

HYDRAULIC FINISHING MOWER INSTRUCTIONS

LM120/LM150/LM180



WARRANTY

This product is warranted to be free of defects in materials and workmanship under normal use and service, for a period of one year from the date of purchase, when operated and maintained in accordance with the Operating and Maintenance Instructions supplied with this unit. This warranty does not cover misuse or negligence.

Under no circumstances will the manufacturer be liable for any consequential damage or expense of any kind, including loss of profits. The manufacturer is under no circumstances liable for tractor damage of any kind. The manufacturer is not liable for the maintenance of the product. This warranty is extended only to the original purchaser. Warranty is void if repairs are attempted by anyone other than an Authorized Service Centre.

If a difficulty develops with the product, you should contact your nearest Authorized Repair Centre, or distributor. Only these locations are authorized to make repairs to the product or affect the replacement of defective parts, which will be done at no charge within a reasonable time after the receipt of the product.

Unit or parts should be returned at the customer's expense to the nearest repair location or Authorized Service Centre. Pack unit in a strong carton and pad tightly to avoid damage. Damage in-transit is not covered by warranty. Include original purchase receipt with any claim (keeping a copy for your files).

The distributor's liability under warranty is limited to repair of the product and/or replacement of parts and is given to the purchaser in lieu of all other remedies including incidental and consequential charges. There are no warranties, expressed or implied other than those specified herein.

SERIAL NUMBER LOCATION

Always give your dealer the serial number of your product when ordering parts or requesting service or other information.

SAFETY INSTRUCTIONS

Do not attempt to operate the mower until you have read the operator's manual and all the safety signs on the mower.

NOTE: The words Danger, Warning or Caution on the safety signs indicate a hazard or unsafe practice, which could result in injury or death if proper precautions are not taken.

Do not attempt any unauthorized modifications to the mower as this could affect the function or the safety of the mower.

OPERATING SAFETY

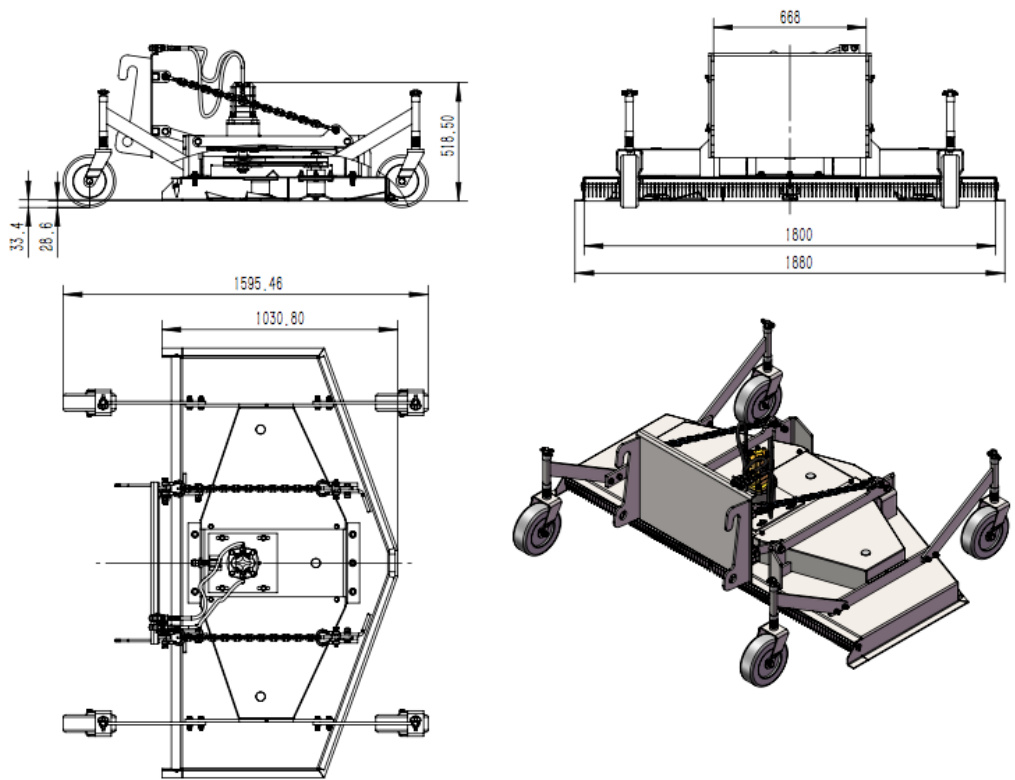
1. Keep all safety signs clean and legible at all times. Replace damaged or missing safety signs.
2. Ensure all shields are in place and in good condition before operating.
3. Ensure everyone is clear of the area before operating.
4. Never start or operate the mower except from the operator's station on the power unit.
5. Do not permit riders.
6. Stop engine, set brake, remove key and wait for all moving parts to stop before servicing, adjusting, repairing and unplugging.
7. Never operate over Flow of this mower.
8. Inspect and clean the cutting area before cutting.
9. Never operate the mower in the raised position.
10. Do not wear loose fitting clothing during operation.
11. Keep hands, feet, clothing and hair away from moving parts.
12. Keep all bystanders away from the unit when it is operating.
13. Check to see that all controls are in neutral before starting the tractor.

TRANSPORT SAFETY

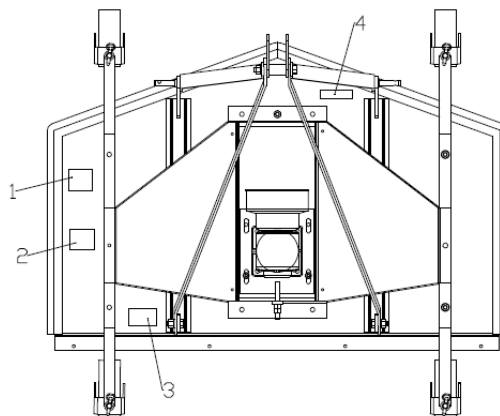
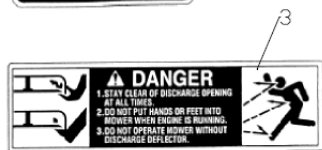
1. Do not transport on a public road without a slow moving vehicle sign and flashers on the tractor.
2. Never have the mower in operation during transport.
3. Travel speed with a raised mower should be slow enough to maintain stability of the tractor.

SERVICE AND MAINTENANCE SAFETY

1. Stop engine, set brake, remove key and wait for all moving parts to stop before servicing, adjusting, repairing or unplugging.
2. Block up before working beneath unit.
3. Replace all shields removed during servicing before operating.
4. Use heavy leather gloves to handle sharp blades.
The safety signs used on the mower must be in well condition and be read clearly.
Replace safety sign immediately if it became damaged, torn or illegible.



SAFETY DECALS



OPERATING INSTRUCTIONS

The Finishing Mower is designed to be used on Flow of wheel loader or others
Using excessive power will shorten the life of the drive train components.

CONNECTING TO TRACTOR

Park the mower and tractor on a level dry area free of debris and foreign objects.

1. Slowly back the tractor up to the mower.
2. Adjust the Mount arms to align with the mower lift pins.
3. Stop the tractor, set the parking brake and remove the ignition key before mounting.
4. Attach the top link on the tractor to the link pin assembled in the upper lift pin bracket. Adjust the turnbuckle on the tractor top link so that the upper lift bracket hangs straight down with the tractor and mower both on level ground.

FIELD USE PREPARATION

1. Park the machine on hard level ground with the mower slightly raised.
2. Adjust the sway blocks or chains on the tractor so the mower is centered between the rear wheels.
3. Adjust the Mount arms to level the mower side to side.
4. Adjust the turnbuckle on the top of the three-point hitch arms to level the mower front and back.
5. Adjust the cutting height using the wheel spacers on the wheel yokes. The spacers should be set at the same height on all four wheels.
6. Check the oil level in the gearbox and add as required.

Note Oil in the Hydraulic Gear Motor has been drained for shipping!

7. Grease spindle assembly, wheel bearings,
8. Check tightness of belts, bolts and other hardware.
9. Check blades to see if they are damaged. Sharpen or replace blades if necessary. Check that blade bolts are tight.

Note Blade bolts are left hand thread!

10. Clear the working area of foreign objects and check that all bystanders are standing clear before starting.
11. Start the tractor with the mower resting on the ground on all four wheels.

FIELD OPERATION

1. The mower works best on dry grass. Slower cutting speed and occasional cleaning may be required on damp or wet grass.
2. Use a higher blade setting for rough areas to prevent scalping of the surface.
3. Always cut counter-clockwise so grass clippings are thrown on the grass already cut. This saves power and wear on the blades.
4. Sharpen blades of grass tears instead of cutting cleanly.
5. Slow down when cutting corners. Turning too sharply on corners can leave a small strip of grass uncut.

DISCONNECTING FROM TRACTOR

1. Park on a firm level area and clean the mower.
2. Lower the mower until the load is off the hitch arms.
3. Disconnect the hitch arms and Hydraulic pipes.
4. Cover the mower for storage to prevent rust.

MAINTENANCE

1. GREASE: Grease wheel yokes, wheel bushing and PTO u-joints approximately every 8 hours. Before using the mower for the first time, grease wheel bushings until you can see the grease squeezed out at the ends of the wheel hub. Lubricate the telescoping PTO tube and the quick release collars on the ends of the shaft about every 20 hours. Clean all grease fittings before

injecting grease and immediately replace any damaged or missing grease fittings. When using the safety chains supplied with the PTO shaft, the shield bearings must be kept lubricated.

2. SHIELDING: Always keep all shielding in place and repair or replace if damaged.
3. BLADES: When replacing or grinding blades, all three blades must be replaced or reground at the same time to maintain the proper balance in the cutting unit. Block up the mower securely before attempting to remove the blades. Use heavy leather gloves to handle the blades. Be sure to tighten center bolt and lock washer securely when replacing blades.

Always replace the lock washer with an extra heavy duty supplied with the spindle

4. BELTS: Remove the belt guards to check belt tightness. The center of the belt span should deflect about 10mm with nominal pressure. If the belts slip or are too loose, the bolts holding the gearbox must be loosened.

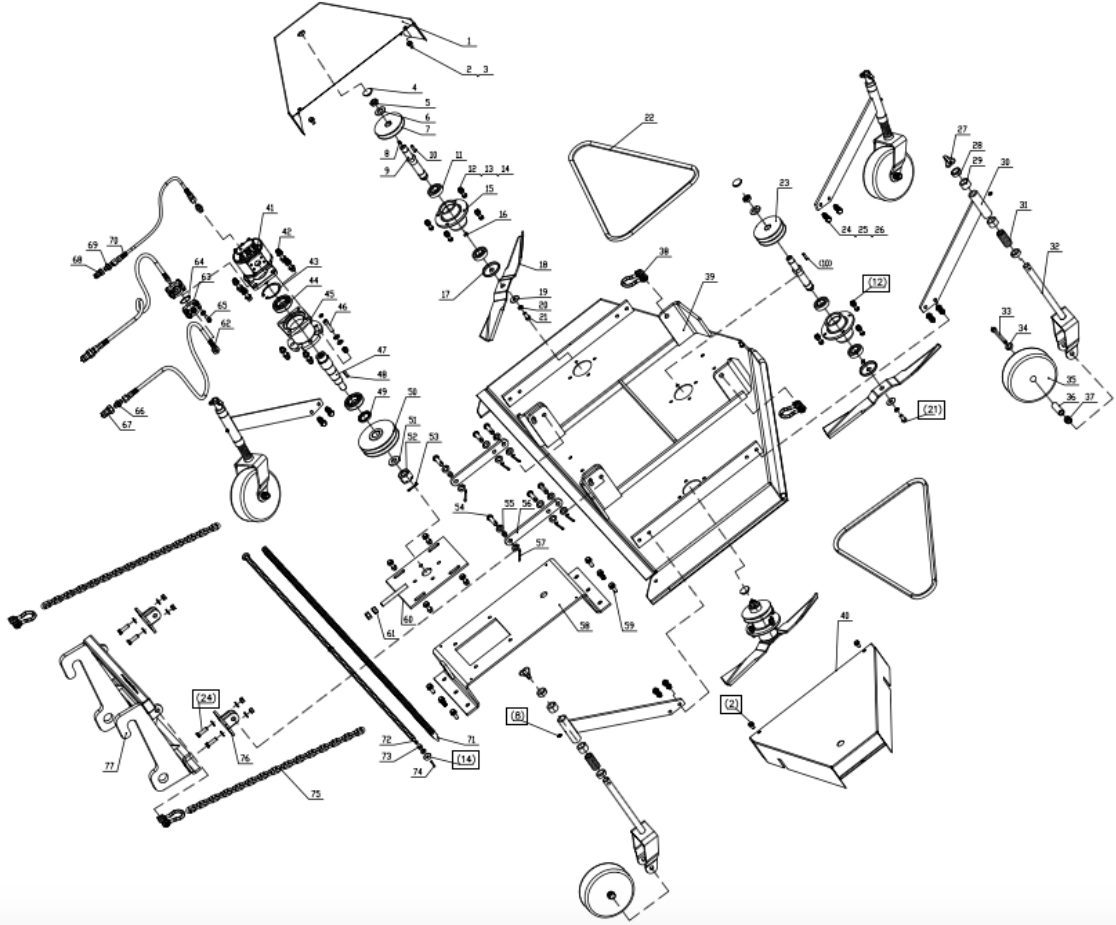
Use the threaded tightened rod on the gearbox mount to tighten the belts. Lock the rod in place and re-tighten the gearbox bolts when the belts are properly tightened. Replace belt guards. Changing belts follows the same procedure as given in the preceding paragraph, except you will have to loosen the belts further to remove them.

NOTE: Belts should always be replaced in matched sets.

Hydraulic Finishing Mower for wheel loader

| Model | LM120 | LM150 | LM180 |
|------------------------|---|-------|---------|
| Flow | 29L/min to 32L/min | | 45L/min |
| Weight | 235KG | 250KG | 275KG |
| Mounting size | Euro Hitch or Giant or design as detailed request | | |
| Hydraulic couple needs | 3 line, oil-in, and oil out, and drain port | | |

FM-120/150/180 Finishing Mower Assembly



LM-120/150/180 Finishing Mower Parts List

| REF | PART NUMBER | DESCRIPTION | QTY |
|-----|--------------|--------------------------------|--------------|
| 1 | LM120.2 | Belt cover left for LM120 | 1 |
| | LM150.2 | Belt cover left for LM150 | 1 |
| | LM180.2 | Belt cover left for LM180 | 1 |
| 2 | GB/T5783 | Bolt M10x20 | 4 |
| 3 | GB96-85 | Plain washer 10 | 4 |
| 4 | LM180.7 | Rubber stopper | 3 |
| 5 | GB/T6173 | Hexagonal thin nut M24*2 | 3 |
| 6 | GB93-87 | Spring washer 24 | 3 |
| 7 | LM150.5-1 | Pulley 02 for LM120 and LM 150 | 2 (LM120 同) |
| | LM180.5-1 | Pulley 02 for LM180 | 2 |
| 8 | JB/T7940.1 | Grease nipple M8*1 | 8 |
| 9 | LM180.4-2 | shaft | 3 |
| 10 | GB/T1096 | Key A type 8*35 | 3 |
| 11 | GB/T276-1994 | Bearing 6206—Z | 6 |
| 12 | GB5783-86 | Bolt M10x30 | 20 |
| 13 | GB6184-86 | Locking nut M10 | 12 |
| 14 | GB/T97.1 | Plain washer 10 | 20 |
| 15 | LM180.4-1 | Bearing housing | 3 |
| 16 | GB/T894.1 | Shield ring 30 | 3 |
| 17 | LM180.4-5 | shim | 3 |
| 18 | LM120.4-4 | Blade for LM120 | 3 |
| | LM150.4-4 | Blade for LM150 | 3 |
| | LM180.4-4 | Blade for LM180 | 3 |
| 19 | GB/T96.1 | Plain washer 12 | 7 |
| 20 | GB93-87 | Spring washer 12 | 9 |
| 21 | GB/T5783 | Hex bolts M12*25-LH | 3 |
| 22 | GB/T11544 | Belt B1475 for LM120 | 2 (LM120) |
| | GB/T11544 | Belt B1626 for LM150 | 2 (LM150) |
| | GB/T11544 | Belt B1880 for LM180 | 2 (LM180) |

| | | | |
|----|---------------|---|--------------------|
| 23 | LM150.4-3 | Pulley 01 for LM 120 and LM150 | 1 (LM120 同) |
| | LM180.4-3 | Pulley 01 for LM 180 | 1 |
| 24 | GB/T5783 | Bolt M12x40 | 16 |
| 25 | GB/T97.1 | Plain washer 12 | 42 |
| 26 | GB6184-86 | Locking nut M12 | 24 |
| 27 | DIN11023 | Lock pin 11*40 | 4 |
| 28 | LM180.11 | Short adjust bushing | 8 |
| 29 | LM180.12 | Long adjust bushing | 8 |
| 30 | LM180.9 | Wheel arm weldment | 4 |
| 31 | LM18.19 | spring | 4 |
| 32 | LM180.8 | Wheel fork weldment | 4 |
| 33 | GB/T5782 | Hex bolt M16*110 | 4 |
| 34 | GB/T97.1 | Plain washer 16 | 20 |
| 35 | LM180.10 | Wheel 220*75 | 4 |
| 36 | LM180.25 | Wheel bushing | 4 |
| 37 | GB6184-86 | Locking nut M16 | 4 |
| 38 | JBT8112-1999 | D type shackle | 4 |
| 39 | LM120. 1 | Mower deck for LM120 | 1 |
| | LM150. 1 | Mower deck for LM150 | 1 |
| | LM180.1 | Mower deck for LM180 | 1 |
| 40 | LM120.3 | Belt cover right for LM120 | 1 |
| | LM150.3 | Belt cover right for LM150 | 1 |
| | LM180.3 | Belt cover right for LM180 | 1 |
| 41 | CMGh2020-BFΦS | Hydraulic Gear motor for LM 120 and LM150 | 1 (LM120/ LM150 同) |
| | CMGh2025-BFΦS | Hydraulic Gear motor for LM 180 | 1 (LM180) |
| 42 | GB/T70.1 | Hexagon socket head cap screw M12*40 | 4 |
| 43 | GB/T893.1 | Shield ring 80 | 1 |
| 44 | GB/T276 | Bearing 6208-Z | 2 |
| 45 | LM180.17-1 | Deck for connecting shaft | 1 |

| | | | |
|----|---------------|--|-------------|
| 46 | GB/T70.1 | Hexagon socket head cap screw M12*45 | 4 |
| 47 | LM180.17-2 | Connection shaft | 1 |
| 48 | GB/T1096-2003 | Key type 10*35 | 1 |
| 49 | GB/T13971.1 | Oil seal FB40*55*8 | 1 |
| 50 | LM120.17-3 | Pulley 200 for LM 120 | 1 |
| | LM180.17-3 | Pulley 160 for LM 150 and LM180 | 1 (LM150 同) |
| 51 | LM180.17-4 | Washer 01 | 1 |
| 52 | GB/T6178 | Nut M24 | 1 |
| 53 | GB/T91 | Cotter pin 5*40 | 1 |
| 54 | LM180.23 | Pin 01 | 6 |
| 55 | SF-2X | Bearing 15*17*12 | 4 |
| 56 | LM180.21 | Connection bar | 2 |
| 57 | GB/T91 | Cotter pin 5*28 | 6 |
| 58 | LM120.16-1 | Bracket for gear motor for LM120 and LM150 | 1 (LM150 同) |
| | LM180.16-1 | Bracket for gear motor for LM120 and LM150 | 1 |
| 59 | GB/T5783 | Bolt M12*30 | 6 |
| 60 | LM180.18 | Connection plate weldment | 1 |
| 61 | GB/T6170 | Nut M16 | 2 |
| 62 | LM180.26-2 | Oil pipe 1 | 2 |
| 63 | LM180.26-1 | connection | 2 |
| 64 | AS568 | O ring | 2 |
| 65 | GB70-85 | Screw M10*30 | 8 |
| 66 | GE15LRED | Connection M22*1.5-G1/2 | 2 |
| 67 | GB/T5862-2008 | Couple G1/2 | 2 |
| 68 | GB/T5862-2008 | Couple G3/8 | 1 |
| 69 | GE08LR3/8ED | Connection M14*1.5-G3/8 | 2 |
| 70 | LM180.26-3 | Oil pipe 2 | 1 |
| 71 | LM180.14 | Fender | 70 (LM120) |

| | | | |
|----|-----------|------------------------------|-----------------|
| | | | 88 (LM150) |
| | | | 106 (LM180) |
| 72 | LM120.13 | Fender bar for LM120 | 1 |
| | LM150.13 | Fender bar for LM150 | 1 |
| | LM180.13 | Fender bar for LM180 | 1 |
| 73 | LM180.15 | bushing | 68 (LM120) |
| | | | 86 (LM150) |
| | | | 104 (LM180) |
| 74 | GB/T91 | Cotter pin 3.2*22 | 2 |
| 75 | JBT8108.2 | Chain 8*950 | 2 |
| 76 | LM180.22 | Connection plate weldment | 2 |
| 77 | LM180.20 | Mounting plate weldment | 1 |