



# **350LB ATV SPREADER**

## **OWNER'S MANUAL**



### **WARNING:**

Read carefully and understand all **ASSEMBLY AND OPERATION INSTRUCTIONS** before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury.

**Item# FTF-350TST**

Thank you very much for choosing this product! For future reference, please complete the owner's record below:

Model: FTF-350TST Purchase Date: \_\_\_\_\_

Save the receipt, warranty and these instructions. It is important that you read the entire manual to become familiar with this product before you begin using it.

This product is designed for certain applications only. The manufacturer cannot be responsible for issues arising from modification. We strongly recommend this product not be modified and/or used for any application other than that for which it was designed. If you have any questions relative to a particular application, DO NOT use the product until you have first contacted us to determine if it can or should be performed on the product.

For technical questions please call **1-218-943-6296**.

## INTENDED USE

This Field Tuff Tow-Behind Broadcast Spreader's 350-lb. capacity makes it easy to cover big food plots and large lawns. It's a universal spreader for seeds, fertilizer and winter ice control. Three slide opening adjustments with infinite adjustment for each side. Broadcast covers a wide area with each pass. 15 inch tires are ideal for a high capacity spreader and for tackling all terrains.

## TECHNICAL SPECIFICATIONS

Item	Description
Capacity	350lbs
Tires	15 inch
Construction	Steel
Carton Dimensions	36" x 35" x13"

## GENERAL SAFETY RULES



**WARNING:** Read and understand all instructions. Failure to follow all instructions listed below may result in serious injury.



**CAUTION:** Do not allow persons to operate or assemble this ATV Spreader until they have read this manual and have developed a thorough understanding of how the ATV Spreader works.



**WARNING:** The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions or situations that could occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

## MAINTENANCE

- **Maintain your ATV Spreader.** It is recommended that the general condition of any **ATV Spreader** be examined before it is used. Keep your **ATV Spreader** in good repair by adopting a program of conscientious repair and maintenance. If any abnormal vibrations or noise occurs, have the problem corrected before further use. Have necessary repairs made by qualified service personnel.
1. The hopper should be washed after use, especially after use with corrosive material such as fertilizer, salt or ice melting compounds. When dry, oil thoroughly.
  2. The gearbox is filled with lubricant and sealed at the factory. If operated and stored properly, the gearbox will provide a long, trouble-free service life. If disassembly of the gearbox should ever be required, it is important that the box be re-filled with a good quality grease and that the box halves are resealed with a silicone adhesive.
  3. Always store seeder/spreader in a clean, dry place.
  4. Before using, check to make sure all nuts and bolts are tight.
  5. Paint any bare metal or rusty spots for longer life.

## WORK AREA

- **Keep work area clean**, free of clutter and well lit. Cluttered and dark work areas can cause accidents
- **Keep children and bystanders** away while operating an **ATV Spreader**. Distractions can cause you to lose control, so visitors should remain at a safe distance from the work area.
- **Be alert of your surroundings.** Using an **ATV Spreader** in confined work areas may put you dangerously close to cutting tools and rotating parts.

## PERSONAL SAFETY

- **Stay alert**, watch what you are doing and use common sense when using an **ATV Spreader**. Do not use an **ATV Spreader** while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating an **ATV Spreader** may result in serious personal injury.
- **Dress properly.** Do not wear loose clothing, dangling objects, or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
- **Use safety apparel and equipment.** Use safety goggles or safety glasses with side shields which comply with current national standards, or when needed, a face shield. Use a dust mask if working in dusty work conditions.. This applies to all persons in the work area. Also use non-skid safety shoes, hardhat, gloves, dust collection systems, and hearing protection when appropriate.

## ATV Spreader USE AND CARE

- **Do not modify the ATV Spreader in any way.** Unauthorized modification may impair the function and/or safety and could affect the life of the equipment. There are specific applications for which the **ATV Spreader** was designed.
- **Always check for damaged or worn out parts before using the ATV Spreader.** Broken parts will affect the **ATV Spreader** operation. Replace or repair damaged or worn parts immediately.
- **Do not exceed the ATV Spreader load capacity.**
- **Distribute the load evenly.** Uneven loads may cause the **ATV Spreader** to tip, resulting in personal injury to the operator or others.
- **Use the ATV Spreader on flat and level surfaces** capable of supporting the **ATV Spreader** and its maximum load. Pulling or pushing a load on a slanted or uneven surface can result in loss of control.
- **Store idle ATV Spreader.** When an **ATV Spreader** is not in use, store it in a secure place out of the reach of children. Inspect it for good working condition prior to storage and before re-use.

## STORAGE SAFETY

1. Store the unit in an area away from human activity.
2. Do not permit children to play on or around the stored machine.
3. Wash thoroughly with a strong detergent to remove all chemical residue before storage.

## OPERATING HINTS:

1. Be sure you know the application rate for your machine and material. Calibrate in the field to be sure.
2. Over application can waste material or damage crops. Under application may not give the desired results. This is particularly true when working with chemicals.
3. Wear appropriate protective clothing and eyewear whenever working with chemicals. Even small amounts of a chemical can affect you, animals, or the environment. Follow instructions exactly.
4. Stay 100 feet away from people, animals, and buildings. Stop spreading if anyone comes closer to prevent injury. Particles from the spinner can injure the eyes.
5. Do not travel faster than the ground or terrain conditions will allow.
6. Do not allow riders. Riders can fall off and be injured.
7. Keep hands, feet, hair, and clothing away from moving parts.
8. Place all controls in neutral, stop engine, set park brake, remove ignition key and wait for all moving parts to stop before servicing, adjusting, repairing, or unplugging.
9. Place all ATV and machine controls in neutral before starting.
10. Never start or operate machine unless sitting on seat.
11. Clear the area of bystanders, especially children, before starting.
12. Review safety instructions with all operators annually.

## OPERATING SAFETY

1. All things with moving parts are potentially hazardous. There is no substitute for a cautious, safe-minded operator who recognizes potential hazards and follows reasonable safety practices.
2. The manufacturer has designed this ATV Spreader to be used with all its safety equipment properly attached to minimize the chance of accidents. Study this manual to make sure you have all safety equipment attached.
3. If a safety shield or guard is removed for any reason, it must be replaced before the machine is again operated.
4. When the use of hand tools is required to perform any part of assembly, installation, adjustment, maintenance, repair, removal, or movement, be sure the tools used are designed and recommended by the tool manufacturer for the specific task.
5. Personal protection equipment including hard hat, safety glasses, safety shoes, and gloves are recommended during assembly, installation, operation, adjustment, maintenance, repair, removal, or movement.
6. Always use two people to handle heavy, unwieldy components during assembly, installation, removal or moving.
7. Never place any part of your body where it would be in danger if movement should occur during assembly, installation, operation, maintenance, repair, removal or movement.
8. Never place yourself between the tractor and machine while implement is in operation.
9. A heavy load can cause instability of the ATV. Use extreme care during travel. Slow down on turns and watch out for bumps. The towing vehicle may need front counterweights to counterbalance the weight of the machine.
10. Never use alcoholic beverages, drugs or prescription medications which can hinder alertness or coordination while operating this machine.
11. Do not allow riders on the machine at any time. There is no safe place for any riders.
12. Before you operate the machine, check over all pins, bolts, and connections to be sure all are securely in place. Replace any damaged or worn parts immediately.
13. Do not allow anyone who is not familiar with the safety rules and operation instructions to use this machine.
14. Never allow children to operate or be around this machine.
15. Clear the work area of objects which might be picked up and snagged or entangled in the machine.
16. Keep hands, feet, hair, jewelry, and clothing away from all moving and/or rotating parts.

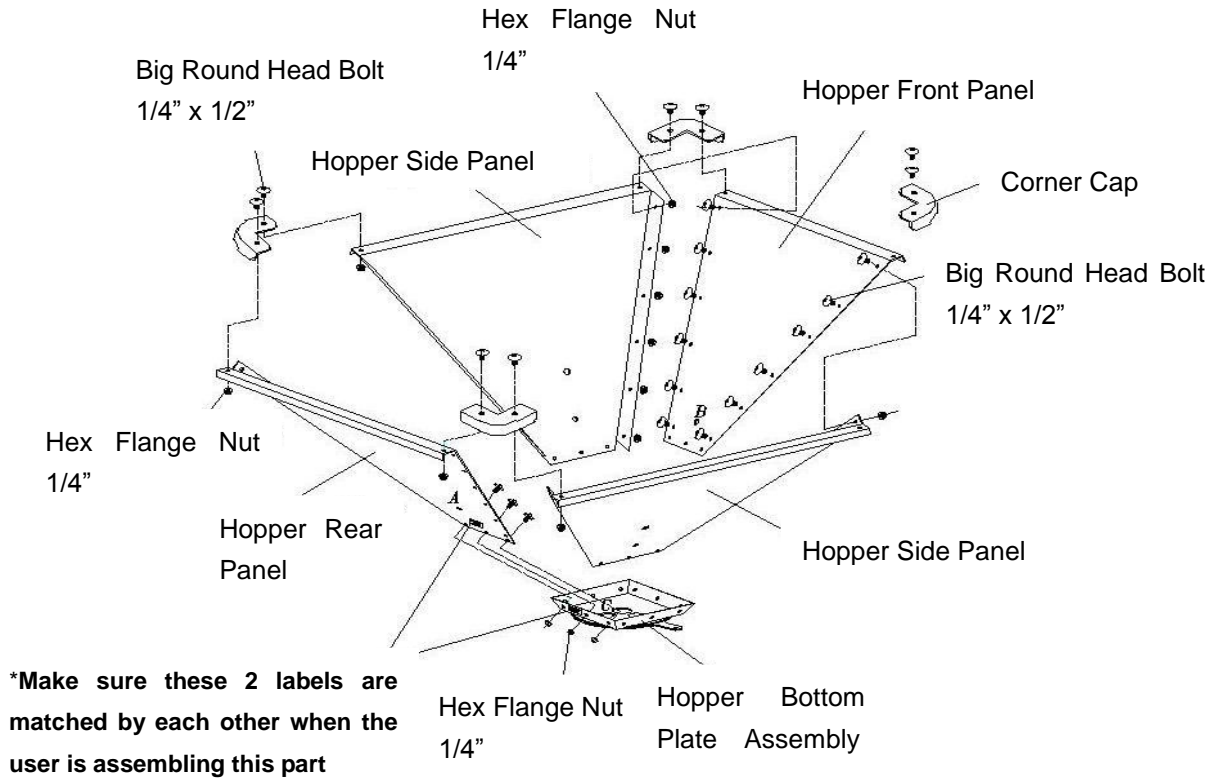
# OPERATING INSTRUCTIONS

## Please Read Instructions Carefully!

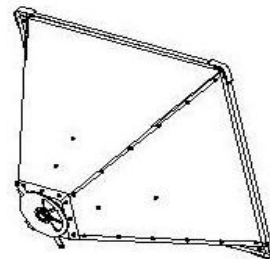
1. Right-hand or left-hand reference is determined by standing at the rear of the seeder/spreader and facing in the direction of travel of the ATV.
2. Check the register of the control lever with the material gate (the opening in the bottom of hopper) With the material gate closed, the control lever should be in its fully raised position. Control lever settings. Listed on the spreader charts are with the adjustable pointer/stop installed below the control lever.
3. DO NOT FILL HOPPER (especially with fertilizer) and transport over long distance, as it may result in packing, causing poor or erratic discharge.
4. FOR BEST RESULTS use pelletized fertilizer, as it has little tendency to lump and causes little or no dust.
5. Be sure to sift or break up lumps found in some types of granular fertilizer before filling hopper.
6. Do not use on windy days, especially when spreading fine grass seed.
7. Be extremely careful if you are spreading herbicides, as there is the possibility of wind of drift or overthrow into areas where serious crop/shrub damage could occur. Always follow instructions on chemical package.
8. Adjust the tension on the control lever so it moves with some resistance, but will remain where you set it. Adjust the adjustable pointer stop so that at the end of the field you can shut the seed gate and, after your turn, re-open to your exact setting.
9. If, by chance, the agitator does become jammed, open the feed gate all the way. By sticking a small rod through the feed gate, the material jamming the agitator can be loosened and removed. After the jam is cleared, reset the feed gate and proceed.

# 350lb SPREADER ASSEMBLY INSTRUCTION

## Step 1



**Note:** Round head of bolts should be inside of the hopper and the nuts should be to the outside of the hopper.

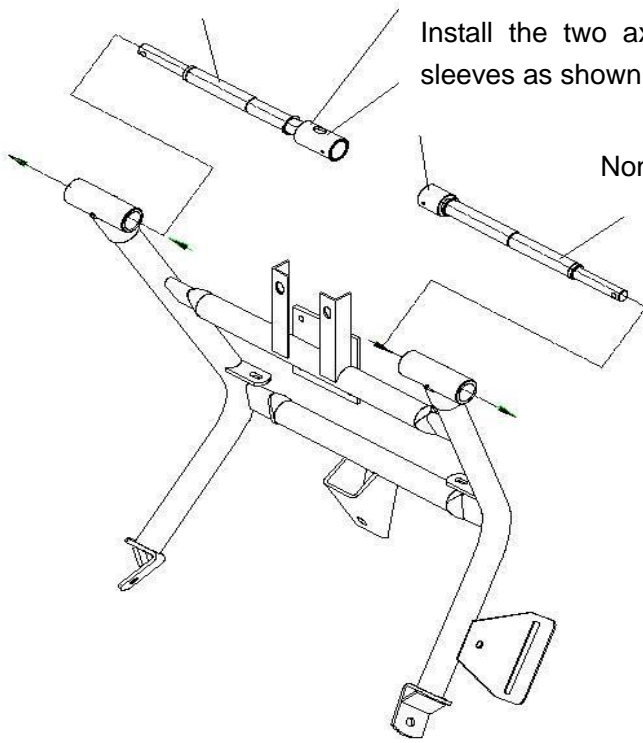


- 1) Assemble the 4 panels with bolts and nuts according to the drawing.
- 2) Assemble the Hopper Bottom Plate with bolts and nuts according to the drawing.
- 3) Assemble the 4 Corner Caps with bolts and nuts, then tighten all the bolts and nuts.
- 4) After assembling the hopper, turn the hopper so that the opening is down for the next assembly steps.

## Step 2

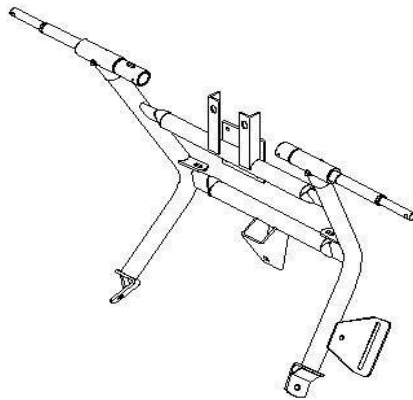
**NOTE:** The axle shaft with the two slots should be assembled on the left according to the Picture.

Driven Axle Shaft Assembly



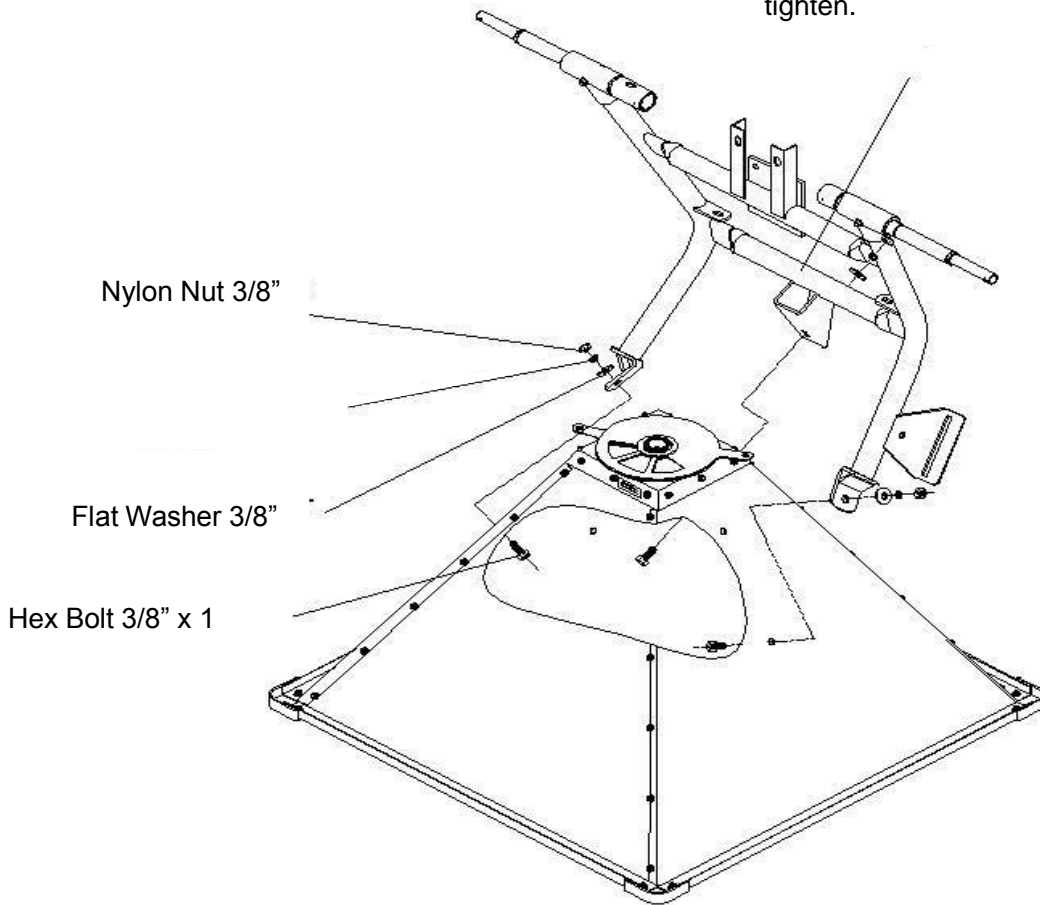
Install the two axle shafts into the bearing sleeves as shown in the picture

Non Driven Axle shaft Assembly

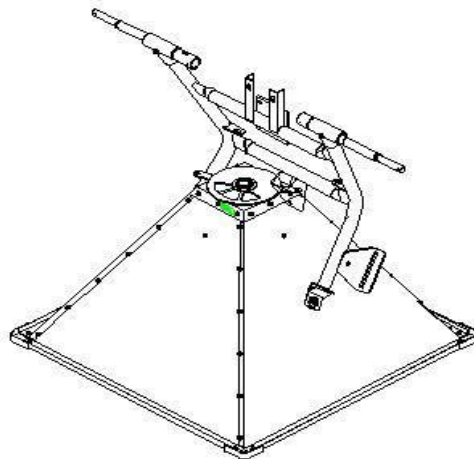


### Step 3

Connect the frame to the Hopper with the bolts as shown in the picture, and then tighten.

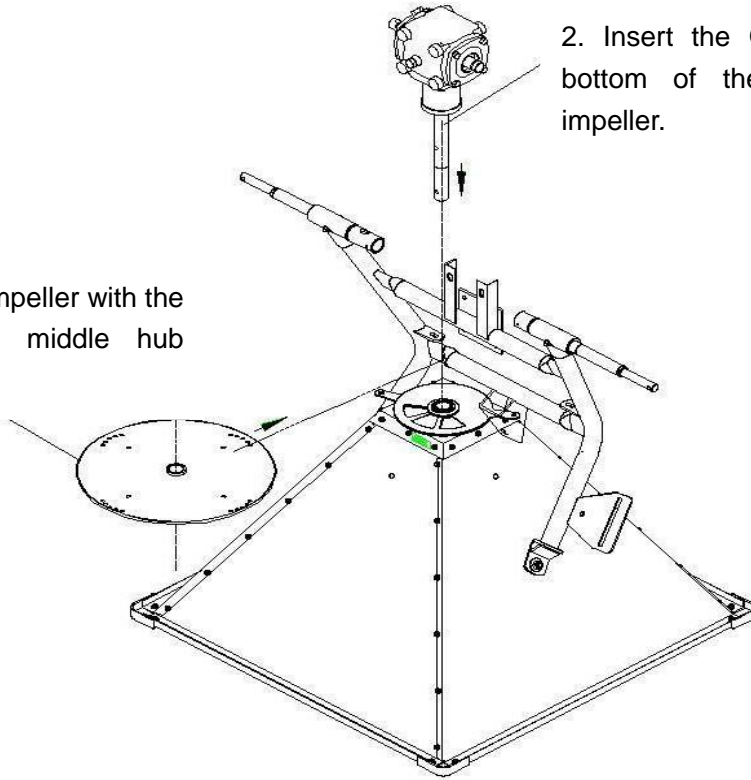


When assembling, place hopper with the open side down as shown in the image below.

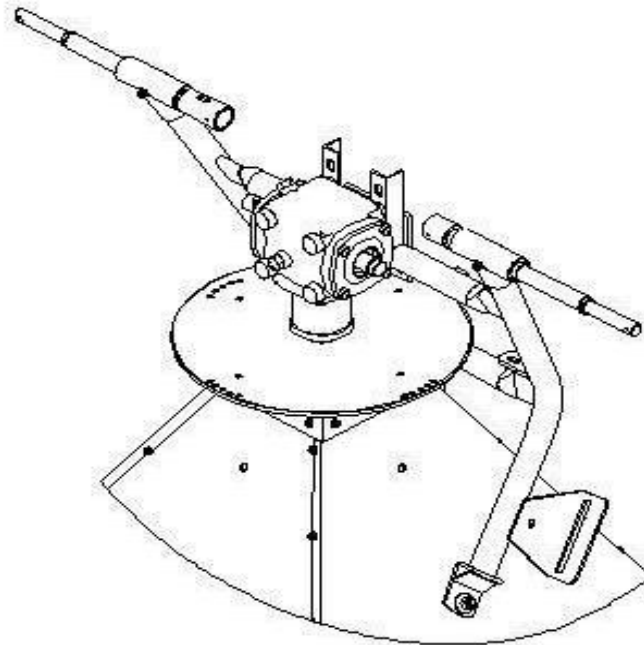


## Step 4

1. Install the Impeller with the long part of middle hub downwards.



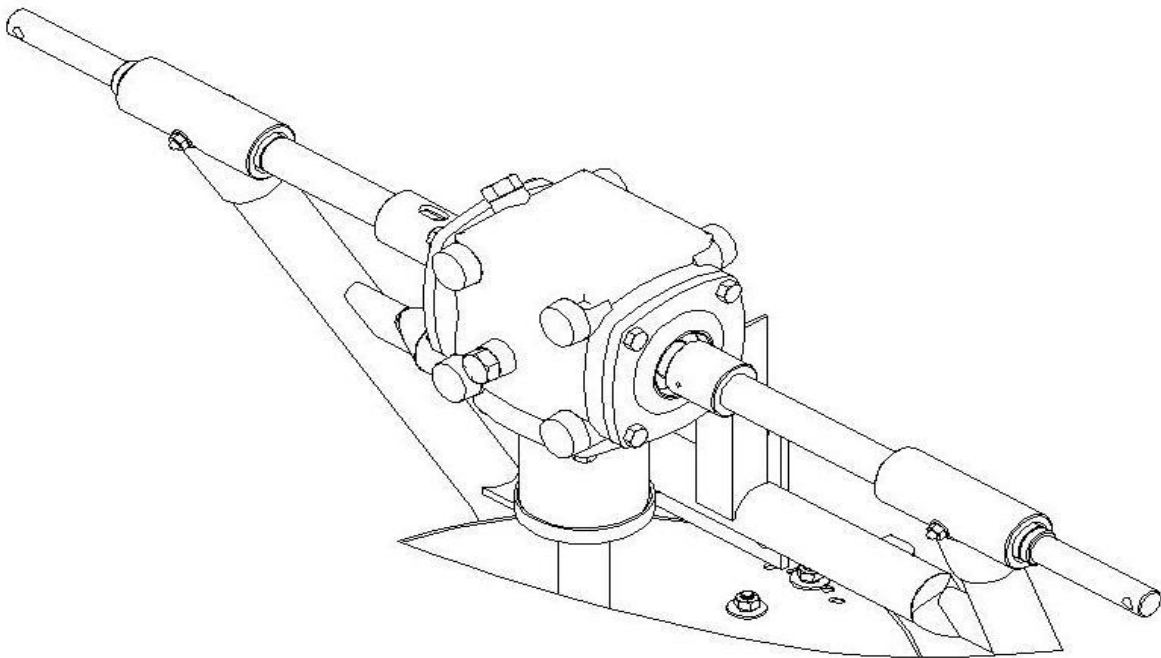
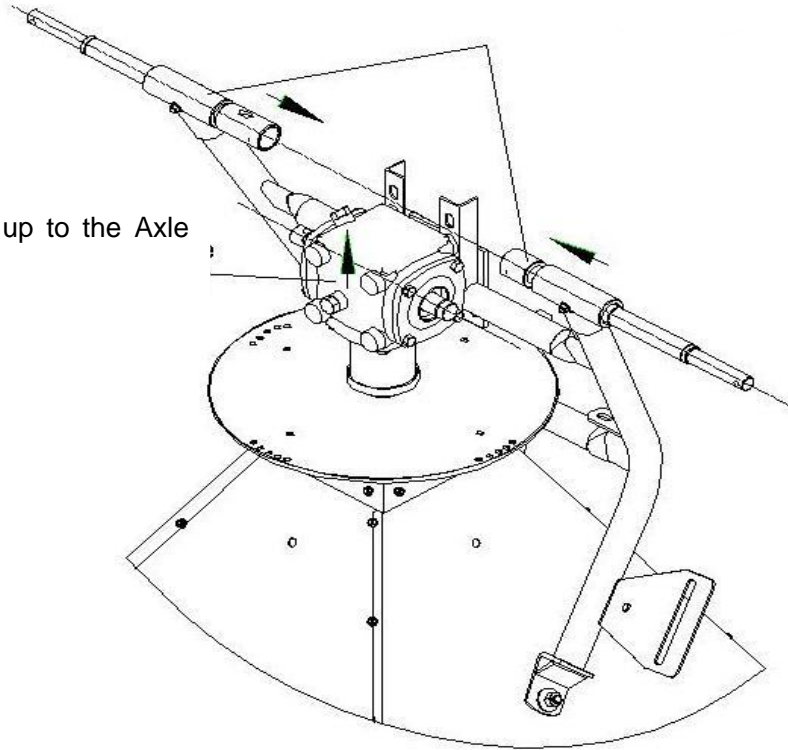
2. Insert the Gearbox Shaft into the bottom of the hopper through the impeller.



## Step 5

2. Insert the two separate Axle Shafts onto the two shafts on the Gearbox.

1. Lift the gearbox up to the Axle Shafts



## Step 6

Align the Gear Box hole and Axle Shaft Hole in the same level, then insert the Safety Pin. (This pin can be removed when transporting the spreader.)

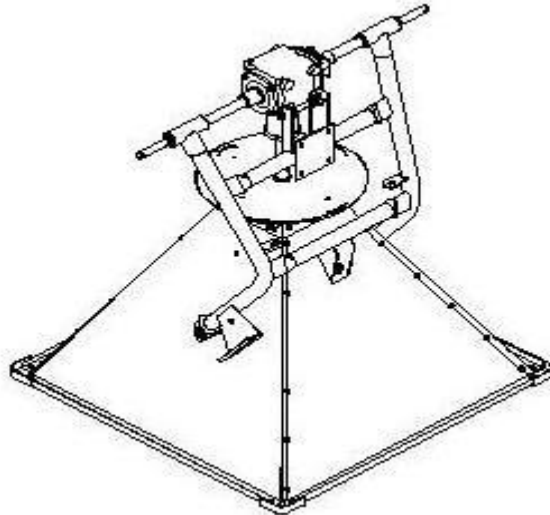
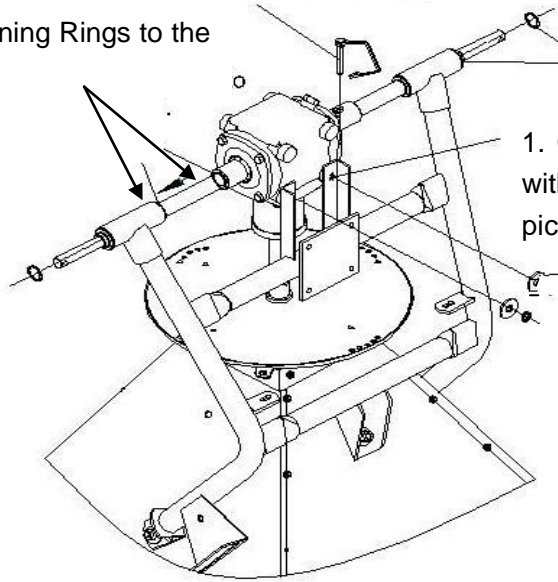
3. Insert 2 Retaining Rings to the inside of Axle.

2. Insert Retaining Ring to the outside of Axle. Repeat on opposite Side.

1. Connect the Gearbox to the Frame with the nuts and washer shown in picture.

Flat Washer 1/2"

Nylon Nut 1/2"

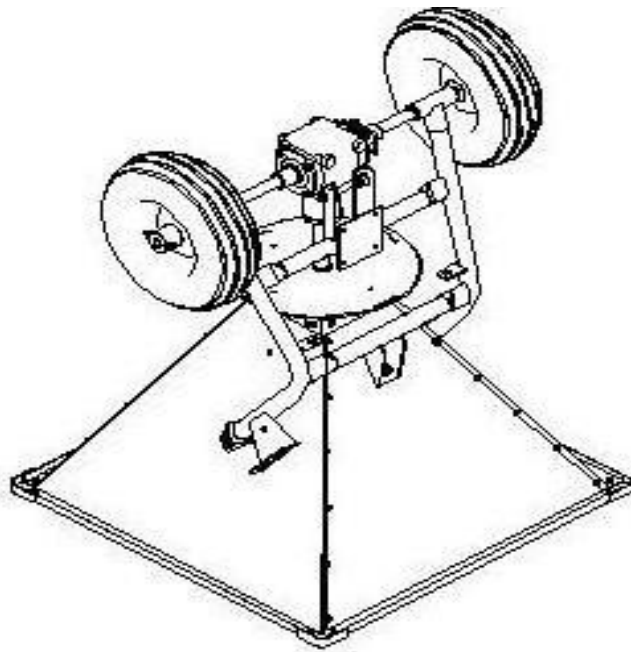
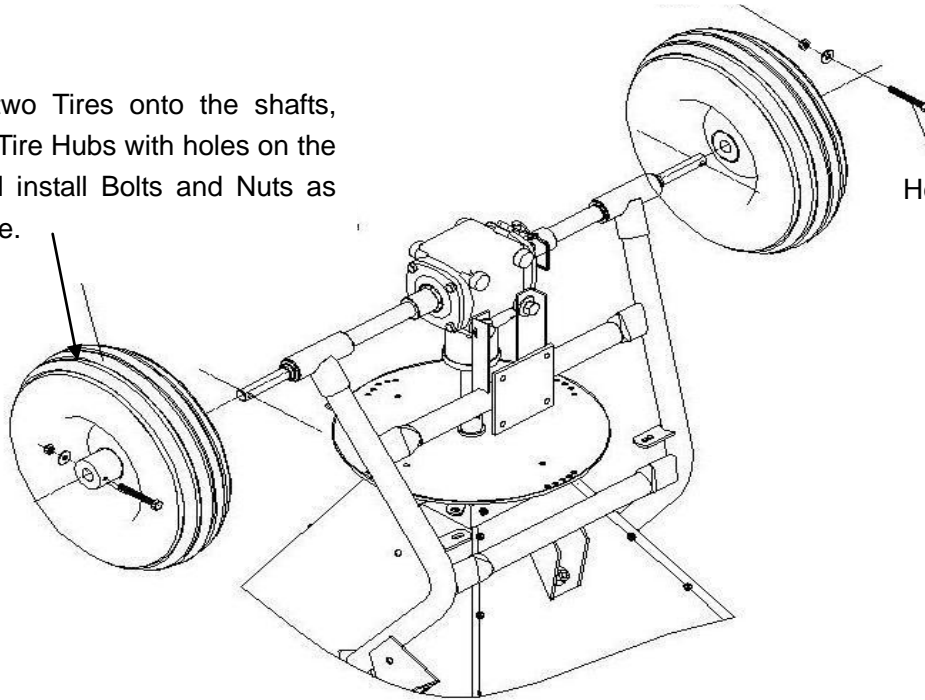


## Step 7

Nylon Nut 5/16"

1. Install the two Tires onto the shafts, Align holes on Tire Hubs with holes on the Axle Shaft and install Bolts and Nuts as shown in picture.

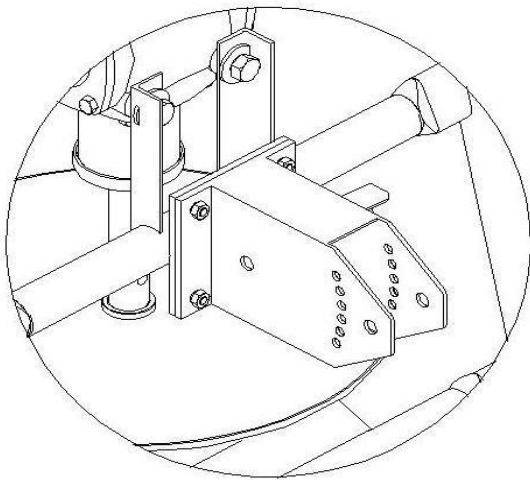
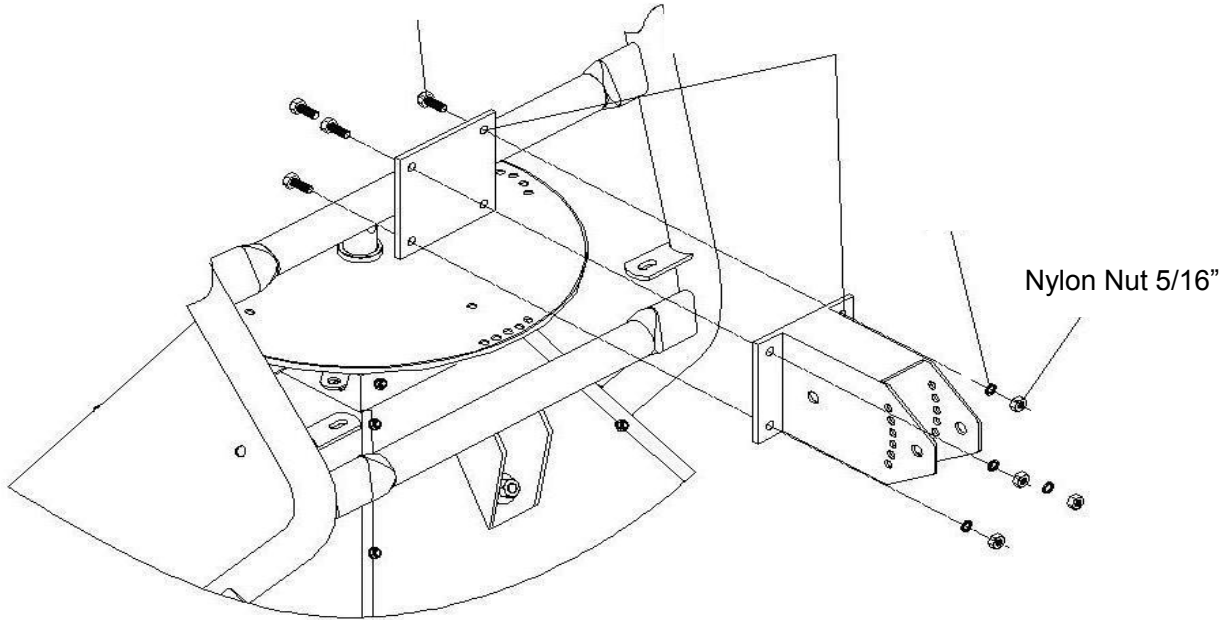
Hex Bolt 5/16" x 2"



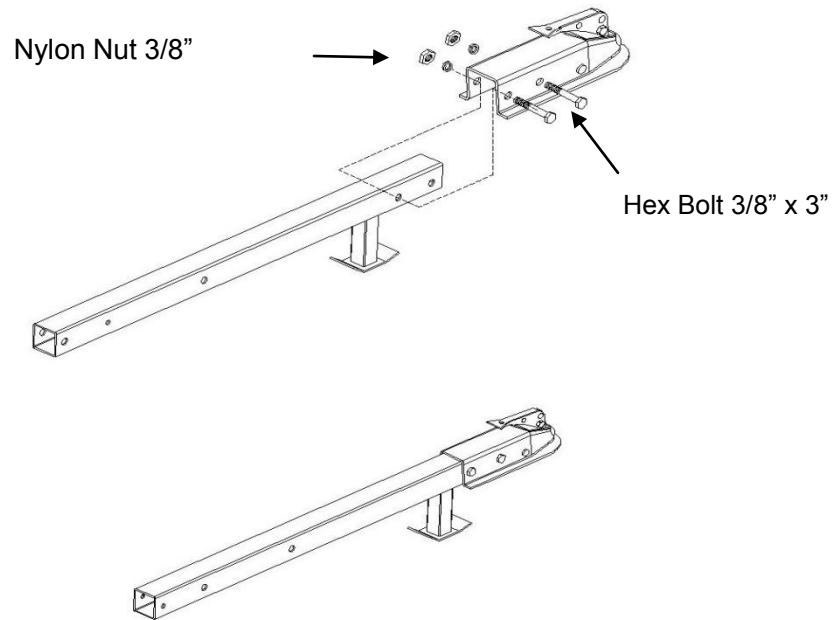
## Step 8

Hex Bolt  
5/16" x 1"

Connect the Adjustable Tongue Mounts to the Frame Mount with the Bolts and Nuts as shown in the picture and tighten.

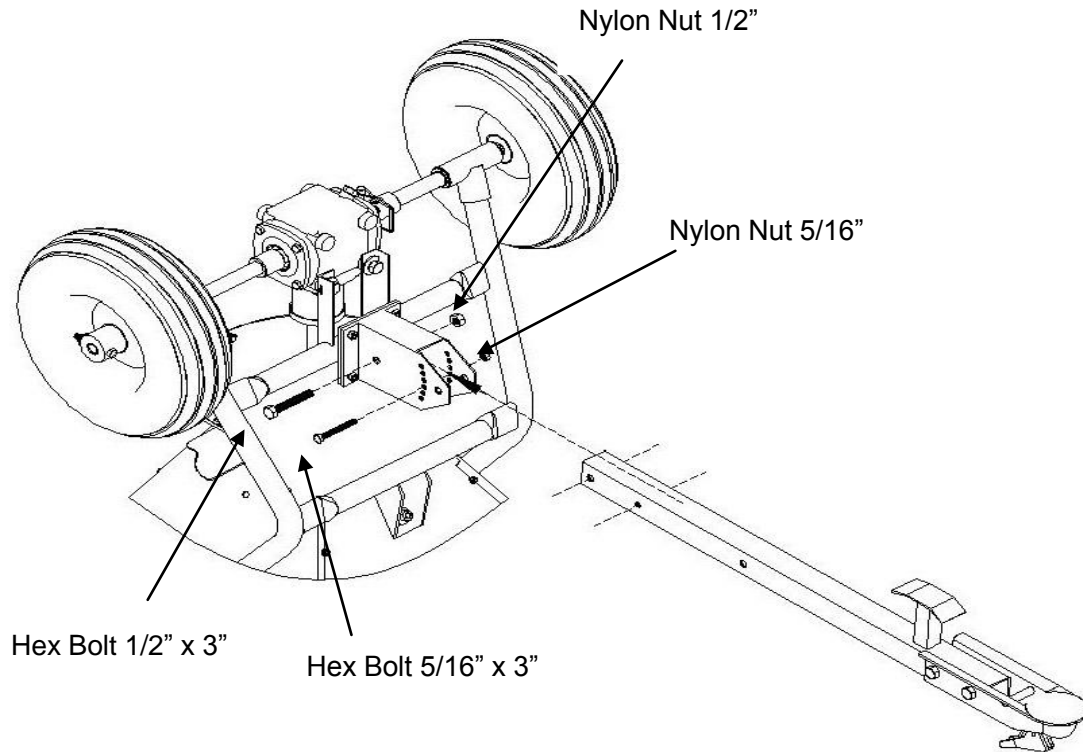


## Step 9

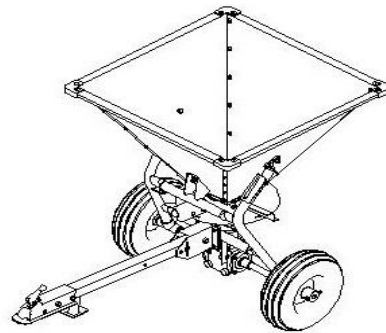


Connect the Coupler to the tow bar with the bolts and nuts as shown in this picture.

## Step 10

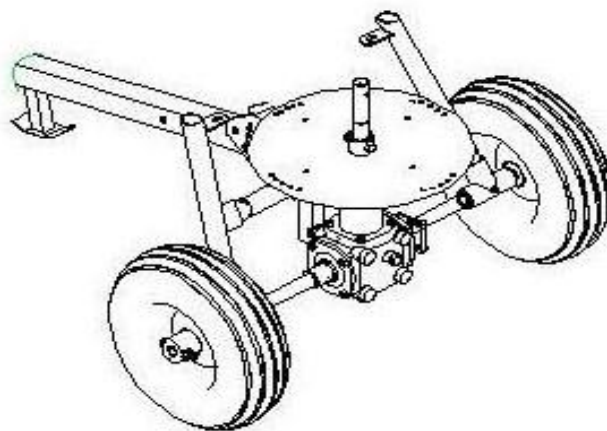
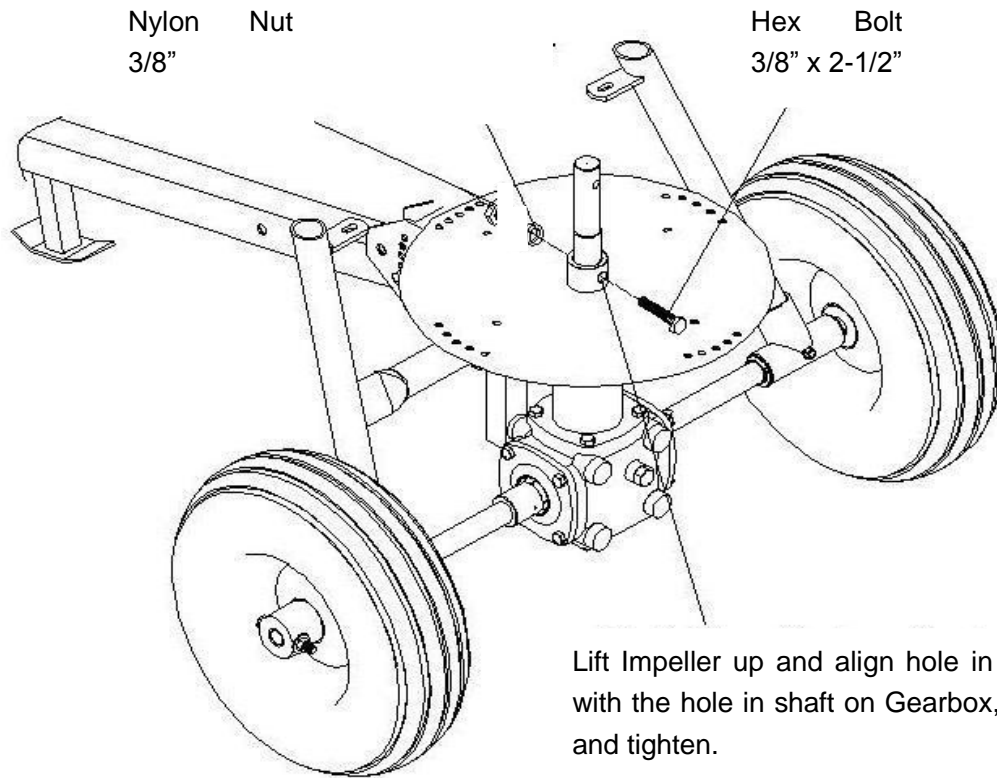


Insert the Tow Bar into the Adjustable Tongue Mount as shown,  
Install Bolts and Nuts, tighten

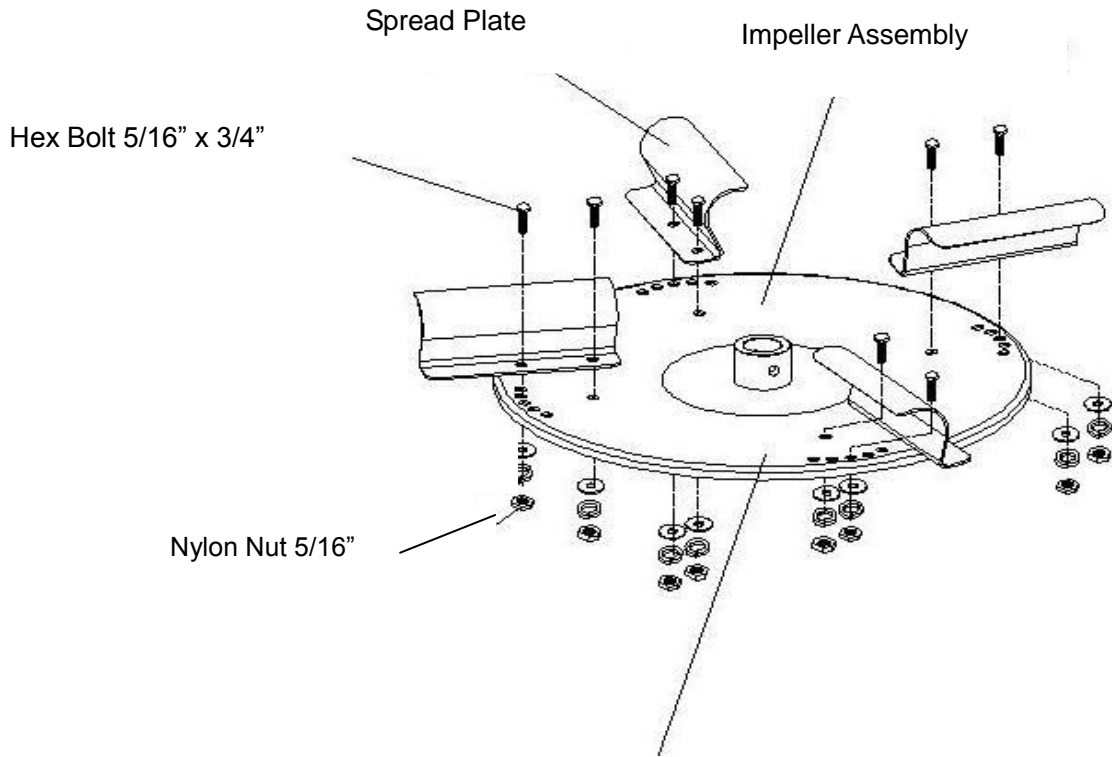


Turn over the spreader and make sure the  
hopper is facing up.

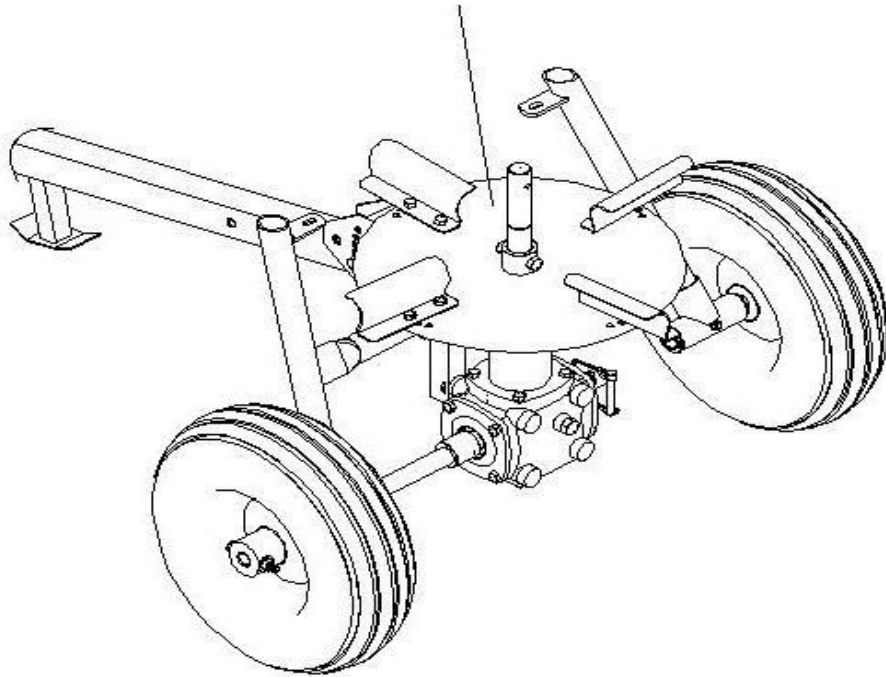
## Step 11



## Step 12

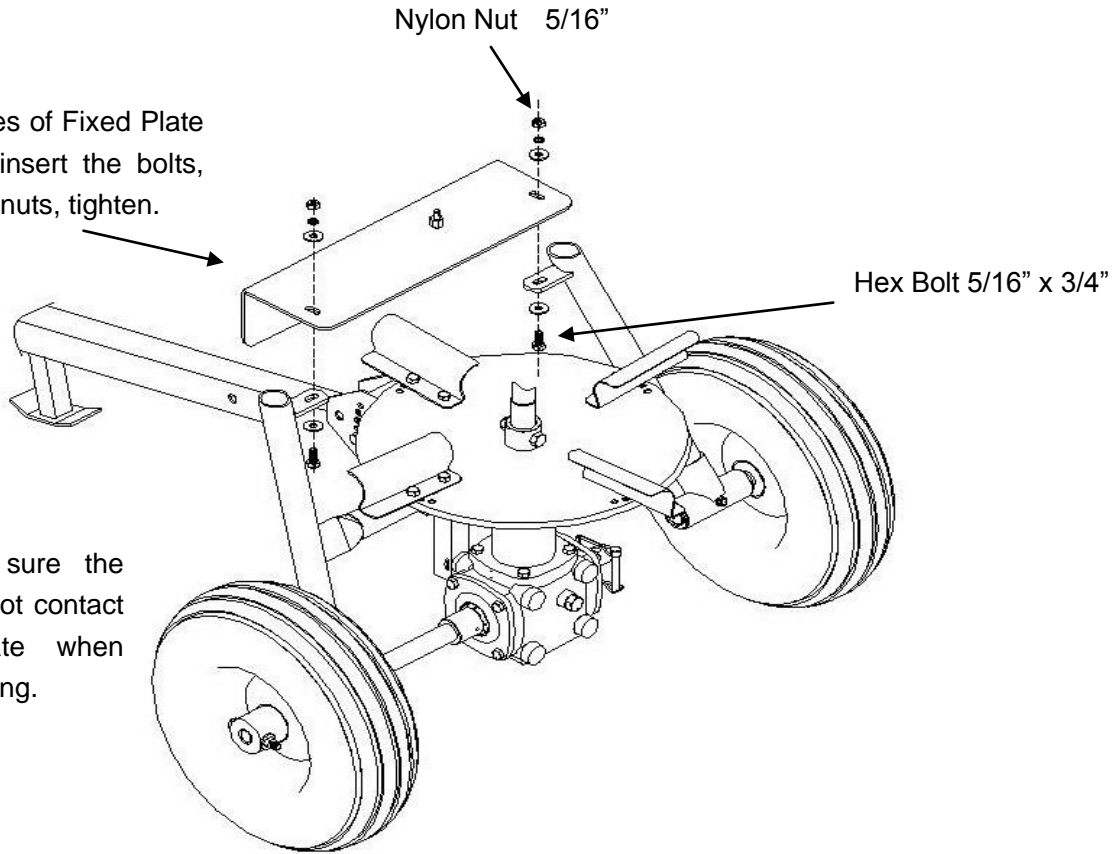


Assemble the Spreader Plate to the Impeller accordingly.  
Then tighten the bolts.

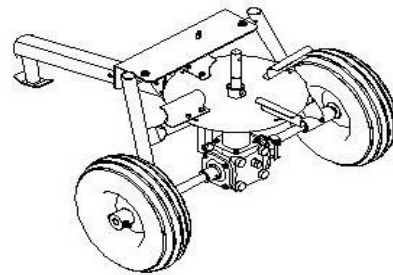


## Step 13

Align the holes of Fixed Plate and Frame, insert the bolts, washers and nuts, tighten.



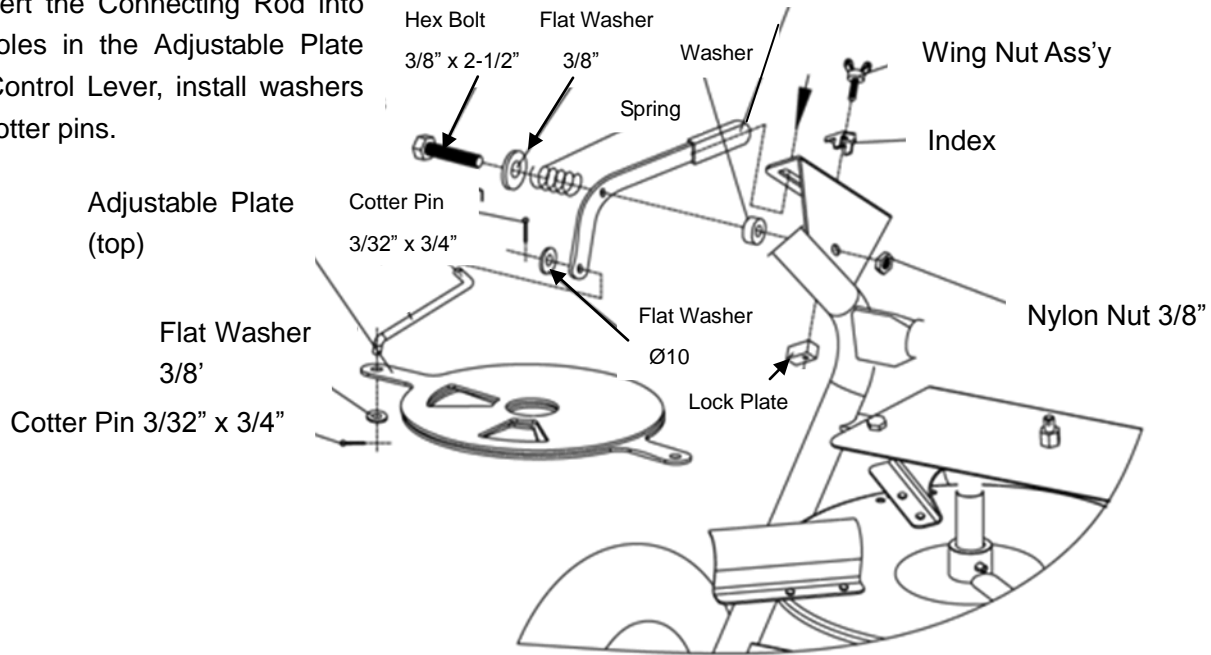
**NOTE:** Make sure the impeller does not contact the fixed plate when impeller is rotating.



## Step 14

1. Insert the Adjustable Handle into the slot according to the picture. Then install bolts, nuts and washers, tighten until handle is tight but can still be moved forward and back. Handle should have some resistance.

2. Insert the Connecting Rod into the holes in the Adjustable Plate and Control Lever, install washers and cotter pins.

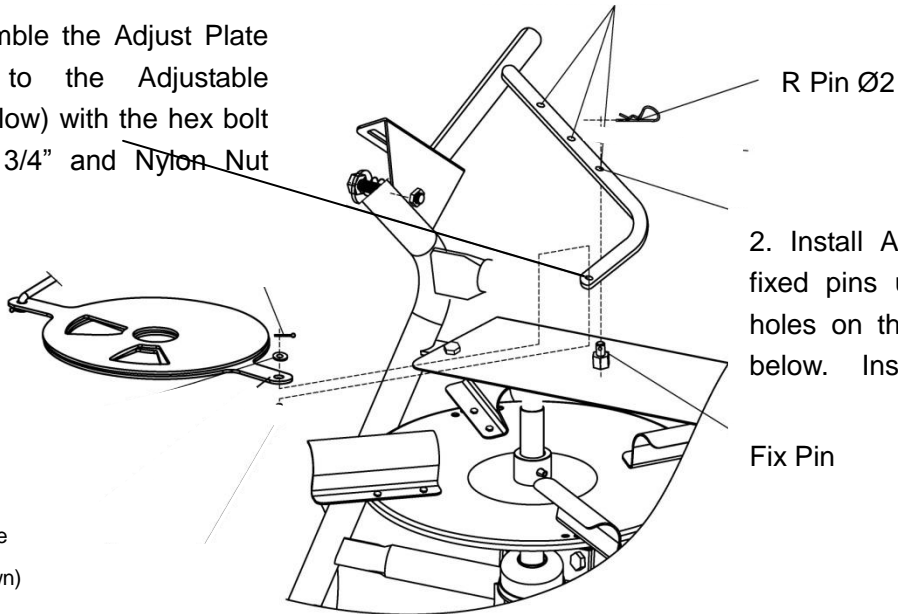


Moving the Adjustable Control Lever up shuts the spreader off.  
Moving the Adjustable Control Lever down allows spreader plates to open up to spread material.

## Step 15

1. Assemble the Adjust Plate (down) to the Adjustable Handle (low) with the hex bolt 5/16" x 3/4" and Nylon Nut 5/16".

Adjustable  
Plate(down)

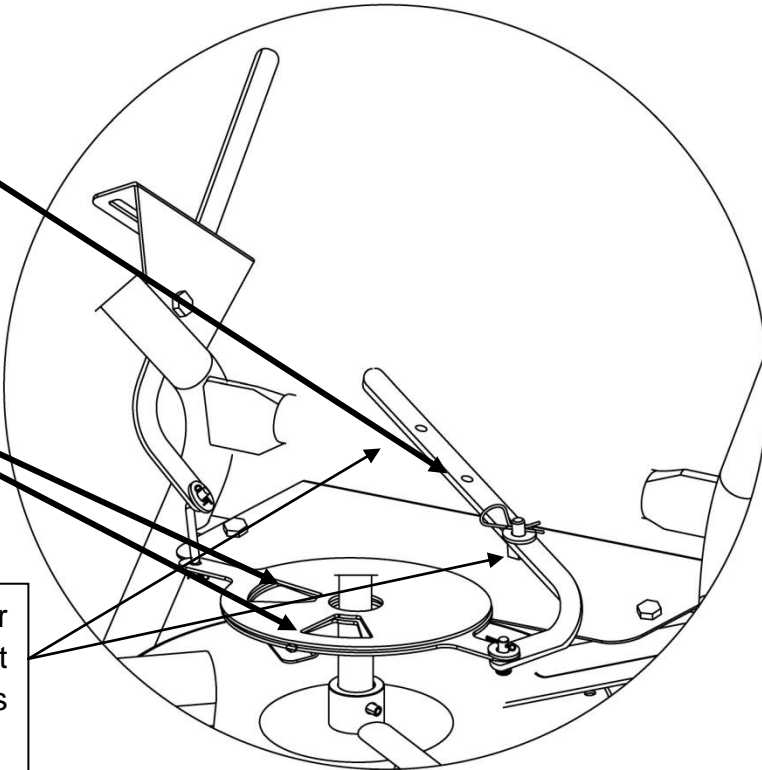


2. Install Adj Handle onto the fixed pins using one of the 3 holes on the adj handle. See below. Install with R pin and

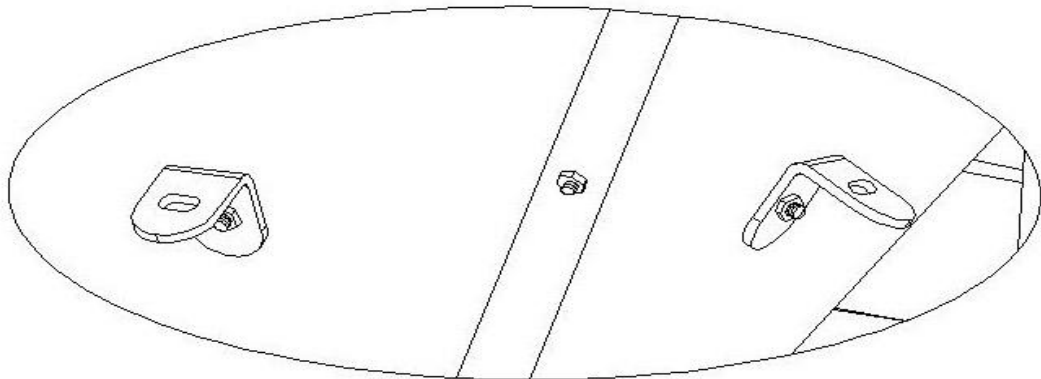
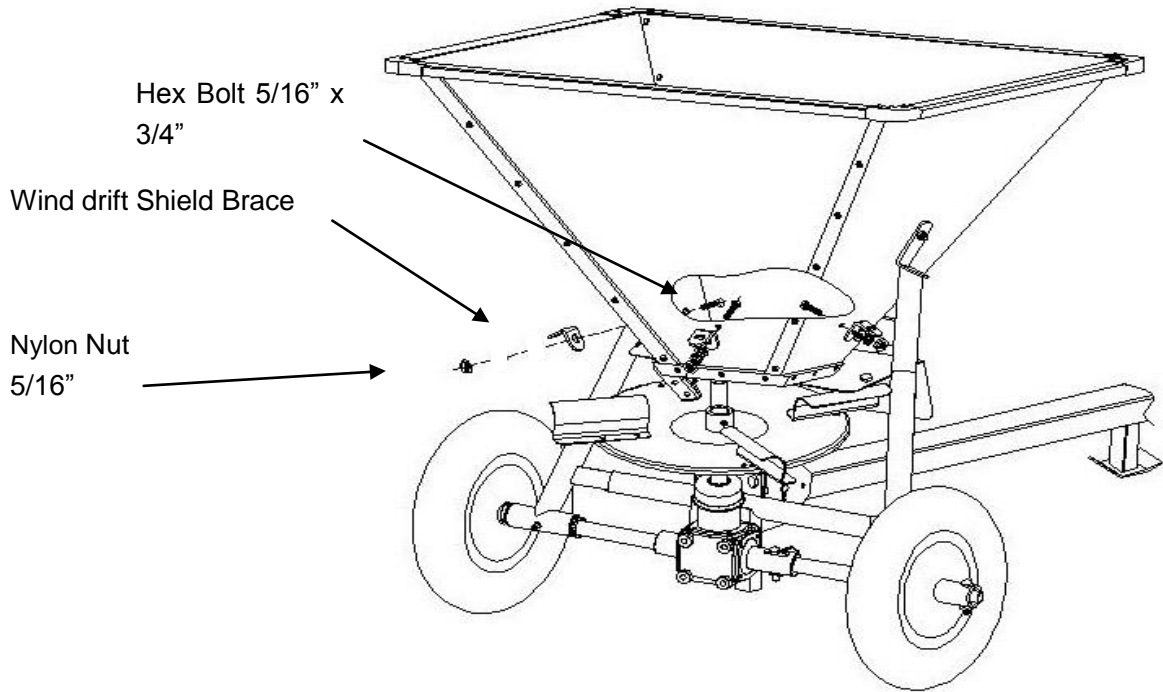
Fix Pin

When using this hole, material will flow out of both openings in the adjustable plates.

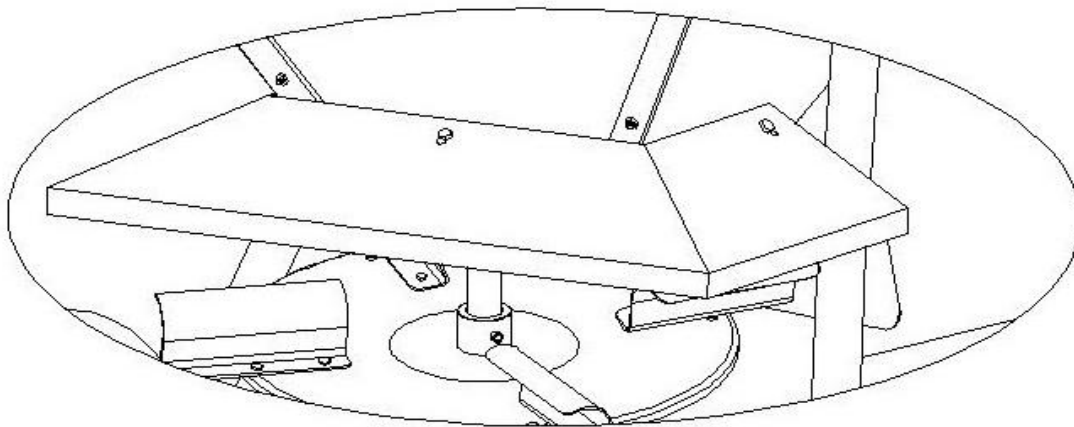
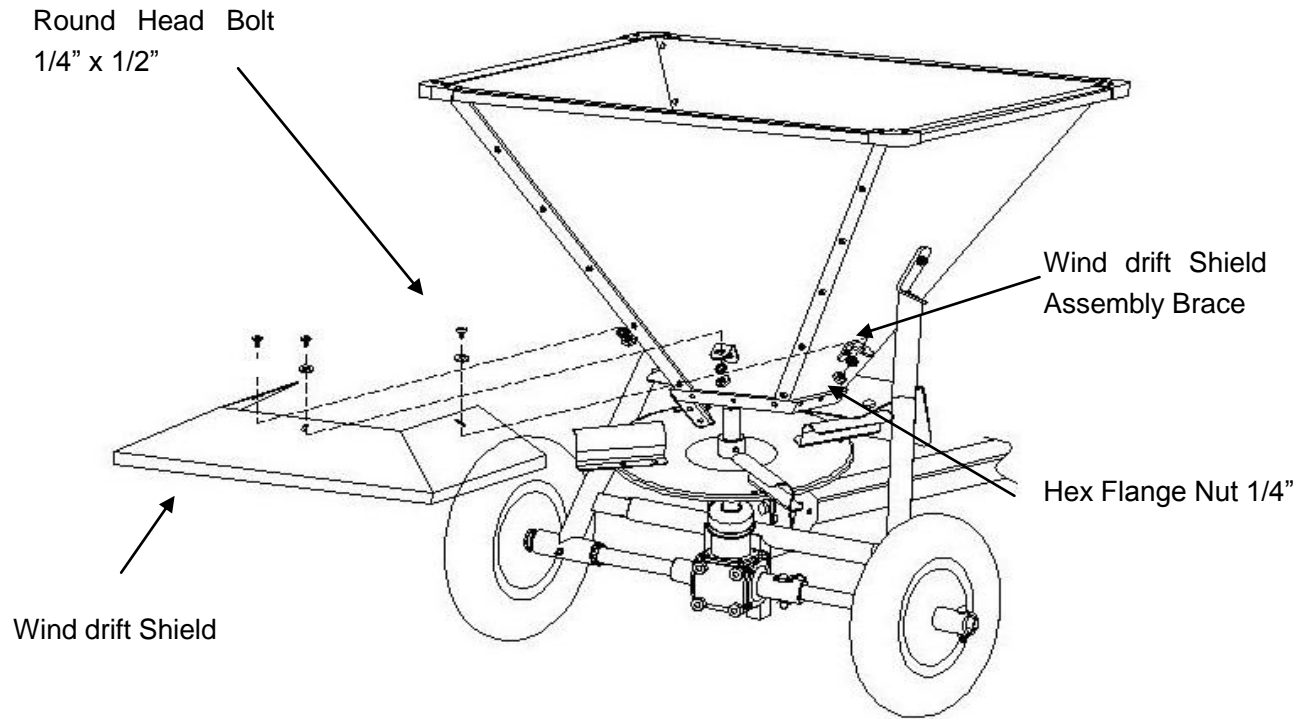
When using one of the outer holes, material will only flow out of one or the other openings in the adjustable plates.



# Step 16



## Step 17



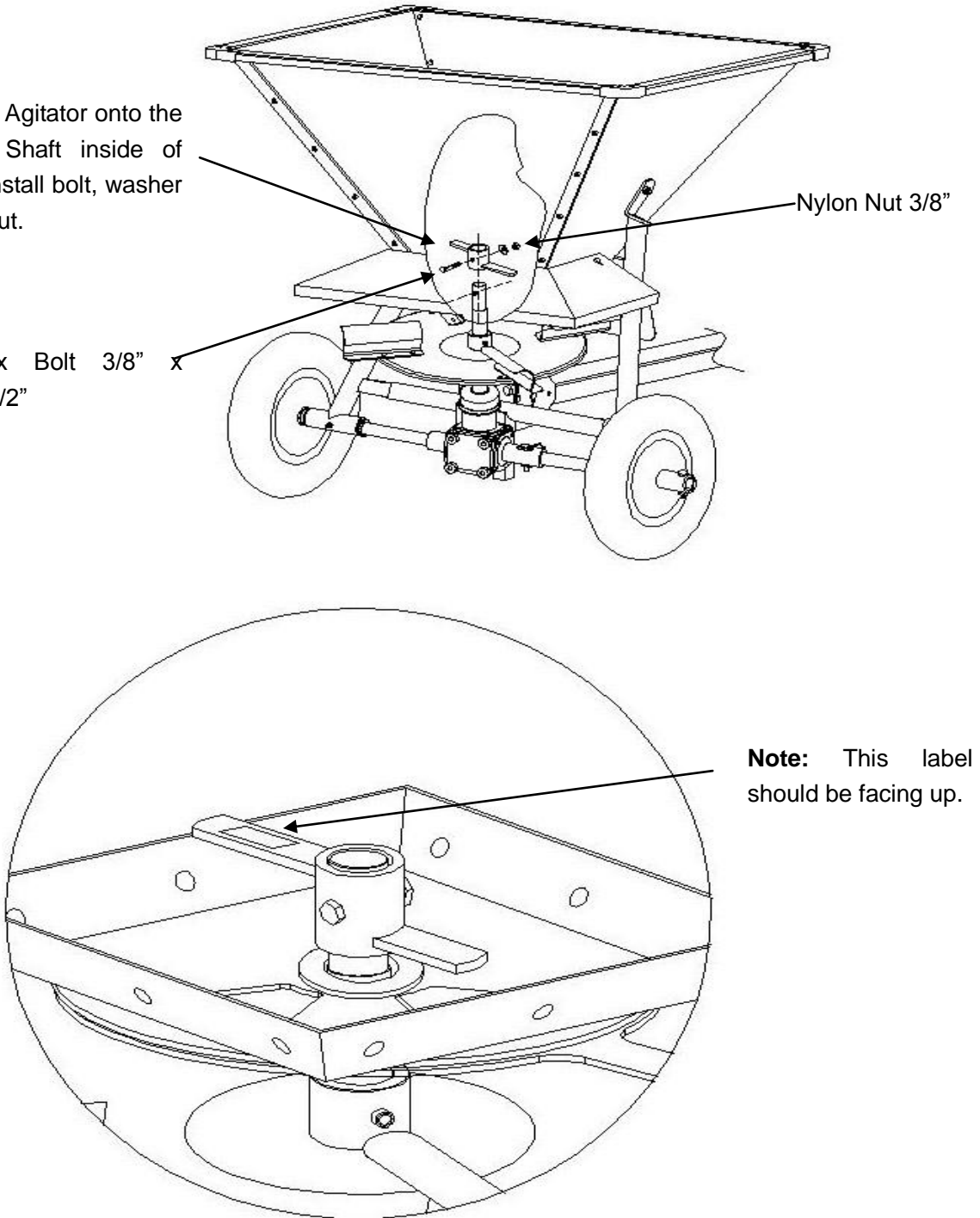
**Tighten all bolts.**

## Step 18

Install the Agitator onto the Gearbox Shaft inside of hopper. Install bolt, washer and locknut.

Hex Bolt 3/8" x 2-1/2"

Nylon Nut 3/8"



**Note:** This label should be facing up.

**Note:** Check Gearbox Lubricant levels to insure the gearbox has sufficient lubrication.

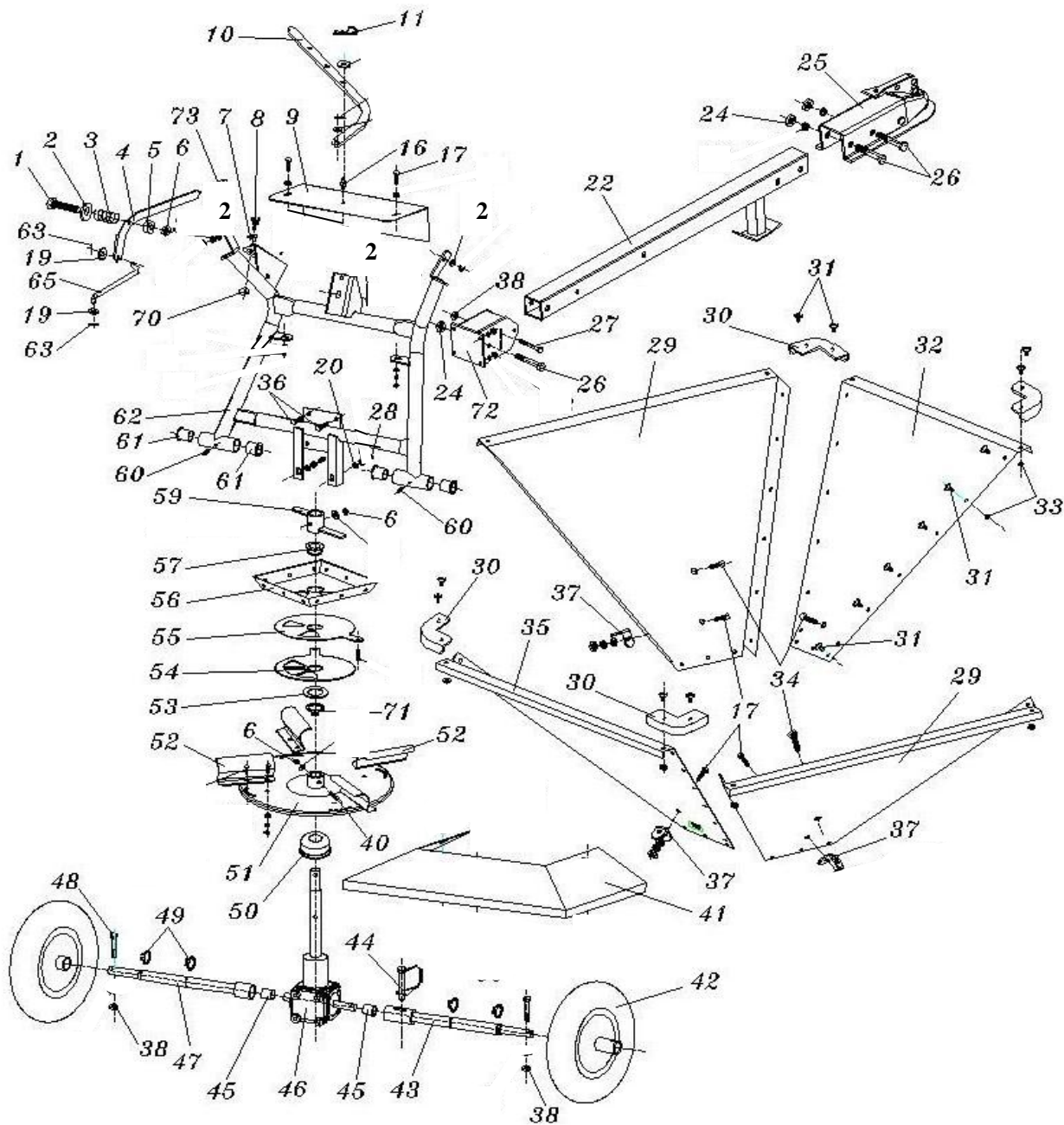
# SPREADING INSTRUCTIONS

1. The opening in the bottom of the hopper is regulated by the control lever. The size of the opening is determined by the calibrated scale. Place the control lever at the desired setting.
2. The spread chart in this manual is an approximate guide based on various forward speeds. For accurate spreading, calibrate your tractor to operate at the desired speed.
3. Check rate chart for suggested setting for material type to be spread.
4. You are now ready to make a trial run to assure accurate results. Close the feed gates and put in a pre-determined amount of the material to be spread. Spread this and check the results. Make final adjustments to obtain desired results.

## Material Spread Chart

MATERIAL	SPREAD WIDTH IN FEET	TRACTOR SPEED (MPH)	POUNDS PER ACRE (APPROXIMATE)							
			AT CONTROL LEVER SETTING INDICATED							
			0.5	1	2	3	4	5	6	7
<b>Alfalfa &amp; Clover</b>	24'	4	18	62	153					
		5	14	51	124					
		6	12	42	103					
		7.5	10	34	88					
<b>Barley</b>	26'	4				94	117	139	196	
		5				76	94	112	157	
		6				63	78	92	130	
		7.5				50	62	74	105	
<b>Bluegrass &amp; Bermude Grass</b>	17'	4			27	94				
		5			21.5	58.5				
		6			17.5	54				
		7.5			14	31				
<b>Brome Grass</b>	9.5'	4	9	15.5	25					
		5	8	12	19.5					
		6	6.5	10	15					
		7.5	5	8	13					
<b>Fescue &amp; Ryegrass</b>	17'	4		14	44	104				
		5		12	35	77				
		6		10	29	64				
		7.5		8	23	51				
<b>Lespedeza</b>	30'	4	6.5	14	29					
		5	4.5	12	23					
		6	4	10	19.5					
		7.5	3	8	15.5					
<b>Oats</b>	26'	4				59	92	170		
		5				47	74	137		
		6				39	62	113		
		7.5				31	49	91		
<b>Orchard Grass</b>	11'	4			18	27				
		5			14	22				
		6			12	18				
		7.5			9	14				
<b>Rice</b>	31'	4				113	182	329		
		5				91	146	264		
		6				75	121	220		
		7.5				61	98	176		
<b>Rye</b>	31'	4				112	176	242	295	
		5				90	142	194	237	
		6				74	117	161	196	
		7.5				60	94	129	157	
<b>Sudan Grass</b>	31'	4			48	75	120			
		5			39	61	96			
		6			33	51	79			
		7.5			26	40	64			
			19							
<b>Soybeans</b>	38'	4					105	165	195	221
		5					85	133	156	177
		6					71	111	130	147
		7.5					56	88	104	117
<b>Timothy</b>	15'	4	18	62	153					
		5	14	51	124					
		6	12	42	103					

# DIAGRAM & PARTS LIST



## Parts List

Ref #	Description	QTY	Ref#	Description	QTY
1	Hex Bolt 3/8" x 3"	2	38	Nylon Nut 5/16"	22
2	Flat Washer 3/8"	4	40	Hex Bolt 3/8" x 2-1/2"	3
3	Spring	1	41	Shield Cap	1
4	Adjustable Handle (top)	1	42	Wheel	2
5	Washer	1	43	Initiative Axle Shaft Assembly	1
6	Nylon Nut 3/8"	8	44	Safety Pin	1
7	Index	1	45	Composite Bearing	2
8	Wing Nut Assembly	1	46	Gear Box Assembly	1
9	Fixed Plate	1	47	Driven Axle Shaft Assembly	1
10	Adjustable Handle (low)	1	48	Hex Bolt 5/16" x 2"	2
11	2 mm R Pin	2	49	Lock Retaining Ring Cap Ø25	4
16	Handle Fix Pin	1	50	Dust Cover	1
17	Hex Bolt 5/16" x 3/4"	14	51	Impeller Assembly	1
19	Flat Washer Ø10	4	52	Spread Plate	4
20	Flat Washer Ø12	2	53	Flat Washer Ø40	1
22	Hitch Tongue	1	54	Adjust Plate (down)	1
24	Nylon Nut 1/2"	3	55	Adjust Plate (Top)	1
25	Coupler	1	56	Hopper Bottom Plate	1
26	Hex Bolt 1/2" x 3	1	57	Axle Bush	1
27	Hex Bolt 5/16 x 3"	1	59	Agitator	1
28	Hex Bolt 1/2" x 1-1/4"	2	60	Oil Cup	2
29	Hopper Side Panel	2	61	Bearing	4
30	Corner Cap (Front)	4	62	Frame Assembly	1
31	Round Head Bolt 1/4" x 1/2"	47	63	Cotter Pin 3/32" x 3/4"	2
32	Hopper Side Panel	1	65	Connecting Shaft	1
33	Hex Flange Nut 1/4"	47	70	Lock Plate	1
34	Hex Bolt 3/8" x 1"	3	71	Lock Retaining Ring Cap Ø40	1
35	Hopper Rear Panel	1	72	Adjustable Plate	1
36	Hex Bolt 5/16" x 1"	4	73	Handle Grip	1
37	Shield Brace	3			

For replacement parts and technical questions, please call **1-218-943-6296**.

## **WARRANTY**

**One-year limited parts warranty**



TG  
PO BOX 203  
Miltona, MN 56354

Made in Taiwan