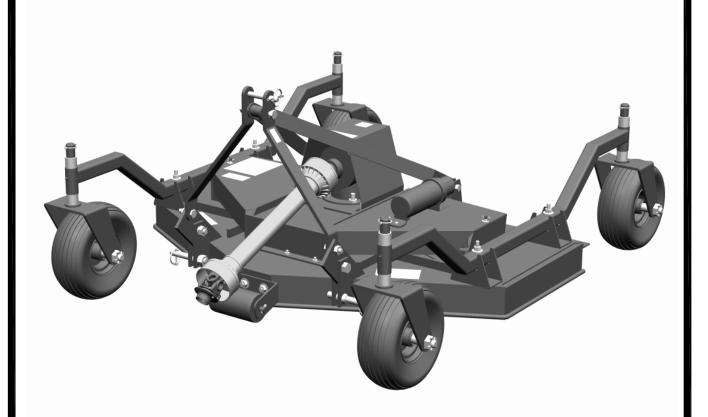
bühler



HEAVY DUTY FINISHING MOWER

Operator's and Parts Manual FK369



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WARRANTY POLICY

Buhler Manufacturing products are warranted for a period of twelve (12) months (90 days for commercial application) from original date of purchase, by original purchaser, to be free from defects in material and workmanship under correct, normal agricultural use and proper applications.

Buhler Manufacturing's obligations under this warranty shall be limited to the repair or exchange, at Buhler Manufacturing's option, of any Buhler Manufacturing product or part which proves to be defective as provided. Buhler Manufacturing reserves the right to either inspect the product at the buyer's location or have it returned to the factory for inspection.

The above warranty does not extend to goods damaged or subject to accident, abuse or misuse after shipment from Buhler Manufacturing's factory, nor to goods altered or repaired by anyone other than an authorized Buhler Manufacturing representative.

Buhler Manufacturing makes no Express Warranties other than those which are specifically described. Any description of goods, including any references and specifications in catalogues, circulars and other written material published, is for the sole purpose of identifying goods and shall conform to such descriptions. Any sample or model is for illustrative purposes only and does not create an Express Warranty that the goods conform to sample or model shown.

The purchaser is solely responsible for determining suitability of goods sold. This warranty is expressly in lieu of all other warranties expressed or implied. Buhler Manufacturing will in no event be liable for any incidental or consequential damages whatsoever. Nor for any sum in excess of the price received for the goods for which liability is claimed.

WARRANTY CLAIMS:

Warranty requests must be prepared on Buhler Manufacturing Warranty Claim Forms with all requested information properly completed. Warranty Claims must be submitted within a thirty (30) day period from date of failure repair.

WARRANTY LABOR:

Any labor subject to warranty **must** be authorized by Buhler Manufacturing. The labor rate for replacing defective parts, where applicable, will be credited at 100% of the dealer's posted shop rate. Defective parts will receive an extra 10% discount to assist with freight or other incidental costs.

GOVERNMENT LEGISLATION:

Warranty terms and conditions are subject to Provincial or State legislation.

IMPORTANT FACTS:

Buckets and Bucket Tines Carry No Warranty Bent Spears Carry No Warranty Snowblower Fan Shafts Carry No Warranty Mower Blades Carry No Warranty Portable Auger Parts Have Two (2) Year Warranty Loader Parts Have Two (2) Year Warranty

IMPORTANT NOTE: This warranty does not apply to rentals



INTRODUCTION

Buhler has been building top quality finishing mowers for 15 years and has refined these mowers to be among the best in the industry. Manufactured with top quality material, the edge of the mower deck features solid reinforcing rods. The Heavy Duty Finishing Mowers are Buhler Quick Hitch compatible and are available in widths ranging from 60" to 84".

Each mower features three high-speed blades with one of the highest rated tip-speeds in the industry. This creates powerful suction that lifts the grass for a crisp cut. A blade overlap prevents stripping and ensures the lawn is mowed evenly.

Buhler Farm King Heavy Duty Finishing Mowers are built to be durable and long lasting. Each wheel yoke assembly includes a cutting height adjustment on the 1" wheel yoke shaft. Bushings in the wheel hubs ensure long-term reliability without needing frequent lubrication. A slide adjustment is located under the gearbox for easy belt tensioning. Keep this manual handy for frequent reference. All new operators or owners must review the manual before using the equipment and at least annually thereafter. Contact your Buhler Dealer if you need assistance, information, or additional copies of the manual. Visit our website at www.buhler.com for a complete list of dealers in your area. The directions left, right, front and rear, as mentioned throughout this manual, are as seen facing in the direction of travel of the implement.



SAFETY

Remember, YOU are the key to safety. Good safety practices not only protect you, but also the people around you. Make these practices a working part of your safety program. Be certain that everyone operating this equipment is familiar with the recommended operating and maintenance procedures and follows all the safety precautions. Most accidents can be prevented. Do not risk injury or death by ignoring good safety practices.

The alert symbol is used throughout this manual. It indicates attention is required and identifies hazards. Follow the recommended precautions.



The safety alert symbol means...

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

ACAUTION

The caution symbol indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

AWARNING

The Warning Symbol indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

ADANGER

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



GENERAL SAFETY INSTRUCTIONS

Have a first-aid kit available for use and know how to use it.

Have a fire extinguisher available, stored in a highly visible location, and know how to use it.

Wear appropriate protective gear. This list may include but is not limited to:

- Hard hat
- Protective shoes with slip resistant soles
- Protective glasses or goggles
- Heavy gloves
- Wet weather gear
- Hearing protection
- Respirator or filter mask

Read and understand the Operator's Manual and all safety signs before operating, servicing, adjusting, repairing, or unplugging the equipment.

Do not attempt any unauthorized modifications to your Buhler product as this could affect function or safety, and could affect the life of the equipment.

Never start or operate the mower except from the operator's station on the power unit. Inspect and clean the working area before operating.

Keep hands, feet, clothing, and hair away from moving parts.

Ensure bystanders are clear of the area before operating.

START-UP SAFETY

Do not let inexperienced operators or children run this equipment.

Place all tractor and machine controls in neutral before starting.

Operate only with ROPS and seatbelt equipped tractors.

Do not operate inside a building unless there is adequate ventilation.

Ensure all shields are in place and in good condition before operating.

Stay clear of PTO shaft and machine when engaging PTO.

OPERATION SAFETY

Do not permit riders.

Do not wear loose fitting clothing during operation.

Never operate over 540 PTO rpm speed.

Never operate the equipment in the raised position.



TRANSPORT SAFETY

Review Transport Safety instructions in tractor manual before moving.

Check with local authorities regarding transport on public roads. Obey all applicable laws and regulations.

Make sure the SMV (Slow Moving Vehicle) emblem and all the lights and reflectors that are required by the local highway and transport authorities are in place, are clean, and can be seen clearly by all overtaking and oncoming traffic.

Never have the equipment in operation during transport.

Always travel at a safe speed.

Inflate Tires to recommended pressure.

Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion, which may result in serious injury or death.

SERVICE AND MAINTENANCE SAFETY

Stop engine, set brake, remove ignition key, and wait for all moving parts to stop before servicing, adjusting, repairing, or unplugging.

Support the equipment with blocks or safety stands before working beneath it.

Follow good shop practices including

- Keep service area clean and dry
- Be sure electrical outlets and tools are properly grounded
- Use adequate light for the job

Use only tools, jacks, and hoists of sufficient capacity for the job.

Replace and secure all shields removed during servicing before operating.

Use heavy leather gloves to handle sharp objects.

STORAGE SAFETY

Store the unit in an area away from human activity.

Do not permit children to play on or around the stored machine.

Support the frame on stands and blocks to provide a secure base.

SAFETY SIGNS

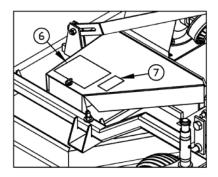
The following illustration shows the approximate location and detail of safety signs. Keep all safety signs clean and legible and replace any that are damaged or missing. When original parts are replaced, any safety signs affixed to those parts should be replaced as well. Replacement safety signs are available from your local dealer.

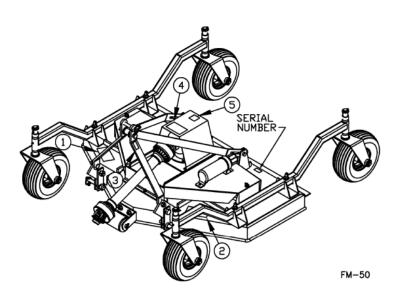
SAFETY SIGN INSTALLATION

To install safety signs, ensure the installation area is clean and dry. Decide on the exact position before you remove the backing paper. Remove the smallest portion of the split backing paper and align over the specified area. Carefully press in place. Slowly peel back the remaining paper and smooth the remaining portion in place. Small air pockets can be pierced with a pin and smoothed out.



HEAVY DUTY FINISHING MOWER SAFETY SIGNS







CAUTION

-READ OPERATOR'S MANUAL BEFORE USING.

-ONLY TRAINED, COMPETENT PERSONS SHALL OPERATE THIS EQUIPMENT.

-KEEP ALL SHIELDS IN PLACE.

-KEEP HANDS, FEET, CLOTHING AND HAIR AWAY FROM MOVING PARTS.

STOP ENGINE, SET BRAKE, REMOVE KEY AND WAIT FOR ALL MOVING PARTS TO STOP BEFORE SERVICING, ADJUSTING, REPAIRING AND UNPLUGGING.

-REMOVE BYSTANDERS, ESPECIALLY CHILDREN, BEFORE STARTING OR WHILE OPERATING.

- -BLOCK UP BEFORE WORKING BENEATH UNIT.
- -LOWER THE MOWER WHEN PARKING OR STORING.
- -REVIEW SAFETY INSTRUCTIONS ANNUALLY.



YOU MUST NOT OPERATE THIS MACHINE UNLESS:

- 1. YOU ARE TRAINED IN ITS SAFE OPERATION AND
- 2. YOU KNOW AND FOLLOW MANUFACTURER'S SAFETY AND OPERATING INSTRUCTIONS AS **OUTLINED IN THE OPERATOR'S MANUAL.**

AN UNTRAINED OPERATOR SUBJECTS HIMSELF AND OTHERS TO SERIOUS INJURY OR DEATH.

966702

#1

#2



WARNING

CHECK PTO SHAFT LENGTH BEFORE RAISING OR LOWERING IMPLEMENT. SHAFT MUST NOT BOTTOM OR SEPERATE (SEE MANUAL)

108431



SAFETY SIGNS - cont'd.



CHECK OIL LEVEL BEFORE USING

967388

#4

#5



#6



#7

Replace safety sign immediately should it become damaged, torn or illegible. Obtain replacements from your authorized dealer using the part numbers shown.



HITCH ASSEMBLY INSTRUCTIONS

- 1. The hitch is assembled except for the two pivot bars (#69). Bolt one end of each pivot bar between the welded brackets at the back of the deck using the bolts assembled in the mower.
- 2. Remove the 3/4" bolt (#63) at the top of the hitch assembly. Using the same bolt, assemble with the pivot bars between the hitch weldment (#38)

CHAIN KIT ASSEMBLY

- 1. Drill 13/32" holes in the back lip of the deck weldment spaced as shown on the drawing. The hole spacing should be centered across the width of the back lip.
- 2. With the narrow lip of the chain guard plate (#2) turned up, push an end link of a 3-link chain up through the slot nearest the end of the guard plate. The chain rod (#3) slides through the chain link along the top surface of the chain guard plate. Slide through each chain in order along the entire guard plate. Slide a flat washer on each end of the rod. Hold the assembly in place with a 1/8" x 1" cotter pin (#8) at both ends of the rod.
- 3. A 5/8" long spacer (#6) fits between the guard plate and the rear lip on the deck. These spacers must be centered on the holes in the guard plate and the rear lip on the deck. With the spacers in place, position the chain guard assembly under the lip on the deck. Clamp on assembly to hold in place. Bolt guard plate assembly to the deck using 3/8" x 1 1/2" bolts, lock washers and hex nut.

QUICK HITCH KIT INSTRUCTIONS

- 1. Remove the two sets of lift brackets with the lower lift pins from the mower hitch arms (#4).
- 2. Bolt the adaptor plates (#13) to the outside of the hitch arms welded to the deck. Turn the plates as shown in drawing. Use the 3/4" x 2 1/2" bolts and bushings in the 1" holes. The 5/8" x 2" bolts holding on the A-frame weldment are removed and replaced with 2 1/2" bolts (#3) which also fit through the adaptor plates. The bushings already in the A-frame must remain in place.
- 3. Assemble the two quick hitch arms (#4) on the inside of the adaptor plates using the lift pins with the swivel bushings from step one at the bottom. The A-frame and quick hitch arms are connected at the top using an adaptor weldment (#11). With the welded bushings on the adaptor facing down, the A-frame is attached using the top link pin (#9). The hitch arms (#4) are bolted on using a 3/4" x 4 1/2" bolt (#1) which fits through a 2 3/8" spacer (#12).



START-UP

- 1. Park the unit 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 three-point hitch 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 (#50 and #51) 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 (see maintenance section).
- 7. Grease spindle assembly, wheel bearings, wheel pivots and the PTO shaft (see maintenance section).
- 8. Maintain proper air pressure in tires of 30 psi. (207 kPa) max.
- 9. Check tightness of belts, bolts and other hardware (see maintenance section).
- 10. Check blades to see if they are damaged. Sharpen or replace blades if necessary. Check that blade bolts are tight.
- 11. Clear the working area of foreign objects and check that all bystanders are standing clear before starting.
- 12. Start the tractor with the mower resting on the ground on all four wheels.
- 13. Slowly engage the PTO and bring the speed up to 540 PTO rpm for cutting.



OPERATING INSTRUCTIONS

The Heavy Duty Finishing Mower is designed to be used on a tractor with a standard category 1 three-point hitch. See the specification sheet for horsepower requirements. 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 machine.
- 2. Adjust the three-point arms to align with the mower lift pins.
- 3. Stop the tractor, set the parking brake and remove the ignition key before dismounting.
- 4. Slide the three-point arms on the lift pins and lock in place with the clips supplied.
- 5. With the tractor engine shut off, attach the PTO shaft. Both ends of the PTO have a standard 6-spline end with a spring-loaded locking collar. Turn the round collar at the ends of the PTO clockwise to slide onto the splined shafts. The spring-loaded pin in the PTO yoke must lock into the groove on the splined shaft on the gearbox and tractor. Always check to see that both ends of the PTO shaft are securely attached every time the mower is used. This should always be done with the tractor engine shut off. Attach the safety chains supplied with the PTO shaft, allowing sufficient slack for the driveline during turns and operation. Check booklet attached to the PTO for instructions.

NOTE: At least one third of the telescoping length of the PTO should overlap when the mower is in operation.

6. Attach the top link on the tractor to the link pin assembled in the hitch weldment (#38). Adjust the turnbuckle on the tractor top link so that the hitch sits straight with both the tractor and mower on level ground.



FIELD OPERATION

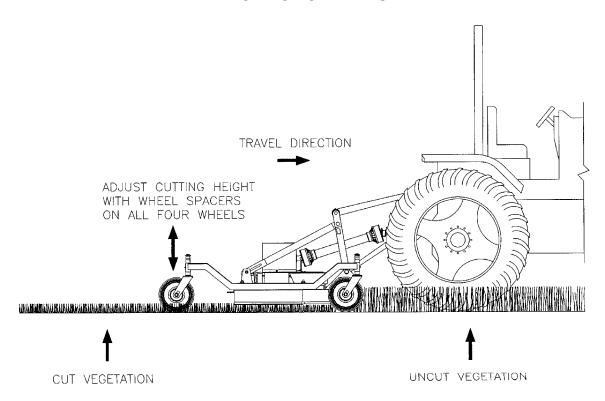
- 1. The mower works best on dry grass. Slower cutting speed and occasional cleaning may be required on damp or wet grass.
- 2. Operate mower at the full 540 PTO rpm for a good cut. Slower speeds or double cutting could be required for very high grass.
- 3. Use a higher blade setting for rough areas to prevent scalping of the surface.
- 4. Always cut counter-clockwise so grass clippings are thrown on the grass already cut. This saves power and wear on the blades.
- 5. Sharpen blades if grass tears instead of cutting cleanly.
- 6. Slow down when cutting corners. Turning too sharply on corners can leave a small strip of grass uncut.

DISCONNECTING FROM TRACTOR

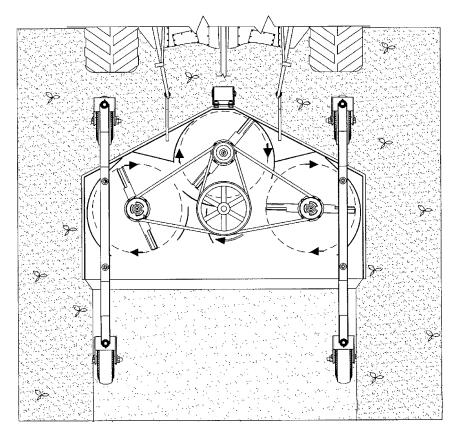
- 1. Park on a firm level area and clean the mower.
- 2. Lower the mower until the load is off the hitch arms.
- 3. Disconnect the hitch arms and the PTO shaft.
- 4. Cover the mower for storage to prevent rust.



THEORY OF OPERATION







FM-65



MAINTENANCE

HEAVY DUTY FINISHING MOWER PTO SHAFTS

MAINTENANCE: The cross journals and the shield bearings at both ends of the shaft should be greased every 8 hours. Use 1 or 2 pumps of high temperature grease. The cones on the outer PTO shield must be turned until the access holes line up with the grease nipple in the cross journals. The grease nipple for the shield bearings is on the bottom edge of the cone. The PTO shaft must be pulled apart to grease the cardan tubes. Put about 4 pumps of grease into the female or larger outer tube. Slide the two halves back together. The quick release collars on the ends of the PTO shaft should also be kept lubricated. The cardan tubes and the release collars should be greased about every 20 hours. Clean all grease fittings before injecting grease and immediately replace any damaged or missing grease fittings.

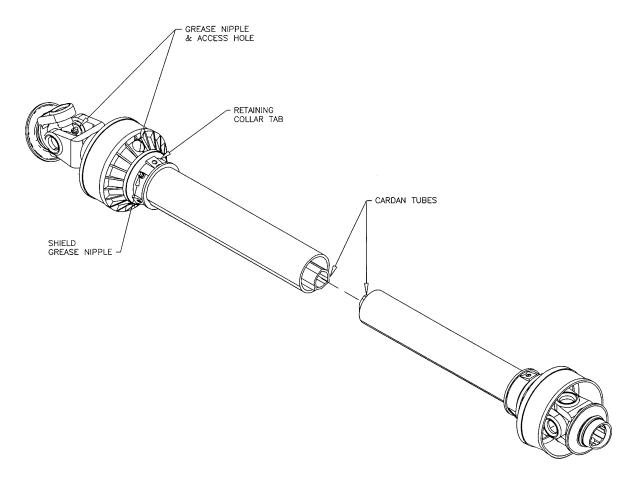
SERVICE: The two major service areas on the mower PTO shafts are the shielding and the cross journals. The outer guards are held on by a nylon shield bearing. The three round white tabs at the bottom edge of the shield cones must all be pushed in to pull the shield off the cardan yoke and tube assembly. To replace the outer guards, first fit the nylon shield bearing into the groove machined into the yoke. Slide on the outer guard until it snaps in place. The tabs on the shield bearing must line up with grooves on the inside of the outer guard.

The cross journals must be removed using a press or a vise. Do not use a hammer. Cross journal replacement is done with the outer shield removed. Remove the snap rings at the ends of the cross journal before pressing out. The cups on the ends of the cross journal contain numerous needle bearings. If even one of these needle bearings falls over, you will not be able to assemble the cross journal. Check that the end yoke turns freely after replacing a cross journal. Adjust the spread on the end yoke if necessary to loosen up the turning.

The quick release collars on the ends of the PTO shaft are held on by a snap ring. A pin and spring are inside the collar. Repair immediately if the collar fails to hold the PTO shaft solidly in place.



PTO SHAFT

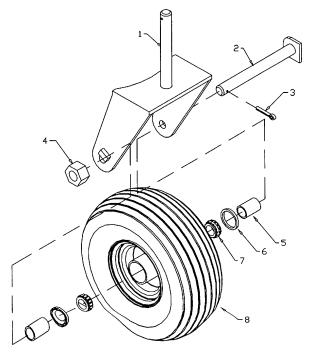


FM-58



MOWER DECK WHEEL BEARINGS

The mower wheel bearings are packed in grease when they are shipped. They should be repacked in fresh grease once a year or every 200 hours of usage.



FM-53

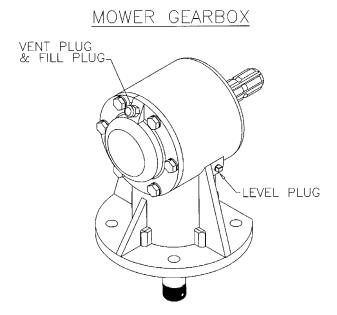
MOWER DECK WHEEL BEARINGS

| ITEM | PART# | DESCRIPTION |
|------|--------|--|
| | | |
| 1 | 902422 | Wheel Yoke |
| 2 | 902489 | 1" x 9 1/4" long Wheel Yoke Pin |
| 3 | 812681 | 3/16" x 1 1/2" Cotter Pin (pl) |
| 4 | 967498 | 1" Slotted Hex Nut (NF) 14 (pl) |
| 5 | 902505 | 1 3/4" x 1 1/4" O.D. Wheel Spacer (pl) |
| 6 | 967497 | Oil Seal Se 10 |
| 7 | 966776 | Bearing Cone (L44643) |
| 8 | 966195 | Tire & Rim (15 x 6 - 6) |



MOWER GEARBOX LUBRICATION

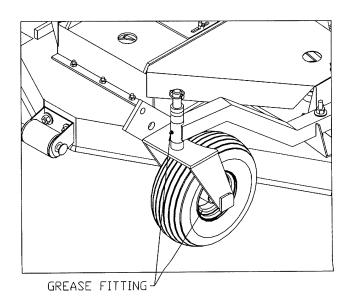
The gearbox should be filled with SAE90 oil to the bottom of the level plug when shipped. Check the mower gearbox before using and at regular intervals (approximately every 40 hours). See that the oil level is maintained. On the mower gearbox the vent plug also acts as the fill plug.



FM-52

MOWER SPINDLE LUBRICATION

Use a high temperature grease for all applications. The mower deck wheel spindles have a grease nipple in the sleeve welded to the ends of the axle and in the wheel hub. These locations should receive 3 or 4 pumps of grease about every 8 hours.



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SPINDLE REPLACEMENT

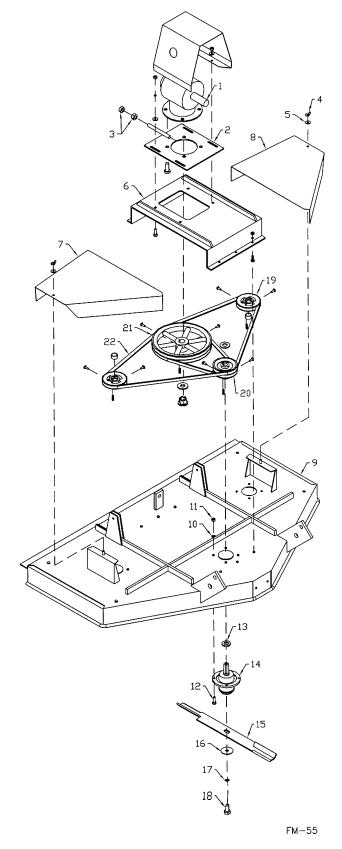
OUTER SPINDLES: remove the belt guard on the side required (#7 & #8). Loosen the belts by first loosening the bolts holding the gearbox base plate (#2). Turn the 5/8" hex nut (#3) on the threaded rod on the base plate until there is enough slack in the belt to slip it off the spindle pulley. Remove the snap ring from the spindle shaft and pull off the pulley. Remove the blade from the spindle. The mower will have to be raised off the ground. Take off the four bolts holding on the spindle (#14). After replacing the spindle, be sure that the bolt holding the blade is tightened to 180 ft-lbs (244 N-m). Use a torque wrench. Re-tighten the belts so the center of the belt span will deflect about 1/2" with nominal pressure. Do not forget to tighten the bolts on the gearbox mounting plate.

CENTER SPINDLE: The procedure is the same as for the outer spindles as described above except for the following differences. Both belt guards (#7 & #8) must be removed. After slacking off the belt as described remove the gearbox mounting plate (#6) in one piece with the gearbox and large pulley. Remove the double pulley and replace the spindle. When you replace the belts make sure they are lined up as shown in the drawing. The upper grooves in the double pulleys go around the higher of the single pulleys. The lower grooves of the double pulley line up with the lower single pulley.

Drawing on next page.



HEAVY DUTY MAINTENANCE – SPINDLE REPLACEMENT





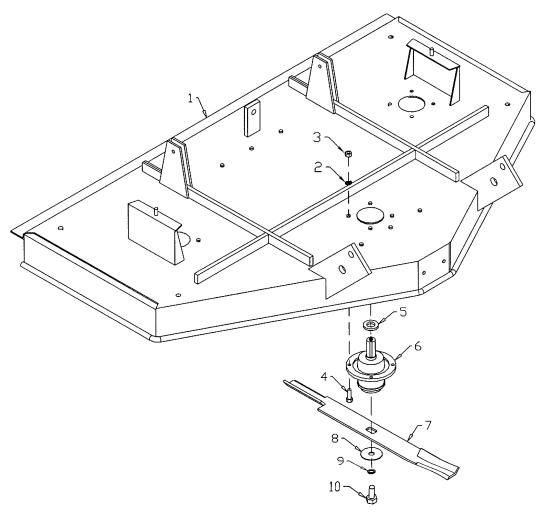
SPINDLE REPLACEMENT

| ITEM | PART# | DESCRIPTION |
|------|-----------|---|
| 1 | 912300158 | Gearbox Assembly |
| 2 | 980004200 | Gearbox Base Plate |
| 3 | 81676 | 5/8" Hex Nut (pl) |
| 4 | 84217 | 3/8" Wing Nut (pl) |
| 5 | 84000 | 3/8" BS Flat Washer (pl) |
| 6 | 906343 | Gearbox Mount Plate |
| 7 | 906353 | 5' R.H. Belt Guard |
| | 906355 | 6' R.H. Belt Guard |
| | 902269 | 7' R.H. Belt Guard |
| 8 | 906354 | 5' L.H. Belt Guard |
| | 906356 | 6' L.H. Belt Guard |
| | 902268 | 7' L.H. Belt Guard |
| 9 | 902667 | 5' Rear Discharge Deck |
| | 902668 | 6' Rear Discharge Deck |
| | 902669 | 7' Rear Discharge Deck |
| 10 | 81593 | 3/8" Lock Washer (pl) |
| 11 | 81592 | 3/8" Hex Nut (pl) |
| 12 | 86171 | 3/8" x 1 1/4" Hex Bolt (pl) |
| 13 | 912301558 | Snap Ring |
| 14 | 966860 | Spindle Assembly c/w Hardware |
| 15 | 966273 | 21 3/4" Blade (5') |
| | 966274 | 25 3/4" Blade (6') |
| | 966167 | 29 3/4" Blade (7') |
| 16 | 966188 | 2 1/2"O.D. x 21/32"I.D. Washer (pl) (Supp w/ Spndl) |
| 17 | 966190 | 5/8" Lock Washer Extra Heavy (pl) (Supp w/ Spndl) |
| 18 | 966189 | 5/8" x 1 1/4" Gr. 8 Hex Bolt Lck (pl) (Supp w/ Spndl) |
| 19 | 904245 | 4 1/2" Single Sheave (Machined End Up) (5' & 6') |
| | 904247 | 5 1/4" Single Sheave (Machined End Up) (7') |
| 20 | 904246 | 4 1/2" Double Sheave (5' & 6') |
| 0.4 | 904248 | 5 1/4" Double Sheave (7') |
| 21 | 966722 | 12" Double Sheave (1.25" Bore) |
| 22 | 904251 | B-70 Belts (5') |
| | 973506 | B-78 Belts (6') |
| | 973248 | B-87 Belts (7') |



BLADE REPLACEMENT

The mower deck must be securely blocked up or locked in place before doing a blade replacement. 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. Use heavy leather gloves to handle the blades. It is easiest to remove the centre bolt if you anchor the blade solidly. There are devices sold at hardware stores for this purpose. Be sure to tighten the centre bolt and lock washer securely when replacing blades. Use a torque wrench to re-tighten spindle bolts to 180 ft.-lbs (244 N-m). The bolts have a patch of thread lock material pre-applied which will hold for up to five usages. If replacing the lock washer, use an extra heavy duty lock washer as supplied with the spindle.



FM-59



BLADE REPLACMENT

| ITEM | PART# | DESCRIPTION |
|------|-----------|---|
| 1 | 902667 | 5' Rear Discharge Deck |
| | 902668 | 6' Rear Discharge Deck |
| | 902669 | 7' Rear Discharge Deck |
| 2 | 81593 | 3/8" Lock Washer (pl) |
| 3 | 81592 | 3/8" Hex Nut (pl) |
| 4 | 86171 | 3/8" x 1 1/4" Hex Bolt (pl) |
| 5 | 912301558 | Snap Ring |
| 6 | 966860 | Spindle Assembly (c/w Hardware) |
| 7 | 966273 | 21 3/4" Blade (5') |
| | 966274 | 25 3/4" Blade (6') |
| | 966167 | 29 3/4" Blade (7') |
| 8 | 966188 | 2 1/2"O.D. x 21/32"I.D. Washer (pl) (Supp w/ Spndl) |
| 9 | 966190 | 5/8" Lock Washer Extra Heavy (pl) (Supp w/ Spndl) |
| 10 | 966189 | 5/8" x 1" Gr. 8 Hex Bolt Lock (pl) (Supp w/ Spndl) |



SERVICE NOTES

To achieve optimal performance, proper and regular maintenance is required.

Use only original BUHLER parts.

Keep the machine in a functioning and efficient condition by completing the maintenance and lubrication work as listed in the maintenance checklist. If maintenance is due, no work is to be done with the machine. Discovered defects have to be repaired at once.

ATTENTION! The maintenance of the machine should be done by trained personnel. Naturally, the machine has to be secured prior to beginning any maintenance work.

Intervals of Maintenance: The intervals are based on average working conditions and strain. The various intervals of maintenance depend on the time elapsed or service hours completed, which ever is reached first. The intervals given here are based on the quality of material specified in this manual.

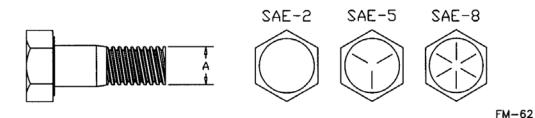
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CHECKING BOLT TORQUE

The tables shown below give correct torque values for various bolts and hex bolts. Tighten all bolts to the torques specified in chart unless otherwise noted. Check tightness of bolts periodically, using bolt torque chart as a guide. Replace hardware with the same strength bolt.

| Bolt Torque | | | | | | |
|---------------|-----|-------|-----|-------|------|-------|
| | | | | | | |
| Bolt Diameter | SA | E2 | SA | E5 | SA | E8 |
| "A" | 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 | 70 | 155 | 115 | 220 | 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 |
| 1" | 345 | 225 | 850 | 630 | 1320 | 970 |



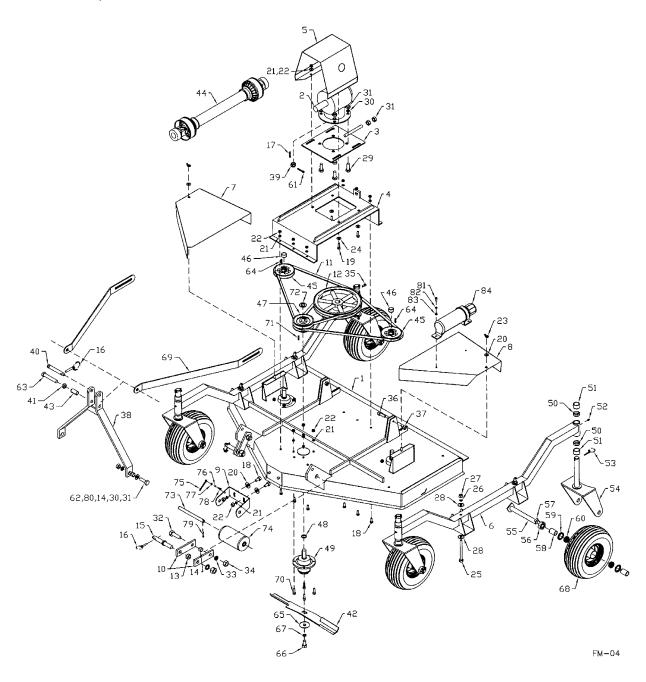
NOTE: See page 16 for correct spindle torque. Do not use this chart for spindle bolt only.

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

* Torque value for bolts and hex bolts are identified by their head markings.



5', 6' & 7' HEAVY DUTY REAR DISCHARGE FINISHING MOWER





WHEN ORDERING PARTS

Always give your dealer the Model, Color and Serial Number of your machine to assist him in ordering and obtaining the correct parts. Use the exploded view and tabular listing of the area of interest to exactly identify the required part.

5', 6', & 7' HEAVY DUTY REAR DISCHARGE FINISHING MOWER

| ITEM | PART# | DESCRIPTION |
|----------|------------------|---|
| 1 | 902667 | Deck Weldment (5') |
| | 902668 | Deck Weldment (6') |
| _ | 902669 | Deck Weldment (7') |
| 2 | 912300158 | Gearbox (Without Oil) |
| 3 | 980004200 | Gearbox Base Plate |
| 4 | 906343 | Gearbox Mount Plate |
| 5 | 966748 | PTO Guard |
| 6 | 908942 | 67 1/2" Axle Beam Weldment (5') |
| | 908944 908946 | 69 1/2" Axle Beam Weldment (6') 71 1/2" Axle Beam Weldment (7') |
| 7 | 906353 | Right Hand Pulley Guard (5') |
| , | 906355 | Right Hand Pulley Guard (6') |
| | 902269 | Right Hand Pulley Guard (7') |
| 8 | 906354 | Left Hand Pulley Guard (5') |
| | 906356 | Left Hand Pulley Guard (6') |
| | 902268 | Left Hand Pulley Guard (7') |
| 9 | 903488 | Roller Holder 7ga x 4 5/32" x 18 1/4" |
| 10 | 966723 | Lift Bracket |
| 11 | 904251 | B-70 Belts (5') |
| | 973506 | B-78 Belts (6') |
| | 973248 | B-87 Belts (7') |
| 12 | 966722 | 12" Double Sheave complete with Set Screws |
| 13 | 966601 | Lift Pin Bushing (1 1/4" O.D. x 9/16" long) |
| 14 | 966727 | Hitch Bushing (1" O.D. x 9/16" long) |
| 15 | 966823 | Lift Pin complete with Nut & Washer (XL) (Category 1) |
| 16 | 965911 | 7/16" Linch Pin (1493) |
| 17 | 900929 | Pulley Key (1/4" square x 1 5/8" long) |
| 18 19 | 86170 86182 | 3/8" x 1" Hex Bolt (pl) |
| 20 | 84000 | 3/8" x 1 1/4" Carriage Bolt (pl) 3/8" B.S. Flat Washer (pl) |
| 21 | 81593 | 3/8" Lock Washer (pl) |
| 22 | 81592 | 3/8" Hex Nut (pl) |
| 23 | 84217 | 3/8" Wing Nut (pl) |
| 24 | 964001 | 1"O.D. x 7/16" I.D. x 10ga Flat Washer (pl) |
| | - | J (1 / |



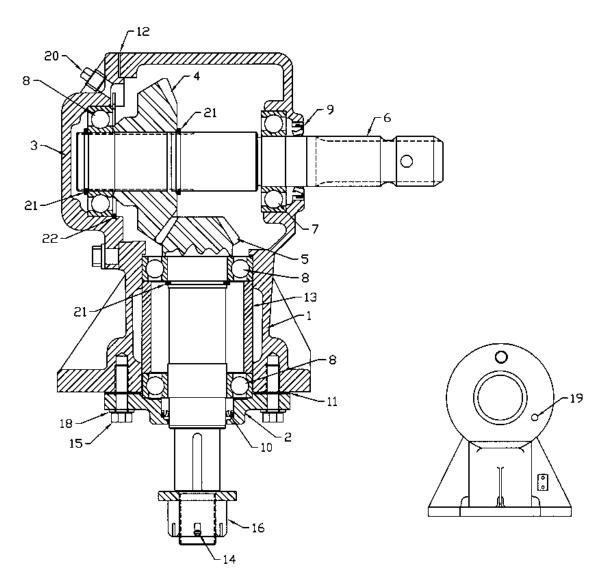
| 25 811646 1/2" x 6" Hex Bolt (pl) 26 81637 1/2" Lock Washer (pl) 27 81636 1/2" Hex Nut (pl) 28 812769 1 1/2" O.D. x 9/16" I.D. x 10ga Washer (pl) 29 84270 5/8" x 1 3/4" Hex Bolt (pl) 30 81677 5/8" Lock Washer (pl) 31 81676 5/8" Hex Nut (pl) 32 84346 3/4" x 2 1/2" Hex Bolt (pl) 33 81701 3/4" Lock Washer (pl) 34 81700 3/4" Hex Nut (pl) 35 9812377 5/16" x 3/4" Square Head Set Screw (pl) 36 84277 1/2" x 1 1/2" Hex Bolt (pl) 37 812364 1/2" Lock Nut (pl) 38 966758 Hitch Weldment 39 905247 1"I.D. Washer & Slotted Hex Nut Weldment Inc. with Gearbox 40 965807 Top Link Pin (Category 1) 41 812365 3/4" Lock Nut (pl) 42 966273 21 3/4" Hard Surfaced Blade (5') 966274 25 3/4" Hard Surfaced Blade (6') 966167 29 3/4" Hard Surfaced Blade (7') 43 906791 Arm Spacer 1"O.D. x 4 1/4" 44 F0401 PTO Shaft (5' & 6') F0400 PTO Shaft (7') 45 904245 4 1/2" Single Sheave Assembly (machined end up) (5' & 6') 904247 5 1/4" Single Sheave Assembly (machined end up) (7') 46 966811 Sheave Spacer 1 1/4" O.D. x 0.70" long 47 904246 4 1/2" Double Sheave complete with Set Screws (5' & 6') |
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| 27 81636 1/2" Hex Nut (pl) 28 812769 1 1/2" O.D. x 9/16" I.D. x 10ga Washer (pl) 29 84270 5/8" x 1 3/4" Hex Bolt (pl) 30 81677 5/8" Lock Washer (pl) 31 81676 5/8" Hex Nut (pl) 32 84346 3/4" x 2 1/2" Hex Bolt (pl) 33 81701 3/4" Lock Washer (pl) 34 81700 3/4" Hex Nut (pl) 35 9812377 5/16" x 3/4" Square Head Set Screw (pl) 36 84277 1/2" x 1 1/2" Hex Bolt (pl) 37 812364 1/2" Lock Nut (pl) 38 966758 Hitch Weldment 39 905247 1"I.D. Washer & Slotted Hex Nut Weldment Inc. with Gearbox 40 965807 Top Link Pin (Category 1) 41 812365 3/4" Lock Nut (pl) 42 966273 21 3/4" Hard Surfaced Blade (5') 966167 29 3/4" Hard Surfaced Blade (6') 966167 29 3/4" Hard Surfaced Blade (7') 43 906791 Arm Spacer 1"O.D. x 4 1/4" 44 F0401 PTO Shaft (5' & 6') F0400 PTO Shaf |
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| 904248 5 1/4" Double Sheave complete with Set Screws (7') |
| 48 912301558 1" Snap Ring |
| 49 966860 Spindle with Hardware |
| 50 902504 1/2" long x 1 5/8" O.D. Bushing (pl) |
| 51 902503 1" long x 1 5/8" O.D. Bushing (pl) |
| 52 967164 Pound-in Grease Nipple |
| 53 966729 3/16" Linch Pin (pl) |
| 54 902422 Wheel Yoke |
| 55 902489 1" x 9 1/4" Wheel Yoke Pin (pl) |
| 56 967498 1" Slotted Head Nut (pl) |
| 57 9812433 3/16" x 1 1/2" Cotter Pin (pl) |
| 58 902505 1 3/4" x 1 1/4" O.D. Wheel Spacer (pl) |
| 59 967497 SE10 - Oil Seal |
| 60 966776 Bearing Cone (L44643) |
| 61 81207 3/16" x 2" Cotter Pin (br) |
| 62 84299 5/8" x 2" Hex Bolt (pl) |
| 63 811790 3/4" x 4 1/2" Hex Bolt (pl) |
| 64 900931 1/4" Square x 1.11" Key |



| 65 | 966188 | 2 1/2" O.D. x 21/32" I.D. Washer (Supplied with Spindle) |
|----|---------|---|
| 66 | 966189 | 5/8" x 1 1/4" Grade 8 Hex Bolt Lock (Supplied with Spindle) |
| 67 | 966190 | 5/8" Lock Washer (pl) Extra Heavy (Supplied with Spindle) |
| 68 | 966195 | 15/600 x 6" Tire with Wheel |
| 69 | 966760 | Pivot Bar 40" long (5') |
| | 966761 | Pivot Bar 46" long (6') |
| | 966282 | Pivot Bar 51" long (7') |
| 70 | 811792 | 3/8" x 1 1/2" Hex Bolt (pl) |
| 71 | 900930 | 1/4" x 1 1/2" Key |
| 72 | 967140 | 1" x 10ga Narrow Rim Washer (pl) |
| 73 | 903104 | Roller Pin 3/4" dia. X 8 3/4" long |
| 74 | 903113 | Front Roller Assembly |
| 75 | 9812436 | 1/4" x 2 1/2" Cotter Pin (pl) |
| 76 | 81545 | 1/4" Lock Washer (pl) |
| 77 | 81544 | 1/4" Hex Nut (pl) |
| 78 | 81525 | 1/4" x 3/4" Hex Bolt (pl) |
| 79 | 9812434 | 1/4" x 1 1/2" Cotter Pin (pl) |
| 80 | 81678 | 5/8" BS Flat Washer Standard (pl) |
| 81 | 81549 | 5/16" x 3/4" Hex Bolt (pl) |
| 82 | 81569 | 5/16" Lock Washer (pl) |
| 83 | 81568 | 5/16" Hex Nut (pl) |
| 84 | 909277 | Manual Holder |



HEAVY DUTY FINISHING MOWER GEARBOX



912300158

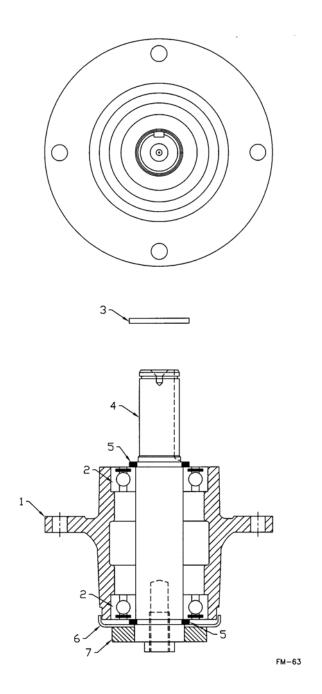


HEAVY DUTY FINISHING MOWER GEARBOX PARTS LIST

| Item # | Part # | Description |
|--------|-----------|-------------------------|
| | 912300158 | Gearbox Complete |
| 1 | 966813 | Housing |
| 2 | 914015 | Output Cap |
| 3 | 966814 | Blank Cap |
| 4 | 966815 | Input Gear, 29T |
| 5 | 966816 | Pinion Gear, 15T |
| 6 | 966817 | Input Shaft |
| 7 | 966542 | Ball Bearing, 6207 |
| 8 | 966555 | Ball Bearing, 6208 |
| 9 | 966818 | Input Seal |
| 10 | 966819 | Output Seal |
| 11 | 914019 | Output Gasket |
| 12 | 914007 | Input Gasket |
| 13 | 914001 | Spacer |
| 14 | 966562 | Cotter Pin |
| 15 | 86171 | 3/8" x 1 1/4" Hex Bolt |
| 16 | 905247 | 1" NF Hex Nut W/Washer |
| 18 | 81593 | 3/8" Lock Washer |
| 19 | 914016 | 1/8" Sq. Hd. Solid Plug |
| 20 | 966193 | 1/4" Vented Plug |
| 21 | 914008 | Retaining Ring |
| 22 | 914003 | Retaining Ring |



HEAVY DUTY FINISHING MOWER SPINDLE ASSEMBLY





FINISHING MOWER SPINDLE PARTS LIST (4', 5' & 6' SIDE AND REAR)

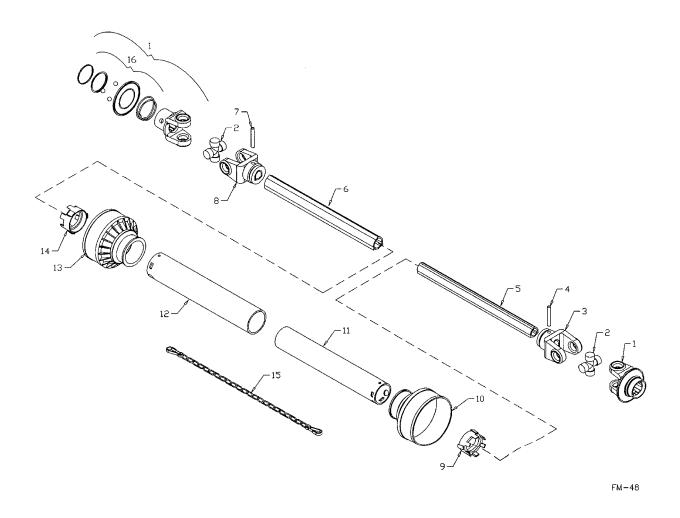
| Item # | Part # | Description |
|--------|-----------|---|
| | 906339 | Spindle Assembly Complete (Includes Hardware) |
| 1 | 966764 | Spindle Housing |
| 2 | 906399 | Spindle Bearing, 6206-Z |
| 3 | 912301558 | Snap Ring |
| 4 | 906394 | Spindle Shaft |
| 5 | 966769 | Snap Ring |
| 6 | 966820 | Shield |
| 7 | 966821 | Blade Mount Base |

FINISHING MOWER SPINDLE PARTS LIST (7' REAR) (ALL SIZE HEAVY DUTY & TRIPLEX)

| Item # | Part # | Description |
|--------|-----------|---|
| | 966860 | Spindle Assembly Complete (Includes Hardware) |
| 1 | 966862 | Spindle Housing |
| 2 | 966863 | Spindle Bearing (63067) |
| 3 | 912301558 | Snap Ring |
| 4 | 906394 | Spindle Shaft |
| 5 | 966769 | Snap Ring |
| 6 | 966865 | Shield |
| 7 | 966821 | Blade Mount Base |



HEAVY DUTY REAR DISCHARGE FINISHING MOWER PTO SHAFT





HEAVY DUTY REAR DISCHARGE FINISHING MOWER PTO SHAFT PARTS LIST

| Item # | Part # | Description | |
|--------|---------|-----------------------------|--|
| | F0401 | Shaft Complete - 5' & 6' | |
| | F0400 | Shaft Complete - 7' | |
| 1 | 907290 | Yoke | |
| 2 | 920-002 | Repair Kit | |
| 3 | 920-004 | Outer Tube Yoke | |
| 4 | 920-006 | Flexible Pin | |
| 5 | 936404 | Outer Cardan Tube - 5' & 6' | |
| | 936403 | Outer Cardan Tube - 7' | |
| 6 | 936406 | Inner Cardan Tube - 5' & 6' | |
| | 936405 | Inner Cardan Tube - 7' | |
| 7 | 930-109 | Flexible Pin | |
| 8 | 920-003 | Inner Tube Yoke | |
| 9 | 920-013 | Outer Bearing | |
| 10 | 936300 | Outer Cone Set | |
| 11 | 936408 | Outer Safety Tube - 5' & 6' | |
| | 936407 | Outer Safety Tube - 7' | |
| 12 | 936410 | Inner Safety Tube - 5' & 6' | |
| | 936409 | Inner Safety Tube - 7' | |
| 13 | 936305 | Inner Cone Set | |
| 14 | 920-015 | Inner Shield Bearing | |
| 15 | 936402 | Safety Chain | |
| 16 | 908244 | Ball Collar Kit | |

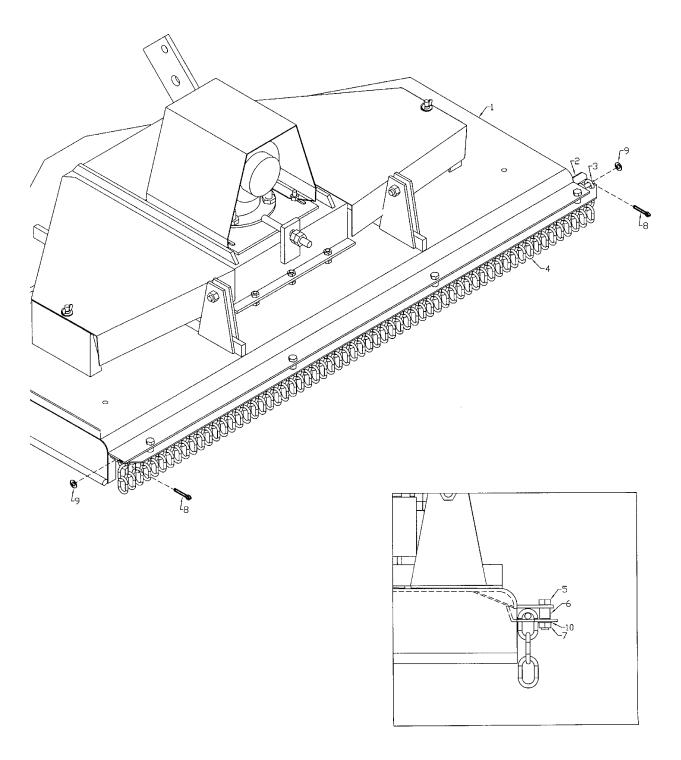


Heavy Duty Rear Discharge Finishing Mower Chain Kit

| Item # | Part # | Description |
|--------|---------|-------------------------------------|
| 1 | 902667 | 5' Deck Weldment |
| | 902668 | 6' Deck Weldment |
| | 902669 | 7' Deck Weldment |
| 2 | 902820 | 62 1/4" Chain Guard Plate (5') |
| | 902823 | 74 1/4" Chain Guard Plate (6') |
| | 902825 | 86 1/4" Chain Guard Plate (7') |
| 3 | 902827 | 62 3/8" Long Chain Kit Rod (5') |
| | 902828 | 74 3/8" Long Chain Kit Rod (6') |
| | 902829 | 86 3/8" Long Chain Kit Rod (7') |
| 4 | 967907 | 1/4" X 3 Link Chain Pl |
| 5 | 811792 | 3/8" X 1 1/2" Hex Bolt (pl) |
| 6 | 902821 | Spacer 5/8" O.D. X 12Ga X 5/8" Long |
| 7 | 81592 | 3/8" Hex Nut (pl) |
| 8 | 9812430 | 1/8" X 1" Cotter Pin (pl) |
| 9 | 84039 | 3/8" SAE Washer (pl) |
| 10 | 81593 | 3/8" Lock Washer (pl) |



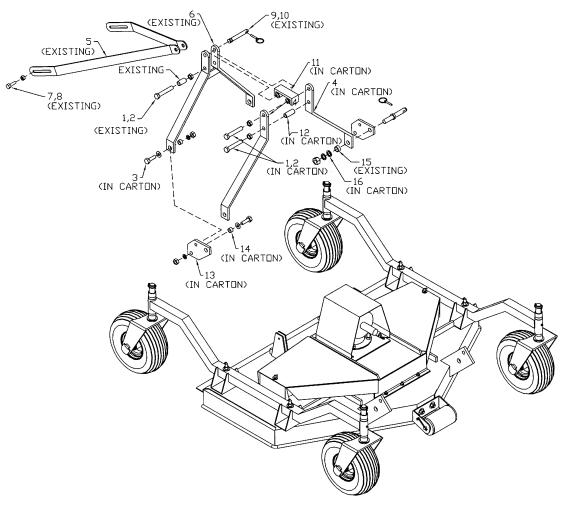
HEAVY DUTY REAR DISCHARGE CHAIN KIT



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QUICK HITCH KIT



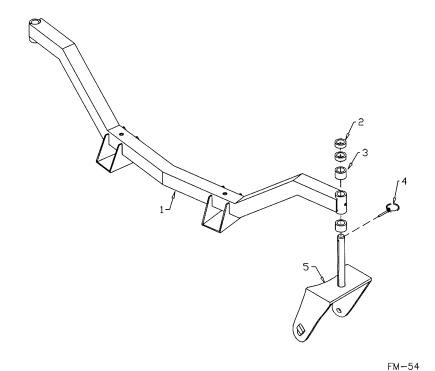
| # | PART # | DESCRIPTION | QTY |
|----|-----------------|--|-------|
| 1 | 811790 | 3/4" X 4 1/2" HEX BOLT (PL) | 3 |
| 2 | 812365 | 3/4" LOCK NUT (PL) | 3 |
| 3 | 81665 | 5/8" X 2 1/2" HEX BOLT (PL) | 2 |
| 4 | 909242 | HITCH ARM 1/2" X 2" X 28 1/2"LG | 2 |
| 5 | 966759 | PIVOT BAR 1/4" X 2" X 37" (4") | 2 |
| | 966760 | PIVOT BAR 1/4" X 2" X 40" (5") | 2 |
| | 966761 | PIVOT BAR 1/4" X 2" X 46" (6') | 2 |
| | 966282 | PIVOT BAR 3/8" X 2" X 51" (7') | 2 |
| 6 | 966758 | "A" FRAME WELDMENT | 1 |
| 7 | 84277 | 1/2" X 1 1/2" HEX BOLT (PL) | 2 |
| 8 | 812364 | 1/2" LOCK NUT (PL) | 2 |
| 9 | 965807 | TOP LINK PIN (CAT 1) | 1 |
| 10 | 965911 | 7/16" LINCH PIN | 3 |
| 11 | 909243 | ADAPTOR WELDMENT | 1 |
| 12 | 909239 | 1"0 X 2 3/8" SPACER | 1 |
| 13 | 909237 | ADAPTOR PLATE 1/2" X 4 1/2" X 6 1/2" | 2 |
| 14 | 909241 | 1''ø X 7/16'' SPACER | 2 2 2 |
| 15 | 966601 81972 | 1 1/4" X 9/16" SPACER 7/8" FLAT WASHER (PL) | 2 |

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BLADE HEIGHT ADJUSTMENT

The mowers must be raised off the ground far enough to pull the wheel yoke (#5) out of the welded sleeves at the ends of the axles (#1). Be sure the tractor is turned off. Pull out the clip (#4) and remove the wheel yoke. There are 1/2" and 1" spacers to adjust the cutting height. The cutting height is 1 3/4" with no spacers under the sleeve at the end of the axles. This can be adjusted using the spacers by 1/2" increments up to 4 3/4". Check to see that the spacers are set at the same height on all the wheel yokes.

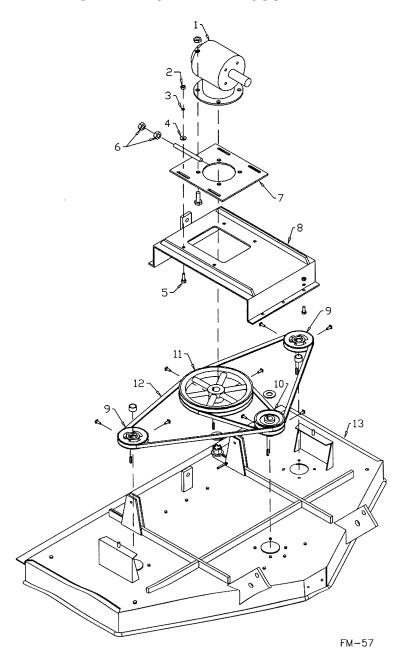


BLADE HEIGHT ADJUSTMENT

| ITEM | PART# | DESCRIPTION |
|------|--------|---------------------------------------|
| 1 | 908942 | 67 1/2" Axle Beam Weldment (5') |
| | 908944 | 69 1/2" Axle Beam Weldment (6') |
| | 908946 | 71 1/2" Right Axle Beam Weldment (7') |
| 2 | 902504 | 1/2" Lg x 1 5/8" O.D. Bushing (pl) |
| 3 | 902503 | 1" Lg x 1 5/8" O.D. Bushing (pl) |
| 4 | 966729 | 3/16" Linch Pin (pl) |
| 5 | 902422 | Wheel Yoke |
| | | |



MOWER DECK BELT ADJUSTMENT





MOWER DECK BELT ADJUSTMENT

Start by removing both belt guards on the mower deck. Loosen the bolts holding the gearbox base plate (#7). Turn the 5/8" hex nuts (#6) on the threaded rod on the base plate until there is enough slack in the belts to slip them off the spindle pulleys. If the belts can be pulled off by sliding them under the large double pulley, no further disassembly is required. If this is difficult, you can create more space by removing the bolts holding on the gearbox mounting plate (#8) in one piece with the gearbox and large pulley. Lift up the mounting plate assembly slightly and slide the belts underneath. When you replace the belts, make sure they are lined up as shown in the drawing. The upper groove in the double pulleys goes around the higher of the single pulleys. The lower grooves of the double pulleys line up with the lower single pulley. Re-tighten the belts so the center of the belt span will deflect about 1/2" with nominal pressure. Do not forget to tighten the bolts on the gearbox mounting plate.

MOWER DECK BELT ADJUSTMENT

| ITEM | PART# | DESCRIPTION |
|------|-----------|--|
| | | |
| 1 | 912300158 | Gearbox Assembly |
| 2 | 81592 | 3/8" Hex Nut (pl) |
| 3 | 81593 | 3/8" Lock Washer (pl) |
| 4 | 964001 | 7/16" I.D. x 10 Ga Washer (pl) |
| 5 | 86182 | 3/8" x 1 1/4" Carriage Bolt (pl) |
| 6 | 81676 | 5/8" Hex Nut (pl) |
| 7 | 980004200 | Gearbox Base Plate |
| 8 | 906343 | Gearbox Mount Plate |
| 9 | 904245 | 4 1/2" Single Sheave (Machined End Up) (5' & 6') |
| | 904247 | 7" Single Sheave (Machined End Up) (7') |
| 10 | 904246 | 4 1/2" Double Sheave (5' & 6') |
| | 904248 | 5 1/4" Double Sheave (7') |
| 11 | 966722 | 12" Double Pulley (1.25" Bore) |
| 12 | 904251 | B-70 Belts (5') |
| | 973506 | B-78 Belts (6') |
| | 973248 | B-87 Belts (7') |
| 13 | 902667 | 5' Rear Discharge Deck |
| | 902668 | 6' Rear Discharge Deck |
| | 902669 | 7' Rear Discharge Deck |



SHIPPING KIT AND BUNDLE NUMBERS

The following is a list of Kit Numbers for this product and the Bundle Numbers, Descriptions, and Quantities for each Kit.

QUANTITY BUNDLE NO. DESCRIPTION

Y550RHD 60" HEAVY DUTY FINISHING MOWER

| 1 | F0688 | 5' Mower |
|---|-------|-----------|
| 1 | F0670 | Tires |
| 1 | F6670 | Chain Kit |
| 1 | F6673 | Carton |

Y650RHD 72" HEAVY DUTY FINISHING MOWER

| 1 | F0689 | 6' Mower |
|---|-------|-----------|
| 1 | F0670 | Tires |
| 1 | F6671 | Chain Kit |
| 1 | F6674 | Carton |

Y750RHD 84" HEAVY DUTY FINISHING MOWER

| 1 | F0690 | 7' Mower |
|---|-------|-----------|
| 1 | F0670 | Tires |
| 1 | F6672 | Chain Kit |
| 1 | F6675 | Carton |

OPTIONAL BUNDLE NUMBERS

The following is a list of options available for the Kits listed above.

| F9459 | UHMW High Density Poly Roller Assembly |
|-------|--|
| Y730 | Quick Hitch Adaptor |

NOTES

NOTES

DIVISION LOCATIONS

Farm King Division 301 Mountain Street S. Morden, MB R6M 1X7 Ph.: (204) 822-4467 Fax: (204) 822-6348

Allied/Inland Division 1260 Clarence Avenue Winnipeg, MB R3T 1T2 Ph.: (204) 284-6100 Fax: (204) 477-2325

B.I.I. Division 1330 43rd Street N.W. Fargo, ND 58102 Ph: (701) 282-7014 Fax: (701) 282-5865

U.S. WAREHOUSES

AR, West Memphis (870) 732-3132

GA, Stone Mountain (770) 908-9439

ID, Meridian (208) 887-6006

IN, Clarksville (812) 284-3376

KS, Wichita (316) 265-9577

MN, Lakeville (952) 469-5267

MT, Billings (406) 248-7771

ND, Bismarck (701) 223-1886 ND, Fargo (701) 282-7003

(701) 282-7003 NE, Blair

(402) 426-8211 OH, Youngstown (330) 793-0862

OR, Beaverton (503) 641-1865

SD, Huron (605) 352-8616

TX, Houston (713) 928-2632

UT, Salt Lake City (801) 972-4321

WI, Portage (608) 742-1370

CANADIAN WAREHOUSES

B.C., Abbotsford (604) 864-2665

AB, Edmonton (780) 962-6991

SK, Regina (306) 781-2300

ON, Woodstock (519) 539-0435

QC, Dorion (450) 455-4840

OFFSHORE WAREHOUSES

Burando Hill Katanning W. Australia 011-618-98-214422

Chihuahua, Mexico 011-52-158-90306 John Kerr Equipment Ltd. Wilcoxholm Farm Linlithgow, W. Lothian Scotland 011-441-506-842280

Skovde, Sweden 011-46-500-452651

Naestved, Denmark 011-45-557-29511



301 Mountain Street S. Morden MB. R6M 1X7

Ph.: (204) 822-4467 Fax: (204) 822-6348 www.buhler.com