

model **MS-1800**
MS-1800DX

Manure Spreader

assembly instructions



Tools Required

½ inch deep socket
13/16 lug nut socket
Driver extension bar
Drill and drill bit ¼
Knife or cutters
Hex Keys 5/32 and 3/16
Needle nose pliers
Philips screw driver
7/16 wrench

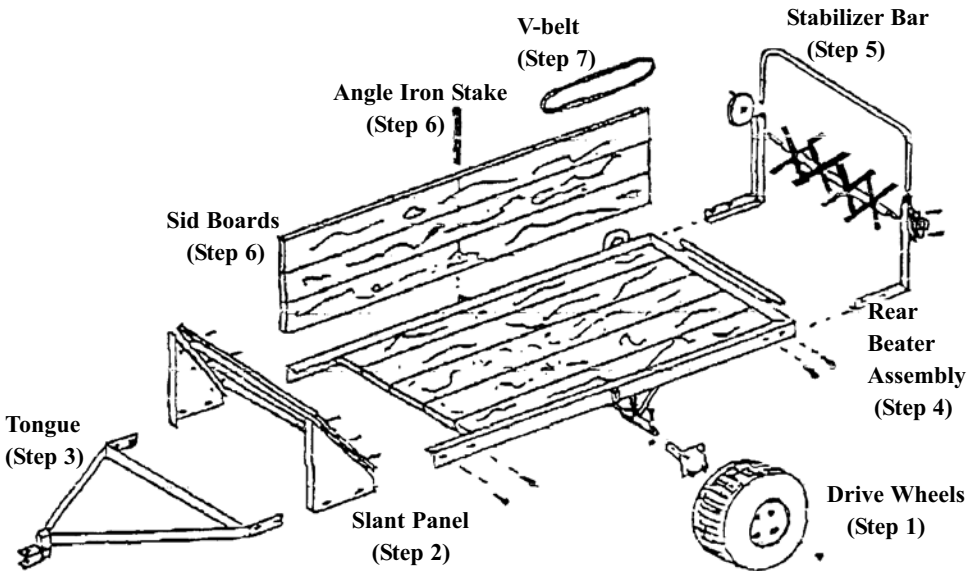
If you have any questions or need additional instructions, **DO NOT RETURN THIS PRODUCT TO THE RETAILER**, call our help line at 1-866-449-4343, Monday to Friday, 9:00 a.m to 5:00 p.m EST.

OWNER MANUAL AND INSTRUCTIONS

I Introduction:

The model MS-1800 Multi-Purpose Spreader is designed for the horseman, small farmer, or homesteader with a need for spreading manure with a small horsepower tractor. It can be pulled directly into small spaces, yet has a capacity large enough to minimize the number of loads. Straw, hay or manure of most consistencies can be spread with ease. Strick adherence to maintenance is necessary to insure long life and continued operation.

CAUTION: THE SPREADER SHOULD ONLY BE OPERATED WHEN ALL SURROUNDINGS ARE CLEAR OF PEOPLE AND BREAKABLE OBJECTS TO PREVENT POSSIBLE INJURY OR DAMAGE.



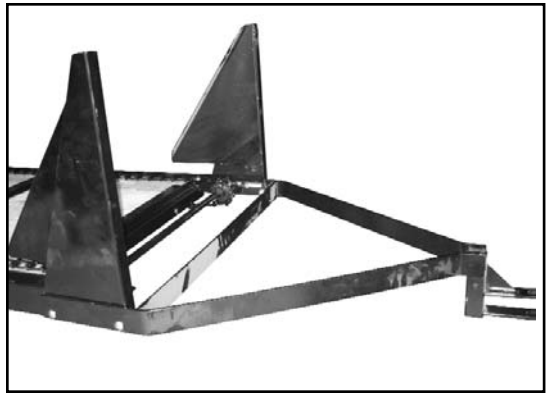
18 Bushel Capacity

STEP 1: Place trailer upside down and using lug nut bolts supplied install wheels. Fasten securely then turn trailer upright when completed.



STEP 2: a) Locate front rail guide assemblies and install using carriage bolts supplied insert bolts loosely into pre drilled holes.(note right and left side rail guides, place with flange side towards middle of deck)

b) Remove the bolts one side at a time, and install tongue frame over the upright then replace carriage bolts with nylock nuts leave loose. Install opposite side of trailer tongue again over guide rail uprights and install carriage bolts and nylock nuts. When all bolts are inserted in pre-drilled holes tighten securely. Install tongue jack extension leg. (Picture 2-C)



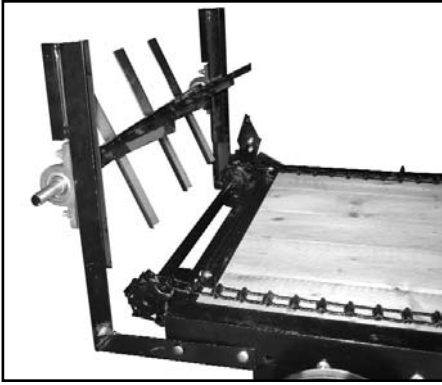
2-C

To install rear upright supports, beater bar assembly must now be assembled.

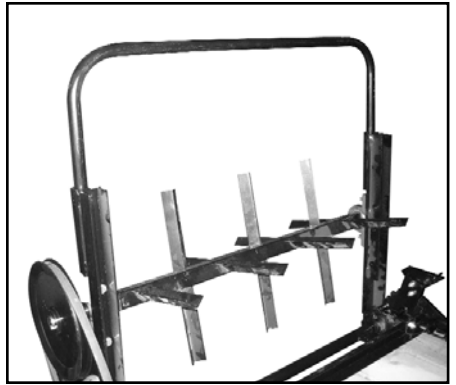
STEP 3: a) Unwrap beater bar, and remove tape and key for later use. Cut tie wraps and remove collars from beater bar for later use.

b) Remove four 4 5/16 bolts from rear of trailer deck frame to install beater upright supports. Install one side (do not tighten) then insert beater bar onto remaining upright support before installing with carriage bolts. Carriage bolt holes are slotted to allow alignment prior to tightening. **DO NOT TIGHTEN**

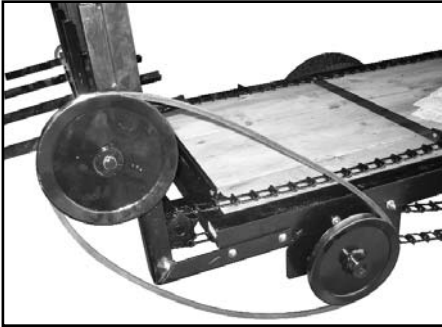
c) Install collars on beater bar and tighten with 5/32 hex key



d) Install rear stabilizer upper hoop bar into square tubing at top of beater supports.



STEP 4: a) slide 8 inch pulley onto beater shaft insert key (earlier removed) and tighten with 5/32 hex key.



b) Now that you have the belt on you can align the uprights and tighten the carriage bolts. (Make sure belt feeds under belt tightner)

STEP 5: a) Install side boards into slots on both sides.

b) Install angle iron side supports into bracket located forward of the wheel.



c) drill precut boards for front panel using pressure treated wood. Start at top rail (level with side rails)

(Note, there will be space at the bottom to allow clearance of drag chain)



STEP 6: a) Install clutch bar onto drive belt tightening bar (opposite belt side) tighten against flat part on shaft.

b) Locate round clutch engage shaft and remove washer and cotter pin. Install from the back of the clutch flat bar and replace washer then cotter pin. The engage shaft and collar fits into the keyhole plate.

c) Attach large spring into predrilled hole at bottom of clutch bar.

d) insert key hole collar through keyhole engage clutch by pushing bar forward and tighten collar with 3/16 hex key.

e) Check to make sure smaller spring is attached to sprocket engage lever.

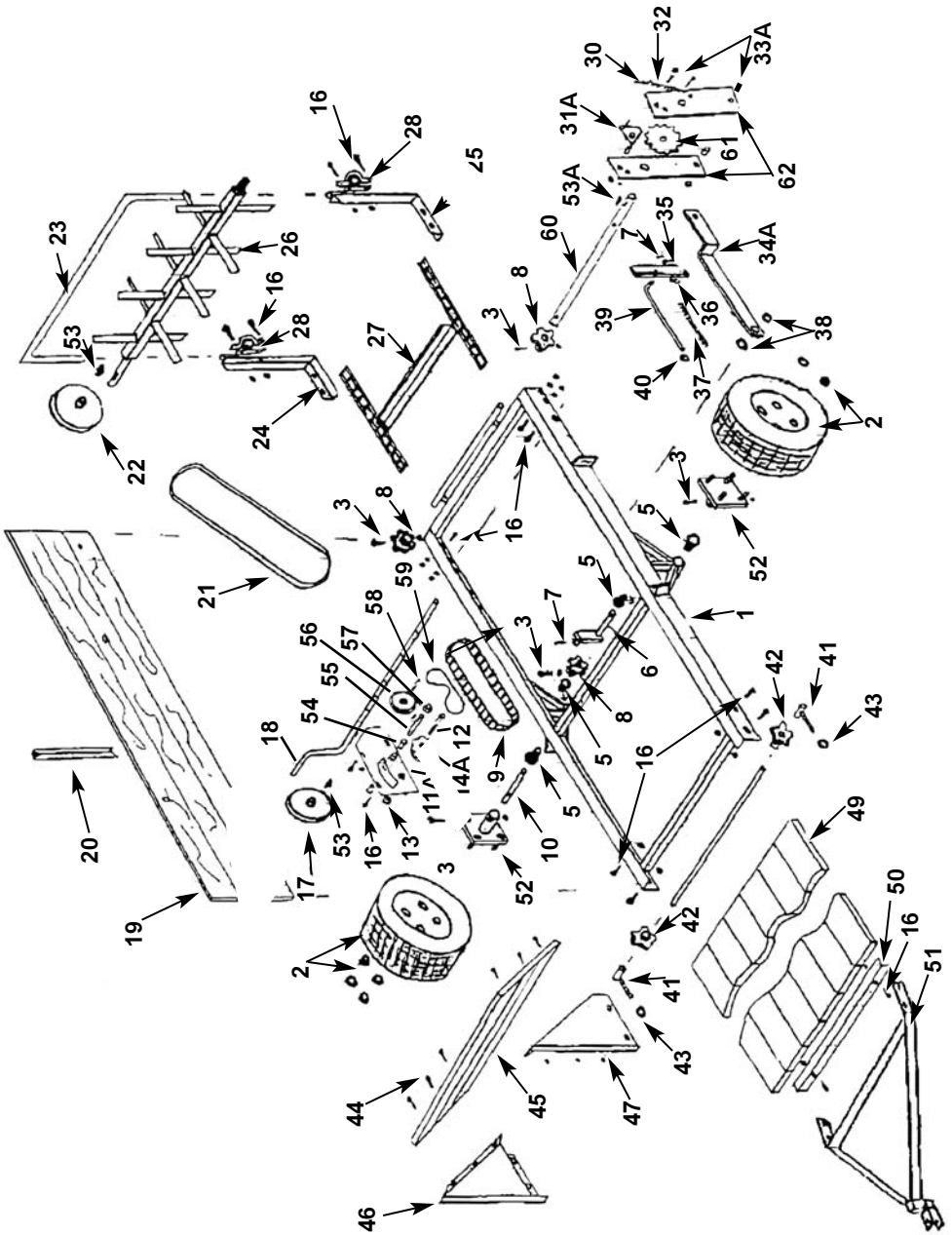


STEP 7: a) Install drive belt cover by first removing bolts from frame and re-install.



STEP 8: Check lubrication points for proper lubrication (maintain regularly)

Exploded View Model MS-1800



<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>
MS1800-1	Main Support Frame	1
MS1800-2	16.00 x 6.50 - 8 Wheel / Tire Assembly	2
MS1800-3	1/4" x 1 3/4" Grade 5 Bolt / Nut	5
MS1800-4	3/4" Flat Washer	1
MS1800-5	Oil Light Brass Bushing	4
MS1800-6	Cam Shaft	1
MS1800-7	1/8" Cotter Pin	2
MS1800-8	Drive Sprocket	3
MS1800-9	Drive Chain (#55 Link Chain)	1
MS1800-10	3/4" Beater Drive Axle	1
MS1800-11A	Transmission Housing	1
MS1800-12	5/8" x 3 1/2" Grade 5 Bolt	1
MS1800-13	5/8" Nut	1
MS1800-14A	Combination Sprocket Assembly	1
MS1800-16	5/16" x 1" Grade 5 Bolt/Nut/Washer Assembly	17
MS1800-18	Belt Tightener Rod	1
MS1800-19	1 x 6 Wolmanized Side Board	6
MS1800-20	Side Board Support Stake	2
MS1800-21	4L690 V-Belt (69")	1
MS1800-22	Beater Shaft Pulley (8 x 3/4" bore)	1
MS1800-23	Beater Stabilizer Bar	1
MS1800-24	Left Beater Support	1
MS1800-25	Right Beater Support	1
MS1800-26	Beater Assembly	1
MS1800-27	Drag Chain Assembly (#55 Link Chain)	1
MS1800-28	Beater Support Bearing	2
MS1800-30	3/32 Cotter Pin	2
MS1800-31A	Ratchet Flipper	1
MS1800-32	Ratchet Spring	1
MS1800-33A	Connector Rod Bolt/Nut Assembly	2
MS1800-34A	Connector Rod	1
MS1800-35	1/4" Flat Washer	1
MS1800-36	Beater Clutch Handle	1
MS1800-37	Beater Clutch Spring	1
MS1800-38	5/8" Flat Washer	2
MS1800-39	Beater Clutch Hold Rod	1
MS1800-40	1/4" Set Collar	1
MS1800-41	Idler Sprocket Adjuster	2
MS1800-42	Idler Sprocket	2
MS1800-43	1/2" Hex Nut	2
MS1800-44	1/4" x 1 1/2" Carriage Bolt/Nut/Washer Assembly	6
MS1800-45	Front Slant Panel Boards (1 x 6)	3
MS1800-46	Left Slant Panel Support	1
MS1800-47	Right Slant Panel Support	1
MS1800-48	Idler Shaft	1
MS1800-49	1 x 6 Wolmanized Floor Board	5
MS1800-50	Floor Board Hold Bracket	1
MS1800-51	Tongue Assembly	1
MS1800-52	Wheel Hub Assembly (Includes Lug Bolts/Nuts)	2
MS1800-54	5/8 ID Bronze Bushing	2
MS1800-55	Pulley Drive Shaft	1
MS1800-56	3" Idler Pulley	1
MS1800-57	12 Tooth Sprocket	1
MS1800-58	3/8 x 1 1/2 Carriage Bolt & Nut	1
MS1800-59	#35 Transmission Chain	1
MS1800-60	Drag Chain Drive Shaft	1
MS1800-61	Ratchet Sprocket	1