

**MANURE SPREADER
MODEL MX25
ASSEMBLY INSTRUCTION MANUAL**

**Please review and understand the
operators manual before attempting
to operate this machinery.**

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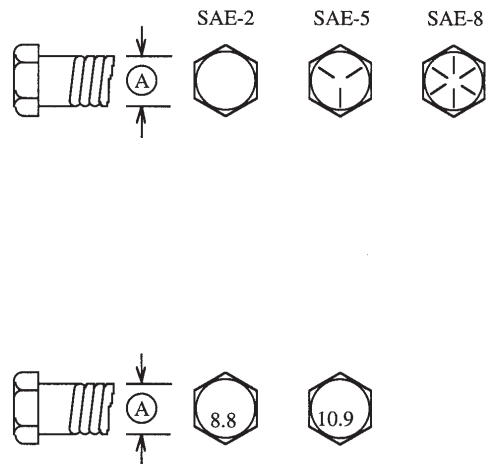
1.0 ASSEMBLY SAFETY

1. Read and understand the Assembly Manual and all safety signs before starting.
2. Follow good safety practices:
 - Keep service area clean and dry.
 - Be sure electrical outlets and tools are properly grounded.
 - Use adequate light for the job at hand.
3. Use properly sized tools, stands, jacks and hoists at all times.
4. Don't handle heavy and/or bulky components alone, ask for help.
5. Position in a large open area to allow access from all sides during assembly.
6. Keep the assembly area neat and clean to prevent slipping or tripping.
7. When using lifting equipment, place jack stands under the machine to securely stabilize it before working on, beside or under it during assembly.
8. Stay away from overhead power lines and obstructions when lifting the machine during assembly. Contact with power lines can cause electrocution. Contact with obstructions can damage components or cause them to fail.
9. Tighten all fasteners to their specified torque, then recheck before using the machine.

2.0 BOLT TORQUE

ENGLISH TORQUE SPECIFICATIONS

Bolt Diameter "A"	Bolt Torque*					
	SAE 2 (N.m) (lb-ft)		SAE 5 (N.m) (lb-ft)		SAE 8 (N.m) (lb-ft)	
1/4"	8	6	12	9	17	12
5/16"	13	10	25	19	36	27
3/8"	27	20	45	33	63	45
7/16"	41	30	72	53	100	75
1/2"	61	45	110	80	155	115
9/16"	95	60	155	115	220	165
5/8"	128	95	215	160	305	220
3/4"	225	165	390	290	540	400
7/8"	230	170	570	420	880	650
1"	345	225	850	630	1320	970



Torque figures indicated above are valid for non-greased or non-oiled threads and heads unless otherwise specified. Therefore, do not grease or oil bolts or caps crews unless otherwise specified in this manual. When using locking elements, increase torque values by 5%.

* Torque value for bolts and capscrews are identified by their head markings.

3.0 ASSEMBLY

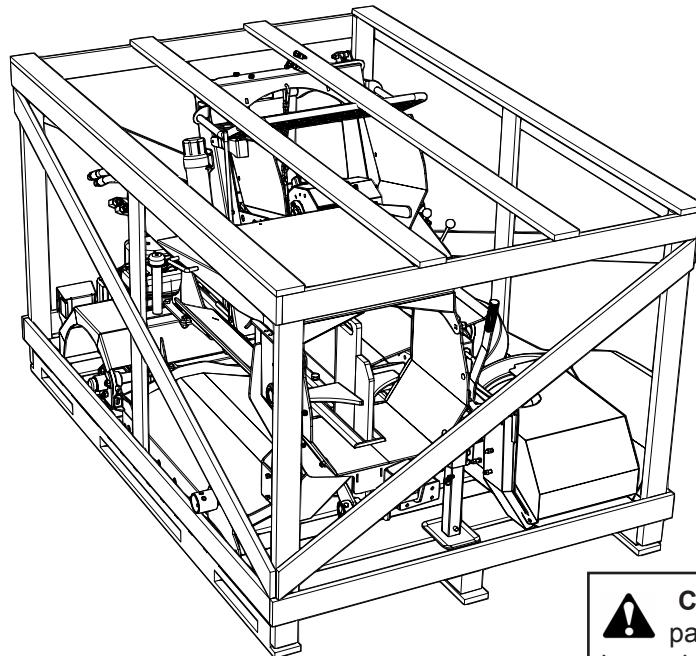
This assembly manual is for all trailer model manure spreaders. The MX25G is used as an example but generally applies to all manure spreader models. Model specific instructions are identified in the manual.

The machine is shipped from the factory in a partially disassembled configuration and attached to a pallet that provides easy moving and handling. Always use tools, equipment and fork lifts of appropriate size and capacity for the job.

Inspect for damage from shipping, immediately contact the shipping company if damage is found.

When the machine is shipped, follow this assembly procedure:

1. Clear the area of bystanders, especially small children.
2. Be sure you have all the required tools before you start.
3. Move the shipping package into an area where it is accessible from all sides.
4. Remove the screws holding the lid to the shipping pallet, remove the lid and set aside away from the assembly area.



Caution: Heavy or bulky parts: prevent potential injury ask for help when lifting or moving heavy, bulky parts.

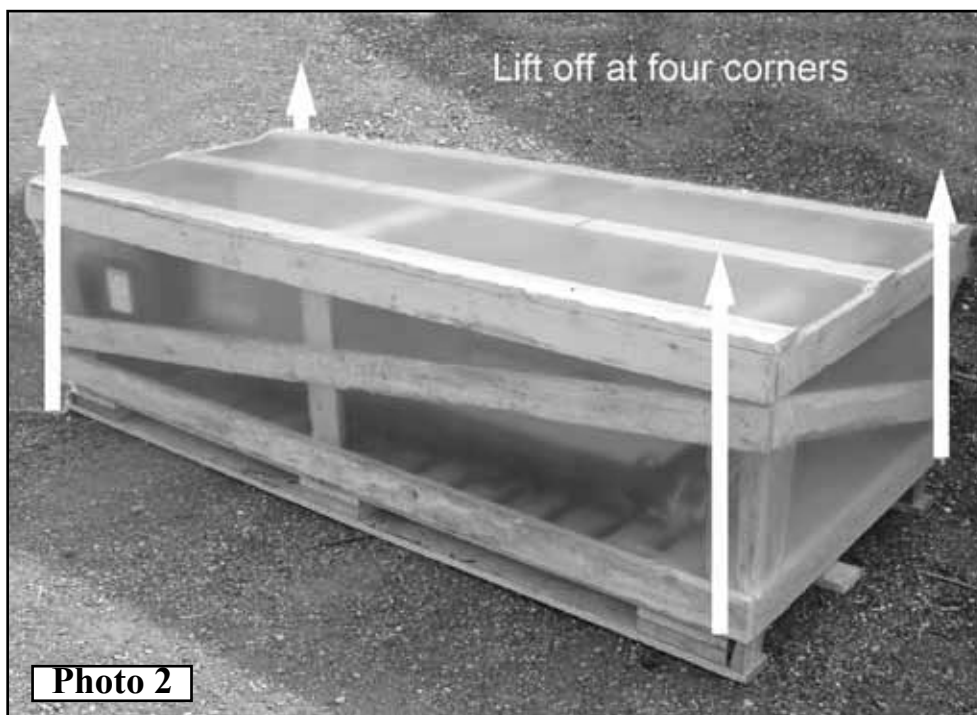
Uncrating the Spreader

1. Remove all screws securing upper part of crate to lower skid. There are two (2) screws located at each of four corners around bottom of crate, and one in center of both sides.

Photo 1



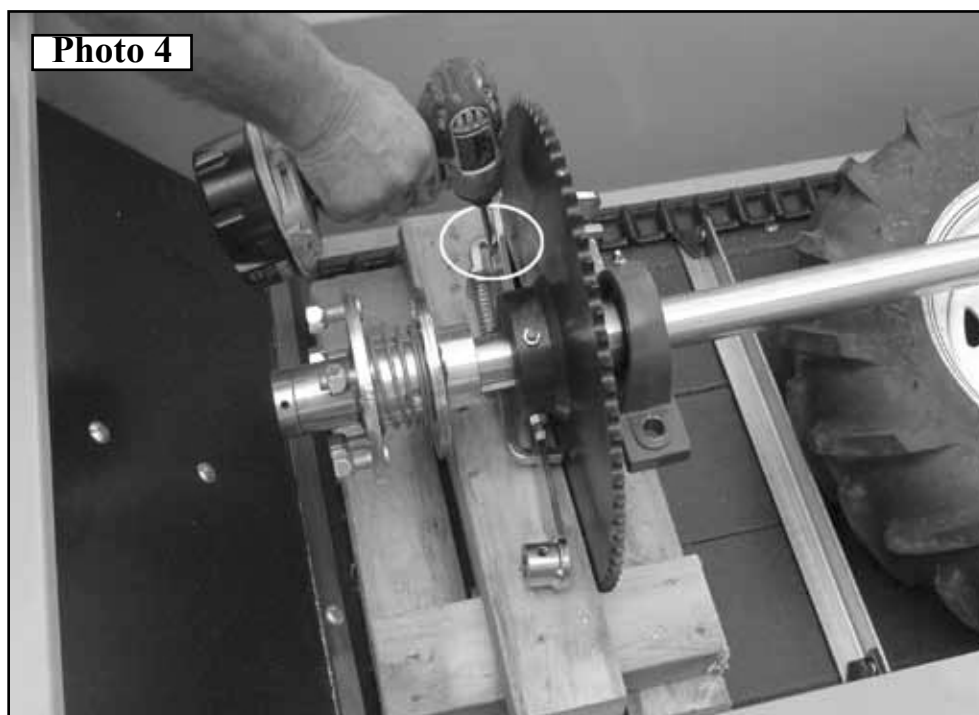
2. Remove the upper portion of the crate by lifting at four corners. **Photo 2**



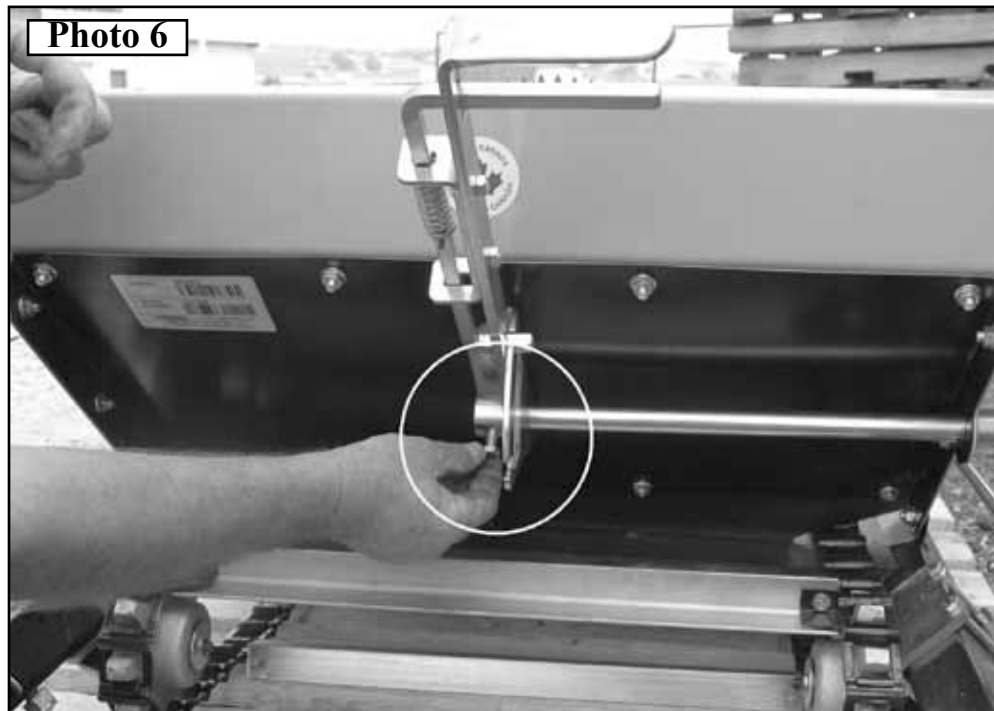
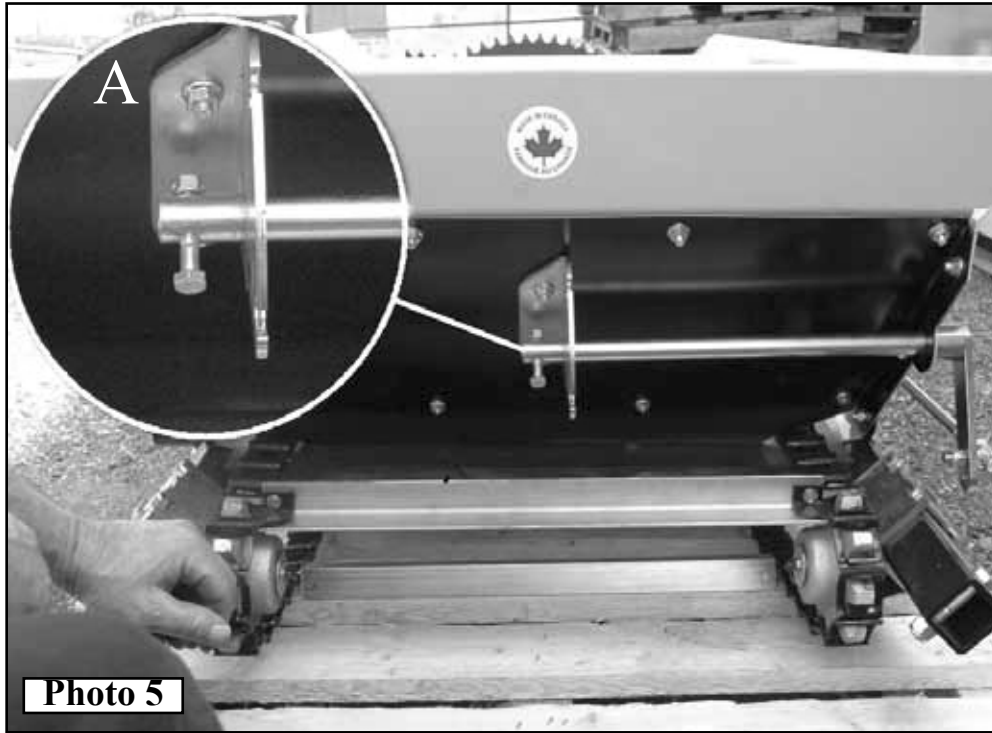
3. Locate Ground Drive Axle Assembly, Engagement Handle and Tires shipped in bed of spreader. **Photo 3**



4. Unfasten and remove Engagement Handle Assembly secured inside spreader bed. **Photo 4**



5. Remove the **Hex Bolt 1/4NC x 1-1/2** & **Hex Lock Nut 1/4NC** temporarily mounted at the Drive Engagement Connection Rod (for your convenience). ***Inset A, Photo 5***. Use this hardware to mount and secure the Engagement Handle Assembly. ***Photo 6***



6. Using a lift truck, raise the spreader from the lower skid and place on a set of four jacks. Position jacks at a workable height for axle and tire installment.

CAUTION

Exercise extreme caution when raising spreader to ensure a safe working environment. All precautions should be taken to avoid any injury. *Photos 7 & 8*

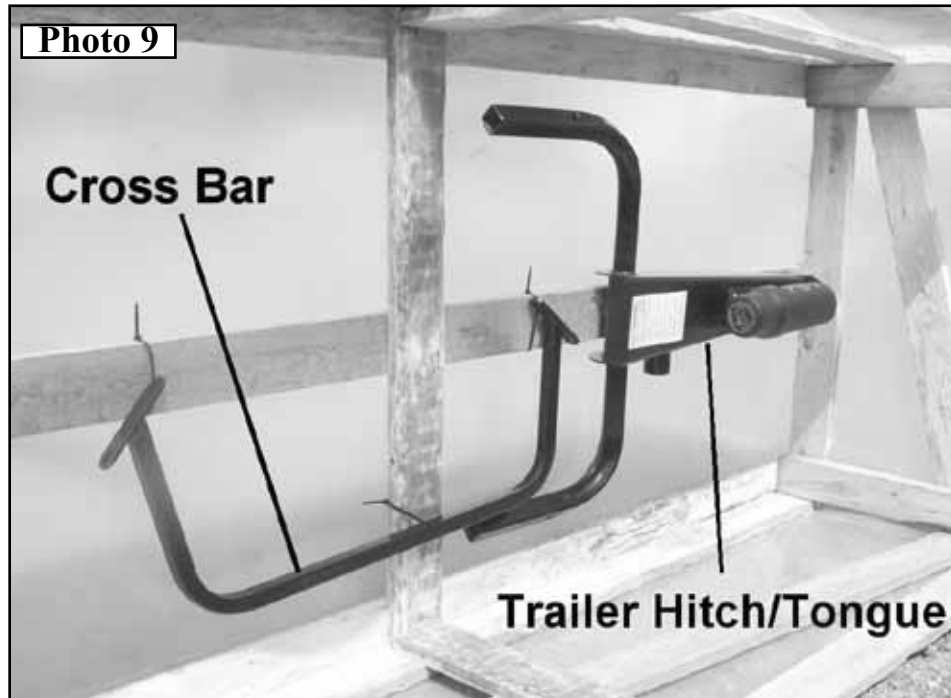
Photo 7



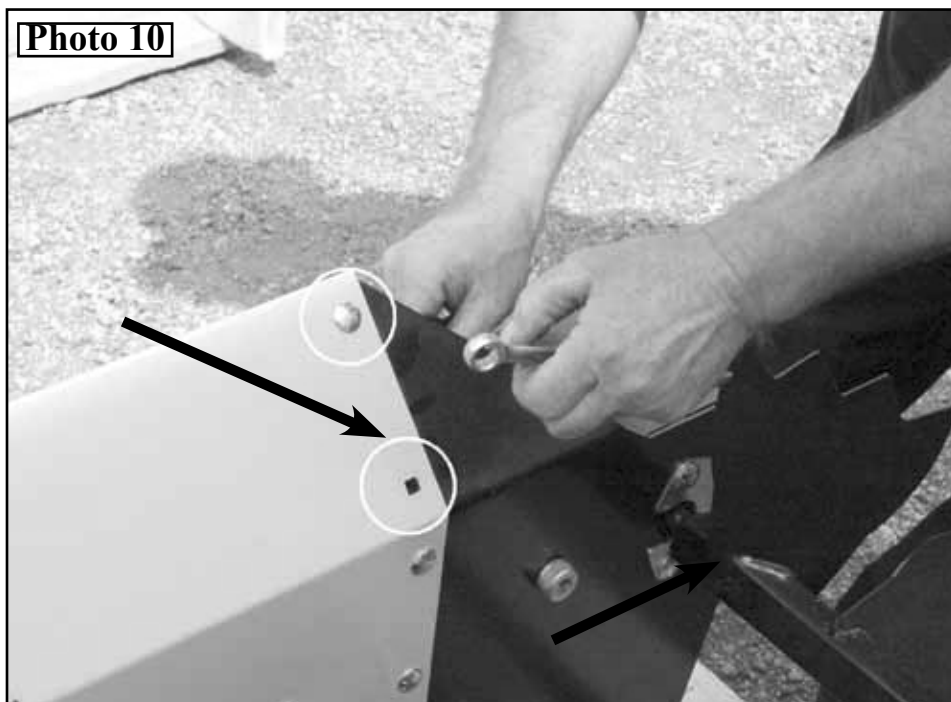
Photo 8



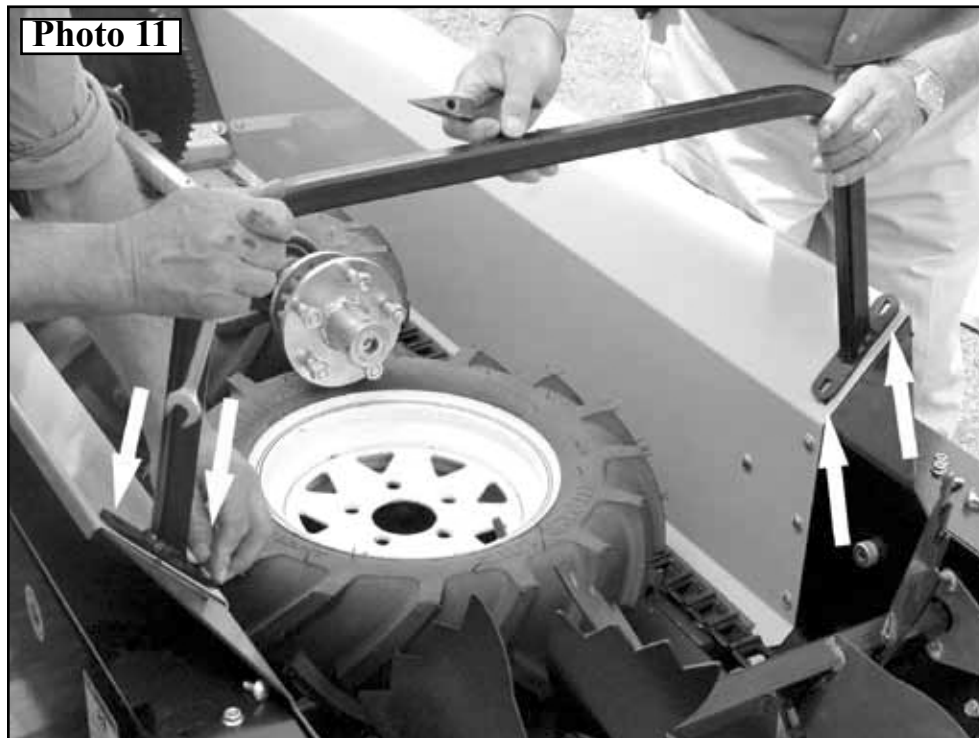
7. Locate Trailer Hitch/Tongue & Cross Bar mounted to top of shipping crate and remove. *Photo 9*



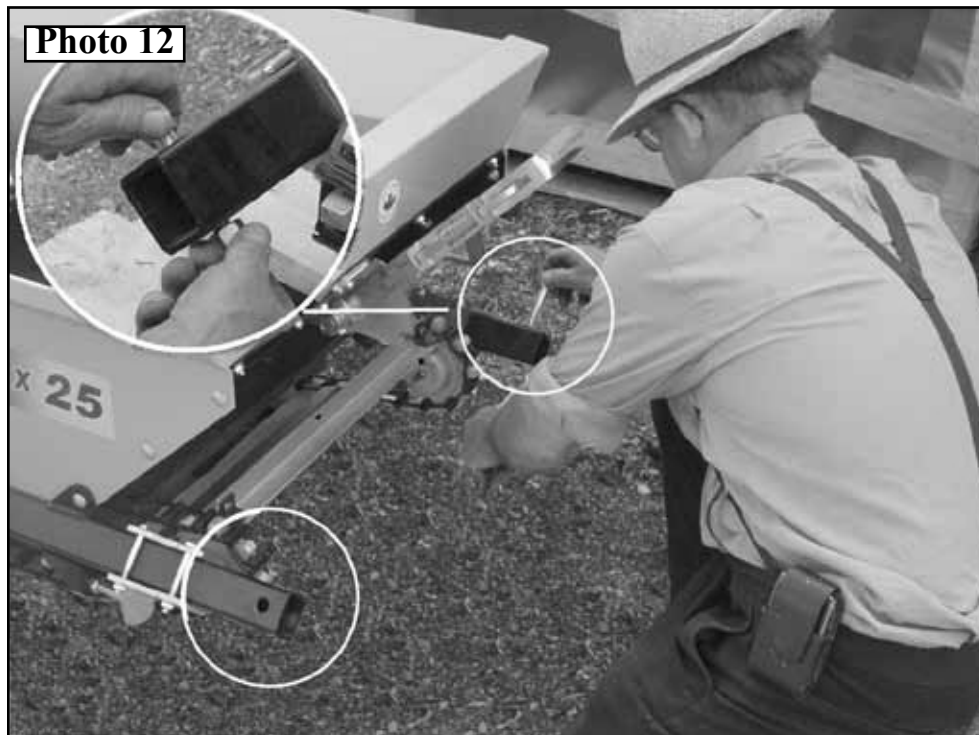
8. Remove two (2) **Carriage Bolt 5/16NC x 3/4** & two (2) **Flange Nut 5/16NC** from both left and right hand Box Sides at rear of spreader. *Photo 10*



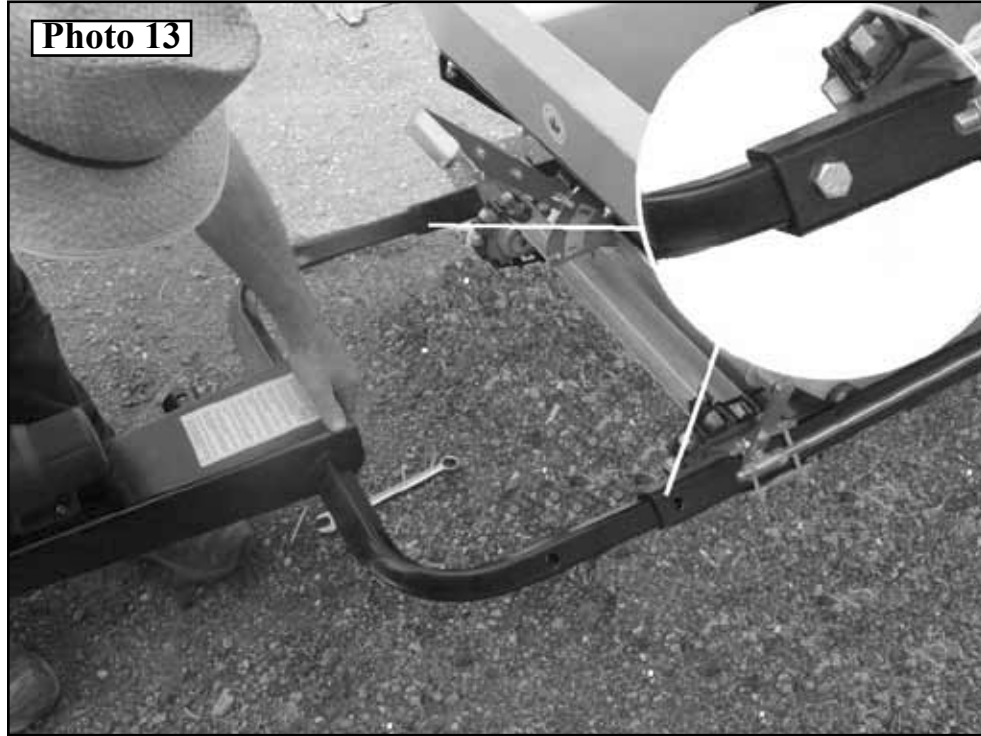
9. Attach the cross bar at rear of spreader with hardware removed in Step 8. **Photo 11**



10. Remove two (2) **Hex Bolt, 1/2NC x 2-3/4** & two (2) **Hex Lock Nut 1/2NC** from left and right Main Frame at front of spreader. **Photo 12**



11. Slide the Hitch Frame into Main Frame at front of spreader and secure with the hardware removed in step 10. **Photo 13**



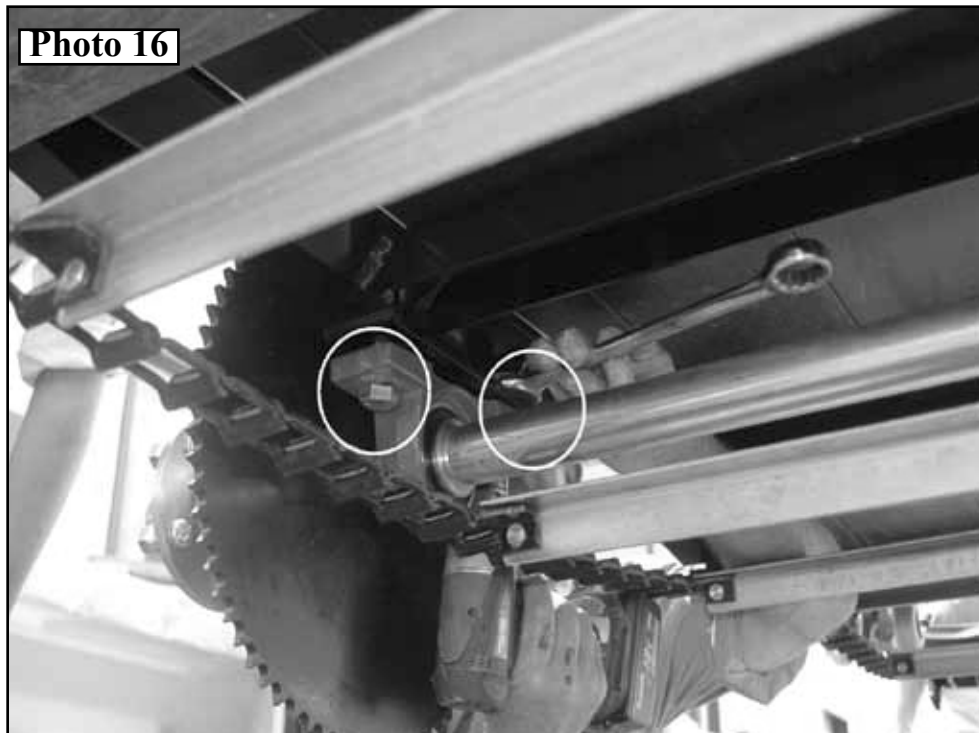
12. Install Ground Drive Axle Assembly over top of apron chain while holding # 50 Drive Chain above axle. Install the axle from left side, passing underneath to a second set of hands on right side of spreader. **Photo 14**



13. Loosely attach axle bearing pillow blocks at right side of spreader using two (2) **Hex Bolt 5/8NC x 1-3/4** & two (2) **Hex Lock Nut 5/8NC**. *Photo 15*



14. Loosely attach Drive Sprocket side of axle bearing pillow blocks to spreader (left hand side). Secure with two (2) more **Hex Bolt 5/8NC x 1-3/4** & two (2) **Hex Lock Nut 5/8NC**. *Photo 16* TORQUE ALL FOUR (4) FASTENERS TO SPECIFICATIONS.

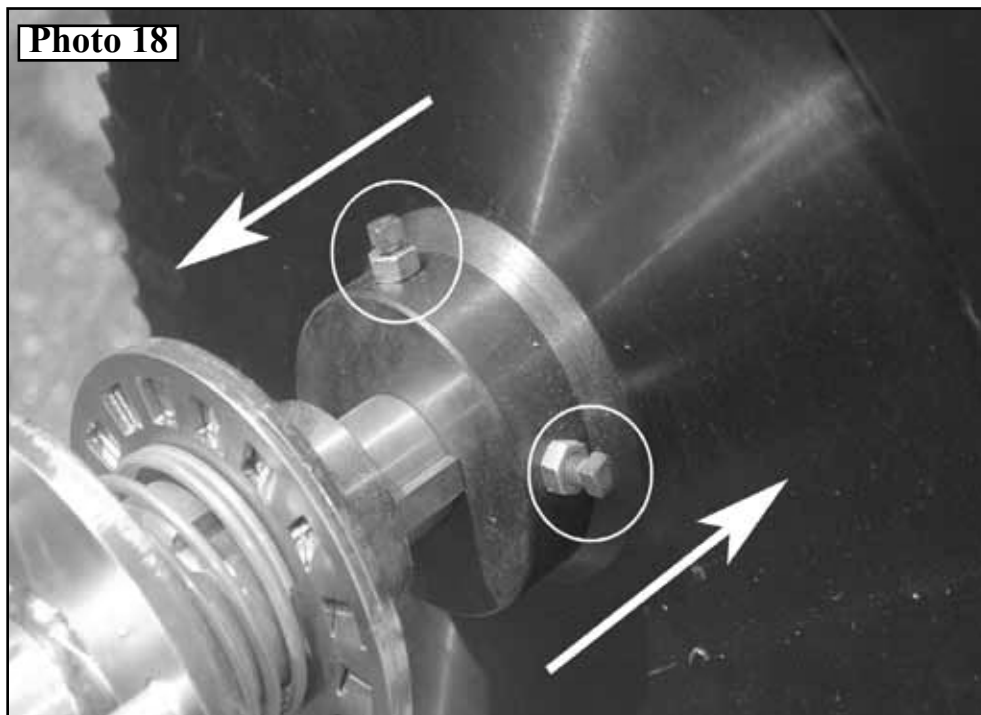


15. Ensure Main Ground Drive Sprocket is aligned with #50 Roller Chain above.
Photo 17. This alignment is generally set at factory but should be checked in case of misalignment during shipping.



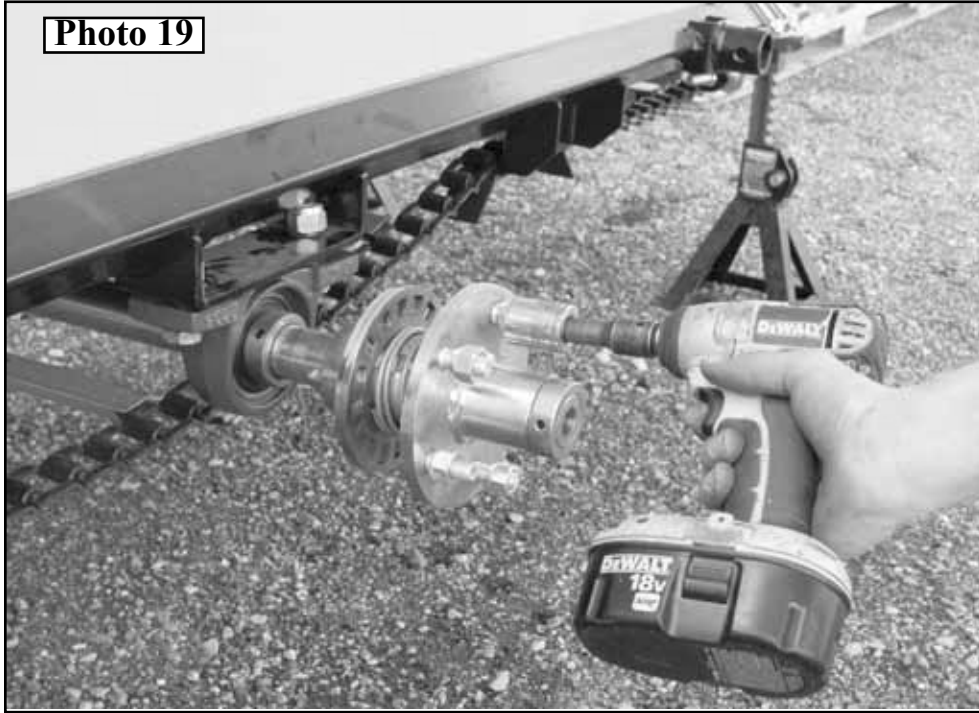
NOTE

If alignment is out, loosen both Set Screw, 3/8NC and slide Ground Drive Sprocket as necessary.



16. Remove ten (10) **Lug Nut 1/2NF** from each axle hub and install two (2) Tires.
Photo 19 & 20

Photo 19



IMPORTANT

"V" Tread faces towards rear of spreader. Tire shown below is LEFT hand side.

Photo 20



17. Installed Jack at upright position. *Photo 21*



18. Installed Jack at travelling position. *Photo 22*

