



# **BACKHOE COMPACTOR**

**Operation, Service  
& Parts Manual For  
Model BC2-12  
S/N 1200 & Up**

**January 2003**

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Date of Purchase: \_\_\_\_\_

Model Number: \_\_\_\_\_

Serial Number \_\_\_\_\_

# INTRODUCTION

We welcome you as an owner of the Gearmore Backhoe Compactor. With proper care, your backhoe compactor will give you many years of trouble free service.

## TO OPERATE COMPACTORS

1. Connect the compactor to the backhoe with the two mounting pins. The top compactor bracket is designed for most popular backhoes. If the bracket does not fit, contact your dealer.
2. To mount the backhoe compactor, the backhoe dipperstick should mount to the highest set of holes on the mounting bracket. The bucket cylinder brackets should go in the other set of holes.
3. Always remember correct moisture content is the key to maximum compaction.
4. Compact the soil in lifts of 2 to 4 feet, depending on soil conditions. You can compact parallel to the ground or bottom to top of trench at an angle.

## SPECIAL NOTE

**Always** use the pins that come with the backhoe and **always** have the locking bolts in place to prevent the pins from turning. Failure to do this could cause excessive wear to the bracket and pins.

## LUBRICATION

The compactor comes pre-lubricated. Grease daily with Chevron Ultra-Duty Grease Grade 2 or equal. A couple of "pumps" of grease should be sufficient. Rotate wheel while greasing and be careful that you do no over-grease.

# IMPORTANT SAFETY INFORMATION

- ❑ **Always** stand clear of machine when it is in operation.
- ❑ When installing or removing compactor, **always** use extreme caution.
- ❑ **Always** secure compactor to prevent rotation when attaching or removing from backhoe.
- ❑ **Never** operate compactor with only one mounting pin in place.
- ❑ **Never** operate compactor without all bolts in place.

# OPERATION

## COMPACTING WITH BACKHOE COMPACTORS

When you can not get 90 + % relative compaction, check the following:

1. *Moisture Content* - It is very important that the soil is not too dry or wet. If you squeeze soil in your hand and it remains in a ball, the moisture content is usually sufficient.
2. *Not taking enough passes* - usually 8 to 12 passes are required.
3. *Not enough down force* - it is usually necessary to have full down force pressure for maximum compaction.
4. *Trying to work too large of lifts* - Loose lifts over 2 feet of clay or 3 feet of sand can be troublesome.

You will find that it takes 2 to 3 days to really get the feel of using a wheel compactor to achieve maximum compaction with the least amount of passes. Always remember, it will take you at least as long to compact a trench as it does to dig it.

# PARTS

<u>MODEL NO.</u>	<u>QTY.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
BC2-12	2	BC006	Bearing
BC2-12	1	BC001	Axle Shaft

## REMOVAL

To replace the bearings on the compactor:

1. Cut the axle shaft to separate the wheels.
2. Remove the wheels from the frame assembly.
3. Torch the shaft off of both wheels.
4. Remove and replace the bearings in the hangers.

## ASSEMBLY

1. Weld end of the new shaft to one of the wheels.
2. Slide wheel with the shaft through the bearings.
3. Put second wheel on the other end of the shaft.
4. Set equal spacing between the two wheels.
5. Align the wheel pods.
6. Tack weld shaft to the loose wheel.
7. Spin wheels to verify trueness.
8. Finish welding shaft to both wheels.

# LIMITED WARRANTY



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 warrants 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.

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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.