GRAVELY

To continue its program of quality and design improvement, the manufacturer reserves the right to change specifications, design or prices without notice and without incurring obligation.

ASSEMBLY AND
OPERATING INSTRUCTIONS
19763E1 48" SnowDozer
Form No: 19938P1
Effective Date: 11-1-72

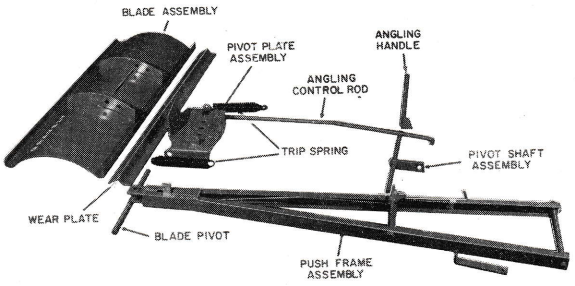

Figure 1

1. Unpack Snowdozer. Refer to figure 1 for parts refered to in text.

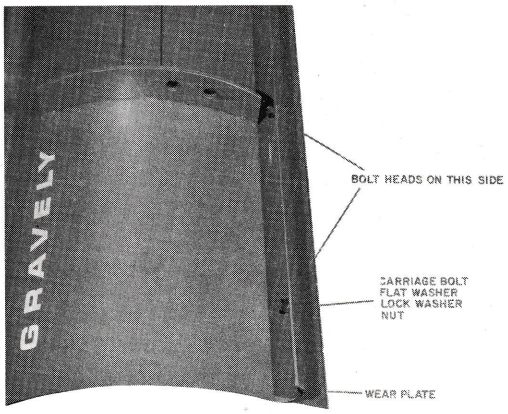

Figure 2

2. Attach the wear plate to the blade assembly using carriage bolts, flat washers, lockwashers and nuts provided. Install bolts through the wear plate then the blade. The flat washers fit over the slots in the blade. The wear plate also serves as a skid with the back side, (curved area), riding on the surface. The height of the edge above the surface is determined by the position of the wear plate bolts in the slots of the blade assembly.

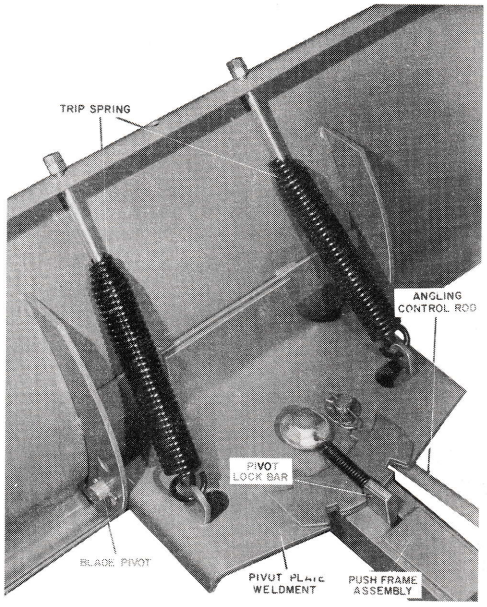

Figure 3

3. Position the pivot plate assembly at the bottom holes of the blade assembly. Insert the pivot rod through the blade assembly and the pivot plate assembly. Secure each end of the pivot rod with a cotter pin.

4. Insert the 3/8 x 4 1/2 hex bolts by dropping the bolts (threaded end first) into the springs so the threads come out the spring and opposite the hook end. Insert the hook end through the tabs on the pivot plate assembly. Insert the bolts ends protruding from the springs through the holes in the top edge of the blade assembly. Install 2 - 3/8 jam nuts on each bolt. Tighten the nuts until all stock is taken up and each spring is under slight tension. Be sure to jam nuts together.

5. Insert the push frame assembly into the pivot plate assembly, aligning the pivot of the push

frame assembly with the center hole of the pivot plate assembly. Place the special washer and spacer on the 3/4 x 4 1/2 bolts. Insert the bolt down through the pivot plate assembly and the push frame assembly. Secure with 2 jam nuts. Do not overtighten, the pivot plate assembly must be free to turn on the push frame pivot.

Attach the spring from the pivot lock bar to the holes of the special washer.

6. Insert the pivot shaft assembly (end with small hole) through the push frame assembly. Secure with 13/16 flatwasher and cotter pin.

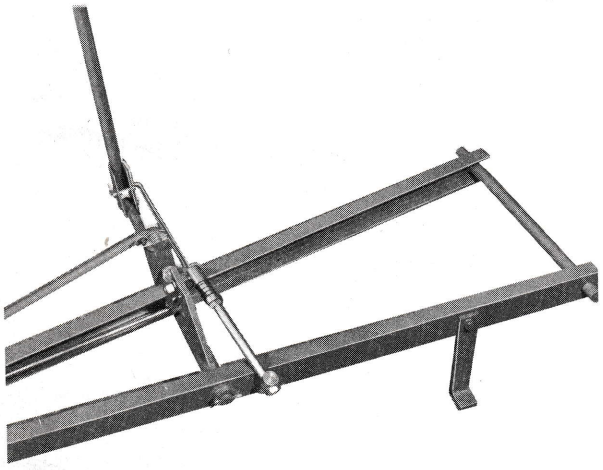

Figure 4

7. Insert one end of the angling control rod up through the pivot plate assembly (bend of rod should be down). Secure with flatwasher and hairpin cotter. Connect the other end of the angling control rod to the pivot shaft assembly. Secure with flatwasher and hairpin cotter.

8. Attach the handle assembly to the pivot shaft assembly using the drilled pin and hairpin cotter. Insert the end of latch control rod through the third hole from the top and fasten with a hairpin cotter.

9. Attach the kickstand to the pushframe assembly using 3/8 x 1 hexhead bolt and locknut. Do not overtighten. The kickstand must be free to pivot.

10. Drive the roll pin in the mower lift pivot until it is flush with one side.

11. Place the mower lift pivot assembly on the 1/2 x 7 hex head bolt so that the protruding end of the roll pin is pointed away from the bolt head. Thread a 1/2 hex jam nut on the 1/2 x 7 hex head bolt. Do not jam the nut against ball joint assembly. Final adjustment will be necessary after installation on tractor.

12. Attach the ball joint assembly mower lift pivot to the pushframe assembly. The ball joint should point away from the blade assembly. Secure with lockwasher and hex nut.

Mounting:

424, 430, 432, 450
Requires 15876E1 Rear Axle Support

810, 812, 814
Requires 19768E1 Axle Latch Kit

The 816 tractor does not require any attaching kits.

1. Mount any necessary kits on the tractor. See instructions packed with that kit.

2. Raise both latches on Axle and secure with hairpin cotters.

3. Remove Hairpin Cotter and washer securing the Angling Control in the Pivot Shaft Assembly. Remove Control rod from bracket.

4. Remove Hairpin Cotter from latch control rod and slide rod out of handle. Lay handle forward, keeping it close to the push frame assembly.

5. Drop kickstand to support end of Push Frame Assembly.

6. Move tractor forward straddling Push Frame Assembly until the protruding ends of the cross rod are positioned in the notches in Axle Control Frame Assembly.

7. Remove Hairpin Cotters. Lower Latches over Cross Rod and secure with Hairpin Cotters.

8. Position Lift Pivot assembly in lift arm on tractor. There are five tear-drop shaped holes in the Lift Arm. Position the Lift Pivot Assembly in the second hole from the top. Attach to ball stud on frame.

9. Pull handle out to side and up to secure to Angling Control Rod.

10. Insert Angling Control Rod in pivot shaft assembly. Secure with washer and hairpin cotter.

11. Insert latch control rod in handle assembly and secure with hairpin cotter.

12. Swing kickstand up till it rests on top of the frame assembly.

Angling of Blade

The blade may be set to the left or right or straight ahead without leaving the operator's seat.

Raise the blade and push out on the handle assembly to release the latch, and then forward to angle the blade to the left or back to angle the blade to the right.

Snow Removal

The blade is designed to roll the snow, therefore, it works best to angle the blade to the right or left and operate at highest ground speed possible.

Wear Strip

The mounting holes of the wear plate are slotted, with the back (curved part) of the plate acting as a skid. The height of the cutting edge above the ground is adjustable.

The blade may be used to spread dirt or gravel or back-fill.

The attachment position lock or hydraulic lift may be used to hold the blade a constant distance above the ground for leveling. The blade will doze material from high spots and deposit in low areas.

Maintenance

If during operation, the blade should continue to trip under a seemingly normal load, increase the tension on the trip springs. To increase the tension, tighten the hex nuts (stretching the springs). Be sure to join the nuts together to prevent loosening.

Periodically oil all pivot points.

Replace the wear plate when it is worn excessively.

Removal

1. Lower SnowDozer to floor, with attachment lift.
2. Swing kickstand down.
3. Remove hairpin cotter from latch control rod attachment assembly. Slide latch control rod out of handle assembly.
4. Remove hairpin cotter and flatwasher from angling control rod at the pivot shaft assembly. Remove the angling control rod from the pivot shaft assembly.
5. Lay handle down toward the rear of the blade.
6. Remove lift assembly from the ball joints. Remove lift assembly from lift arm of tractor. Reattach to SnowDozer frame.
7. Remove hairpin cotters from axle control frame assembly. Raise latches and secure with hairpin cotters in the raised position.
8. Back tractor from over the blade.

The SnowDozer can be tipped forward on the blade to store in a minimum of space.