

FINISHING MOWER

Operation, Service & Parts Manual For FM-48-XB-Z

July 2001

FORM: FM48XBZMowerBook.QXD

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Date of Purchase:
Model Number:
Serial Number

INTRODUCTION

We welcome you as an owner of a Gearmore mower. Please read the following instructions and refer to them when required.

This manual contains valuable information about your new Gearmore Mower. It has been carefully prepared to give you helpful suggestions for operating, adjusting, servicing and ordering repair parts.

Keep this manual in a convenient place for quick and easy reference. Study it carefully. You have purchased a dependable and sturdy mower, but only by proper care and operation can you expect to receive the service and long life designed and built into it.

Sometime in the future your mower may need new parts to replace those that are worn or broken. If so, go to your dealer and provide him with the model and part number.

CAUTION NOTE: This mower is designed for and must be operated with a 540 rpm PTO.

BEFORE PUTTING MOWER INTO SERVICE

- 1. Fill gearbox with 90 to 140 weight gear oil. Fill through 1/2" pipe plug hole to 1/8" pipe plug hole.
- **2.** Fill all (3) spindle units with grease until full. There are (3) grease access holes for greasing spindle units in top cover.
- **3.** Grease all wheel axles, wheel forks, front roller axle, and PTO shaft.
- 4. check air pressure in tires, maintain rated psi listed on the tire at all times.
- **5.** Check all nuts, bolts and belts to insure they are tight and secure.

NOTE: Grease every 8 hours

SAFE OPERATING RULES

- 1. The area to be moved should be a clean area, free of debris.
- 2. **Do not** operate on steep hillsides.
- **3. Do not** allow passengers on tractor or mower.
- 4. Keep all safety shields in place at all times.
- **5. Always** shut mower and tractor completely off before performing any maintenance on mower.
- **6.** Disengage tractor PTO before getting off the tractor.
- 7. *Never* operate mower while it is in a raised position.
- 8. *Never* place any part of your body under the mower at any time.
- **9. Always** keep hands and feet away from the mower when it is in operation.
- **10.** A violation of these rules could result in a serious injury or death.

Use Proper Tractor Size To Match Mower

OPERATE MOWER AT 540 PTO RPM ONLY

Check all bolts and adjustments regularly to make sure they are tight.

Adhere to all warnings on following page.

SHIPPED WITHOUT OIL IN GEARBOX AND WITHOUT GREASE IN GREASE FITTINGS. UNIT MUST BE SERVICED BEFORE USING.

There are three (3) cutting height adjustment spacers from 1/2" to 1 1/2" (see drawing on page 7 reference #1).

OPERATIONAL SAFETY



FAILURE TO OBSERVE THE FOLLOWING MAY RESULT IN SERIOUS INJURY OR DEATH.



ONLY A PROPERLY TRAINED OPERATOR SHOULD OPERATE THIS MOWER. kEEP ALL OTHERS OFF TRACTOR AND MOWER.

NEVER ALLOW CHILDREN TO OPERATE TRACTOR AND MOWER.

BEFORE OPERATING MOWER:

- 1. Read operator's manual carefully for safe operation of this mower.
- **2.** Do not remove shields and guards.
- **3.** Make sure universal joints turn freely and are locked into tractor and implement drive shafts.
- **4.** Check area for any objects which may be thrown by mower.

WHILE OPERATING MOWER:

- 1. Operate mower at 540 RPM PTO.
- **2.** Stay on tractor seat at all times while mower is in operation.
- **3.** Never allow passengers to ride on tractor or mower, nor carry children on tractor or mower.
- 4. Alway stop mower in raised position and disengage PTO power before transporting mower from one location to another.
- **5.** Always stop engine before leaving tractor seat.
- **6.** Always disengage the PTO before leaving the tractor seat.
- 7. Never adjust, clean or unstop mower when engine is running.

FOR THE SAFETY OF YOURSELF AND OTHERS:

- 1. Keep yourself, others and clothing away from the rotating PTO.
- **2.** Keep others away from area to be moved to avoid injury from flying objects.
- **3.** Use mower only with tractors that have factory installed seats.
- 4. Adjust, check and lubricate mower as recommended in operator's manual.
- **5.** Never stand between mower and tractor.

OPERATIONAL SAFETY

V DANGER

Keep away - Rotating Blades To prevent serious njury ordeath when blades are rotating due to engine running.

- ➤ Keep hands and feet from underneath deck of mower.
- → Never allow riders, especially children, on tractor or mower.
- → Do not operate while others are in mowing area.

V DANGER

To prevent serious injury or death

- Never operate mower if shields and guards are not in good condition or have been removed.
- Never stand near or allow others to stand near tractor and mower when in operation.



V DANGER

To prevent serious injury or death

- ➤ Keep away from mower when it is in raised position or being lowered.
- ➤ Keep all others away frommower when it is in raised position or being lowered.
- ➤ Keep all others away when mower is in raised position while being serviced or transported.



V DANGER

To prevent serious injury or death

- ➤ Keep others away from area to be mowed to avoid being struck by flying objects.
- → Stop operating tractor and mower if others come onto area being mowed.





It is the responsibility of the owner of this equipment to replace warning labels when they cannot be read or have been damaged. To obtain new warning labels, contact your local dealer or Gearmore, Inc.

SET-UP INSTRUCTIONS

Your Gearmore Finishing Mower has been carefully assembled at the factory. By following a few simple instructions, your Finishing Mower will be ready for dependable service.

This Finishing Mower is designed to fit small tractors equipped with a standard three (3) point system. The lift pins on the mower are classified as Category 1. The Finishing Mower is shipped from the factory with a safety shielded PTO shaft. This mower is designed to mow grass only.

Before placing your Gearmore Finishing Mower in service, please follow these instructions very carefully. Your mower was shipped from the factory with no oil in the gearbox nor grease in blade spindles and wheel axles. Fill the gearbox approximately one-third full with at least 90 weight oil. Grease the PTO shaft in two places before putting in service and after every eight hours use. Grease the roller after every eight hours of use. There are three (3) blade spindle housings. The tops of each blade spindle housing are visible through three (3) access holes in the top safety shield. Grease these blade spindle housings through the top of the shaft before placing in service and after eight hours use. Adjust belts as necessary, keeping them tight but not over-tight. When properly adjusted, belt should have approximately 3/4 inch deflection with 10 lb. pull.

TO ADJUST BELT

- 1. Remove top cover.
- 2. Loosen nut on adjustment pulley to allow for movement. (See Figure D)
- 3. Tighten nut on right side of "L" bracket. (See Figure D)
- 4. Re-tighten nut on adjustment pulley.

Note: Figure D on page 7

BELT REPLACEMENT

TO REPLACE BELT:

STEP 1	Remove PTO shaft.	
STEP 2	Remove top cover.	
STEP 3	Loosen nut on adjustment pulley to allow for movement. (See Figure D)	
STEP 4	Loosen nut on right side of "L" bracket. (See Figure D)	
STEP 5	Loosen belt by moving adjustment pulley in opposite direction you would to tighten belt.	
STEP 6	Remove belt from all pulleys and idlers, leaving it on the main pulley. (See Figure E)	
STEP 7	Loosen nuts (4) retaining the gearbox to the gearbox plate. Note: the top of the nuts should be flush with the end of the bolts.	
STEP 8	Remove bolts (4) holding the gearbox plate to the finishing mower deck.	
STEP 9	Remove the gearbox and gearbox plate assembly from the finishing mower. Note: the belt should be removed with the assembly.	
STEP 10	Turn gearbox and plate assembly over and allow to rest on the gear box. This will allow a space to develop between the main pulley and the gearbox plate flange. The belt can be removed through this space.	
STEP 11	Install new belt.	
STEP 12	Reassemble by reversing steps 1 through 10.	
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After mounting the Finishing Mower to the tractor's three point lifting system, set the mower to the desired cutting height. Adjust height by arranging the different spacers on the four wheels, see page 7, reference #1. This will result in relieving the weight of the mower from the tractor's lifting system. There are three height positions for the chain adjustment. Select the height that allows the mower to float freely over any terrain without any weight on the three (3) point lift system, see reference 25, page 10. The Finishing Mower is not designed to cut foreign objects such as steel rods, old tires or tubes, or tree limbs, etc. It is designed to cut grass only.

BELT REPLACEMENT

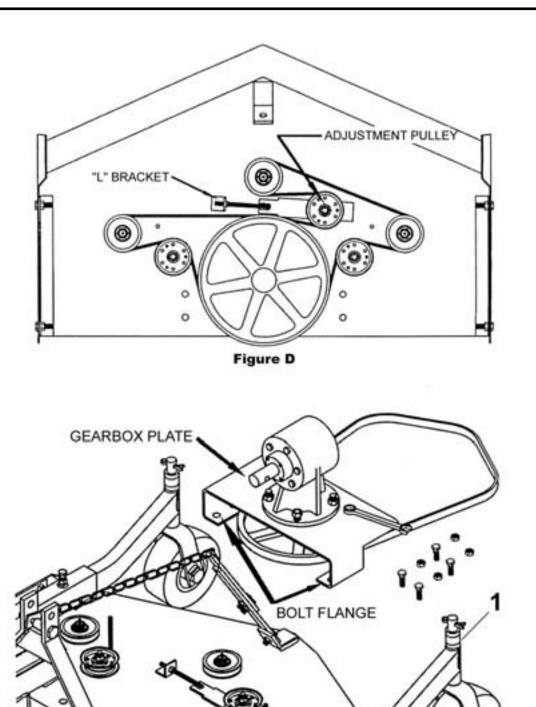
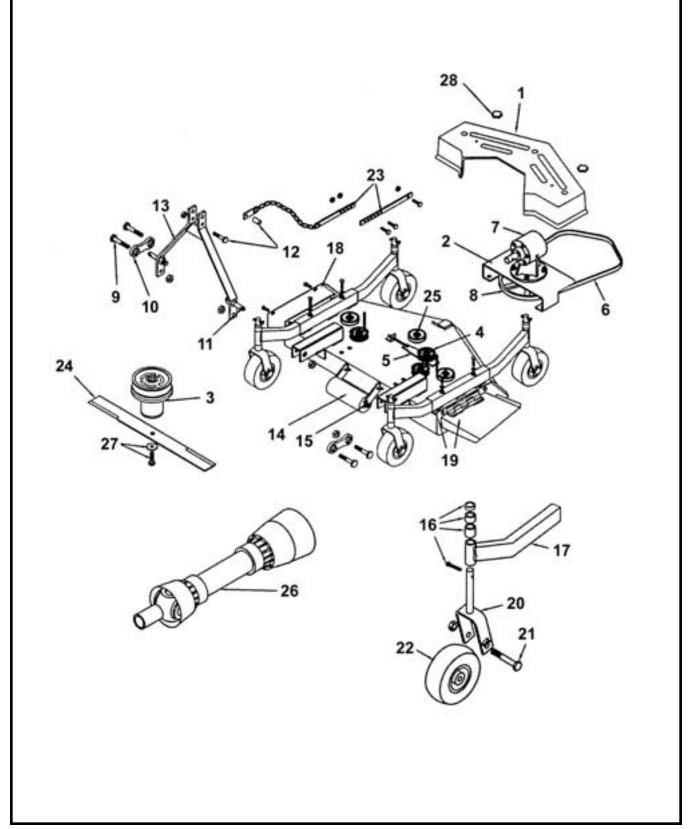


Figure E

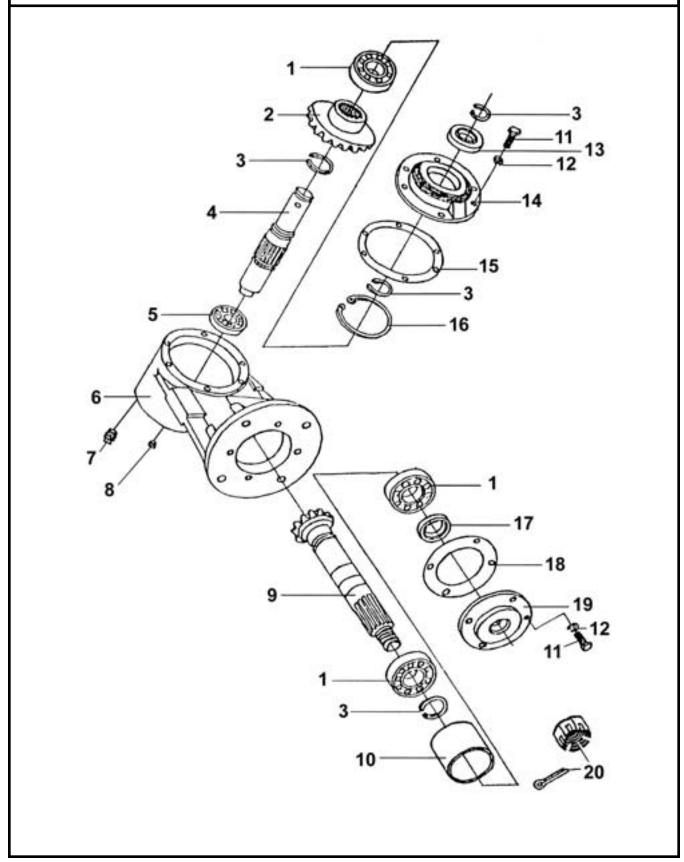
PARTS DIAGRAM



PARTS LIST

REF#	PART NO.	DESCRIPTION
1	124684	Top Cover
2	403024	Gear Box Plate
3	502300	Spindle Unit - Single
4	164090	Idler Pulley - Single
5	403682	Belt Adjustment Assembly
6	167108	V-Belt
7	184000	Gearbox
8	165114	Main Pulley - Single
9	502011	Bolt 3/4" x 4' w/Nut
10	502010	Swivel Link Set
11	500001	(Cat 1) Lift Pin (2/pk)
12	502012	Lift Arm Spacer w/Bolt & Nut
13	403662	Lift Arm Assembly
14	502110	Center Roller w/Axle
15	403670	Roller Axle
16	502120	Height Adjuster Set
17	403700	Tail Wheel Arm
18	403665	Side Panel-RH
19	403680	Chute
20	403023	Wheel Fork
21	502125	Axle Bolt 3/4" x 5" w/Nut
22	502015	Tire & Rim w/Axle & Nut
23	502690	Chain Assembly
24	502316	Blade Set w/Bolts
25	502310	Spindle Pulley - Single
26	147022	22" PTO Shaft
27	502310	LH Blade Bolt Set w/Washer
28	502287	Plastic Knob

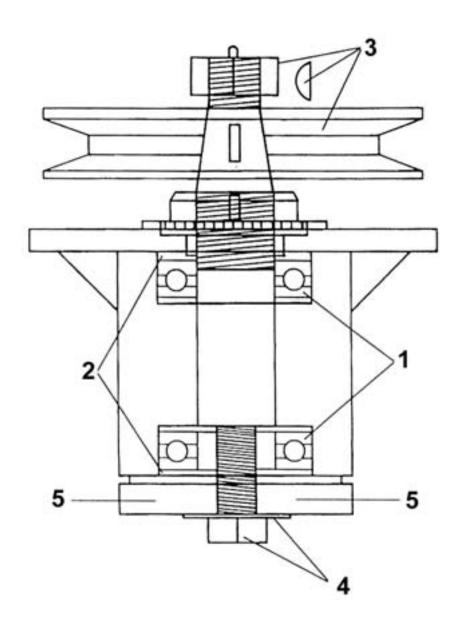
GEARBOX ASSEMBLY



GEARBOX ASSEMBLY

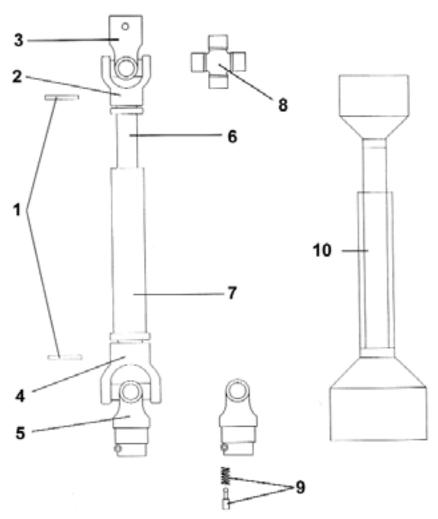
REF#	PART NO.	DESCRIPTION
1	155005	Bearing
2	185007	Input Gear
3	131031	Snap Ring
4	186010	Input Shaft
5	155010	Bearing
6	129010	Housing
7	131035	1/2" Pipe Plug
8	131040	1/8" Pipe Plug
9	185005	Output Shaft
10	131045	Spacer
11	-	3/8" x 1 3/4" Bolt
12	-	3/8" Lock Washer
13	156010	Input Seal
14	129015	Front Cover
15	124130	Gasket
16	131030	Snap Ring
17	156005	Output Seal
18	124131	Gasket
19	129005	Bottom Cover
20	501110	1" Castle Nut w/Washer & Cotter

BLADE SPINDLE ASSEMBLY



REF#	PART NO.	<u>DESCRIPTION</u>
1	155009	Ball Bearing
2	156026	Seal
3	502311	Spindle Pulley w/Nut & Key
4	502310	Blade Bolt Set (3) w/Washer
5	191302	Spindle Cap

PTO DRIVELINE 147022



REF#	PART NO.	DESCRIPTION
1	170120	Roll Pin
2	151045	Male Tube End Yoke
3	151040	Implement End Yoke
4	151050	Female Tube End Yoke
5	151035	Tractor End Yoke
6	151091	Inner Tube 14 Series
7	151090	Outer Tube 14 Series
8	170015	Cross Kit #4
9	170110	Quick Disconnect Pin
10	124310	Series 14 Safety Shield

LIMITED WARRANTY

GERRMORE INC.

GEARMORE, INC., warrants each new Gearmore product to be free from defects in material and workmanship for a period of twelve (12) months from date of purchase to the original purchaser. This warranty shall not apply to implements or parts that have been subject to misuse, negligence, accident, or that have been altered in any way.

Our obligation shall be limited to repairing or replacement of any part, provided that such part is returned within thirty (30) days from date of failure to Gearmore through the dealer from whom the purchase was made, transportation charges prepaid.

This warranty shall not be interpreted to render us liable for injury or damages of any kind or nature, direct, consequential or contingent, to person or property. This warranty does not extend to loss of crops, loss because of delay in harvesting or any other expenses, for any other reasons.

Gearmore in no way warranties engines, tires, or other trade accessories, since these items are warranted separately by these respective manufacturers.

Gearmore reserves the right to make improvements in design or changes in specification at any time, without incurring any obligations to owners or units previously sold.

GEARMORE, INC. 13477 Benson Ave. Chino, CA 91710

Always refer to and heed machine operating warning decals on machine.

The serial number of this product is stored in our computer database, thus submitting a warranty registration card is not required.