

20" MODEL W-W GRINDER/SHREDDER

FOR GRAVELY TRACTORS

UNPACKING, ASSEMBLING, AND OPERATING INSTRUCTIONS

SHIPPING CONTENTS

Unpack and find all the following items in your shipment

1. Grinder Unit Complete with following installed
 - a. BC 3,8 Sheave installed on cylinder
 - b. Screen installed with two rods
 - c. Rod Retainer Plate
 - d. Belt Guard installed with straps
 - e. Wing nuts
 - f. Hopper Slide
 - g. Hopper Back attached in hopper
2. Grinder mounting frame and (1) Swivel wheel, with PTO mounting frame attached to include frame pin with snap pin.
3. Box Containing the following:
 - a. PTO Sheave BC 9.0, plus allen wrench
 - b. (1) [REDACTED]
 - c. (2) Grinder/Frame Pads
 - d. Packet containing factory guarantee and operating instructions.
 - e. (4) rods and (6) rollers
 - f. (2) Frame legs
 - g. [REDACTED]
 - h. Following items in bags:
 1. (2) Leg support fasteners
 2. (2) 1/2" grinder mounting [REDACTED] [REDACTED]
 - and nuts.
 3. (2) [REDACTED] Bolts
 4. (2) 1/2" Frame Wing Nuts and Washers

If there is either any damage or missing parts noted, notify both the shipping agent and the W-W Grinder Corporation.

INSTALLATION OF GRINDER UNIT ONTO THE TRACTOR

Take out the four bolts on the front drive of the tractor, and take out the stock Gravely drive. Replace with a new gasket and your new Gravely PTO shaft (#15605E1 at any Gravely dealer). After splining the PTO into the tractor, place the PTO pad over the PTO, which is in your shipment. Place the PTO/Tractor mounting frame over the PTO and PTO pad with the short leg (pipe welded on) of the angle up. Line up the four PTO holes and bolt together using the four bolts sent in your shipment (1/2" x 1-1/2"). Mount the BC 9.0 Sheave onto the PTO Shaft using the key provided. Do not tighten the set screws yet. Place the two frame legs in the pipes on the back sides of the grinder frame. (the plates of these legs down). Use leg support fasteners from box to fix in place. Set the grinder frame up using the nose wheel and tractor and PTO with the Grinder frame.

Push the frame pin through the pipe on the tractor frame and the grinder frame. Place the cotter pin in the frame pin. Bolt the frame wing nuts on the bolts sticking through the PTO frame from the grinder frame. These steps will be done quicker and will become easier on your part as time passes and these steps are repeated. Bolt the grinder to the frame, placing the grinder pads between the grinder frame and the grinder; use the (4) 3/8" x 1-1/4" bolts, lock washers, flat washers, nuts provided. Do not tighten these bolts. Align the grinder cylinder sheave with the PTO drive sheave, by moving either the PTO sheave on the shaft, or the grinder in the frame slots. Tighten the set screws in the PTO sheave. Tighten the (4) grinder mounting bolts. After the grinder is properly mounted place the 5L440 V-belt over the sheave. This is easily done by putting the belt in the groove of the PTO sheave and starting it into the groove of the cylinder sheave. Turn the PTO sheave, holding the belt in the cylinder sheave. If the belt is too tight, lower the cylinder bearing by loosening the bearing bolts and tapping them down. If the belt is too loose, either raise the bearings or place more shims between the grinder and grinder frame. Bolt the hopper back on the hopper using the 1/4" x 1/2" stove bolts, lock washers, and nuts provided. The hopper slide and belt guard are shipped in their proper place.

MATERIAL PREPARATION

You have a copy of our booklet, "Guide to Easy Compost." Follow the instructions in this booklet or any other good information covering the preparation of material for composting. Soggy, wet or overly damp material should not be through your screen. Any material to be shredded must be friable. You cannot shred material that will ball up into a mass. This machine will handle up to 1-1/2" diameter shrubs and tree trimmings. The 3/4" perforated screen furnished with your machine is ideal for the material. Forking the material back over the high speed cylinder will give even finer finished material for quicker composting. Many users prefer to use the roller rods and fork the strips which will be produced through the gaps in the roller rods back over the high speed cylinder. The contention here is that greater capacity is obtained with less effort.

BEFORE STARTING

1. Check to see that the machine is empty.
2. The hopper slide should be about half open for proper feed vacuum and fly-back.
3. Although your tractor allows you a wide variety of speeds, run the tractor as near to full throttle as you can, use the high speed gear of your PTO drive only. The grinder cylinder must be turned at approximately 2500 RPM.
4. The bearings require no oil or grease, as they are sealed ball bearing type.

OPERATING INSTRUCTIONS

Start up the machine after it is properly set up. When feeding, stand up to the side of the hopper and slowly feed the machine until you are familiar with its operation. Keep hands away from the cylinder when feeding by using a stick, fork, or shovel. Sod or heavy material should be fed slowly to prevent slugging. All friable material can be fed more rapidly.

CHANGING PERFORATED SCREENS

To replace or change to different screen, merely remove the rod retainer plate and take out the rods. The screen will then easily slip down and out. Slip new screen into screen slots on the front and back main frames of the grinder. If it is necessary, band the contour of the screen to make it fit. Place the two rods (more than two will raise the screen into the hammers) in the same holes they were in. Secure the rod retainer plate to the main frame casting with the 5/16" wing nut.

INSTALLATION OF SHREDDING RODS AND ROLLERS AND USE

All shredding operations must be done WITHOUT the screen in place. Take out the screen as described above. Put all 6 rods and rollers in place and fasten on the rod retainer plate. These rollers are used when the organic material is too gummy, wet or heavy to grind with the screen. A great deal of your grinding will be done with the shredder rollers since this permits greater capacity and permits you to handle higher moisture material. In some cases (if material is too wet, or there is an excessive amount of rocks), remove more of the rollers and rods (either top or bottom, whichever suits the purpose.)

SUMMARY

1. Stand to side of hopper when feeding, keeping all children and on-lookers away.
2. While grinding, back away from the pile. This makes a neat row for easier distribution. Do not let the pile build up to the bottom of the screen.
3. Always clean the machine after use.
4. Make sure the cylinder is turning at 2500 RPM.
5. Watch for belt slippage. Make sure all slack is taken out so belt will move no more than 1/2" to the center. This is done by loosening the grinder base mounting bolts and shimming up the grinder from the grinder frame.
6. Do not operate machine with all rods and screen in place.
7. The machine cylinder must be empty when starting.

If you encounter any difficulties, write or call:

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AREA CODE 316 838-4229