General Information
Thank you for purchasing this product. The purpose of this manual is to assist you in operating and maintaining your manure spreader. Please read it carefully, as it furnishes information which will help you achieve years of trouble-free operation.

Warranty
Products are warranted for one year from date of purchase against manufacturer or workmanship defects for home owner usage and 90 days for commercial usage.

For technical assistance, visit our website @ www.fimcoindustries.com or call: TOLL FREE @ 1-800-831-0027

Our Technical Support Representatives will be happy to help you. To obtain prompt, efficient service, always remember to give the following information…

- Correct Part Description and/or part number
- Model #/Serial # of your sprayer

Part descriptions and numbers can be obtained from the illustrated parts list section(s) of this manual.
Assembly Instructions
1. Remove all parts of the manure spreader from the crate.
   A. Note that the tongue is fastened to the crate. Free the tongue parts from the crate and then remove the top cross boards.
   B. The wheels and tires may be lifted from the unit frame.
   C. Note the small parts bag with the wheels, open it and remove the contents.
2. Attach the tongue to the main frame using (4) 5/16-18nc x 1” carriage bolts and (4) 5/16” lock nuts. You may want to refer to the exploded view drawings.
3. The control levers must be attached to the bolt on each side, near the front of the frame. The lock nuts are already attached to the appropriate parts. Remove them, affix the parts in place and secure the parts with the lock nuts. Use a 5/16” lock nut to hold the control levers in place. Tighten the lock nut so that the levers may pivot easily, but with a minimum of play. You can now join the gas shock (Item 23) to the lever on the left front end using a 5/16” lock nut.
4. Place the manure spreader onto a platform at 12” from the ground. Use a front end loader or a jack to raise the spreader safely.
   A. Note there are right and left wheels. The tread should point to the rear as viewed from top of the tire.
   B. Each wheel is to be attached using (4) bolts (Item 39) and (4) wheel nuts (Item 38).

Parts Included in Crate
1. Main Frame Assembly
2. Tongue & Hitch Assembly
3. (2) Wheels & Tires
4. Small Parts Bag
   A. (8) 1/2”-20 Hex Cone Wheel Nuts
   B. (4) 5/16” Whiz Nuts
   C. (4) 5/16”-18-1” Carriage Bolts
   D. (8) 1/2”-20 x 1-1/8” Serrated (Knurled) Shoulder Bolts
   E. (1) Hitch Pin Clip
   F. (1) Parking Stand Weldment
   G. (1) Gas Cylinder 40 psi Shock

Operating Instructions
1. The towing vehicle should be at least of a 10 H.P. variety.
2. The spreader has an adjustable hitch. Set the hitch so the adjustable hitch range is from 7” - 16”.
3. Be sure the towing vehicle can not move when attempting to hitch up to the spreader.
4. Use a quality hitch pin equipped to prevent accidental unhitching.
5. Be sure the safety guards are in place.
6. The control levers should be in the “off” position (rotated downwards) until you are ready to spread manure. Be sure to stop before engaging the controls.
7. Begin loading to the front end of the spreader and gradually work to the rear end.
8. Do not load above the side or front panels.
9. Always allow clearance for the rotary blade mechanism to turn freely before engaging the chain mechanism.
10. It is important to free up any manure that may be frozen or adhered to the floor. This will prolong the life of the drive chain. It is also a good idea to know that the detachable chain mechanism (slide bar) is not adhered to the floor board. This can happen cold weather when moisture freezes to the chain and floor.
11. Stop moving before engaging or disengaging the controls to the chain drive mechanisms.
12. The proper speed for the desired spreading is from 3-1/2—5 MPH. Do not exceed 5 MPH or excessive wear and tear will occur.
13. Always disengage both controls before backing up. Reversing the chain drive mechanism will cause damage to the drive mechanism.
14. It is a good idea to use a slow moving vehicle sign for road travel.
15. Use safe practices when operating the spreader. Better to be safe than sorry.
16. Cleaning the spreader after each use will prolong the life of the spreader and make maintenance easier.
17. Be sure to oil the roller chain, as well as the detachable chain, and grease the axle and the pivoting shaft bushings for the rotary blades. A regular practice of maintenance will prolong the life of the spreader.
18. Raise the control levers to engage the ground drive mechanisms.

General Maintenance
Do not attempt, under any circumstance, to work with the chain drive mechanisms while the spreader is moving. To clean, service, adjust, unclog or any other function, the spreader must be stationary. (Even though it would appear to be safe). If the mechanism starts to move, your safety could be at risk. Follow these steps before attempting to maintain or repair any part of the spreader.
1. Unhitch the spreader from the towing vehicle.
2. Block both wheels front and back or raise the entire spreader. Support the spreader so the wheels may turn if necessary. Use care to provide adequate stationary support.
3. Engage the control levers only to move the drive chain mechanism.
4. Always be sure the safety guards are in place after maintenance and before moving the spreader.
5. Oil the roller chain and detachable chain once a week or as use and weather conditions demand. Do not let the chains go dry.
6. Grease the bushings for the axle shafts, the shafts for the rotary blades and the shaft for the detachable chain drive.
7. Cleaning the spreader after each use will prolong its life and make the maintenance easier.

Floor Chain Drive Mechanism Adjustment
Periodically adjustments must be made to your manure spreader in order to keep it in peak operating condition. One area which may require periodic adjustment (to compensate for normal usage wear) is the floor chain drive mechanism.
Assembly Instructions

Step 1: On a flat and level surface, unhitch the spreader from its towing vehicle.

Step 2: Adjust front tip stand so unit is in a reasonably level position.

Step 3: Inspect cam follower roller (Item 32), shown in Detail C, and replace if worn.

Step 4: Raise handle (Item 16), shown in Detail B, on floor chain drive mechanism side only, to its full upright (engaged) position.

Step 5: Roll spreader slightly, a few inches should do the trick, either forward or rearward until the cam follower roller resides at its lowest point on cam (Item 34), shown in Detail C. See Figure 1.

Step 6: At this point block both wheels, front and back, to secure the spreader in place.

Step 7: Using a needle nose pliers, unseat the lower end of the 6" spring (Item 46), shown in Detail C, from its vertical mounting bracket.

Step 8: Remove left side shield (Item 48), shown in Detail D. Set shield and hardware off to the side for the time being.

Step 9: Next, slowly lift the cam follower roller (Item 32) upward until the rear ratchet pawl engages. The instant the rear ratchet pawl becomes engaged, a reasonably loud "click" should be heard. Refer to Figure 2.

Rear Ratchet Pawl should become engaged at between 3" to 4" of elevation

3½" = Optimal Setting in most instances

**NOTE** It is crucial that the lifting of the cam follower roller is stopped the very instant the rear ratchet pawl becomes engaged, in order to provide an accurate reading for set-up. If you happen to go too far, simply push the cam follower roller back down into its lowest position and lift again slowly.

The optimal setting most instances is 3½", depending upon the spreader's age and wear pattern.

Step 10: If the rear ratchet engages too quickly or does not engage soon enough, it is out of phase and must be repositioned.

Step 11: Repositioning of the rear ratchet pawl is accomplished quite simply by loosening the rear ratchet pawl adjustment bolt and moving it either up or down with the ratchet pawl adjustment slot and then retightening. Refer to Figure 3.

Some trial and error may be involved in this process, as every spreader will require slightly different settings to achieve proper lift distance of the cam follower.

Step 12: Re-attach the 6" spring to its vertical mounting bracket, as well as the left side shield, prior to testing.

Step 13: Test empty spreader at a reduced speed for a period of time insuring the floor chain drive mechanism is running smoothly.

Step 14: Place back in service.

Figure 1

Figure 2

Figure 3
NOTE: Roll Pin (Item 43) goes through the hole in the axle, after assembled to main frame. See Detail J4
NOTE: Roll Pin (Item 43) goes through the hole in the axle, after assembled to main frame. See Detail J3.
Feeder Chain Weldment (Item 84) has a 28# Shipping Weight

Floor Panel & Machine Screws (x10)

MS-25BU
(5301194)
Misc. Dimensions