

# ***Ezee-On***

**MODEL  
1225-1275-1375  
OFFSET DISCS**

## **OWNER'S MANUAL**

**c/w**

**Assembly Instructions  
Operating Instructions  
and  
Parts List**

Manufactured by  
**Ezee-On Manufacturing**  
Vegreville, Alberta Canada

728H

Printed in Canada

## INTRODUCTION

Thank you for deciding to purchase this Ezee-On manufactured product. In addition to having the traditional performance values of simplicity, reliability and durability, your new implement has been designed with a number of operational and safety features. We urge you to familiarize yourself with the operation and maintenance of this implement by reading this Manual carefully.

Remember that it is the responsibility of the operator to ensure that the implement is field ready. Should you encounter a problem however, please contact your dealer immediately.

This Manual contains the following:

- Assembly Instructions
- Operating (field) Instructions
- Parts listing



READ THIS BOOK CAREFULLY TO ENSURE THAT YOUR NEW DISC IS ASSEMBLED AND ADJUSTED CORRECTLY.

**RIGHT and LEFT is determined by standing behind the machine and facing FORWARD in the direction of travel.**



**This symbol is used to identify safety messages. When you see this symbol, read the safety message carefully.**

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Ezee-On Manufacturing reserves the right to make any changes in design, materials, prices and/or specifications without notice and without liability. Specifications and limited warranties are applicable to products manufactured for sale in North American and may vary outside this area.



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## Offset Disc Pre-Delivery Inspection/ Warranty Registration

Dealer Name \_\_\_\_\_ Location \_\_\_\_\_ Delivery Date: \_\_\_\_\_  
mm dd yyyy

Model \_\_\_\_\_ Width \_\_\_\_\_ Serial # \_\_\_\_\_  New Machine  Demo  
 Unit \_\_\_\_\_

### Items for Dealership technician to inspect prior to delivery:

- |   |  |
|---|--|
| <input type="checkbox"/> Torque all wheel bolts/ lug nuts to specifications   | <input type="checkbox"/> Check Operator's Manual to ensure all decals are correctly installed            |
| <input type="checkbox"/> Check tire pressures are correct. (Affects leveling process)   | <input type="checkbox"/> Connect Disc to tractor with a suitable pin and then lift the hitch jack        |
| <input type="checkbox"/> Level machine. Refer to Operator's Manual for detailed instructions  | <input type="checkbox"/> Check hydraulic hoses are leak free and hydraulic cylinders are filled with oil |
| <input type="checkbox"/> Lubricate the entire machine as recommended in the Operator's Manual   | <input type="checkbox"/> Adjust mounted harrows as required (if equipped)                                |
| <input type="checkbox"/> Check tightness of all bolts   | <input type="checkbox"/> Check lateral (side-to-side) settings of front & rear gangs and hitch tongue    |
| <input type="checkbox"/> Check the correct # of depth stops are installed on mounting bar. (5)<br><small>(*Model 8550 Offset takes (8) depth stops)</small> | <input type="checkbox"/> Check all electrical components and connections                                 |
| <input type="checkbox"/> Set front and rear gangs at medium angle   | <input type="checkbox"/> Check operation of safety lights to ensure they function properly               |
| <input type="checkbox"/> Adjust scrapers so they come into contact with blades  | <input type="checkbox"/> Ensure hydraulic lockout valves function properly                               |

Pre-Delivery completed by \_\_\_\_\_ (signature) Date \_\_\_\_\_  
mm dd yyyy

### Items for Dealership staff to discuss with customer upon delivery:

- |   |  |
|---|--|
| <input type="checkbox"/> Give the Operator's Manual to your customer  | <input type="checkbox"/> Connect hydraulics, wiring harness, safety chain, etc.  |
| <input type="checkbox"/> Inform your customer of all safety precautions, maintenance procedures, and proper operation of the Disc | <input type="checkbox"/> Ensure machine functions properly. (Fold/Unfold, no leaks, lights work, etc)  |
| <input type="checkbox"/> Verify correct serial number   | <input type="checkbox"/> Take the Disc to a field (preferably where the ground is level, if possible) and perform all required leveling adjustments. <b>Follow the Operator's Manual</b> |
| <input type="checkbox"/> Attach Disc to tractor   | <input type="checkbox"/> Explain warranty and fill out registration  |
| <input type="checkbox"/> Ensure hitch jack is in transport position   | <input type="checkbox"/> Start tractor and run all controls so your customer understands the correct operation of the Disc and ensure all functions of the Disc are working properly     |

### Warranty Registration

Owner's Name \_\_\_\_\_ Address \_\_\_\_\_ Town \_\_\_\_\_  
 Province/ State \_\_\_\_\_ Country \_\_\_\_\_ Postal/ Zip Code \_\_\_\_\_  
 Home Phone # \_\_\_\_\_ Cell Phone # \_\_\_\_\_ Email Address \_\_\_\_\_

\*The owner hereby acknowledges receipt of the Operator's Manual and that all delivery checks have been completed as listed above. Owner furthermore acknowledges that the Operator's Manual is an integral part of the purchased equipment and it contains information important to the proper operation, maintenance, and safety procedures of this machine.

Owner's signature \_\_\_\_\_ Date \_\_\_\_\_  
mm dd yyyy

Dealer's signature \_\_\_\_\_ Date \_\_\_\_\_  
mm dd yyyy

Mail or Fax the original copy of this Warranty Registration and Pre-Delivery/Delivery Inspection to Ezee-On Manufacturing immediately after delivery.  
**Warranty Registration is mandatory. Failure to complete and return this form will delay the processing of warranty claims**

# EZEE-ON MANUFACTURING

## Limited Warranty Policy

### NORTH AMERICA

Ezee-On Manufacturing's products are warranted to the original non-commercial purchaser to be free from defects in material and workmanship for a minimum period of twelve (12) months from the original date of purchase.

Ezee-On Manufacturing's obligation under this warranty shall be limited to the repair or exchange, at Ezee-On's option, free of charge to the original purchaser, any part or component that, in our judgment, shows evidence of such defect. Further, that such part shall be returned within thirty (30) days from date of failure to Ezee-On Manufacturing, routed through the dealer and distributor from whom the equipment was purchased, **transportation charges prepaid**.

This warranty shall not be interpreted to render Ezee-On Manufacturing liable for injury or damages of any kind or nature to person or property. This warranty does not include claims for, or extend to the loss or damage of crops, loss because of delay in seeding/ planting or harvesting, or any expense or loss incurred for labor, substitute machinery, rental, transportation expense or for any other reason.

Except as set forth above, Ezee-On Manufacturing shall have no obligation or liability of any kind on account of any of its equipment and shall not be liable for special or consequential damages. Ezee-On Manufacturing makes no other warranty, expressed or implied, and, specifically, Ezee-On Manufacturing disclaims any implied warranty or merchantability or fitness for a particular purpose. The purchaser is solely responsible for determining suitability of Ezee-On equipment purchased. This warranty is subject to any existing conditions of supply, which may directly affect our ability to obtain materials or manufacture replacement parts.

Ezee-On reserves the right to make improvements in the design of products and/or changes in specifications at any time, without incurring any obligation to owners of units previously sold. No one other than Ezee-On Manufacturing is authorized to alter, modify or enlarge this warranty.

Genuine Ezee-On replacement parts and components will be warranted for 90 days from date of purchase, or the remainder of the original equipment warranty period, whichever is longer.

Under no circumstances will this warranty cover any merchandise or components thereof, which, in the opinion of the Company, has been subjected to misuse, unauthorized modifications, alteration, an accident or if repairs have been made with parts other than those obtainable through Ezee-On Manufacturing.

**Commercial Use:** Warranty for commercial, rental or custom use of any Ezee-On product is limited to 90 days, parts and labor.

#### **Twelve Months Warranty:**

All Ezee-On manufactured products are warranted for twelve consecutive months from the date of delivery of the new Ezee-On product to the original non-commercial purchaser.

- 1-12 Months: 100% parts and labor coverage

### **Extended Coverage Limited Warranty (24 additional months):**

Air Drills, Coulters, Air Carts, Cultivators, Chisel Plows, Offset and Tandem Discs and Post Drivers carry limited extended warranty. Ezee-On Manufacturing's obligations under this extended warranty coverage shall be limited to repair or exchange, at Ezee-On Manufacturing's option, for the original, non-commercial owner:

- 13-24 Months: 100% Ezee-On manufactured components only, NO labour – see below for description
- 25-36 Months: 50% Ezee-On manufactured components only, NO labour – see below for description

Ezee-On manufactured components are, but not limited to: frames, axles, hitches, castor assemblies, packers, turnbuckles, rockshafts, packer frames, packers, air cart seed and fertilizer tanks, seed cups, metering rollers, augers, harrows, etc.

NON Ezee-On manufactured components are, but not limited to: monitors, tires, rims, disc blades, bearings, hydraulic motors, pumps & controls, cylinders, hoses and valves; sprockets, chain, rubber packer tires, polyurethane packers, coulters, blades, shanks, springs, bolts, pulleys, air hoses, sweeps, spikes, spoons, seals, power wheels, hitch jacks, hubs and wheels.

The Company in no way warrants engines, batteries, coulters, assemblies, rubber tires, or other trade accessories since these items are warranted separately by their respective manufacturers.

### **T2-215 Bearing Extended Coverage Limited Warranty:**

Seven year limited warranty: Extended coverage (13-84 months) on T2-215 Series bearing is limited to the replacement of ball bearings and seals for the original, non-commercial owner. Associated bearing parts, labor, freight, etc., are not covered.

### **Warranty Limitations and/ or Exclusions:**

1. Buckets, bucket tines, bale spears & tines, grapple tines, pallet forks, shanks, all ground engaging tools, including disc blades, air seeder hose and other normal wear parts/ items carry NO warranty.
2. There is no warranty coverage if parts or attachments, other than those made or marketed by Ezee-On Manufacturing have been used in connection with the unit, and in the sole judgment of Ezee-On, such use affects its performance or reliability.
3. If the equipment has been altered or repaired in a manner which, in the sole judgment of Ezee-On, affects its performance, stability or reliability.
4. The purchaser shall be responsible for dealer travel time to the machine or to deliver the machine to the dealer's service shop for repair. Ezee-On Manufacturing does not cover delivery charges or travel time.

This warranty policy is subject to change without prior written notice at Ezee-On Manufacturing's sole discretion.

Effective: September 1, 2004

## SAFETY RECOMMENDATIONS



**WATCH FOR THIS SYMBOL AS IT IDENTIFIES IMPORTANT SAFETY MESSAGES. WHEN YOU SEE THIS SYMBOL, READ THIS SAFETY MESSAGE CAREFULLY.**


### SAFETY

You are responsible for the safe operation and maintenance of your Ezee-On implement. You must ensure that you and anyone else who is going to operate, maintain or work around the equipment be familiar with the operating and maintenance procedures and related safety information contained in this manual. This manual will alert you to all good safety practices.

You are the key to safety. Good safety practices not only protect you but also the people around you. Make these practices a working part of your safety program. Be certain that EVERYONE operating this equipment is familiar with the recommended operating and maintenance procedures and follows all the safety precautions. Most accidents can be prevented. Do not risk injury or death by ignoring good safety practices.

1. Owners must give operating instructions to operators or employees before allowing them to operate the unit.
2. The most important safety device on this equipment is a SAFE operator. It is the operator's responsibility to read and understand ALL Safety and Operating instructions in the manual and to follow these. All accidents can be avoided.
3. A person who has not read and understood all operating and safety instructions is not qualified to operate the machine. An untrained operator exposes himself and bystanders to possible serious injury or death.
4. Do not modify the equipment in any way. Unauthorized modification may impair the function and/or safety and could affect the life of the equipment.
5. Think SAFETY! Work SAFELY!

### GENERAL SAFETY

1. Read and understand the Operator's Manual and all safety signs before operating, maintaining or adjusting the unit.
2. Only trained competent person(s) shall operate the unit. An untrained operator is not qualified to operate the machine.
3. Have a first-aid kit available for use should the need arise and know how to use it. 
4. Do not allow riders.
5. Have a fire extinguisher available for use should the need arise and know how to use it.
6. Lower machine to the ground, place all tractor controls in neutral, stop engine, turn monitor off, set park brake and remove ignition key, before servicing, adjusting, repairing this implement.
7. Review safety related items with all personnel annually.

### ASSEMBLY SAFETY

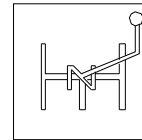
1. When assembling disc, use aligning punch to line up holes. Keep fingers out of holes. Any sudden movement of heavy components will severely injure or sever your fingers.
2. Use adequate manpower or hoist to lift the heavy components into place. Attempting to lift heavy components by yourself could cause serious injury.
3. Be sure all bolts and hydraulic fittings are tight, and all cotter pins are installed in the slotted nuts and pins.
4. Support the main frame securely before assembling the components. Inadequate support may result in the heavy components falling and causing serious injury to you or person(s) nearby.
5. Be sure all wheel bolts are checked for tightness during initial transport or when first discing. Loose wheel bolts may result in the wheel falling off, causing serious damage to the disc and may cause serious injury to the operator or person(s) nearby.

Assembly safety continued:

6. Be sure all wheel bolts are checked for tightness during initial transport or when first discing. Loose wheel bolts may result in the wheel falling off, causing serious damage to the disc and may cause serious injury to the operator or person(s) nearby.
7. Hydraulic oil escaping under pressure has sufficient force to cause serious injury. Relieve pressure in all hydraulic components before disconnecting any hydraulic components. Before applying pressure to hydraulic system, be sure all connections are tight and components are not damaged. If injured by escaping hydraulic fluid, see a medical doctor immediately.
8. When attaching gang assemblies, wear protective gloves to prevent injury from cutting edges of blades.
9. Before applying pressure to the hydraulic system, be sure all connections are tight and the components are not damaged.
10. If hydraulic cylinder shafts are unpinned and cycled to fill the cylinder with oils, they can be seriously damaged if clevis of shaft strikes rockshaft arm or wing cylinder lug.
11. Do not stand under folded wings when working on disc. If hydraulic system failed or if hydraulic lever was accidentally operated, wings may fall resulting in serious injury or death to person(s) near disc.
12. When installing gangs ensure adequate support is placed under main frame. If any hydraulic component failed, disc could drop causing serious injury or death to person(s) nearby.

## MAINTENANCE SAFETY

1. Review the Operator's Manual and all safety items before working with maintaining or operating this disc.
2. Lower machine to the ground, place all tractor controls in neutral, stop engine, turn monitor off, set park brake and remove ignition key before servicing, adjusting, or repairing this disc.
3. Follow good shop practices:
  - Keep service area clean and dry.
  - Be sure electrical outlets and tools are properly grounded.
  - Use adequate light for the job at hand.
4. Before applying pressure to a hydraulic system, make sure all components are tight and hoses and couplings are in good condition.
5. Relieve pressure from hydraulic cylinder before servicing or disconnecting from tractor.
6. Clear the area of bystanders when carrying out any maintenance and repairs or making any adjustments.
7. Place stands or blocks under the frame before working beneath the machine or when changing tires.
8. Use only tools, jacks and hoists of sufficient capacity for the job.

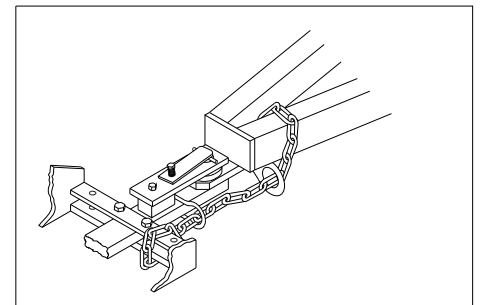
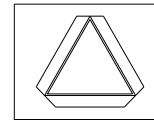


## HYDRAULIC SAFETY

1. Always place all tractor hydraulic controls in neutral before dismounting.
2. Make sure that all components in the hydraulic system are kept in good condition and are clean.
3. Replace any worn, cut, abraded, flattened or crimped hoses.
4. Do not attempt any makeshift repairs to the hydraulic lines, fittings or hoses by using tape, clamps or cements. The hydraulic system operates under extremely high pressure. Such repairs will fail suddenly and create a hazardous and unsafe condition.
5. Wear proper hand and eye protection when searching for a high pressure hydraulic leak. Use a piece of wood or cardboard as a backstop instead of hands to isolate and identify a leak.
6. If injured by escaping hydraulic fluid, seek medical attention immediately. Serious infection or toxic reaction can develop from hydraulic fluid penetrating the skin surface.
7. Before applying pressure to the system, make sure all components are tight and that hoses and couplings are in good condition.

## TRANSPORT SAFETY

1. Read and understand ALL the information in the Operator's Manual regarding procedures and SAFETY before operating this disc in the field and/or on the road.
2. Check with local authorities regarding transporting this implement on public roads.
3. Always transport at a safe speed. Use caution when turning corners or meeting traffic.
4. Make sure the SMV (Slow Moving Vehicle) emblem and all the lights and reflectors that are required by the local highway and transport authorities are in place, are clean and can be seen clearly by all overtaking and oncoming traffic.
5. Be sure all amber and red lights are working to safeguard against rear end collisions. Daybreak and dusk are particularly dangerous.
6. Be sure that the disc is securely attached to the tractor. Always use a safety chain between the machine and the tractor.
7. Do not exceed 20 mph (32 km/h). Reduce speed on rough roads and surfaces.
8. Always use hazard warning flashers on tractor and when transporting unless prohibited by law.



## OPERATION SAFETY

1. Read and understand the Operator's Manual and all safety signs before using this disc.
2. Lower machine to the ground, place all tractor controls in neutral, stop engine, set park brake and remove ignition key before servicing, adjusting or repairing implement.



Operation safety continued:

3. Do not allow riders on the disc or tractor during operation or transporting.
4. Clear the area of all bystanders, before moving tractor and disc.
5. Stand clear when folding or unfolding wings. Keep others away.
6. Clean reflectors, SMV and lights before transporting.
7. Attach disc securely to tractor using a hardened pin and a safety chain.
8. Do not exceed a safe travel speed.
9. Use hazard flasher on tractor and disc when transporting.
10. Stay away from overhead power lines when folding or unfolding wings and during transport.
11. Before applying pressure to the hydraulic system, make sure all components are tight and that hoses and couplings are in good condition.
12. Review safety instructions annually.

## **TIRE SAFETY**

1. Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion which may result in serious injury or death.
2. Do not attempt to mount a tire unless you have the proper equipment and experience to do the job.
3. Have a qualified tire dealer perform required tire maintenance.

## **SAFETY DECALS**

1. Keep safety decals clean and legible at all time.
2. Replace safety decals that are missing or have become illegible.

## **STORAGE SAFETY**

1. Store unit in an area away from human or animal activity.
2. Do not permit children to play on or around parked implement.

# SPECIFICATIONS

MODEL NO.	FRAME WIDTH	APPROX. CUTTING WIDTH	NO. of BLADES	SPACING	NO. of WHEELS	GANG BEARINGS	
						410WSS SERIES QTY/UNIT	T2-215 SERIES QTY/UNIT
1225 N	NARROW	6-1/2 ft.	17	9"	2	4	N/A
1225 N	NARROW	8 ft.	21	9"	2	6	N/A
1225 N	NARROW	9 ft.	25	9"	2	6	N/A
1225 M	MEDIUM	10-1/2 ft.	29	9"	4	7	N/A
1225 M	MEDIUM	12 ft.	33	9"	4	8	N/A
1225 M	MEDIUM	14 ft.	37	9"	4	10	N/A
1225 W	WIDE	15-1/2 ft.	41	9"	4	12	N/A
1225 W	WIDE	17 ft.	45	9"	4	12	N/A
1225 W	WIDE	18-1/2 ft.	49	9"	4	14	N/A
1225 W	WIDE	20 ft.	53	9"	4	14	N/A
1225 N	NARROW	6 ft.	15	10-1/2"	2	4	4 (OPTIONAL)
1225 N	NARROW	8 ft.	19	10-1/2"	2	6	6 (OPTIONAL)
1225 N	NARROW	10 ft.	23	10-1/2"	2	6	6 (OPTIONAL)
1225 M	MEDIUM	10 ft.	23	10-1/2"	4	8	8 (OPTIONAL)
1225 M	MEDIUM	12 ft.	27	10-1/2"	4	10	8 (OPTIONAL)
1225 M	MEDIUM	14 ft.	31	10-1/2"	4	10	9 (OPTIONAL)
1225 M	MEDIUM	15 ft.	33	10-1/2"	4	10	10 (OPTIONAL)
1225 W	WIDE	16 ft.	37	10-1/2"	4	12	12 (OPTIONAL)
1225 W	WIDE	18 ft.	41	10-1/2"	4	14	12 (OPTIONAL)
1225 W	WIDE	20 ft.	45	10-1/2"	4	16	12 (OPTIONAL)
1275 N	NARROW	6 ft.	15	10-1/2"	2	N/A	4
1275 N	NARROW	8 ft.	19	10-1/2"	2	N/A	6
1275 N	NARROW	10 ft.	23	10-1/2"	2	N/A	6
1275 M	MEDIUM	10 ft.	23	10-1/2"	4	N/A	8
1275 M	MEDIUM	12 ft.	27	10-1/2"	4	N/A	10
1275 M	MEDIUM	14 ft.	31	10-1/2"	4	N/A	10
1275 M	MEDIUM	15 ft.	33	10-1/2"	4	N/A	10
1275 W	WIDE	16 ft.	37	10-1/2"	4	N/A	12
1275 W	WIDE	18 ft.	41	10-1/2"	4	N/A	12
1275 W	WIDE	20 ft.	45	10-1/2"	4	N/A	12
1275 N	NARROW	6 ft.	13	12"	2	N/A	4
1275 N	NARROW	8 ft.	17	12"	2	N/A	6
1275 N	NARROW	10 ft.	21	12"	2	N/A	6
1275 M	MEDIUM	10 ft.	21	12"	4	N/A	6
1275 M	MEDIUM	12 ft.	25	12"	4	N/A	8
1275 M	MEDIUM	14 ft.	29	12"	4	N/A	8
1275 M	MEDIUM	15 ft.	31	12"	4	N/A	9
1275 W	WIDE	16 ft.	33	12"	4	N/A	10
1275 W	WIDE	18 ft.	37	12"	4	N/A	11
1275 W	WIDE	20 ft.	41	12"	4	N/A	12
1375 M	MEDIUM	10 ft.	21	12"	4	N/A	6
1375 M	MEDIUM	12 ft.	25	12"	4	N/A	7
1375 M	MEDIUM	14 ft.	29	12"	4	N/A	8
1375 M	MEDIUM	15 ft.	31	12"	4	N/A	11

Tire Size ..... 1225/1275 - 6' to 10' Sizes ----- 2 - 11L x 15 F1 - Load Range AC≅  
 1225/1275/1375M - 10' to 20' Sizes ---- 4 - 11L x 15 F1 - Load Range AC≅  
 1375W - 16' to 20' Sizes ----- 4 - 11L x 15 F1 - Load Range AF≅

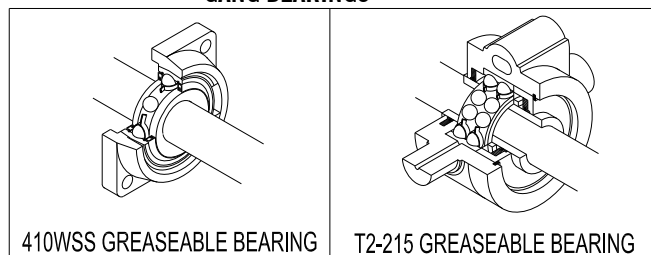
Tire Inflation ..... 45 PSI (310 KPA) - Load Range AC≅  
 60 PSI (414 KPA) - Load Range AF≅

**CAUTION: WHEN INFLATING TIRES USE A CLIP-ON CHUCK AND HOSE EXTENSION WHICH WILL ALLOW OPERATOR TO STAND CLEAR OF TIRE AND WHEEL ASSEMBLY. DO NOT STAND IN FRONT OF OR OVER TIRE WHEN INFLATING. EXPLODING TIRE AND WHEEL PARTS CAN CAUSE SERIOUS INJURY OR DEATH.**

Front and Rear Gang Angle - 19, 22, or 25 degrees.

Bolt torques: Gang bolts - (1-15/16" diameter) - 3200 ft.lbs. (4339 N.m) - Model 1225  
 (Dry) Gang bolts - (1-15/16" diameter) - 3800 ft.lbs. (5152 N.m) - Model 1275 & 1375  
 Gang beam bolts - (1-1/4" diameter) - 840 ft.lbs. (1309 N.m)  
 Levelling crank bolt - (1-1/4" diameter) - 840 ft.lbs. (1309 N.m)  
 Bearing hanger U-bolt - (7/8" diameter) - 430 ft.lbs. (583 N.m)  
 Wheel bolts - (9/16" diameter) - 150 ft.lbs. (203 N.m)

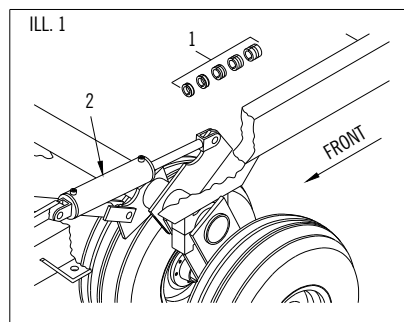
## GANG BEARINGS



## GENERAL OPERATING INSTRUCTIONS

1. Before operating disc, refer to safety precautions on pages 2 through 7. Review disc safety item applicable to road transport and field operation of disc.
2. This machine is a primary tillage tool designed to bury crop residue or plow hay or grassland. The following recommendations (paragraph A to I) will enhance the performance of your disc:
  - a) For best performance the tractor drawbar should be pinned at center of tractor.
  - b) Always ensure that disc is level and cutting depth is properly adjusted. Disc will ridge or leave a furrow if front and rear gangs are not cutting at a even depth. See Section 5 of adjustments on page 16.

c) See ILL. 1. To set working depth, lower disc into the ground while moving forward until the disc reaches desired discing depth. Install the necessary depth control stops, arrow 1, on lift cylinder, arrow 2 to maintain the desired cutting depth.



d) Do not make sharp turns with the disc in ground. Sharp turns put excess pressure on the gangs.

IT IS ADVISABLE TO ALWAYS LIFT MACHINE OUT OF GROUND FOR MAKING SHARP TURNS. EXCESSIVE SIDE THRUST IS APPLIED TO BEARINGS AND MACHINE IF DISC IS TURNED WHILE IT IS IN THE GROUND.

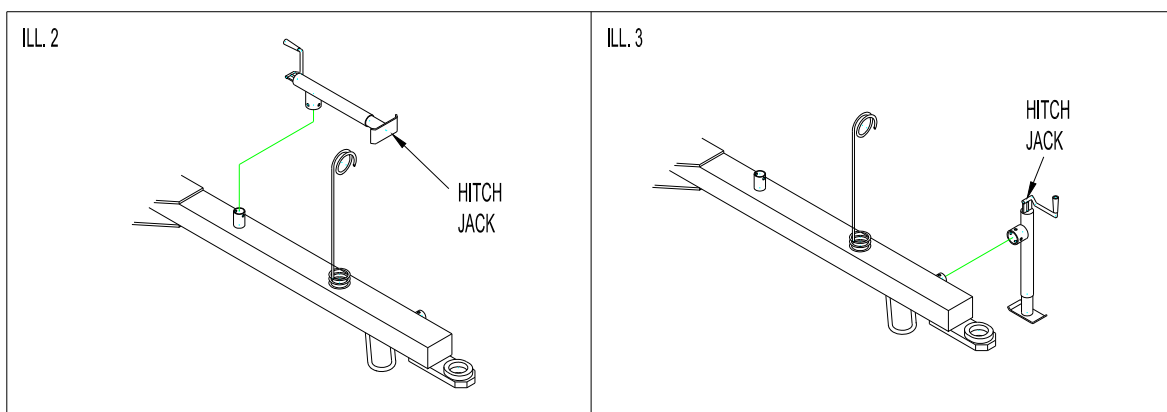
e) Tractor ground speed should not exceed 6mph (9.6 km/h) Reduce speed in rocky conditions to avoid damage to disc gangs and frame.



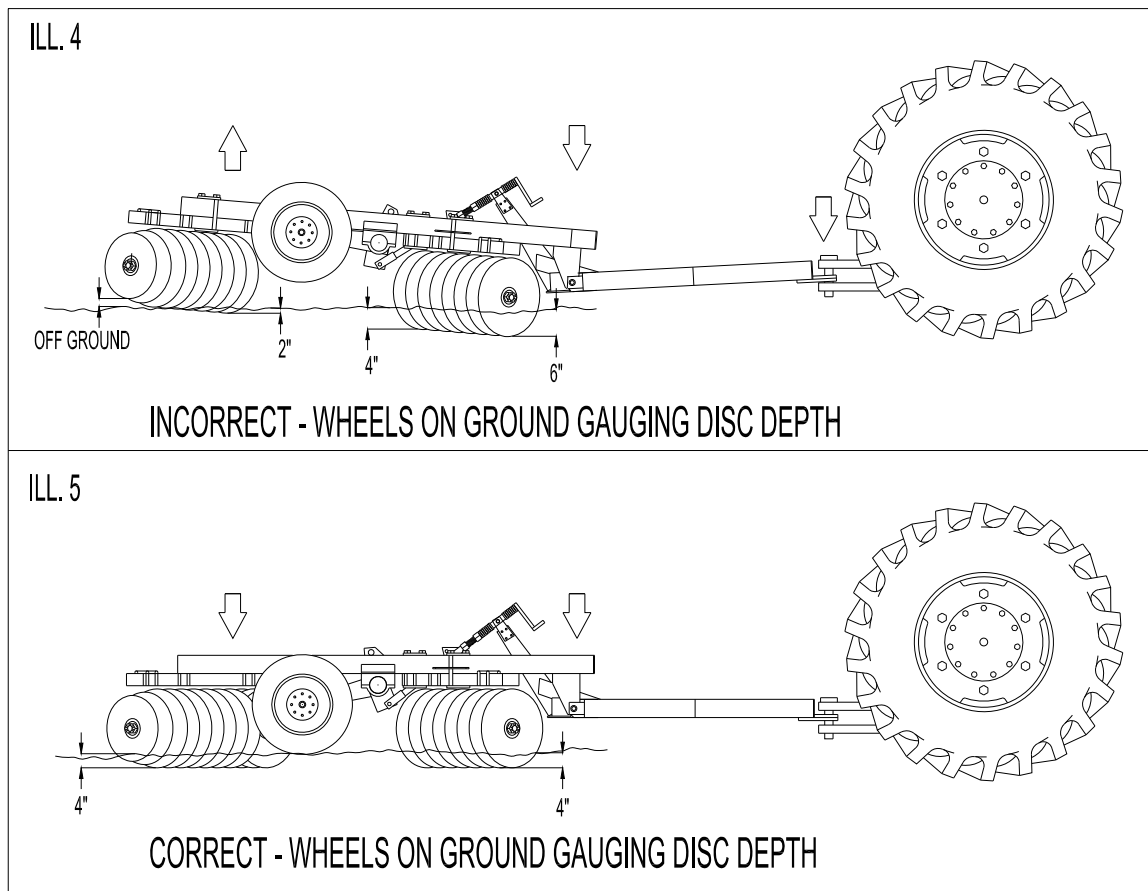
**CAUTION: NEVER STAND BETWEEN THE TRACTOR AND THE DISC WHEN HITCHING DISC TO THE TRACTOR UNLESS ALL TRACTOR CONTROLS ARE IN NEUTRAL AND THE BRAKE IS SET. THE TRACTOR COULD ROLL BACKWARDS WHICH COULD RESULT IN SERIOUS INJURY OR DEATH TO YOU OR PERSON(S) NEARBY.**

f) **IMPORTANT:** Do not operate disc with front gangs cutting deeper than rear gangs, disc must be level. If front gangs are lower, excessive strain will be placed on blades, gang bearings and frame hitch which could lead to premature parts failure, especially outside blades and bearings of front R.H.S. gang.

g) See ILL. 2 and 3. When transporting disc or discing, pin hitch jack to tube on top of hitch as shown in ILL. 2. When parking disc pin hitch jack to side of hitch in a vertical position as shown in ILL. 3.



**IMPORTANT:** Do not transport disc with hitch jack in vertical position. Hitch jack will be severely damaged if it strikes ground or an obstruction.



h) To keep disc level, transport wheels must be riding on ground, gauging desired discing depth, as shown in ILL. 2.

If conditions are such that disc can not penetrate to maximum depth, do not raise transport wheels off ground as shown in ILL. 3. Raised transport wheels will cause front of disc to drop causing front gangs to cut deeper than rear gangs.

Front of disc will drop because rock shaft and hitch are linked. Hitch rises when wheels are raised off ground. Since hitch is fixed to tractor draw bar, front end of disc is forced down, transferring weight of rear gangs to front gangs.

With front of disc lower than the rear, the front right hand blades will cut much deeper than the front left hand blades. This means most of the disc's weight is placed on the front right hand blades forcing them deep into the ground.

Uneven and deep front gang penetration in tough conditions will place excessive strain on blades, gang bearings, frame and hitch leading to premature failure of parts, especially outside blades and bearings of front gangs.

**IMPORTANT:** *Operating disc with transport wheels off ground will cause uneven discing job, and place undue strain on machine, which could lead to parts failure. Always operate disc with transport wheels on ground even if conditions will not allow disc to penetrate to maximum depth.*

i) Gang angle can be set to match your discing conditions. Gang angle may need to be increased if disc will not penetrate soil. A decrease in gang angle may be needed if soil conditions are soft and soil does not flow through gang causing disc to plug. See section 1 of adjustments on page 14.

GENERAL OPERATING INSTRUCTIONS CONTINUED:

3. ALL MODELS: See ILL. 6. Store gang beam wrench in wrench retainer brackets welded inside frame.



**CAUTION: NEVER ALLOW ANYONE TO RIDE ON DRAW BAR OF THE TRACTOR OR ON THE DISC AS THE PERSON RIDING MAY FALL AND BE SERIOUSLY INJURED.**

4. See ILL. 7. Install the Slow Moving Vehicle emblem "SMV" (not supplied by Ezee-On) in the  $\Delta$ SMV bracket welded to the center of frame before transporting the disc.



**CAUTION: USE THE  $\Delta$ SMV EMBLEM (NOT SUPPLIED BY EZEE-ON) AND WARNING LIGHTS FOR THE PROTECTION OF TRACTOR AND OTHER MOTOR VEHICLE OPERATORS WHEN TRANSPORTING THE DISC OVER PUBLIC ROADS. CHECK LOCAL LAWS REGARDING TRANSPORTING REGULATIONS.**

5. For best performance the tractor draw bar should be pinned at centre of tractor.
6. Ensure that disc is level and cutting depth is properly adjusted. Disc will ridge or leave a valley if front and rear gangs are not cutting at an even depth. See Section 6 of adjustments on page 16.
7. **IMPORTANT:** DO NOT DISC WITH FRONT GANGS CUTTING DEEPER THAN REAR GANGS. DISC MUST BE LEVEL. IF FRONT GANGS ARE LOWER EXCESSIVE STRAIN WILL BE PLACED ON BLADES, GANG BEARINGS AND FRAME HITCH, WHICH COULD LEAD TO PREMATURE PARTS FAILURE, ESPECIALLY OUTSIDE BLADES AND BEARINGS OF FRONT R.H.S. GANG.
8. See ILL. 8. Before transporting disc, attach a Safety Chain to the tractor draw bar and a round lug welded to hitch. Use a chain with strength rating greater than the gross weight of disc.

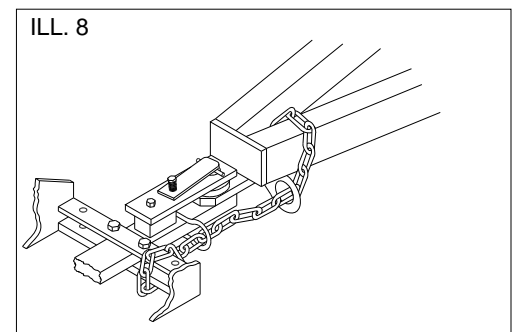
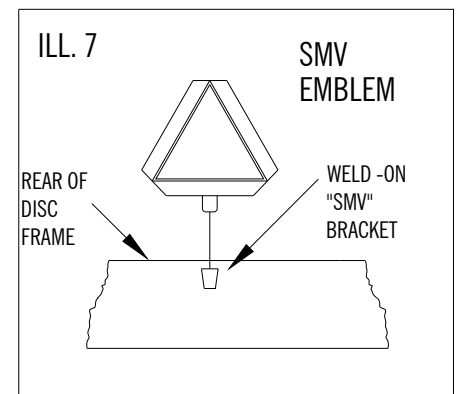
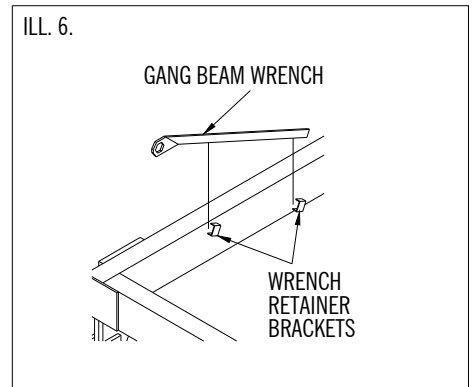


**CAUTION: WHEN TRANSPORTING A DISC, BE SURE TO ATTACH A SAFETY CHAIN BETWEEN THE TRACTOR DRAW BAR AND DISC HITCH. THE SAFETY CHAIN WILL HELP CONTROL DISC SHOULD IT ACCIDENTALLY SEPARATE FROM THE DRAW BAR. USE A CHAIN WITH A STRENGTH RATING GREATER THAN THE GROSS WEIGHT OF THE TOWED MACHINE. SERIOUS DAMAGE, INJURY OR DEATH COULD RESULT FROM THE DISC SEPARATING FROM THE TRACTOR DRAW BAR.**

9. See ILL. 8. Before transporting disc, lock wheels in down position by installing all depth control segments (8-3/4") on lift cylinder.



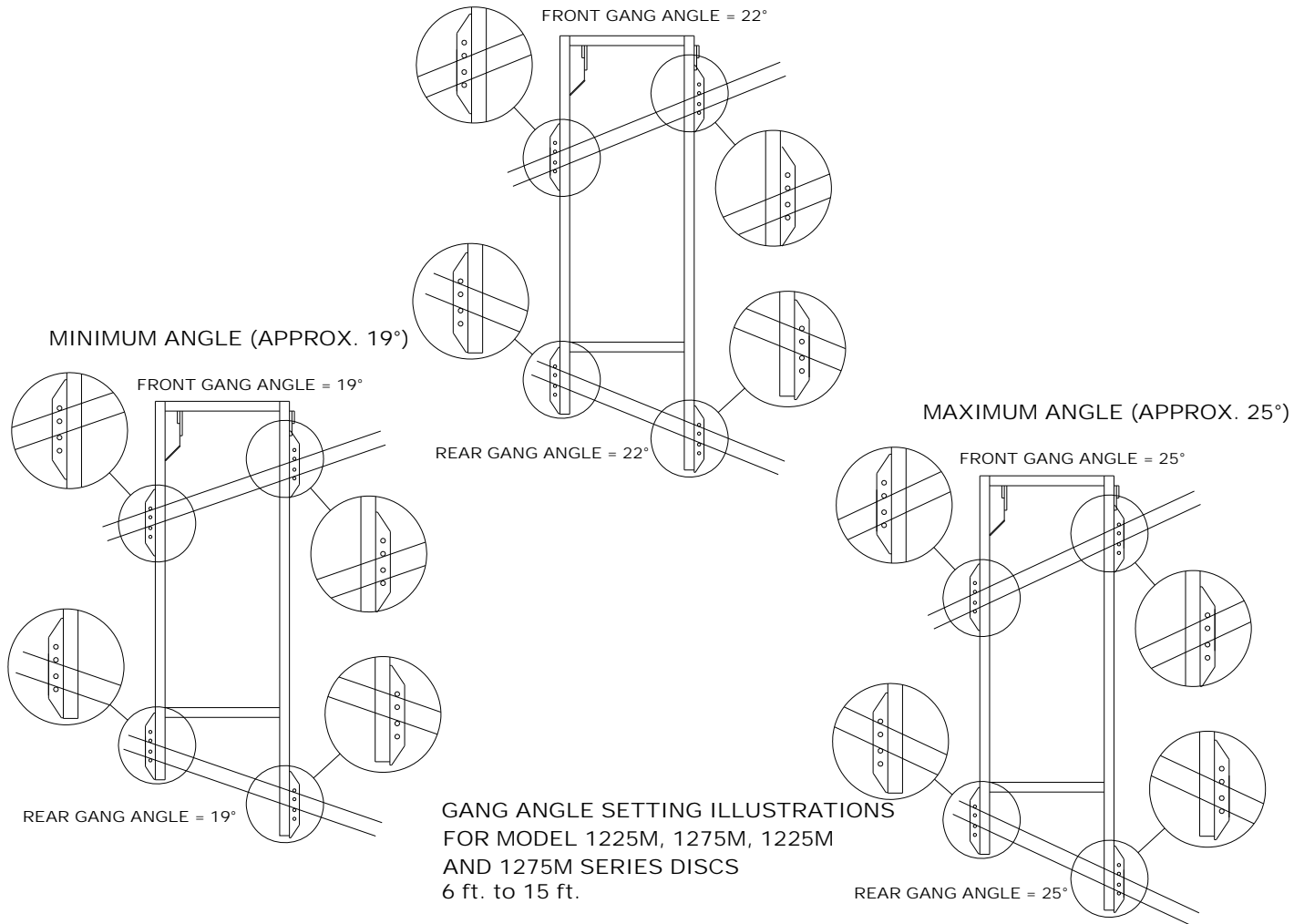
**CAUTION: BEFORE TRANSPORTING THE DISC, ALWAYS LOCK WHEEL IN DOWN POSITION INSTALLING ALL DEPTH CONTROL SEGMENTS (8-3/4") ON LIFT CYLINDER. IF THE HYDRAULIC SYSTEM FAILED, OR IF THE HYDRAULIC LEVER WAS ACCIDENTALLY OPERATED, THE DISC COULD DROP SUDDENTLY RESULTING IN SERIOUS DAMAGE TO THE DISC AND SERIOUS INJURY OR DEATH TO OPERATOR AND THOSE NEARBY.**



# ADJUSTMENTS

ILL. 9

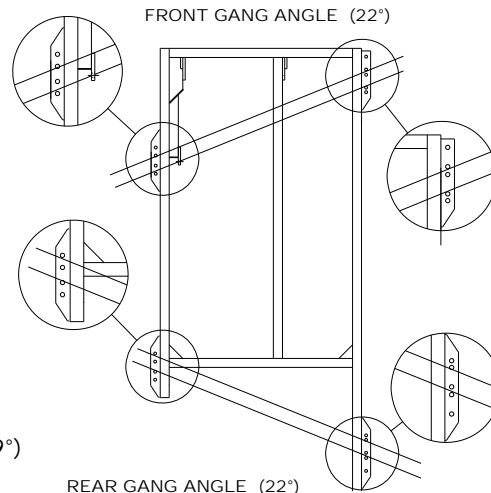
## MEDIUM ANGLE (APPROX. 22°)



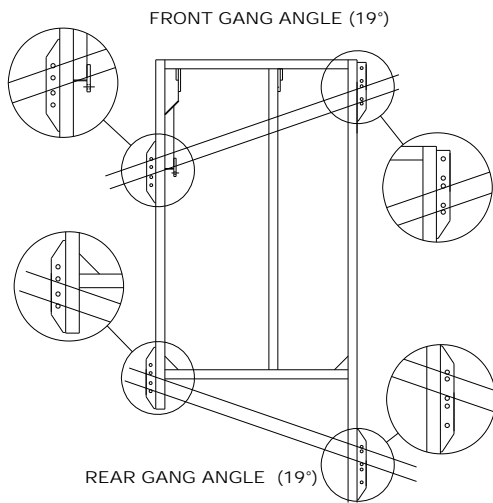
# ADJUSTMENTS

ILL. 10

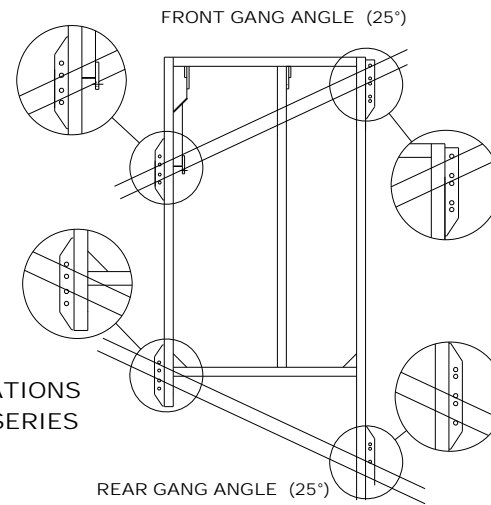
MINIMUM ANGLE (APPROX. 22°)



MINIMUM ANGLE (APPROX. 19°)



MINIMUM ANGLE (APPROX. 25°)



GANG ANGLE SETTING ILLUSTRATIONS  
FOR MODEL 1225W, AND 1275M SERIES  
DISCS 16 ft. to 20 ft.

## ADJUSTMENTS

### 1. SETTING ANGLE OF FRONT AND REAR GANGS

(SEE ILL. 9 on page 12. FOR MODELS 1225N, 1275N, 1225M, 1275M - 6 ft. to 15 ft.)

(SEE ILL. 10 on page 13. FOR MODELS 1225W, 1275W - 16 ft. To 20 ft.)

a) The gangs can be set at three different angles (19, 22, and 25). The angle the gangs are set at is determined by soil conditions. A field with hard soil will require more cutting angle to penetrate soil than a field with soft soil. If disc pushes dirt instead of cutting through, less cutting angle is required.

To start, a medium angle is recommended.

b) **MODELS 1225N,1275N,1225M,1275M.** Adjust gang angle one side at a time. Gang angle is set by loosening beam clamp plates and installing two (2) 1-1/4" x 7-1/2" N.C. hex bolts through the desired holes in the (4) hole lugs welded to the outside of the frame. See ILL. 9. on page 13 for holes used to obtain desired angle.

c) **MODELS 1225W,1275W.** Adjust gang angles one side at a time. Gang angle is set by loosening beam clamp plates and installing two (2) 1-1/4" x 7-1/2" N.C. hex bolts through the desired holes in the clamp plates on the side of the disc. The L.H.S. has (4) hole clamp plates and the R.H.S. has (5) hole clamp plates. See ILL. 10. on page 13 for holes used to obtain desired angle.

\* d) **NOTE: Always ensure disc has the same cutting angle on front gang as on the rear gang, if front gang is set at a medium angle, rear gang must also be set at a medium angle**

**IMPORTANT:** EXCESSIVE GANG ANGLE WILL PUT ADDED PRESSURE ON THE GANGS AND WILL DECREASE THE LIFE OF THE BEARINGS, BLADES, ETC.

**IMPORTANT:** WHEN GANGS ARE SET AT AN EXTREME ANGLE, MORE HORSEPOWER IS REQUIRED TO PULL DISC.

### 2. LATERAL ADJUSTMENT OF FRONT GANGS: See Gang Pattern for your machine on Pages 30 to 56

a) For Model 1225N-1275N-1225M-1275M and 1375M Discs. Position front gang so there is approximately 1-1/2 more blades extended beyond the left side of frame than the right side of frame.

b) For Models 1225W and 1275W Discs - 16 ft. to 18-1/2 ft. wide. Position front gang so there is approximately 4 more blades extended beyond the left side of frame than the right side of frame.

c) For Models 1225W and 1275W with 20 ft. cutting width. Both front and rear gangs must be positioned further toward the R.H.S. to prevent front and rear gangs from interfering with each other on L.H.S. Position front gang for each 20 ft. models as follows:

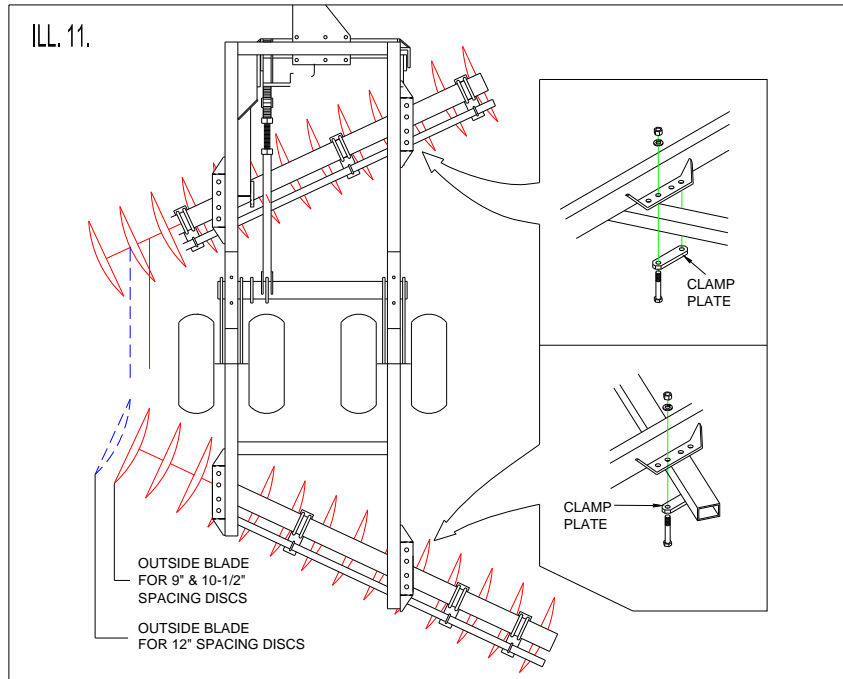
MODEL 1225W - 20ft. (9" spacing) - 8-1/2 blades extending beyond L.H.S.

MODEL 1225W - 20ft. (10-1/2" spacing) - 7 blades extending beyond L.H.S.

MODEL 1275W - 20ft. (10-1/2" spacing) - 7 blades extending beyond L.H.S.

MODEL 1275W - 20ft. (12" spacing) - 7 blades extending beyond L.H.S.

**NOTE: The gang patterns (pages 30 to 56) show actual number of blades that must extend beyond L.H.S. for each machine. Use top of blade (12 o'clock position) and outside edge of frame as starting point to count blades.**



3. LATERAL ADJUSTMENT OF REAR GANGS FOR (ALL MODELS). See ILL. 11.

The proper position of rear gang will result in level field finish. The operating speed, working depth, gang angle, and soil conditions will have determine this setting. If the rear gang is set too far to the right hand side, rear gangs will leave a furrow on left hand side.

An increase in operating speed may require that the rear gang must be moved farther to the right hand side. A decrease in operating speed may require rear gangs to be moved further to the left hand side

If gang angle is increased for deeper working depth, the rear gang usually must be moved farther to the right hand side. If gang angle is decreased for a shallower operating depth, the rear gang usually must be moved farther to left hand side.

To start with, set rear gangs as follows, then adjust to suit your discing depth, speed and soil conditions:

9" & 10-1/2" Spacing Discs - Align leading edge of the outside rear blade on the left hand side between the second and third blade of the front gang as shown in ILL.11.

12" Spacing Discs - Align leading edge of the outside rear blade on the left hand side with the center of the second blade of the front gang as shown in ILL.11.

**NOTE:** *The gang patterns (page 30-56) show how L.H.S. of rear gang aligns with front gang for each machine.*

**NOTE:** *If bearing hanger restricts movement of rear gangs, make desired adjustment by moving the front gang.*



**CAUTION:** **WHEN OPERATING ON HILLSIDES, USE EXTREME CARE AS TRACTOR MAY TIP SIDWAYS IF IT STRIKES HOLE, DITCH OR OTHER IRREGULARITIES.**

4. See ILL. 11. When gang adjustments are complete, tighten gang beam clamp plates. Tighten bolts to a minimum of 840 ft.lbs.

**VERY IMPORTANT:** THE 1-1/4" x 7-1/2" CLAMP BOLTS **MUST** BE KEPT VERY TIGHT AT ALL TIMES. IF DISC IS OPERATED WHEN CLAMP BOLTS ARE LOOSE, SERIOUS DAMAGE WILL OCCUR TO FRAME, GANG BEAM, CLAMP PLATE AND 1-1/4" BOLTS.

5. LEVELING DISC: See ILL. 12.

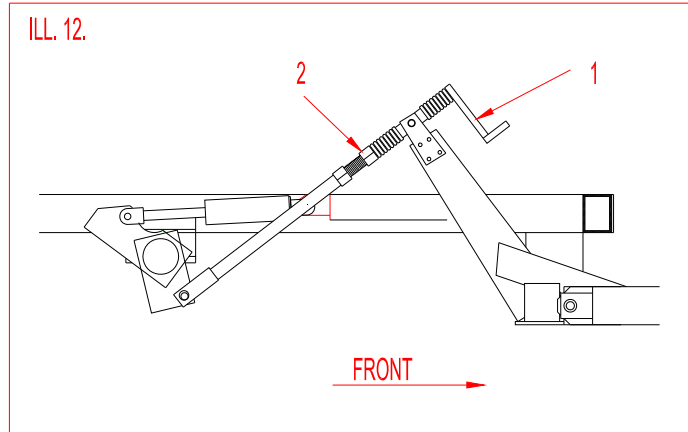
When operating disc, both the front and rear gangs should cut at the same depth. The leveling crank, arrow 1, is used to level the disc. Before the disc is leveled, set the Depth Control Stop on rock shaft cylinder to obtain the desired discing depth.

To lower front gangs, turn crank, arrow 1, clockwise (in)

To raise front gangs, turn crank, arrow 1, counter clockwise (out)

6. **IMPORTANT: SEE ILL. 12.**

IN VERY ROCKY CONDITIONS, LOOSEN NUT, ARROW 2, OF LEVELING CRANK SO SPRINGS ARE FREE TO SLIDE BACK AND FORTH APPROXIMATELY 1". THIS WILL ALLOW MORE VERTICAL FLEXING OF DISC.

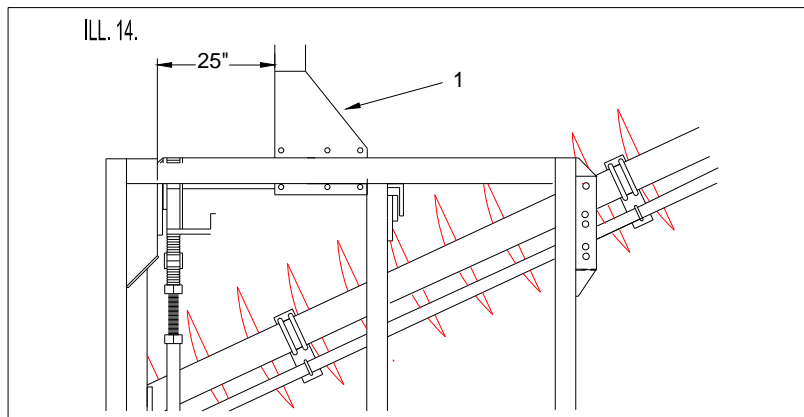
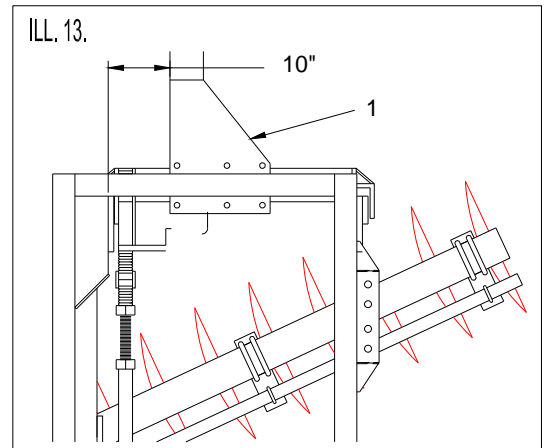


7. **LATERAL HITCH ADJUSTMENT**

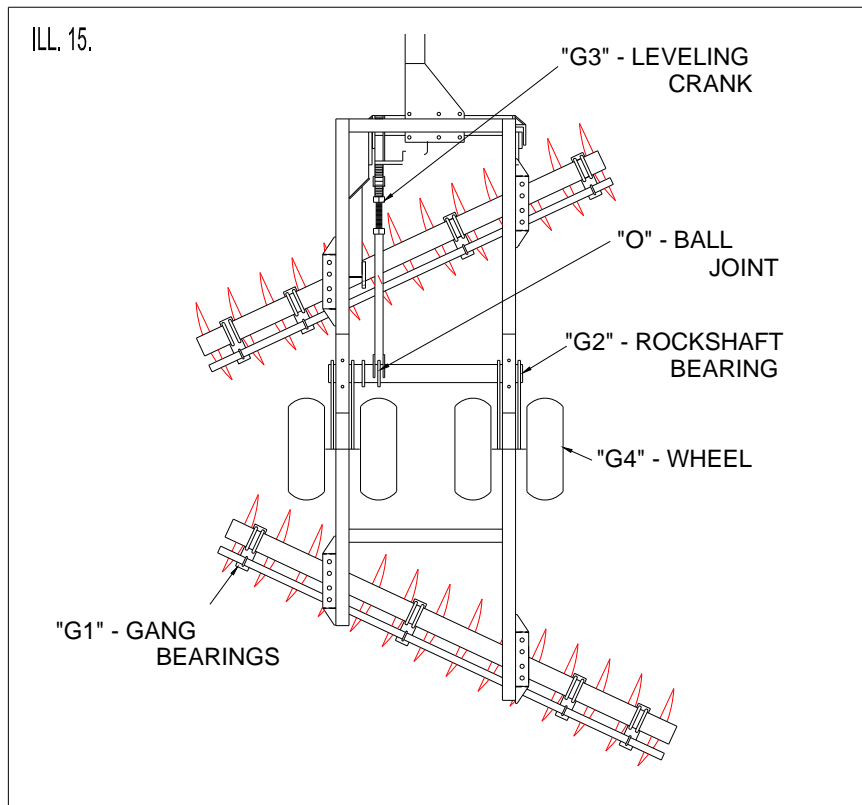
a) See ILL. 13. For all models except 1225N series and 1225 or 1275 series machines with 20 ft. cutting width. Hitch tongue, arrow 1, should be fastened 10" from left side of draw bar. If disc side drafts, further hitch adjustments may be required. See page 19 of trouble shooting.

b) See ILL. 13. On model 1225N series and 1275N series discs the hitch tongue, arrow 1, **can not** be adjusted laterally. If adjustments are required to eliminate side drafting, the gangs will have to be moved. See page 19 of trouble shooting.

c) See ILL. 14. On machines with 20 ft. cutting width the hitch tongue, arrow 1, must be fastened 25" from left side of draw bar. This special adjustment is required because gangs have been positioned further to the R.H.S. so they don't interfere with each other on L.H.S. If disc side drafts, further hitch adjustments may be required. See page 19 of trouble shooting.



## MAINTENANCE



1. LUBRICATION: All lubrication points on disc are marked with arrow AG≡ in ILL. 15. Use a high quality S A E multi purpose grease. Lubricate point marked with arrow AO≡ with oil.

G1) Lubricate gang bearings every 20 hours of operation with 6 to 10 strokes of hand grease gun. Use a high quality SAE multi-purpose grease.

**IMPORTANT:** IF 410WSS SERIES BEARINGS ARE OVER LUBRICATED THERE IS A POSSIBILITY THAT SEALS CAN BE PUSHED OUT. THIS IS MORE LIKELY TO HAPPEN WHEN BEARINGS ARE NEW. TO IDENTIFY TYPE OF BEARING YOUR DISC HAS SEE, SPECIFICATIONS ON PAGE 8.

G2) Lubricate rockshaft bearing every 50 hours of operation.

**IMPORTANT:** IF ROCK SHAFT BEARINGS ARE NOT LUBRICATED THERE WILL BE EXCESSIVE WEARING OF ROCK SHAFT AND ROCK SHAFT BEARING.

G3) Lubricate leveling crank every 100 hours of operation.

G4) Lubricate the wheels every 50 hours of operation.

O) Lubricate leveling crank ball joint with every 100 hours of operation.

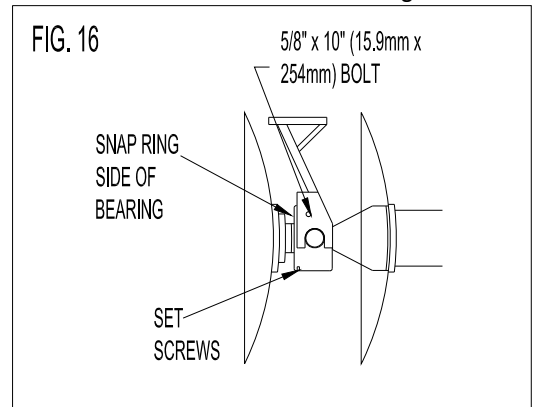
**NOTE: WHEN YOU RECEIVE YOUR NEW DISC, GREASE ALL LUBRICATION POINTS BEFORE STARTING TO DISC. HOWEVER USE CAUTION WHEN LUBRICATING 410WSS GANG BEARINGS. THESE BEARINGS WILL HAVE BEEN FILLED WITH GREASE AT FACTORY. IF THESE BEARINGS ARE OVER LUBRICATED, SEALS MAY BE DAMAGED.**

**TO DETERMINE TYPE OF GANG BEARINGS YOUR DISC IS EQUIPPED, WITH SEE SPECIFICATIONS ON PAGE 8.**

- All bolts and nuts should be checked periodically to make sure they are tight. Special attention should be given to gang bolts, bearing bolts and bearing hanger U-bolts. If gang bolts come loose, they must be tightened to 3200 lbs.

**VERY IMPORTANT: SEVERE DAMAGE WILL OCCUR IF GANG BOLTS ARE LOOSE.**

- When storing disc for a long period of time, apply a light coat of oil or grease to the blades. This will increase blade life. Also grease all lubricating points.
- Keep tire pressure equal on all wheels. The amount of the pressure will depend on the size of the tires, weight of the disc and field conditions.
- See Fig. 16. For disc equipped with optional T2-215 gang bearing. If T2-215 series bearings must be dismantled, a set screw must be removed (at bottom of casting) before seal cap can be removed.



**CAUTION: DO NOT SERVICE DISC WHILE IT IS IN MOTION. YOU MAY FALL IN FRONT OF DISC AND BE SERIOUSLY INJURED.**

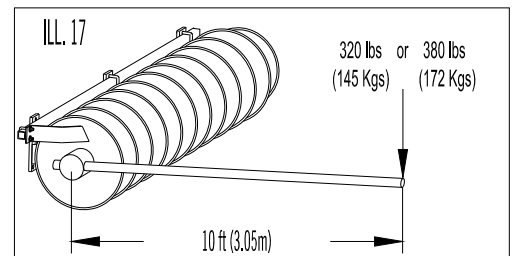
**CAUTION: LOWER DISC COMPLETELY TO GROUND WHEN SERVICING. IF DISC MUST BE SERVICED IN RAISED POSITION, LOCK IN RAISED POSITION USING DEPTH CONTROL STOPS. IF ANY COMPONENTS SHOULD FAIL, OR IF HYDRAULIC LEVER SHOULD BE ACCIDENTLY OPERATED, DISC COULD DROP.**

- See Fig. 16..When reinstalling hanger on **T2-215 bearings** (if gangs are dismantled) do not over tighten the 5/8" x 10" (16 x 254mm) bolts which fasten hanger to bearings. Turn locknut until it is snug against bearing hanger. The bolt may break during field operations if it is tightened using a normal torque.
- All bolts and nuts should be checked periodically to make sure they are tight. Special attention should be given to gang bolts, bearing bolts and bearing hanger U-bolts, and wheel bolts.

They should be tightened as follows:

- Σ Gang bolts 1-15/16" (49 mm) Diameter - tighten to 3200 ft. lbs torque (4339 N.m) – Model 1225  
- tighten to 3800 ft. lbs. torque (5152 N.m) – Model 1275 & 1375
- Σ Gang beam bolts 1-1/4" (31.7 mm) Diameter --- 840 ft. lbs (1139 N · m)
- Σ Levelling crank bolt 1-1/4" (31.7 mm) Diameter - 840 ft. lbs (1139 N · m)
- Σ Wheel bolts 9/16" (14.2 mm) Diameter ----- 150 ft. lbs (203 N · m)
- Σ Bearing hanger u-bolts 7/8" (22 mm) Diameter -- 430 ft. lbs (583 N · m)

**IMPORTANT!!!**  
**SEVERE DAMAGE WILL OCCUR IF GANG BOLTS ARE LOOSE.**



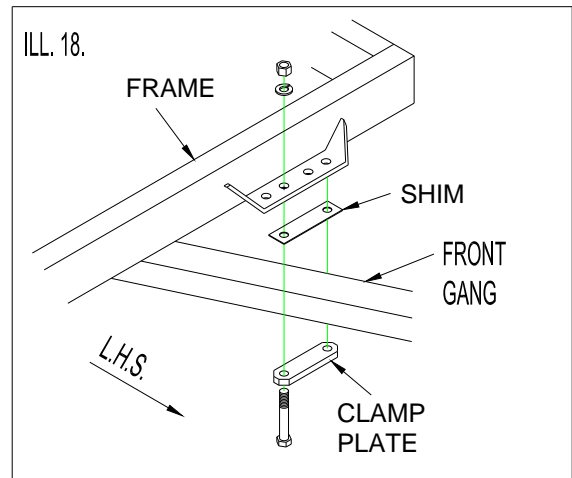
See Fig. 17. To tighten gang bolt to 3200 ft. Lbs (4339N.m) install a 10ft. (3.05m) bar in socket wrench and apply 320 Lbs. (145Kgs) of force to end of bar. Similarly 3800 ft. lbs. (5152 N.m) would require 380 lbs (172Kgs) of force to end of 10 ft. bar.

**IMPORTANT:** After repairing a gang, the gang bolt should be retightened after 2 hours of operation

## TROUBLE SHOOTING

1. If front outside blade on right hand side is cutting too deep, causing disc to ridge at outside, the following adjustments can be made:
  - a) Check if transport wheels are on ground, gauging discing depth. If wheels are raised off ground, front end of disc will drop, causing disc to ridge on right hand side. See section "h" of GENERAL OPERATING INSTRUCTIONS on page 10.
  - b) Check tire pressure. If tire pressure is lower on right hand side disc will cut deeper on the right hand side.
  - c) Using the leveling crank, raise front of disc. See ILL. 12 on page 16.
  - d) If above adjustments don't cure problem, place shims between front gang beam and left hand side of disc frame. Locate shim as shown in ILL. 18.

2. If left hand gangs are leaving ridges at the outside of disc, move rear gang towards right hand side or decrease discing speed.
3. If left hand gangs are leaving a furrow at outside of disc, move rear gang toward left hand side of increase discing speed.
4. If left hand side of disc cuts deeper than the right hand side or opposite check tire pressure.
5. If disc is not penetrating soil, increase angle of front and rear gangs. See section 1 of ADJUSTMENTS on page 14. If increased gang angle does not give desired penetration, disc may be to light. See your EZEE-ON dealer.



6. If disc is pushing dirt and leaving ridge at the outside, decrease cutting angle of front and rear gangs. See section 1 of ADJUSTMENTS on page 15.
7. If rear of disc side drafts towards right hand side, the following adjustments can be made:
  - a) Reduce pressure on rear gangs by raising rear gangs with leveling crank. Be sure front gangs are not cutting deeper than rear gangs. See ILL.12 on page 16.
  - b) If above adjustment does not cure problems, move hitch towards left hand side. If hitch can not be moved enough, loosen gang clamp plates, arrow 1, and move both front and rear gangs approximately 4" towards the right hand side. See ILL. 11. (Move gangs more if required)

**NOTE: THE HITCH FOR MODEL 1225N AND 1275N SERIES DISCS CAN NOT BE ADJUSTED LATERALLY, THEREFORE ADJUSTMENT TO ELIMINATE SIDE DRAFT MUST BE MADE BY MOVING GANGS.**

8. If rear disc side drafts towards left hand side, the following adjustments can be made:
  - a) Increase pressure on rear gang by lowering rear gangs with leveling crank. See ILL. 12 on page 16.
  - b) If above adjustments does not cure the problem, move hitch towards right hand side. If hitch can not be made enough, loosen gang clamp plates, arrow 1, and move both front and rear gangs approximately 4" towards left hand side. See ILL. 11 on page 15. (Move gangs more if required)

**NOTE: THE HITCH FOR MODEL 1225N AND 1275N SERIES DISC CAN NOT BE ADJUSTED LATERALLY, THEREFORE ADJUSTMENTS TO ELIMINATE SIDE DRAFT MUST BE MADE BY MOVING GANGS.**

9. If disc is plugged - adjust scrapers so they are fully in contact with blades or reduce angle.

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