

Ezee-On

MODEL 8550 DISC HEAVY DUTY OFFSET

OWNER'S MANUAL

c/w

**Assembly Instructions
and
Parts List**

Manufactured by
Ezee-On Manufacturing
Vegreville, Alberta Canada

739J

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: ____/____/____
Model _____ Width _____ Serial # _____ ☐ New Machine ☐ Demo
Unit _____

Items for Dealership technician to inspect prior to delivery:

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

- | | |
|---|--|
| ☐ Give the Operator's Manual to your customer | ☐ Connect hydraulics, wiring harness, safety chain, etc. |
| ☐ Inform your customer of all safety precautions, maintenance procedures, and proper operation of the Disc | ☐ Ensure machine functions properly. (Fold/Unfold, no leaks, lights work, etc) |
| ☐ Verify correct serial number | ☐ Take the Disc to a field (preferably where the ground is level, if possible) and perform all required leveling adjustments. Follow the Operator's Manual |
| ☐ Attach Disc to tractor | ☐ Explain warranty and fill out registration |
| ☐ Ensure hitch jack is in transport position | ☐ 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, Coulter Drills, 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, coulter 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, coulter 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

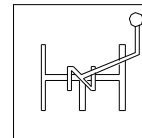
1. When assembling disc, use aligning punch to line up holes. Keep fingers out of holes. Any sudden movement of heavy components will severely injure or sever your fingers.
2. Use adequate manpower or hoist to lift the heavy components into place. Attempting to lift heavy components by yourself could 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 and wing frames 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 shaft is unpinned and cycled to fill the cylinder with oil, it can be seriously damaged if clevis of shaft strikes rockshaft arm.
11. When assembling gangs be sure adequate support is placed under main frame and wing frames. Do not use lock out valves as safety device to prevent frame from falling. 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 disc.
3. If disc must be serviced in raised position, place blocks under frame. If the hydraulic system failed or if the hydraulic lever was accidentally operated, the disc could drop suddenly.
4. 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.
5. Before applying pressure to a hydraulic system, make sure all components are tight and hoses and couplings are in good condition.
6. Relieve pressure from hydraulic cylinder before servicing or disconnecting from tractor.
7. Always wear safety glasses or goggles and gloves when working on hydraulic system.
8. Clear the area of bystanders when carrying out any maintenance and repairs or making any adjustments.
9. Place stands or blocks under the frame before working beneath the machine or when changing tires.
10. Use only tools, jacks and hoists of sufficient capacity for the job.
11. When inflating tires use a clip-on chuck and air hose extension which will allow operator to stand clear of the 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.

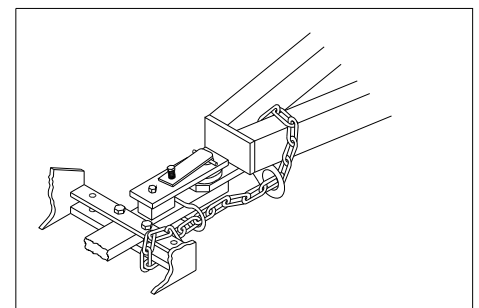
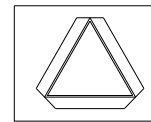


HYDRAULIC SAFETY

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, exposed, 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 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. Clean reflectors, SMV and lights before transporting.
6. Attach disc securely to tractor using a hardened pin and a safety chain.
7. Do not exceed a safe travel speed.
8. Use hazard flasher on tractor and disc when transporting.
9. Stay away from overhead power lines when folding or unfolding wings and during transport.
10. Before applying pressure to the hydraulic system, make sure all components are tight and that hoses and couplings are in good condition.
11. 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 activity.
2. Do not permit children to play on or around parked implement.

SPECIFICATIONS

MODEL	APPROXIMATE CUTTING WIDTH	NO. of BLADES	SPACING	NO. of WHEELS	NO. of GANG BEARINGS
8554-17B	9-1/2' (2.9m)	17	14" (356mm)	4	6
8554-19B	10-1/2' (3.2m)	19	14" (356mm)	4	6
8554-21B	11-1/2' (3.5m)	21	14" (356mm)	4	8
8554-23B	12-1/2' (3.8m)	23	14" (356mm)	4	8
8554-25B	14' (4.3m)	25	14" (356mm)	4	10
8554-27B	15-1/2' (4.7m)	27	14" (356mm)	4	10

TIRE SIZE - 12.5L x15 FI Load Range AF≡

TIRE INFLATION - 85 PSI - (586 kPa)

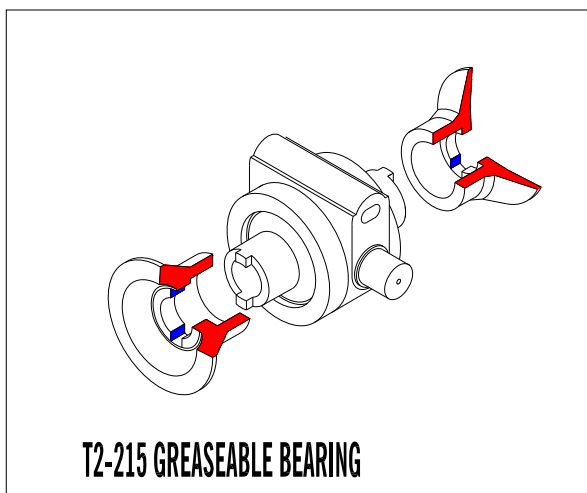


CAUTION: WHEN INFLATING TIRES USE A CLIP-ON CHUCK AND HOSE EXTENSION WHICH WILL ALLOW OPERATOR TO STAND CLEAR OF TIRE AND WHEEL ASSEMBLY. DO NOT STAND IN FRONT OF OR OVER TIRE WHEN INFLATING. EXPLODING TIRE AND WHEEL PARTS CAN CAUSE SERIOUS INJURY OR DEATH.

GANG ANGLE - Front & Rear Gang Angles - 22 and 25 degrees

BOLT TORQUES - Gang Bolts1-15/16" (49mm) Diameter 3800 ft. lbs. (5152 N.m)
 Gang Beam Bolts1-1/2" (38.1mm) Diameter 1940 ft. lbs. (2630 N.m)
 Wheel bolts9/16" (14.2mm) Diameter 150 ft. lbs. (203.0 N.m)
 Bearing Hanger U-Bolts.....7/8" (22mm) Diameter 430 ft. lbs. (583.0 N.m)

GANG BEARINGS

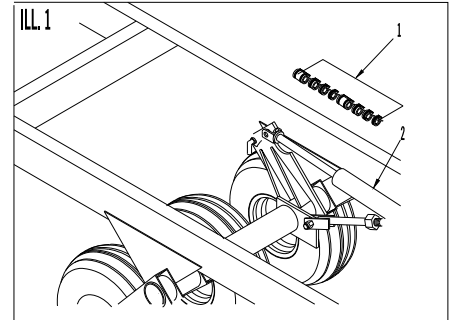


GENERAL OPERATING INSTRUCTIONS



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

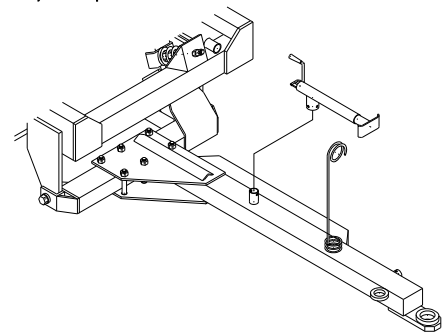
1. Before operating disc, refer to safety precautions on pages 4 to 7. Review disc safety items applicable to road transport and field operation of disc.
2. Do not make sharp turns with the disc in ground. Sharp turns put excess pressure on the gangs. It is advisable to always lift machine out of ground for making sharp turns. Excessive side thrust is applied to bearings and machine if disc is turned while it is in the ground.
3. For best performance, the tractor drawbar should be pinned at centre of tractor.
4. Ensure that disc is level and cutting depth is properly adjusted, see Section 10 on page 10.
5. SEE ILL. 1. Before transporting disc, lock wheels in down position by installing all the depth control segments (17-1/2" Lg) arrow 1, on lift cylinder, arrow 2.



CAUTION: WHEN TRANSPORTING THE DISC, ALWAYS LOCK THE ROCKSHAFT BY INSTALLING ALL DEPTH CONTROL SEGMENTS (17-1/2" Lg) ON LIFT CYLINDER. IF THE HYDRAULIC SYSTEM FAILED, OR IF THE HYDRAULIC LEVER WAS ACCIDENTALLY OPERATED, THE DISC COULD DROP, RESULTING IN SERIOUS DAMAGE TO THE DISC AND SERIOUS INJURY OR DEATH TO OPERATOR AND PERSON(S) NEARBY.

6. **IMPORTANT:** When transporting disc, **DO NOT** exceed speed of 20 MPH (32 km/h). Reduce speed on rough roads or surfaces.
7. **IMPORTANT:** See ILL. 4. 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 frame, and hitch, which could lead to premature parts failure, especially outside blades of front gangs. To level disc adjust levelling crank, arrow 1. To lower front gangs turn crank in. To raise front gangs turn crank out.
8. **IMPORTANT:** Hitch jack must be placed as shown in ILL. 2 when disc is in motion, and as shown in ILL. 2 when jack supports hitch.

ILL. 2 Pin hitch jack to top of hitch when disc is in use.



IMPORTANT: If hitch jack is placed in horizontal position on side mount tube (ILL. 3) when operating disc, jack could be severely damaged by tractor tire when turning.

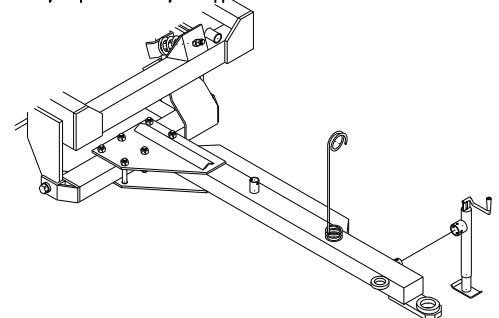


CAUTION: DO NOT EXCEED 20 MPH (32 km/h) WHEN TRANSPORTING DISC ON SMOOTH ROADS. REDUCE SPEED WHEN TRANSPORTING ON ROUGH ROADS. EXCESSIVE SPEED COULD CAUSE LOSS OF TRACTOR CONTROL AND DAMAGE TO DISC AND TRACTOR. DO NOT TRANSPORT DISC WITH ANY OTHER VEHICLE EXCEPT TRACTOR.



ALWAYS USE HAZARD WARNING FLASHERS ON TRACTOR WHEN TRANSPORTING UNLESS PROHIBITED BY LAW.

ILL. 3 Hitch jack position when jack supports hitch.



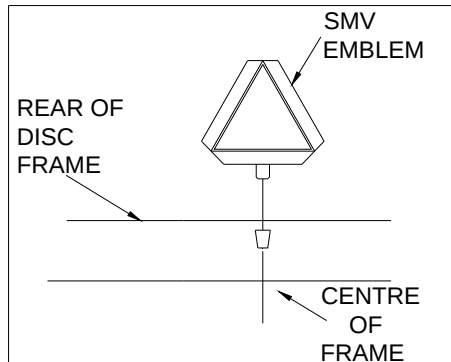
9. **IMPORTANT:** When disc is parked with blades resting on frozen ground, do not attempt to lift disc out of frozen ground by lowering transport wheels. Lifting disc out of frozen ground with transport wheels may cause serious damage to disc components. Damage will most likely occur to lift cylinder and rockshaft cylinder arm.



CAUTION: Always put all tractor controls in neutral, set the park brake and shut the engine off before servicing the disc. If the tractor and disc were to roll, you could be seriously or fatally injured.

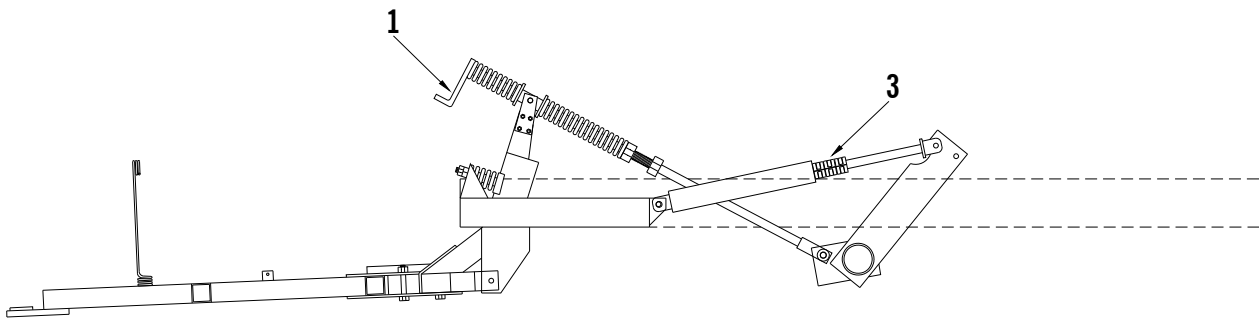


CAUTION: When trailing the disc over public roads, use the SMV emblem and warning lights for protection of tractor and other motor vehicle operators. Check local laws for width and weight maximums.



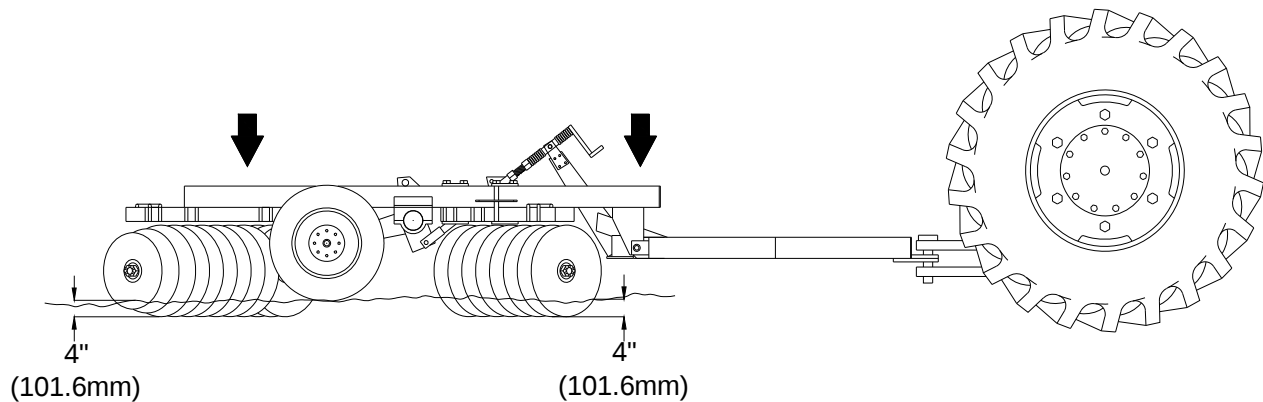
CAUTION: When operating on hillsides, use extreme care. Tractor may tip sideways, if it strikes holes, ditch or other irregularities.

ILL. 4



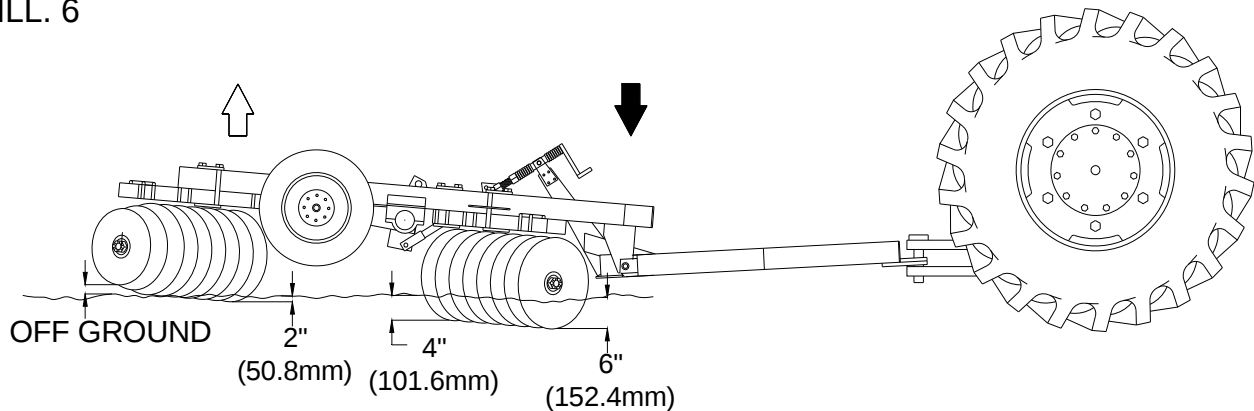
10. **SETTING DISCING DEPTH** - See ILL. 4. To set discing depth lower disc into the ground while moving forward until disc reaches desired discing depth. Install the necessary depth control stops, arrow 3, on lift cylinder shaft to maintain the desired cutting depth.
11. **IMPORTANT:** Before disconnecting hydraulic hoses from tractor, release pressure in hydraulic cylinders. Serious damage could occur to hydraulic cylinder if oil expansion takes place due to warm weather or if disc is stored in heated building.

ILL. 5



CORRECT - WHEELS ON GROUND GAUGING DISCING DEPTH

ILL. 6



INCORRECT - WHEELS OFF GROUND

12. To keep disc level, transport wheels must be in contact with ground, to gauge desired discing depth, as shown in ILL. 5.

If conditions are such that disc can not penetrate to maximum depth, do not raise transport wheels off ground as shown, in ILL. 6. Raised transport wheel will cause front of disc to drop causing front gangs to cut deeper than rear gangs.

Front of disc will drop because rockshaft and hitch are linked. Hitch rises when wheels are raised off ground. Since hitch is fixed to tractor drawbar, 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 outside blades will cut much deeper than the front inside blades. This means most of the disc's weight is placed on the front outside blade, forcing them deep into the ground.

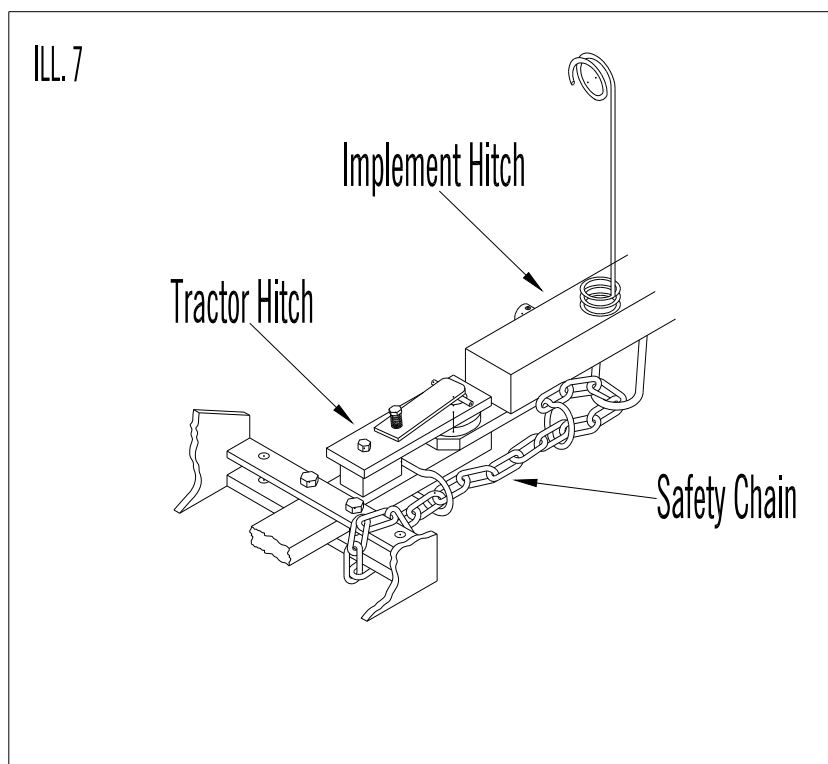
Uneven and deep front gang penetration in tough conditions will place excessive strain on blades, gang bearings, frame and hitch will probably lead to a premature failure of parts, especially outside blade of front gangs.

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.



CAUTION: Never allow anyone to ride on drawbar of the tractor or on the disc. The person riding may fall and be seriously injured.

13. See ILL. 7. Attach a safety chain to the tractor drawbar (or transport vehicle's hitch) and to the disc's hitch before transporting the disc. Use a chain with strength rating greater than the gross weight of disc (safety chain available as an option).



CAUTION: When transporting disc, be sure to attach safety chain to tractor drawbar and disc hitch. The safety chain will help control disc should it accidentally separates from the tractor drawbar. Use chain with a strength rating greater than the gross weight of the implement. Serious damage, injury or death could result from the disc separating from the transport vehicle's hitch.



CAUTION: WHEN TRANSPORTING THE DISC OVER PUBLIC ROADS OR HIGHWAYS, ALWAYS CHECK LOCAL LAWS REGARDING WIDTH, HEIGHT AND WEIGHT RESTRICTIONS.



WARNING: BE SURE ALL AMBER AND RED LIGHTS ARE WORKING TO SAFEGUARD AGAINST REAR END COLLISIONS. DAYBREAK AND DUSK ARE PARTICULARLY DANGEROUS.



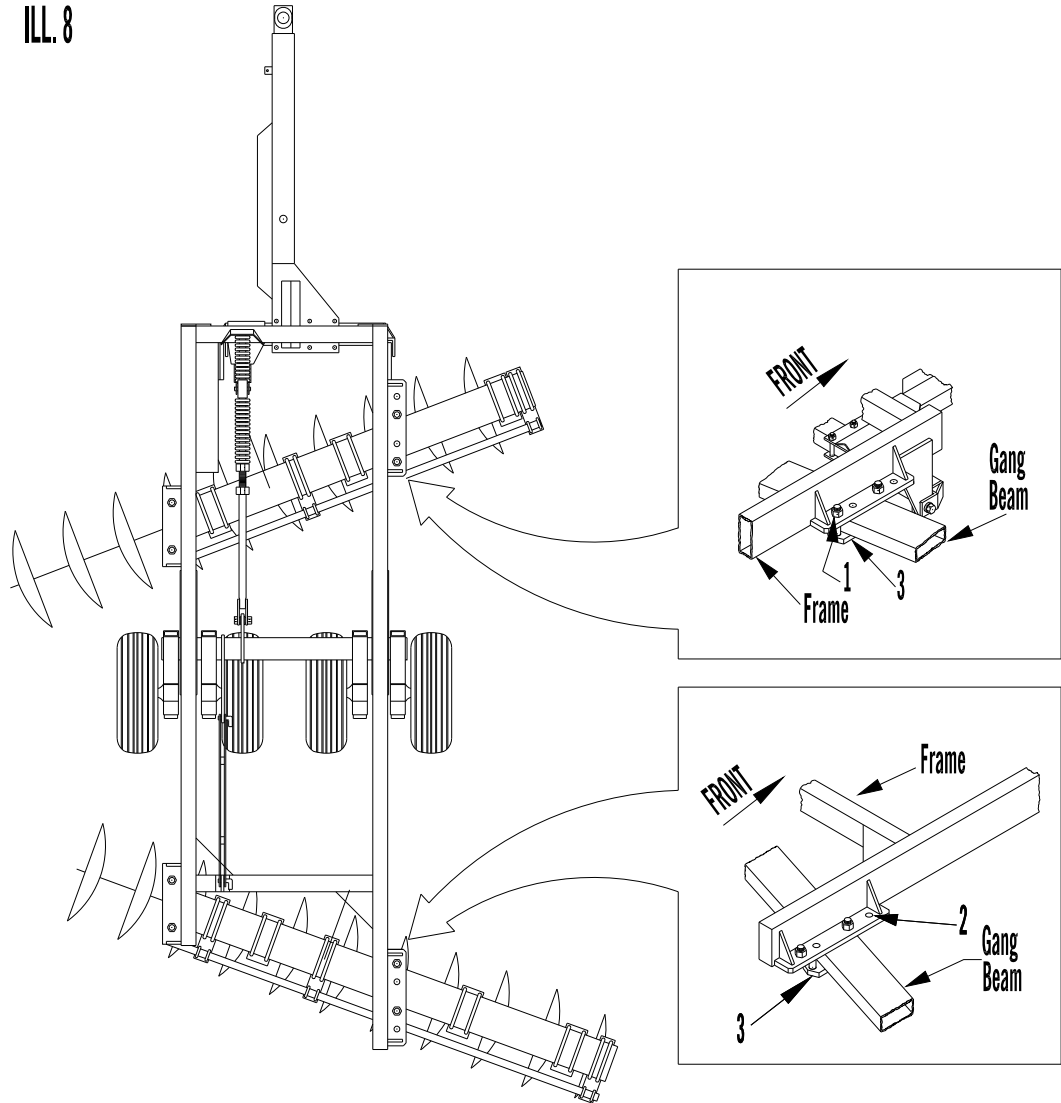
WARNING: NEVER ALLOW ANYONE TO RIDE ON DRAWBAR OF THE TRACTOR OR ON THE DISC. THE PERSON RIDING MAY FALL AND BE SERIOUSLY INJURED.



WARNING: ALWAYS LOWER THE DISC TO THE GROUND WHEN SERVICING OR MAKING ADJUSTMENTS. IF THE DISC MUST BE SERVICED OR ADJUSTED IN THE RAISED POSITION, MAKE SURE FRAME IS ADEQUATELY BLOCKED. DO NOT RELY ON HYDRAULIC LOCK-UP VALVES AS A SAFETY DEVICE. IF ANY COMPONENT OF THE HYDRAULIC SYSTEM FAILED, OR IF THE HYDRAULIC LEVER WAS ACCIDENTALLY OPERATED, THE DISC COULD DROP SUDDENLY.

14. **VERY IMPORTANT:** WHEN PARKING OR STORING DISC, ALWAYS RELIEVE PRESSURE IN HYDRAULIC CYLINDERS. HYDRAULIC CYLINDER OR OTHER COMPONENTS COULD FAIL IF THERMAL EXPANSION OF HYDRAULIC OIL TAKES PLACE DUE TO WARM WEATHER OR IF DISC IS STORED IN HEATED BUILDING.

ILL. 8



ADJUSTMENTS

1. SETTING ANGLE OF FRONT AND REAR GANGS: See ILL. 8.

NOTE: Gang angle adjustments are made on right hand side of frame.

The gangs can be set at 2 different angles. The angles the gangs are set at is determined by soil conditions. A field with hard soil will require more cutting angle to penetrate soil then a field with soft soil. If disc pushes dirt instead of cutting through, less cutting angle is required.

Initially, a medium angle setting is recommended.

Front gang should be set at the same angle as the rear gang. For example, if rear bolt, arrow 1, of front gang is installed in the rear hole, then the rear bolt, arrow 2, of rear gang must be installed in second hole from rear as shown in ILL. 8.

IMPORTANT: Excessive gang angle add pressure to the gangs and will decrease the life of the bearings, blades, etc.
When gangs are set at an extreme angle, more horsepower is required to pull disc.

2. LATERAL ADJUSTMENT OF THE FRONT GANGS (See ILL. 8):

- a) Position front gang so that there is 1 more blade extended beyond the left side of frame than the right side of frame.

3. LATERAL ADJUSTMENT OF THE REAR GANGS (See ILL. 8):

The proper position of rear gang will result in level discing job. The discing speed, discing depth, gang angle, soil conditions will have a bearing on this setting. If the rear gang is set too far to the left hand side rear gangs will leave a ridge on left hand side. If rear gang is set too far to the right hand side, rear gangs will leave a furrow on left hand side.

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

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

To start with, set rear gangs so the leading edge of the outside blade on the left side lines up with the centre of the second blade of the front gang, as shown in ILL. 8, then adjust to suit your discing depth, speed and soil conditions.

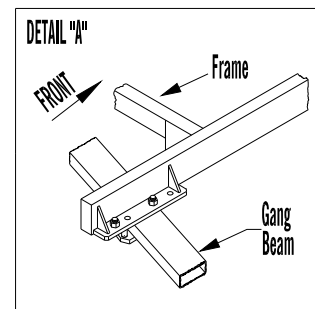
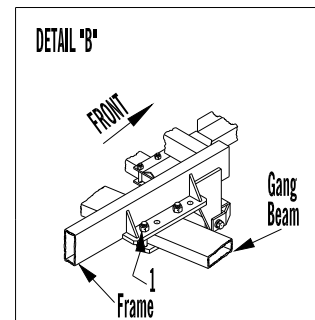
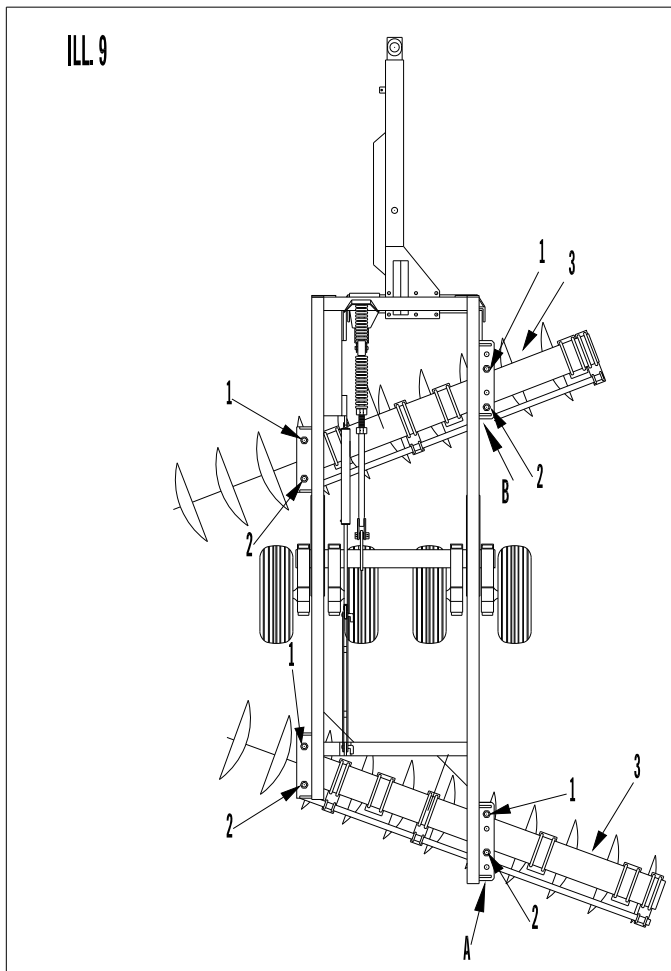
NOTE: If bearing hanger restricts movement of rear gangs, make desired adjustment by moving the front gang.

**YOUR SAFETY IS IN
YOUR HANDS**

BE ALERT!!!

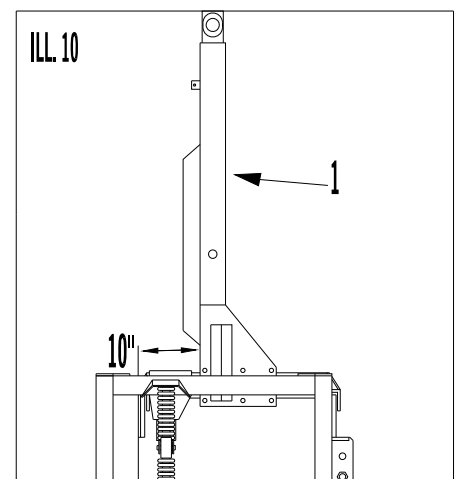
4. See ILL. 9. When gang adjustments are complete, tighten gang beam clamp plate bolts, arrows 1 and 2. Before tightening clamp plate bolts, be sure gang beams, arrow 3, are placed against rear clamp plate bolts, arrow 2.

IMPORTANT: The clamp bolts must be kept tight at all times. If clamp bolts are loose, serious damage will occur to frame gang beam, clamp plate and 1-1/2" bolts.

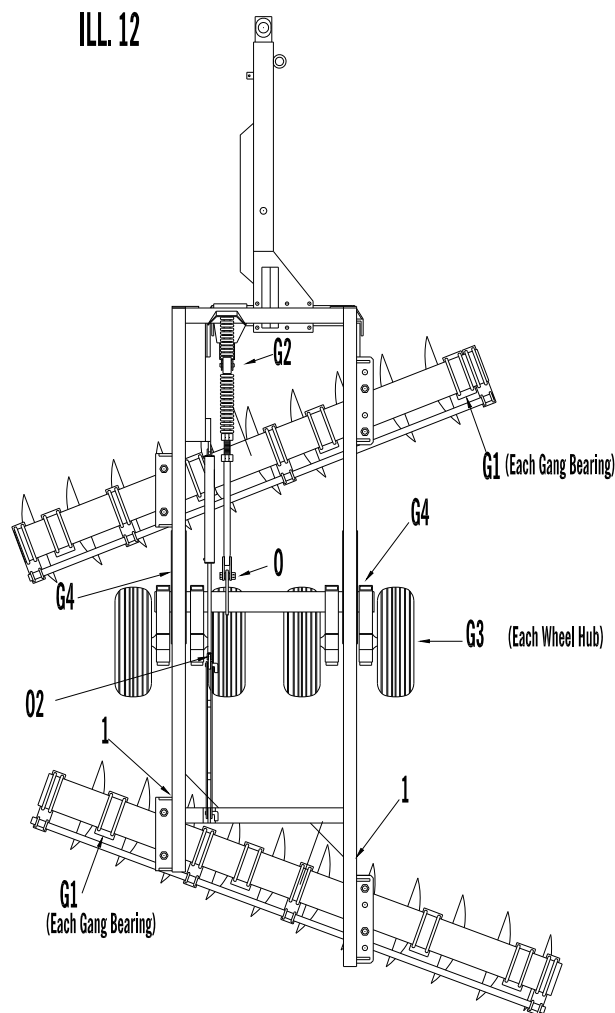
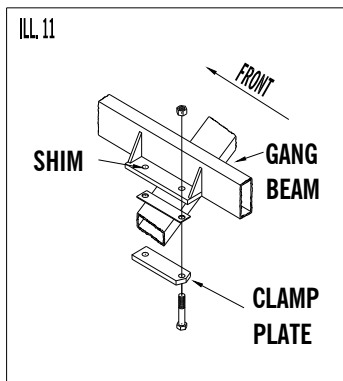


5. See ILL. 10. Hitch tongue, arrow 1, should be fastened 10" from left side of drawbar.

If disc side drafts, further hitch adjustments may be required. See page 10 of TROUBLE SHOOTING.



MAINTENANCE



1. Lubrication - All lubrication points on disc are marked with arrow "G" or "O" in ILL. 12.
 - a) T2-215 Gang Bearing - lubricate every 20 hours of operation. Lubricate until grease comes out around seal. Excessive lubrication will not damage seals. Use high quality SAE multi-purpose grease (marked arrow G1).
 - b) Lubricate levelling crank every 100 hours of operation. (Marked arrow "G2")
 - c) Lubricate the wheel hub every 50 hours of operation. (Marked arrow "G3")
 - d) Lubricate top and bottom half of each rockshaft bearing every 20 hours of operation. (Marked arrow "G4")
 - e) Lubricate levelling crank ball joint welded to rockshaft levelling arm with oil or grease (marked arrow "O1"), ball joint should be free to turn in ball joint. Lubricate at the end and beginning of each season.
- a) Lubricate rockshaft cylinder pins (with oil) every 50 hours or operation (marked arrow "O2").

NOTE: When you receive your new disc, grease all lubricating points before starting to disc.



CAUTION: 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 disc.



CAUTION: If the disc must be serviced in the raised position, place blocks under frame. If the hydraulic system failed, or if the hydraulic lever was accidentally operated, the disc could drop suddenly.



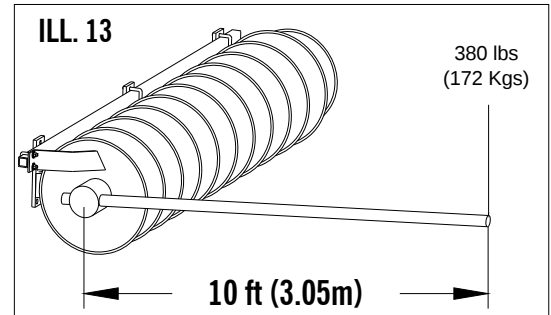
CAUTION: Do not lubricate the disc when it is in motion. You may fall and be seriously or fatally injured.

2. 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 3800 ft. lbs torque (5152 N · m)

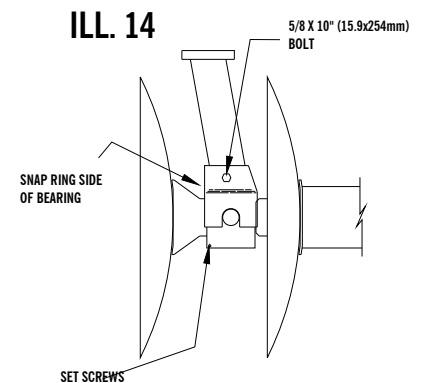
See ILL. 13. To tighten gang bolt to 3800 ft. lbs (5152 N.m) install a 10ft. (3.05m) bar in socket wrench and apply 380 lbs. (172Kgs) of force to end of bar.



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

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

- Σ Gang beam bolts 1-1/2" (38.1 mm) Diameter --- 1940 ft. lbs (2630 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 (203.0 N · m)
- Σ Bearing hanger U-bolts 7/8" (22 mm) Diameter -- 430 ft. lbs (583.0 N · m)



3. When storing disc for a long period of time, grease all lubricating points.
4. Keep the pressure equal on all wheels. The amount of the pressure will depend on size of tires, weight of disc and field conditions.
5. **IMPORTANT:** SEE ILL. 14. IF T2-215 BEARING MUST BE DISMANTLED, DOUBLE SET SCREWS MUST BE REMOVED FROM BOTTOM OF HOUSING TO REMOVE SEAL CAP.
6. See ILL. 14. When reinstalling bearing hanger on **T2-215 Bearing** (if gang is dismantled) do not over tighten the 5/8" x 10" (15.7 mm x 254 mm) bolts, which fasten hanger to bearing. Turn lock nut until it is snug against bearing hanger. The bolt may fail prematurely if it is over tightened.
7. See ILL. 14. If T2-215 series bearings must be dismantled, double set screws must be removed (at bottom of casting) to remove seal cap.



CAUTION: WHEN INFLATING TIRES USE A CLIP-ON CHUCK AND AIR 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.



CAUTION: DO NOT LOOSEN OR DISASSEMBLE HYDRUALIC COMPONENTS WHEN THERE IS PRESSURE WITHIN THOSE COMPONENTS. ESCAPING HYDRAULIC FLUID UNDER PRESSURE HAS SUFFICIENT FORCE TO PENETRATE SKIN. ALWAYS RELIEVE THE PRESSURE IN THE HYDRAULIC SYSTEM BEFORE MAKING ADJUSTMENTS TO THE HYDRAULIC SYSTEM.



CAUTION: CHECK ALL HYDRAULIC HOSES PERIODICALLY FOR SIGNS OF RUPTURES AND LEAKS. ALWAYS USE WOOD OR CARDBOARD AS A BACKSTOP, AND WEAR GLOVES AND EYE PROTECTION WHEN SEARCHING THE HYDRAULIC SYSTEM FOR LEAKS. SPURTING HYDRAULIC FLUID CAN CAUSE INJURY IF IT PENETRATES THE SKIN OR THE EYES. IF INJURED BY ESCAPING HYDRAULIC FLUID, SEE A MEDICAL DOCTOR IMMEDIATELY.



CAUTION: ALWAYS RELIEVE THE PRESSURE IN THE HYDRAULIC SYSTEM WHEN THE DISC IS NOT BEING OPERATED.



CAUTION: ALWAYS PERMIT PARTS WHICH CONTAIN HOT FLUID TO COOL TO A SAFE TEMPERATURE BEFORE HANDLING OR DISCONNECTING THESE PARTS.

GANG BEAM CHART
14" (356mm) BLADE SPACING GANG BEAMS

DISC	NO. of BLADES FRONT GANG	FRONT GANG BEAM LENGTH	NO. of BLADES REAR GANG	REAR GANG BEAM LENGTH
17 BLADE – (9-1/2')	8 BLADES	121" (3073mm)	9 BLADES	136" (3454mm)
19 BLADE – (10-1/2')	9 BLADES	136" (3454mm)	10 BLADES	150" (3810mm)
21 BLADE – (11-1/2')	10 BLADES	150" (3810mm)	11 BLADES	165" (4191mm)
23 BLADE – (12-1/2')	11 BLADES	165" (4191mm)	12 BLADES	179" (4547mm)
25 BLADE – (14')	12 BLADES	179" (4547mm)	13 BLADES	194" (4928mm)
27 BLADE – (15-1/2')	13 BLADES	194" (4928mm)	14 BLADES	209" (5309mm)

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 "12" of GENERAL OPERATING INSTRUCTIONS on page 11.
 - 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 Paragraph 7 on page 9.
 - 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. 15.
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 14.
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 Paragraph 7 on page 9.
 - 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 Section 3 on Page 15. (Move gangs more if required).
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 Paragraph on page 9.
 - 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).
9. If disc is plugged - adjust scrapers so they are fully in contact with blades or reduce angle.

