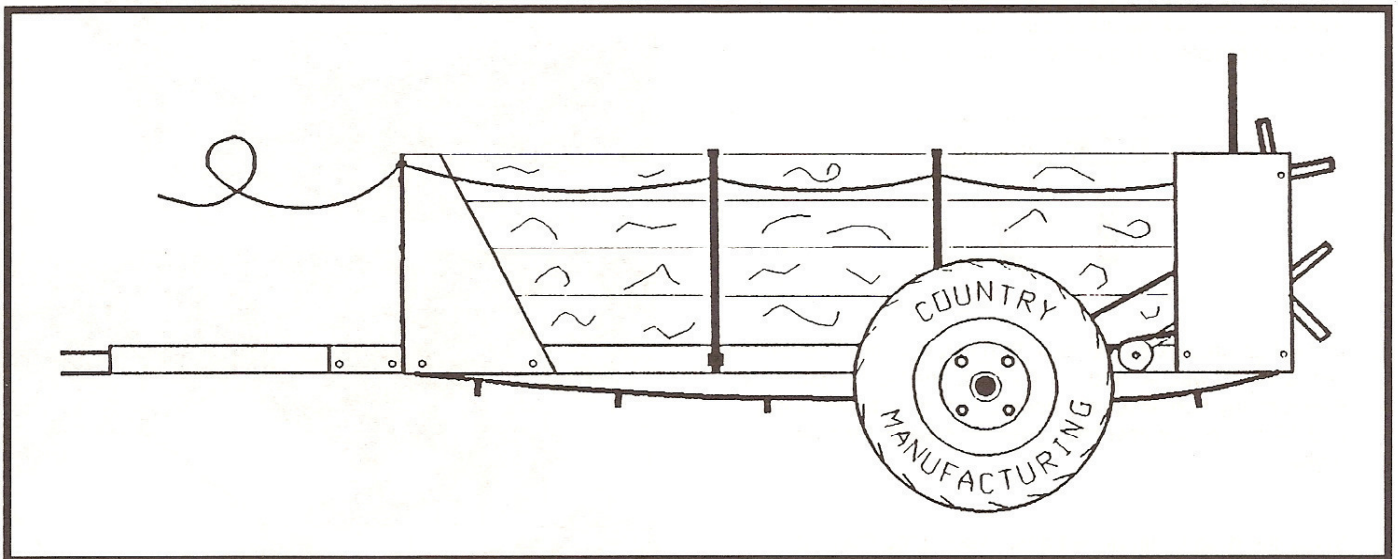


Model 1200 Manure Spreader

Owner Manual



Manufactured by
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Phone (740) 694-9926

Assembly Instructions

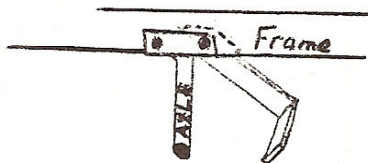
Tools Required:

- a. 9/16 inch wrench
- b. 7/16 inch wrench
- c. 3/4" open end wrench
- d. hammer
- e. pliers
- f. grease gun
- g. wood block

Bolt Pack:

- 16 ea. 3/8 x 1-1/4 inch hex bolts
- 12 ea. 3/8 x 1 inch hex bolts
- 28 ea. 3/8 inch flat washers
- 28 ea. 3/8 inch lock washers
- 24 ea. 3/8 inch hex nuts
- 4 ea. 5/16 x 1 inch hex bolts
- 4 ea. 5/16 inch hex nuts
- 4 ea. 5/16 inch lock nuts
- 8 ea. 1/2 inch stud nuts
- 2 ea. 1 inch flat washers
- 2 ea. 1/4 x 1-1/2 cotter pins

1. Determine the front from the rear of main chassis. The front is the end which has the angle iron side rails extending beyond the boards and has four holes close together. Set the entire main chassis upon supports, such as 5 gallon buckets, until wheels are installed.
2. Mount axle assembly (figure 1) using the second set of holes from the rear of unit. Insert 3/8 x 1-1/4 bolts, nuts, washers, and lock washers, then tighten. Mount belt stabilizer bracket using (drivers side) rear axle bolt.



3. Install hub onto axle (figures 1, 2) pulley end first. Secure with a 1 inch washer and a 1/4 x 1-1/2 inch cotter pin. The 6 inch pulley hub assembly goes on driver side (left side) and 10 inch pulley assembly goes on passenger side (right).
4. Install the drag chain drive transmission (see figure 2). Slide square drive stub on lower rear corner of transmission over drag chain drive shaft, align two slotted holes on bottom of transmission with the rear two holes on the driver side (left side if standing at the rear of spreader). Insert 3/8 x 1-1/4 bolts, nuts, washers, and lock washers.
5. Install the beater drive transmission (see figure 3). Mount this transmission on the opposite side of the spreader (MAKE SURE THE TWO TRANSMISSIONS ARE PARALLEL WITH EACH OTHER ACROSS REAR OF SPREADER).
6. Install both 5/8 x 81 inch V-belts onto pulleys (see figures 2, 3). Insure bottom of belt is on top of the clutching idler pulley.
7. Slide the wheels onto the hub bolts with the valve stem facing outward. Install lug nuts and tighten securely.

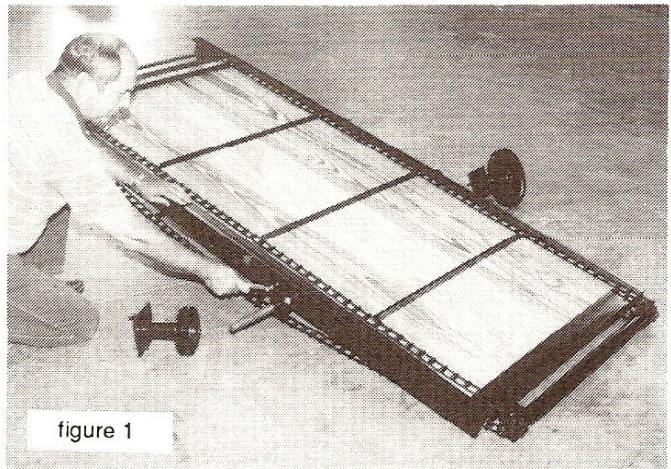


figure 1

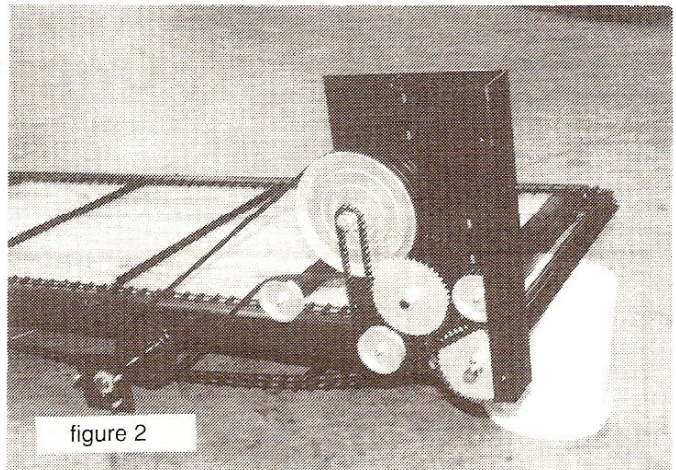


figure 2

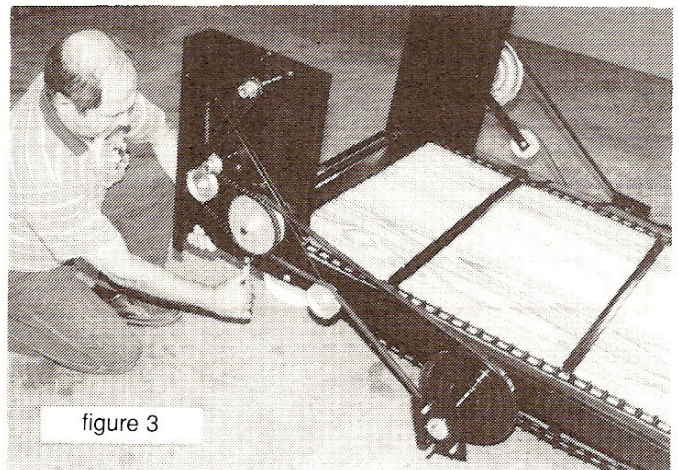


figure 3

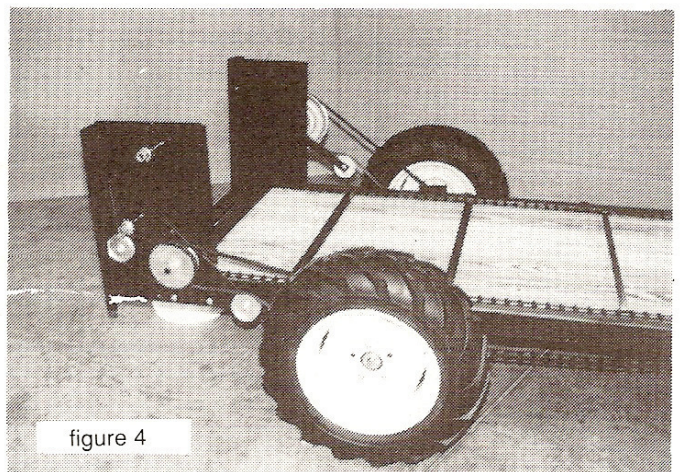


figure 4

8. Install tongue on front of unit by aligning rear holes on tongue unit with the front holes in main frame. Insert $3/8 \times 1-1/4$ inch bolts, nuts, washers, and lock washers through all four holes and tighten.
9. Assemble the front panel by first attaching the left and right triangular steel panels, as shown in figure 5. Make sure the angled side of the panels are facing towards the rear of the spreader. Align all four holes and insert, but do not tighten, $3/8 \times 1-1/4$ inch bolts, nuts, washers, and lock washers. The large front steel panel mounts to the inside of the lips. Align all six holes making sure the top and bottom curled lips on the front panel are facing forward. Align keyhole knot holders in top holes on both sides. Insert $3/8 \times 1$ inch bolts, nuts, washers, and lock washers, then tighten. Tighten the four bolts on the side triangular panels.
10. Mount beater bar assemblies using flanged wood bearings (figure 6). The top beater is the one with the spreader tines parallel on top and bottom of the bar. The bottom beater has the alternate spreader tines. To install, slide the square end of the beater bar assembly over the square drive stub projecting from the beater drive transmission. Slide flanged wood bearings over opposite end of beater bar. Align holes on bearing flange with holes on drag chain transmission. Insert $5/16 \times 1$ inch hex bolts, nuts, and lock washers, then tighten.
11. Insert rear stabilizer bar into square tube on each transmission. Slight hammer tapping might be necessary using a wood block between hammer and bar. Insure the bar is not cocked to preclude binding of beaters during operation.
12. Insert side boards into slots provided by front panels and slots in transmissions. Insert angle iron side stakes to provide outward support of the side boards (see figure 7).
13. Insert ropes through two side stake loops and keyhole knot holder. At the front, tie a knot into each rope so that the clutch pulley disengages when the knot is secured in front of the keyhole knot holder.
14. Install transmission shields (figure 7) using $3/8 \times 1$ inch hex bolts, lock washers, and flat washers on rear two holes. Use $3/8 \times 1$ bolt, nut, washer, and lock washer at lower front hole to secure bracket to shield, and use the front transmission mounting bolt to secure the other end of bracket.
15. Grease the beater bars at the fittings located on the right side (figure 8). Grease drag chain drive shaft at the fitting located at bottom rear of the drag chain drive transmission.

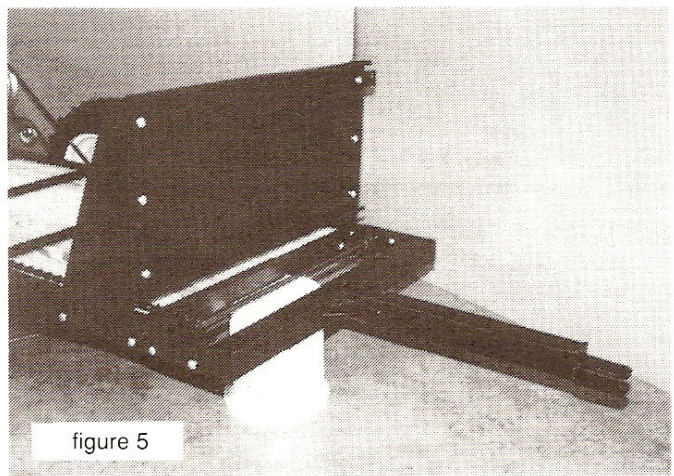


figure 5

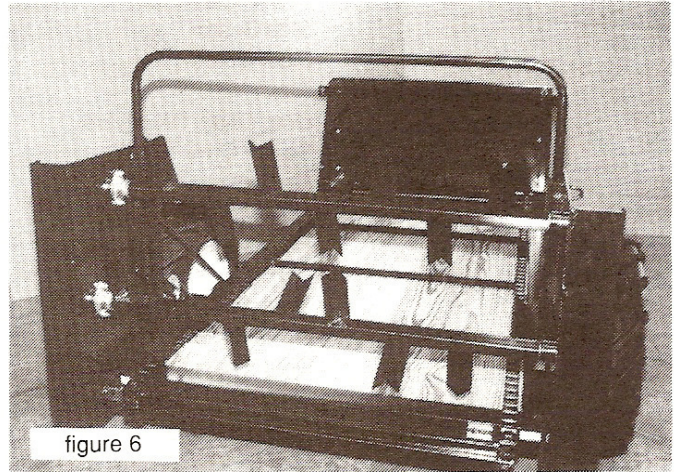


figure 6

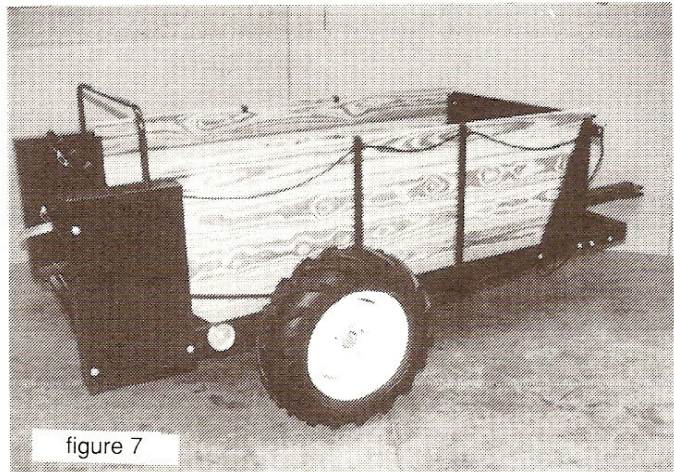


figure 7

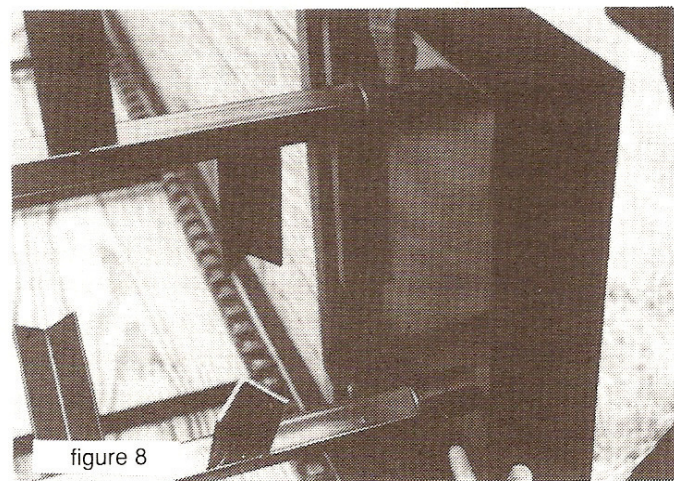


figure 8

Parts List

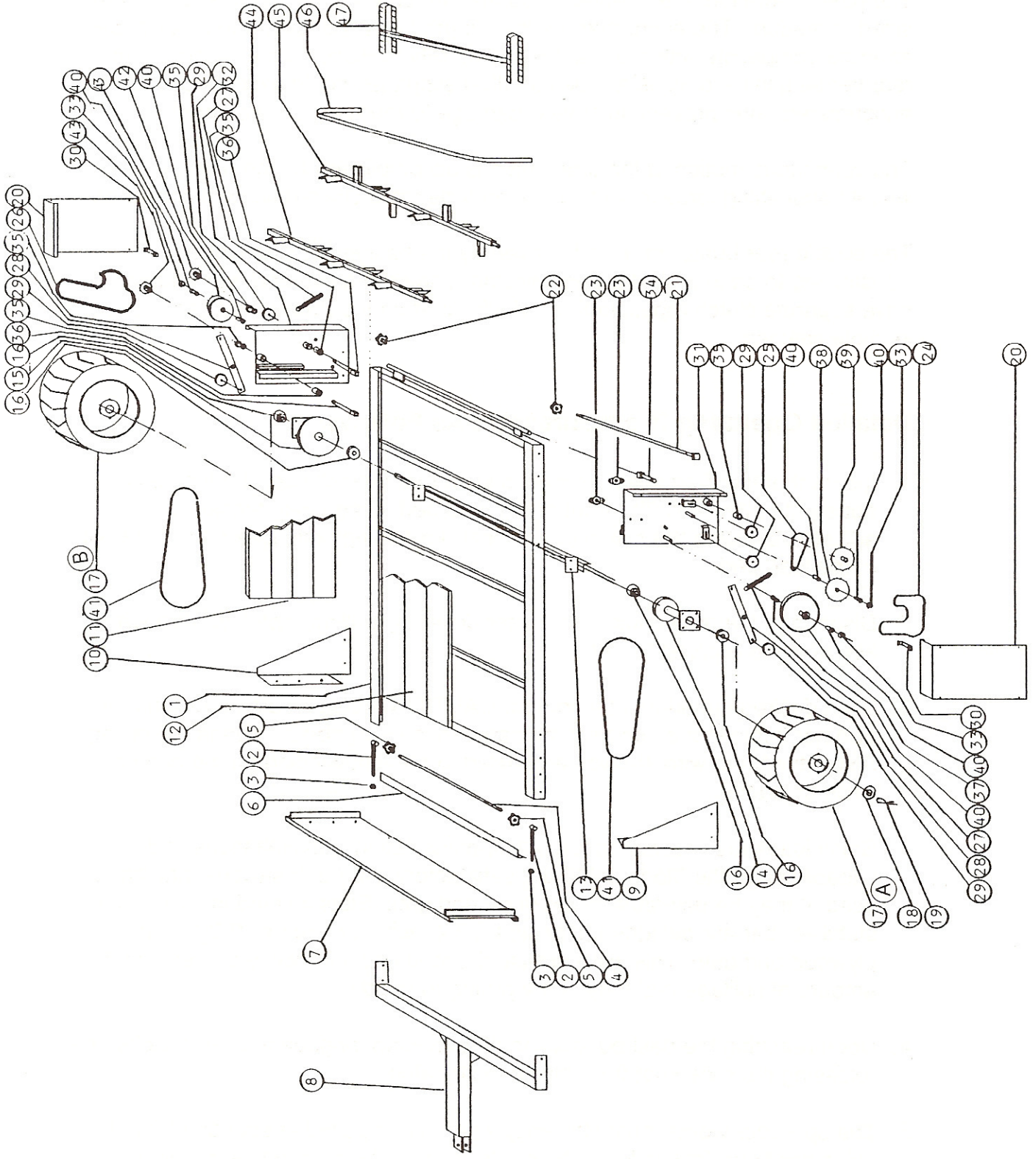
Item No.	Description	Part No.	Qty/Unit
1.	Main Chassis	1201	1
2.	Drag Chain Adjuster	1202	2
3.	1/2" Hex Nut	_____	2
4.	Idler Shaft	1203	1
5.	Idler Sprocket	1204	2
6.	Floor Board Hold Bracket	1205	1
7.	Front Panel	1206	1
8.	Tongue Assembly	1207	1
9.	Left Side Panel	1208	1
10.	Right Side Panel	1209	1
11.	Side Board	1210	8
12.	Floor Board	1211	7
13.	Axle	1212	1
14.	Drag Chain Drive Hub	1213	1
15.	Beater Drive Hub	1214	1
16.	1" ID Wheel Bearing	1215	4
17a.	Left Wheel/Tire Assembly	1216a	1
17b.	Right Wheel/Tire Assembly	1216b	1
18.	1" Flat Washer	_____	2
19.	1/4 x 1-1/2" Cotter Pin	_____	2
20.	Transmission Shield	1217	2
21.	Drag Chain Drive Shaft	1218	1
22.	Drag Chain Drive Sprocket	1219	2
23.	Wood Bearing	1220	2
24.	Outer Drag Chain Drive Chain	1221	1
25.	Inner Drag Chain Drive Chain	1222	1
26.	Beater Drive Chain	1223	1
27.	Clutch Spring	1224	2
28.	Clutch Arm	1225	2
29.	Idler Pulley	1226	5
30.	Transmission Shield Bracket	1227	2
31.	Drag Chain Transmission Housing	1228	1
32.	Beater Transmission Housing	1229	1
33.	3/4" Set Collar	1230	3
34.	Drag Chain Drive Stub	1231	1
35.	3/4" Sleeve Bearing	1232	5
36.	Beater Drive Stub	1233	2
37.	10" Pulley/Sprocket Comb. Assy.	1234	1
38.	40T/12T Comb. Sprocket Assy	1235	1
39.	40T Drag Chain Drive Sprocket	1236	1
40.	3/4" ID Bronze Bushing	1237	6
41.	5/8 x 81" V-Belt	1238	2
42.	6" Pulley Sprocket Comb. Assy.	1239	1
43.	12T Beater Drive Sprocket	1240	2
44.	Top Beater	1241	1
45.	Bottom Beater	1242	1
46.	Beater Stabilizer Bar	1243	1
47.	Drag Chain Assembly	1244	1

BOLTS: 3/8 x 1 Bolt, Nut, Lock Washer, and Flat Washer – 12 per unit
Used on Front Panel and Transmission Shields

3/8 x 1-1/4 Bolt, Nut, Lock Washer, and Flat Washer – 16 per unit
Used on Tongue, Side Panels, Axle, and Transmission

5/16 x 1 Hex Bolts, Nuts, and Lock Washers – 4 per unit
Used on Wood Bearings

Model 1200 Exploded View



Operating Instructions

The basic operation of the Model 1200 manure spreader is identical to full farm sized spreaders. The entire manure load is gradually fed toward the rear beater at a rate compatible with the rear beater's ability to disperse the manure. The rear beater's initial drive is a V-belt to allow slippage should excessive loads be encountered; thus preventing severe damage to more expensive parts.

The continuous motion of the drag chain is accomplished by the driver's side wheel transmitting force to a combination V-belt and chain driving transmission.

The double rear beater rotation is driven by the passenger side wheel transmitting force to a similar transmission. The drag chain and rear beaters have separate clutch ropes, both of which run from the transmissions to the keyhole catches.

Detailed Operating Procedures Are As Follows:

1. Insure that the drag chain tension is such that a small sag (3-4 inches) is apparent underneath the front of the load bed. Drag chain tension is adjusted by using the two idler sprocket positioning bolts located at the front of the load bed.
2. Disengage the drag chain and beater drives by pulling rope knot through keyhole and hooking in slot.
3. Load desired material to be spread. CAUTION: Avoid loading rocks, metal, or other items that could become dangerous flying objects during unloading. Also, string and wire should be avoided to prevent winding on the beater while unloading.

Small loads are recommended until familiarization with limitations and capabilities of the Model 1200 are satisfactory. NOTE: If sawdust bedding is used, it may be desirable to utilize an end gate. Slots located in front of the stabilizer bar are designed to accept a 3/4 inch x 24 inch x 39-3/4 inch plywood end gate. This will increase the load capacity, while decreasing the amount of spillage that may occur during transport.

4. Upon reaching the desired location of spreading, engage the two clutches by releasing the rope knot from the keyhole catch.
5. The spreader works most efficiently when being pulled at speeds of 3 to 5 miles per hour (fast walk). If the beater stops rotating during spreading operation, stop immediately and manually rotate the beater until free (this will prevent the manure from becoming further jammed into the beater). Also, when turning corners while spreading, it is better to make left hand turns so that beater speeds and spreading action are maintained.

Warranty Policy

Country Manufacturing, Inc. will, at its option, replace or repair, without charge to the original purchaser, any part or parts manufactured by it and found, upon examination, to be DEFECTIVE IN MATERIAL AND/OR WORKMANSHIP if received for such examination within 90 days from date of original purchase.

Damage resulting from accident, abuse, or neglect are conditions under which warranty cannot be claimed. Nor will warranty apply to damage resulting from failure to follow the Manufacturer's instruction for operation and maintenance nor from the improper selection of a particular application.

All transportation charges on, and damages and loss incurred in connection with the transportation of, parts submitted for replacement or repair under this WARRANTY shall be borne by the purchaser.

No other warranties, guarantees, or liabilities, either implied or expressed, will be the responsibility of Country Manufacturing, Inc.