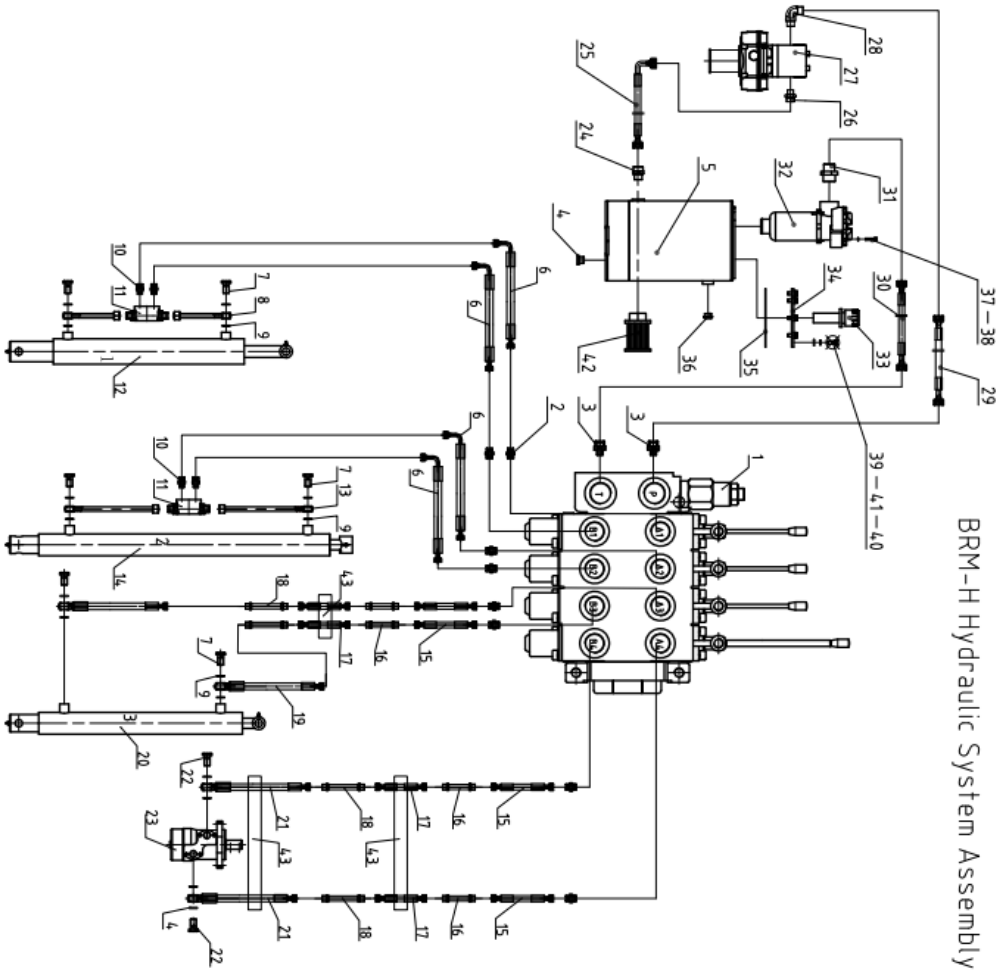
<table>
<tr><td>model</td><td>Cutting width (mm)</td><td>Blade (n)</td><td>PTO speed (r/min)</td><td>Tractor horsepower (Hp)</td><td>3 point suspension</td><td>Weight (Kg)</td></tr>
<tr><td>BRM180</td><td>180</td><td>23</td><td>No PTO connection</td><td>20-60</td><td>Ⅰ/Ⅱ</td><td>161.5</td></tr>
<tr><td rowspan="2">Option</td><td colspan="3">4-80 teeth</td><td colspan="3">120/150/180</td></tr>
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Hedge Trimmer
BRM-H



S/N	PartNo.	Name&Specification	Qty
1	GB/T 1152-M6	Oil Cup M6	6
2	BRM180-018	Upper Arm Weldment	1
3	GB/T 889.1-M18	Lock Nut M18	12
4	BRM180-112	Cylinder Pin	4
5	BRM180-037	Double Pipe Clamp	8
6	GB/T 5782-M8×40	Bolt M8×40	8
7	BRM180-027	Long Iron Pipe	4
8	BRM180-111	Cantilever Pin	8
9	ZHD-16	Combination Washer 16	8
10	BRM180-034	Long Articulated Pipe	2
11	BRM180-025	Hydraulic Cylinder II	1
12	AGF140.143	Bi-directional Hydraulic Lock (DPOCV-1/4-12L)	2
13	700M-16	Hollow Bolt M16×1.5	4
14	1CG-16-04	G1/4 to M16×1.5 (Tapered)	4
15	BRM180-028	Short Iron Pipe	4
16	BRM180-017	Lower Arm Weldment	1
17	BRM180-021	External Connection Limit Weldment	1
18	GB/T 5782-M12×75	Bolt M12×75	2
19	GB/T 96.1-Ø12	Large Flat Washer 12	4
20	GB/T 889.1-M12	Lock Nut M12	2
21	BRM180-116	Support Pin	1
22	EFGC175.129	Lock Pin Assembly	6
23	EFK190.027	Upper Hanging Pin	1
24	EFGC175.130	R-pin 3.5	2
25	BRM180-024	Hydraulic Cylinder I	1
26	BRM180-033	Short Articulated Pipe	2
27	EFGC175.122	Square Pipe Plug	10
28	BRM-H180-013	Support Foot Weldment	2
29	AGL145-M-105	Lock Pin 12	2
30	EFA160.103	Lower Hanging Pin	2
31	GB/T 889.1-M10	Lock Nut M10	5
32	GB/T 97.1-Ø10	Flat Washer 10	12
33	GB/T 5783-M10×25	Bolt M10×25	7
34	BRM-H180-011	Chassis Weldment	1
35	BK215-10-103	Swing Seat Anti-collision Rubber Block	1
36	GB/T 70.1-M10×30	Hexagon Socket Head Cap Screw M10×30	1
37	BRM180-040	Support Weldment	1
38	BRM180-110	Valve Mounting Plate	1
39	GB/T 93-Ø10	Spring Washer 10	3
40	BRM180-115	Safety Pin	1
41	BRM180-022	External Connection Support Weldment	1
42	BRM180-023	Inner Connection Plate	1

S/N	PartNo.	Name&Specification	Qty
		Weldment	
43	BRM180-117	Adjusting Plate	2
44	BRM180-026	Hydraulic Cylinder III	1
45	BRM180-020	Swing Seat Weldment	1
46	GB/T 889.1-M14	Lock Nut M14	4
47	GB/T 97.1-Ø14	Flat Washer 14	8
48	GB/T 5783-M14×45	Bolt M14×45	4

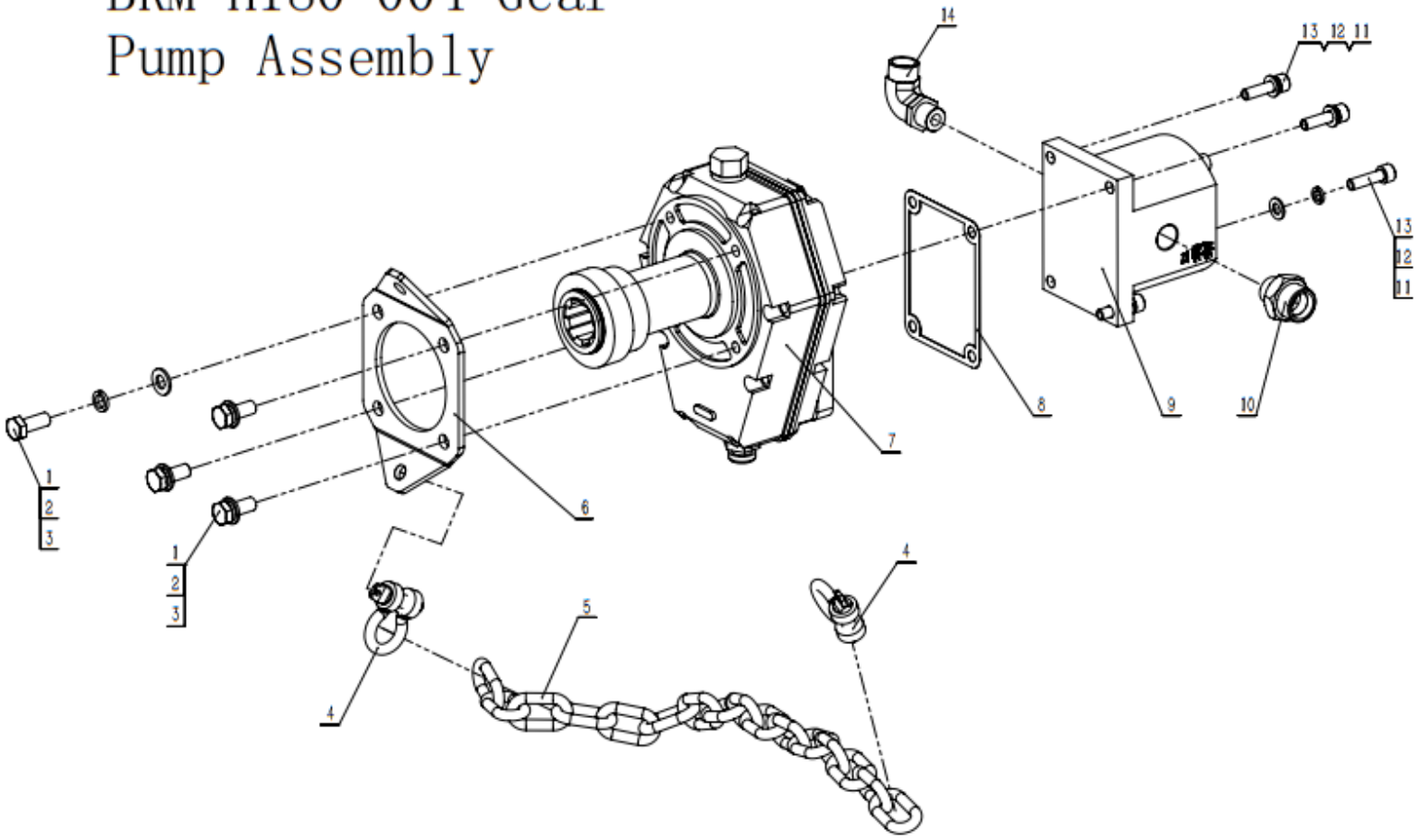


BRM-H Hydraulic System Assembly

S/N	PartNo.	Name&Specification	Qty
1	ZCDB-L15E-30T.OW	Manual Directional Control Valve PTAB-G3/8	1
2	1CB-16-06WD	Adapter G3/8 to M16×1.5 (Taper)	8
3	1CB-26-06WD	Adapter G3/8 to M26×1.5 (Taper)	2
4		Hexagon Socket Flange Plug M18×1.5	1
5	BRM-H180-012	Fuel Tank Welded Assembly	1
6	BRM180-029	Cylinder Direct-connect Oil Pipe	4
7	700M-16	Hollow Bolt M16×1.5	6
8	BRM180-033	Short Articulated Pipe	2
9	JB/T982	Combination Seal 16	12
10	1CB-16-04WD	Adapter G1/4 to M16×1.5 (Taper)	4
11	AGF140.143	Bidirectional Hydraulic Lock	2
12	BRM180-024	Hydraulic Cylinder 1	1
13	BRM180-034	Long Articulated Pipe	2
14	BRM180-025	Hydraulic Cylinder 2	1
15	BRM180-030	Iron Pipe Inlet Oil Pipe	4
16	BRM180-028	Short Iron Pipe	4
17	BRM180-031	Iron Pipe Connecting Oil Pipe	4
18	BRM180-027	Long Iron Pipe	4
19	BRM180-032	Oil Pipe for Hydraulic Cylinder 3	2
20	BRM180-026	Hydraulic Cylinder 3	1
21	BRM180-036	Motor Inlet and Outlet Oil Pipes	2
22	720B-08	Articulated Bolt G1/2	2
23	KM1-50/118-0480	Hydraulic Motor	1
24	1CB-26-08WD	Transition Adapter G1/2 to M26×1.5 (Taper)	1
25	BRM180-H-101	Oil Suction Pipe	1
26	1CM-26-20WD	Transition Adapter M20×1.5 to M26×1.5 (Taper)	1
27	BRM-H180-004	Gear Pump Assembly	1
28	1CH9-22-18OG	Right-angle Adapter M18×1.5 to M22×1.5	1
29	BRM-H180-102	Oil Outlet Pipe	1
30	BRM-H180-103	Main Oil Return Pipe	1
31	1CM-30-33WD	Transition Adapter M33×2 to M30×2 (Taper)	1
32	RF-110×10L	Return Oil Filter Assembly	1

S/N	PartNo.	Name&Specification	Qty
33	QUQI	Air Filter	1
34	DK2000-111	Sealing Flange Cover	1
35	DK2000-113	Paper Gasket	1
36	GB/T 1160.2-M18×1.5	Oil Level Sight Glass M18×1.5	1
37	GB/T 70.1-M5×25	Hexagon Socket Head Cap Screw M5×25	4
38	GB/T 93-Ø5	Spring Lock Washer 5	4
39	GB/T 5783-M8×20	Bolt M8×20	8
40	GB/T 93-Ø8	Spring Lock Washer 8	8
41	GB/T 97.1-Ø8	Flat Washer 8	8
42	WU-63×80-J	Hydraulic Oil Filter	1
43	4GQ-1000-140	Nylon Sheath φ40×800	3

BRM-H180-004 Gear Pump Assembly



S/N	PartNo.	Name&Specification	Qty
1	GB/T 5783-M10×25	Bolt M10×25	4
2	GB/T 93-Ø10	Spring Washer 10	4
3	GB/T 97.1-Ø10	Flat Washer 10	4
4	DS5FT.120	Bow Shackle M9	2
5	BK145-021	Load-bearing Zipper	1
6	BK145-103	Gearbox Limit Plate	1
7	KM6106H0-6A	Oil Pump Transmission Box	1
8	CBW-00.121	Gear Pump Paper Gasket	1
9	CBW-F316-CLH	Gear Pump	1
10	1CM-26-20WD	Transition Adapter M20×1.5 to M26×1.5	1
11	GB/T 97.1-Ø8	Flat Washer 8	4
12	GB/T 93-Ø8	Spring Washer 8	4
13	GB/T 70.1-M8×30	Hexagon Socket Head Cap Screw M8×30	4
14	1CH9-22-18OG	90° Elbow Adjustable Directional Stud End M18×1.5 to M22×1.5	1