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Date of Purchase: _______________________________

Model Number:_________________________________

Serial Number __________________________________
WARNING

To prevent possible personal injury or death during assembly, installation, operation, adjustment, or removal of implement, **DO NOT** wear loose clothing, always wear gloves and safety glasses or face shield. **Keep other persons a minimum of twenty-five (25) feet away from any unit under power.**

READ THIS BEFORE OPERATING TILLER

TRAINING

Know your controls. Read this operator's manual and the manual provided with your tractor. Learn how to stop the tractor engine and tiller quickly, in case of an emergency. **DO NOT** allow children to operate machine, or adults to operate it without proper instructions.

PREPARATION

- Clear area of debris.
- Never permit any person other than the operator to ride on board the tractor at any time.
- **DO NOT** allow riders on tiller at any time.
- Operate only in daylight or good artificial light.
- Ensure all safety shielding is properly installed.
- *Always* wear relatively tight and belted clothing when operating tiller. Loose clothing should not be worn, as it could get caught in the moving parts or controls.
1. With Tiller on bottom pallet, install a-frame mast (Ref. A). **Note:** The mast mounts on the inside of the rails (Ref. B).

2. Install spacer (Ref. C) between the two a-frame masts using supplied bolt and nut.

3. Tighten all bolts and nuts.

4. Install PTO driveline to tiller gearbox. **Note:** The slip clutch assembly goes to the tiller gearbox.

5. Check oil in gearbox and chain case (140 SAE Lube).
Your Gearmore Rotary Tiller can be attached to tractors having a Category “I” or Category “II”, 3-point hitch.

1. Attach the lower link arms of the tractor to the lower attaching brackets of the tiller by inserting the pins. **NOTE:** Hitch brackets can be adjusted for offset.

2. Attach the top link of the 3-point hitch to the tiller. Next, tighten the lower link arm check chains to prevent any horizontal movement of the tiller, which could cause damage during operation. Adjust the unit so the drive shaft is parallel to the ground in the working position. Adjust the tractor lift linkage or the hydraulic lever lifting stops to prevent the tiller being lifted more than 6” from the ground. This will avoid any damage to the universal joints.

3. Attach the drive shaft, first to the tiller input shaft and then to the PTO of the tractor. Make sure the yokes are locked on to the tractor and tiller shaft.

**SLIP CLUTCH DRIVE SHAFT:**
This tiller has a drive shaft with a slip clutch, which has been calibrated for a certain overload. To adjust the clutch, tighten or loosen bolts equally. Don’t over-tighten or clutch will lock and not slip under stress, which could cause damage during operation. The clutch assembly should get warm under normal operation. If the clutch gets extremely hot, this is a sign of slippage. If the machine sits for an extended period of time with no usage, the bolts should be loosened and the PTO engaged. This will allow the clutch discs to become free again. After a few seconds, shut-off the tractor and retighten bolts equally. Recheck clutch assembly for temperature after using in tilling application. If it is too hot, the bolts need tightening. If it is too cool, loosen bolts.

**SET SIDE SKIDS FOR WORKING DEPTH:**
To regulate working depth, loosen the nuts of the skids and adjust them to the desired position. Set skids equally on both sides.

**TRANSMISSION CHAIN TENSION:**
Your Gearmore Rotary Tiller has an automatic chain tensioner, so no adjustment is necessary.

**TINES:**
When the complete set of tines has to be replaced, it is advisable to replace one at a time to insure that the new tines are mounted in the same position as the old ones. It is important to fit the bolts with the heads to the side of the tine and the nuts and washers to the side of the flange. It is also recommended to replace all washers with new ones at the time of tine replacement.
Carefully follow all instructions as stated in this operator’s manual, this includes safety, assembly, operation, lubrication, and maintenance of the tiller.

1. Check lubrication - See Lubrication Section.

2. Check bolts and nuts for tightness (Ref. A).

3. Check tiller daily for loose, worn or broken tines (Ref. B).

4. Replace, immediately, any damaged or worn parts.

LUBRICATION

GEARBOX & CHAIN CASE: Fill gearbox and chain case to level plug (Ref. E) with gear oil. Use SAE #140 multi-gear lubricant or equivalent. Gear oil should be checked weekly and changed every 400 hours of use.

ROTOR SHAFT: Lubricate rotor spindle (Ref. C) daily. NOTE: Grease zerk located on the side of the tiller.

DRIVE SHAFT: Grease both cross and shield bearings (Ref. D). After that grease every 8 hours of use. It is also necessary, from time to time, to untelescope the drive shaft to clean and re-grease tubing.

NOTE: Driveshafts with a slip clutch do not have a grease zerk on the clutch assembly.

WARNING - DO NOT OPERATE TILLER UNLESS ALL SHIELDS ARE IN PLACE
1. Make sure the tiller is sitting on the ground, the tractor engine off, and parking brake set. The tiller should be level or tilted slightly forward to minimize oil dripping out the back.

2. Remove cover from the back side of gearbox.

3. Verify the rotor R.P.M. you want to achieve and set the gear ratio with the corresponding gears on the chart.

   **EXAMPLE:** You want to achieve 190 R.P.M., then put the 21 tooth gear on the *pinion* side and 17 tooth gear on the *drive* side (see above picture). Run tractor P.T.O. at the 540 R.P.M. setting.

4. Install the spare gears to inside of cover and replace cover on gearbox.

5. Torque bolts on cover to 2 ft/lbs (24 inch pounds) and check the oil level of gearbox.
SAFETY INFORMATION

OPERATIONAL SAFETY:

- Guards and safety shields are for your protection. **DO NOT** operate equipment unless they are in place.

- Always operate tractor PTO (power take-off) at recommended RPM (revolutions per minute).

- Disengage tractor PTO and shift into neutral before attempting to start engine.

- Read and observe all safety decals on the tractor and tiller. *(See pages 7 - 9)*

- **NEVER** allow anyone within 25' of machine while it is in operation.

- Do not stop or start suddenly when going uphill or downhill. Avoid operation on steep slopes.

- Be alert for holes in terrain and other hidden hazards. Always drive slowly over rough ground.

- Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Be careful when changing direction on slopes.

- Stop tiller and tractor immediately upon striking an obstruction. Turn off engine, inspect tiller, and repair any damage before resuming operation.

- Disengage power to tiller and stop engine before dismounting from tractor, before making any repairs or adjustments, transporting, or unclogging tiller.

- Take all possible precautions when leaving tractor unattended: Disengage PTO, lower tiller, shift into neutral, set parking brake, stop engine, and remove key from ignition.

- Front tractor weights or front tire ballast should be used to enhance front end stability on small tractors.

- Check to make sure PTO is properly connected and that the driveline is correct to prevent bottoming out or pulling apart during the full lift range of the hitch.

- Never work under tiller without safety blocks.

- This implement is designed for a one-man operation. It is the responsibility of the tractor operator to see that no one is in the proximity of the implement when it is started. **DO NOT** operate the implement with another person within 25' of the implement or PTO drive.
1. Keep all safety decals and signs clean and legible at all times.

2. Replace safety decals and signs that are missing or have become illegible. (Contact Gearmore at 909 548-4848 for free replacement safety decals.)
DANGER: Hands and feet could be severely injured. Keep away from rotating parts.

DANGER: Do not stay behind the machine as it could roll over you.

DANGER: Never get near to the PTO shaft while it is in operation. ACCIDENTAL CONTACT COULD CAUSE DEATH.

Stop both the machine and the tractor before performing any service.
Please carefully read and understand the operating instructions before using the machine.
## TROUBLESHOOTING CHART

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>CAUSE</th>
<th>SOLUTION</th>
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<tbody>
<tr>
<td>Excessive vibration</td>
<td>Drive shaft damaged</td>
<td>Replace worn drive shaft</td>
</tr>
<tr>
<td></td>
<td>Tines broken off</td>
<td>Replace damaged tines</td>
</tr>
<tr>
<td></td>
<td>Bent rotor shaft</td>
<td>Replace rotor shaft</td>
</tr>
<tr>
<td>Rotor shaft does not turn</td>
<td>PTO Clutch slipping</td>
<td>Check slip clutch adjustment</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Replace clutch discs</td>
</tr>
<tr>
<td>Tilling deeper on one side</td>
<td>Tractor lower lift arm out</td>
<td>Adjust lift arm</td>
</tr>
<tr>
<td></td>
<td>of adjustment</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tiller depth skid not</td>
<td>Adjust skids to level depth</td>
</tr>
<tr>
<td></td>
<td>properly adjusted</td>
<td></td>
</tr>
<tr>
<td>Tiller bouncing</td>
<td>Trying to go too deep on</td>
<td>Raise tiller so tilling 3” deep</td>
</tr>
<tr>
<td></td>
<td>first pass</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tractor in too high a gear</td>
<td>Tiller runs smoother in first or second gear</td>
</tr>
<tr>
<td>Leaving tire tracks</td>
<td>Tires set out too wide</td>
<td>Set in tractor tires</td>
</tr>
<tr>
<td></td>
<td>Tractor too large</td>
<td>Offset tiller to cover right tire tracks</td>
</tr>
<tr>
<td>PTO will not untelescope</td>
<td>Improper lubrication</td>
<td>Separate and grease both halves</td>
</tr>
<tr>
<td></td>
<td>PTO twisted</td>
<td>Replace twisted parts</td>
</tr>
<tr>
<td></td>
<td>Shields damaged</td>
<td>Replace shields</td>
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</table>
1. Mount clutch assembly in vise.
2. Remove all bolts and nuts (Ref. A).
3. Disassemble all components.
4. Check the condition of all parts, friction plates especially.
5. Replace clutch linings (Ref. B).
6. Reassemble the components, install spring with their corresponding bolts and nuts.
7. Tighten nuts following an alternating cross pattern until reaching a height of 27 mm (1.063”).
8. Check that the height is the same for all springs.
9. Reinstall driveline, making sure all shields are in place.

**REPLACING CLUTCH LININGS**

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**PROTECTION GUARDS**
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## TILLER ASSEMBLY

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# PTO DRIVELINE ASSY 80.A.10.608

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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.