

Ezee-On

MODEL 395 TANDEM DISC

OWNER'S MANUAL

c/w

ASSEMBLY INSTRUCTIONS

and

PARTS LIST

Manufactured by

Ezee-On Mfg. Ltd.

**Vegreville, Alberta
Canada**

Printed in Canada

724G

EZEE-ON MANUFACTURING

Limited Warranty Policy

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 – steel, tanks – air cart seed and fertilizer tanks, seed cups, metering rollers.

NON Ezee-On manufactured components are, but not limited to: Monitors, tires, rims, bearings, hydraulics: motors, pumps, controls, cylinders, hoses and valves; sprockets, chain, rubber packer wheel tires, polyurethane wheel mounted 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, Disc openers and Disc blades, air seeder hose and 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.

Revision: September 1, 2004



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Tandem Disc Pre-Delivery Inspection/ Warranty Registration

Dealership _____ Location _____ Delivery Date: _____
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 overlap measurement of front gangs (Does not apply to model 395) |
| <input type="checkbox"/> Check the correct # of depth stops are installed on mounting bar. (8)
*(Model 395 Offset disc has only (5) depth stop segments) | <input type="checkbox"/> Check opening measurement between two inner blades of rear main frame gangs |
| <input type="checkbox"/> Set front and rear gangs at medium angle (if adjustable) | <input type="checkbox"/> Check all electrical components (safety lights) and connections |
| <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 cover 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. Follow the Operator's Manual |
| <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 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

INTRODUCTION

THANK YOU for choosing to purchase this Ezee-On implement, we are confident you will be impressed with its performance.

In addition to the traditional values of simplicity, reliability and durability, your new EZEE-ON implement incorporates a number of operational and safety features. We urge you to familiarize yourself with the maintenance and operation of your implement by reading this Manual thoroughly and completely. Failure to do so could result in personal injury or equipment damage.

THIS MANUAL contains important information regarding assembly, maintenance, operating instructions, and troubleshooting problems, and should be considered a permanent part of your implement.

Remember that it is the responsibility of the Operator to ensure that the implement is field ready, prior to first operation. However, should you encounter a problem, please contact your dealer immediately.

EZEE-ON MFG. LTD. RESERVES THE RIGHT to make improvements in design and changes in specifications at any time without notice and without incurring any obligation to install them on units previously sold. Specifications, descriptions, and illustrative material herein are as accurate as known at time of publication, but are subject to change without notice.

READ THIS BOOK CAREFULLY TO ENSURE THAT YOUR NEW IMPLEMENT IS ASSEMBLED AND ADJUSTED CORRECTLY PRIOR TO FIRST OPERATION.



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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SPECIFICATIONS

MODEL NO.	CUTTING WIDTH	NO. OF BLADES	SPACING	NO. OF WHEELS	211 SERIES GANG BEARING
398-34B	11-1/2' (3.5m)	34	8" (203mm)	2	8
398-38B	13' (3.9m)	38	8" (203mm)	2	12
398-42B	14-1/2' (4.4m)	42	8" (203mm)	2	12
398-46B	16' (4.9m)	46	8" (203mm)	4	12
398-50B	17' (5.2m)	50	8" (203mm)	4	12
398-54B	18-1/2' (5.6m)	54	8" (203mm)	4	12
398-58B	20' (6.0m)	58	8" (203mm)	4	12
399-30B	11-1/2' (3.5m)	30	9" (230mm)	2	8
399-34B	13' (3.9m)	34	9" (230mm)	2	8
399-38B	14-1/2' (4.4m)	38	9" (230mm)	2	12
399-42B	16-1/2' (5.0m)	42	9" (230mm)	4	12
399-46B	18' (5.5m)	46	9" (230mm)	4	12
399-50B	19-1/2' (5.9m)	50	9" (230mm)	4	12

Tire Size/Pressure 11-1/2' to 14-1/2' Sizes – 7.60 x 15 6 PR – 40 lbs (276 KPa)
 16' to 20' Sizes – 11L x 15 – 45 lbs (311 KPa)

Gang Bearings - 211 Series (standard)

Front and Rear gang angle – 20 to 23 degrees

Bolt torques: Gang bolts – (1-15/16" diameter) – 3200 ft lbs (4336 N.m)
 Bearing hanger U-bolt – (5/8" diameter) – 150 ft. lbs (203.25 N.m)
 Wheel nuts – 5 bolt wheel – (1/2" diameter) - 85ft lbs (115 N.m)
 Wheel bolts – 6 bolt wheel – (9/16" diameter) – 150 ft lbs (203.25 N.m)

SAFETY RECOMMENDATIONS



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

GENERAL SAFETY

1. Never allow anyone to ride on the tractor drawbar, or on the Disc. The person(s) riding may fall and be seriously or fatally injured.
2. Disc should be operated ONLY by persons responsible and qualified to do so.
3. Never allow anyone to climb or play on the tractor or Disc. They may fall and be seriously injured.
4. Follow all safety precautions in your tractor manual.
5. Keep a First Aid Kit in the tractor at all times.

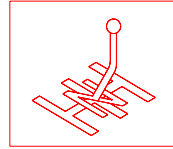


ASSEMBLY SAFETY

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.
6. 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.
7. When attaching gang assemblies, wear protective gloves to prevent injury from cutting edges of blades.
8. Before applying pressure to the hydraulic system, be sure all connections are tight and the components are not damaged.

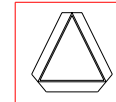
MAINTENANCE SAFETY

1. Do not loosen or disassemble hydraulic components when there is pressure within those components. Hydraulic components under pressure may cause parts and hydraulic fluid to fly out at a high velocity, which could cause serious injury. Always relieve the pressure in the hydraulic system before making adjustments to the hydraulic system. If injured by escaping hydraulic fluid, see a medical doctor immediately.
2. 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.
3. Always relieve the pressure in the hydraulic system when the Disc is not being operated.
4. Always permit parts which contain hot fluid to cool to a safe temperature before handling or Disconnecting these parts.
5. Always wear safety glasses or goggles and gloves when working on the hydraulic system.
6. Lower the Disc to the ground when servicing or making adjustments. If the Disc must be serviced in the raised position, place blocks under frame. Do not rely on hydraulics lock up valves as a safety device. If the hydraulic system failed, or if the hydraulic lever was accidentally operated, the Disc could drop.
7. Do not lubricate Disc while it is in motion. You may fall in front of Disc and be seriously or fatally injured.
8. Always place all tractor controls in neutral and lock brakes when hitching Disc to tractor. Tractor could roll backwards when hitching Disc.

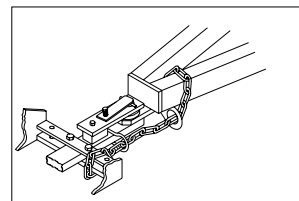


TRANSPORT SAFETY

1. When trailing the Disc over public roads, use the SMV emblem and warning light for protection of tractor and other motor vehicle operators. Check local laws for width and height maximums.
2. When transporting Disc always lock rockshaft by engaging lockup strap. See Section 8 on page 6. If any component of hydraulic system failed or if hydraulic lever was accidentally operated, disc could drop.
3. Do not exceed 10 mph (16 km/h) when transporting the Disc on smooth surfaces. Reduce speed when transporting on rough surfaces. Excessive speed could cause loss of tractor control and damage to Disc and tractor. Do not transport the Disc with any other vehicle except a tractor



4. Always attach a safety chain to the tractor drawbar and the Disc hitch before transporting the Disc. Serious damage and injury could result from the Disc separating from the tractor drawbar.



5. Check all reflectors and visibility and cleanliness before transporting the Disc. It is important that the reflectors are clean and visible, especially during the evening hours.
6. Regulate your speed on hillsides and curves when transporting the Disc. Loss of tractor control could result in serious damage to the Disc and possible serious injury or death to you or those nearby.
7. Never allow anyone to ride on drawbar of the tractor or on the Disc. The person riding may fall and be seriously injured.

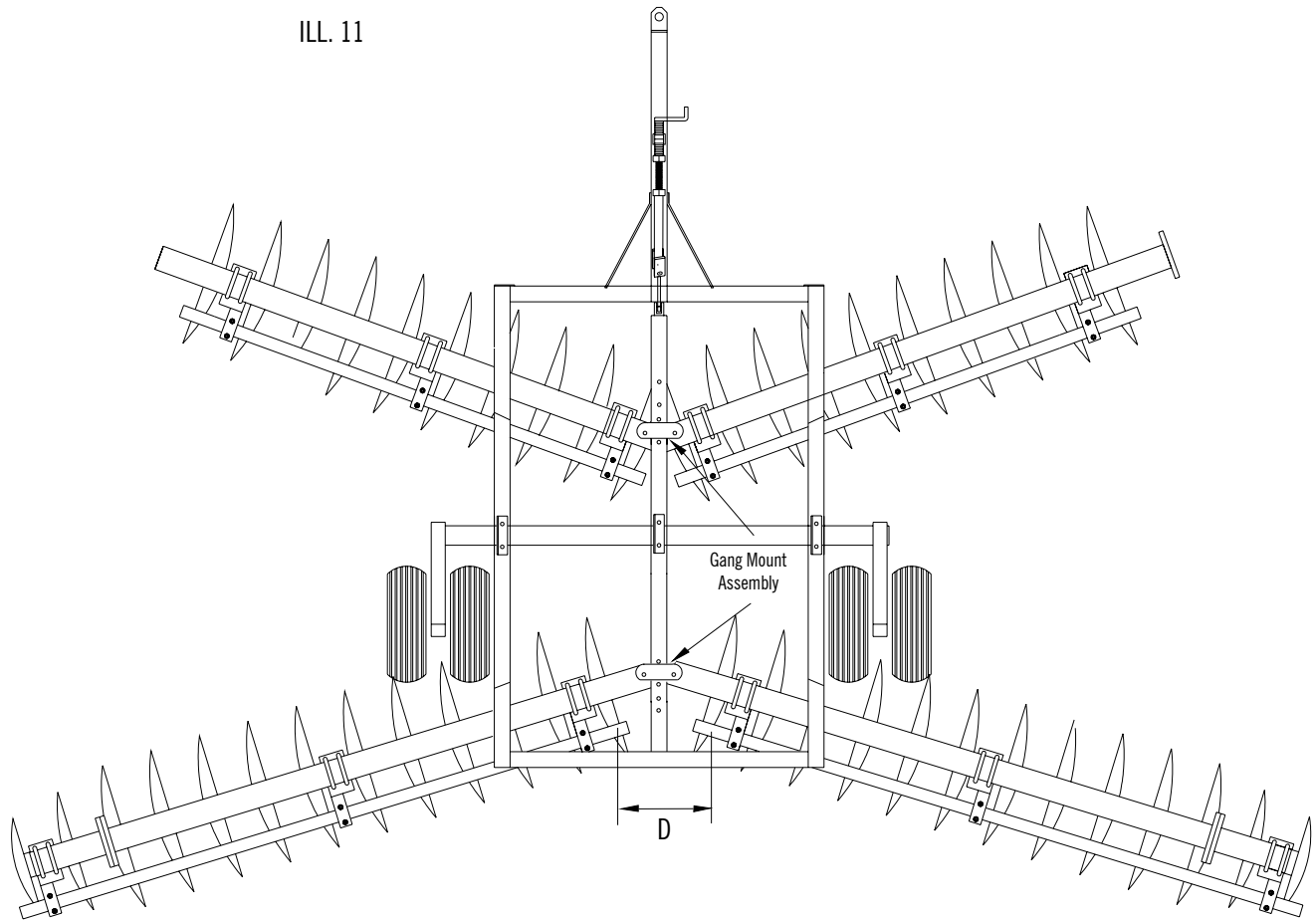
OPERATION SAFETY

1. Be sure person(s) are standing clear before starting or moving the tractor and Disc.
2. Only one (1) person (the operator) should be permitted on the tractor when the Disc is in operation, and he/she should be familiar with repair procedures and temporary first aid treatment.
3. 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 set. The tractor could roll backwards, which could result in serious injury or death to you or person(s) nearby.
4. When operating on hillsides, use extreme care. The tractor may tip over if it strikes a hole, ditch or other irregularity.

SAFETY DECALS

1. Keep all decals clean and in good condition to provide you with a constant reminder of safe operating procedures.
2. Replace any destroyed, missing or illegible decals.

ILL. 11



ADJUSTMENTS

1. See ILL. 11 The gang can be set at four (4) different angles. The gang angle adjustment holes in frame are arranged so that the rear gangs are set at 2 degrees less that the front gangs. For example, if front gangs are set in first hole from rear, and rear gangs are set in first hole from front, then the front gangs will have 2 degrees more angle that the rear gangs.

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 set angle remove center pin from gang mount assembly and select hole which will give desired angle and install center pin.



IMPORTANT:

EXCESSIVE GANG ANGLE WILL PUT ADDED PRESSURE ON THE GANGS AND WILL DECREASE THE LIFE OF BEARING BLADES, ETC. WHEN GANGS ARE SET AT AN EXCESSIVE ANGLE MORE HORSEPOWER IS REQUIRED TO PULL DISC.



CAUTION:

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

2. See ILL. 11. The distance the rear gangs are set apart “D”, is determined by the Discing speed, depth, angle and soil conditions.

The opening between the 2 rear gangs, “D” must be set at a distance that will allow furrow left by the front gangs to be filled evenly. If rear gangs are set too close together the rear gangs will leave a ridge at center. If rear gangs are set too far apart the furrow at center left by the front gangs will not be filled.

If gang angle is increased for deeper discing depth the rear gangs usually must be widened. If gang angle is decreased for a shallower discing depth, the rear gangs usually must be set closer together.

An increase in discing speed may require rear gangs to be set further apart. A decrease in discing speed may require rear gangs to be set closer together.

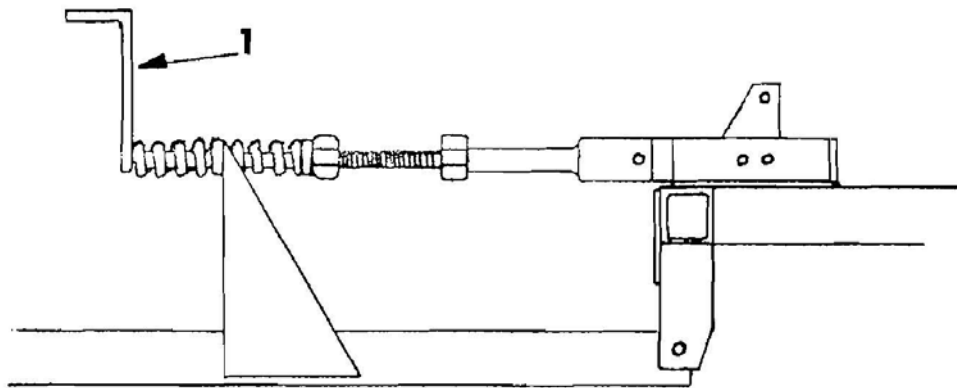
To start with, set rear gangs at distance equal to 2” (50.8mm) less than the diameter of Disc blades. For example, if your disc is equipped with 24” (610mm) blades, set opening at 22”(559mm). Then adjust disc to suit your discing requirements.

3. See ILL. 12. Use the hitch crank, arrow 1, to level Disc so that the front and rear gangs are cutting at the same depth.

Ridging

may occur at the outside of front gang if front gangs are cutting too deep. If rear gangs are cutting too deep, rear gangs may leave a ridge at center of Disc.

ILL. 12



TROUBLE SHOOTING

1. If outside blades of front gangs are cutting too deep, causing Disc to ridge at outside the following adjustments can be made:

- a) Using the leveling crank, raise front of Disc.
- b) See ILL. 13. If raising front of Disc does not cure the problem, place 3/8” (9.4mm) thick shim, arrow 1, between bottom of frame and bottom gang beam bracket, arrow 2, of front spring assembly. Also place a 3/8” (9.4mm) thick washer, arrow 3, between each front gang beam and top gang beam bracket, arrow 4. This will raise front outside disc blades.

ILL. 13



CAUTION: WHEN OPERATING ON HILLSIDES USE EXTRA CARE. TRACTOR MAY TIP SIDEWAYS IF IT STRIKES HOLE, DITCH OR OTHER IRREGULARITIES.

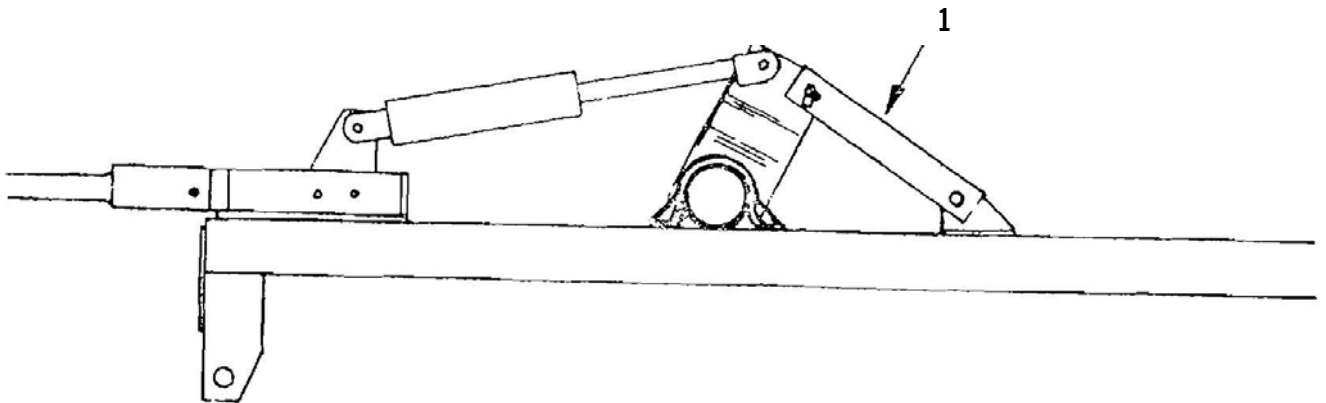
trouble shooting continued:

2. If left hand side of Disc is cutting deeper than right hand side, or vice versa, check tire pressure, low tire pressure on one side of Disc will cause uneven penetration.
3. If Disc is not penetrating soil, increase angle of front and rear gangs. See section 1 of adjustments.
4. If Disc is pushing dirt and leaving ridge at the outside, decrease cutting angle of front and rear gangs. See section 1 of adjustments.
5. If Disc is leaving a ridge at center of Disc, check if rear gangs are cutting deeper than front gangs. If so, level Disc. If leveling Disc does not solve problem, reduce Discing speed or reduce rear gang angle if a reduced angle will give adequate penetration,
or increase distance between rear gangs. See section 2 of adjustments.
6. If disc is not filling furrow at center, check if front gangs are cutting deeper than rear gangs. If so, level disc. If leveling does not solve the problem, increase Discing speed or decrease distance between rear gangs. See section 2 of adjustments.
7. If Disc gangs are plugging, adjust scrapers so they are fully in contact with blades, or reduce gang angle.

GENERAL OPERATING INSTRUCTIONS

1. Do not make sharp turns with the disc in ground. Sharp turns put excess pressure on the gangs.
- IMPORTANT:** 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.
2. For best performance the tractor drawbar should be pinned at center of tractor.

ILL. 14



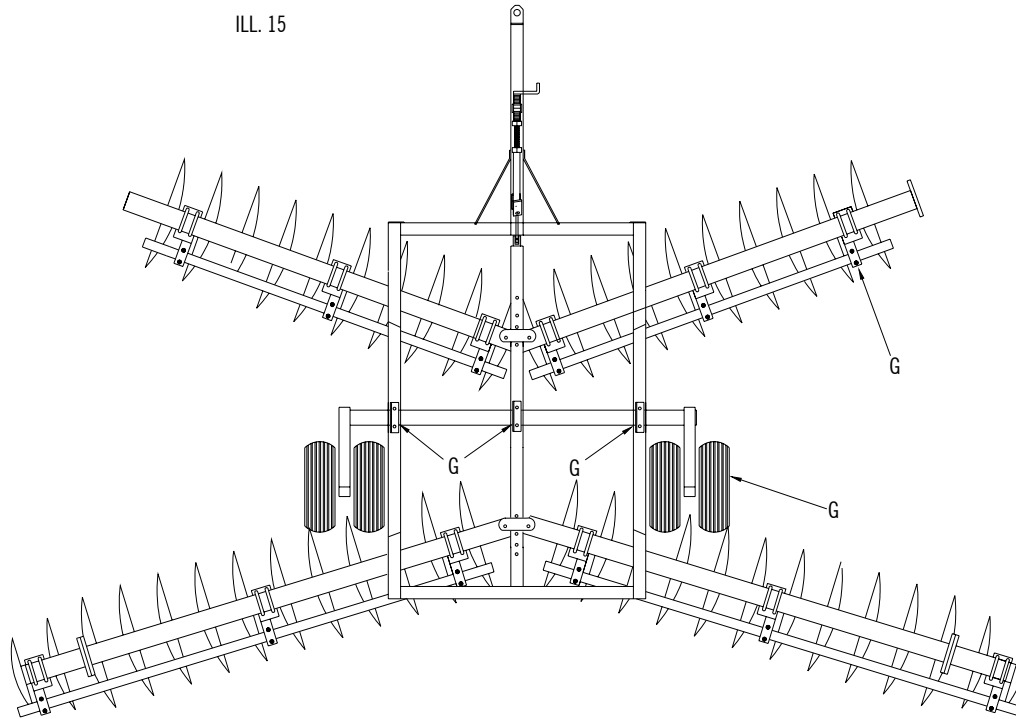
3. See ILL. 14. When transporting Disc be sure to fasten lock-up strap, arrow 1, to rockshaft to place Disc in lock-up position.
4. **IMPORTANT:** When transporting Disc DO NOT exceed speeds of 10 M.P.H. (16 Km/H)



CAUTION: DO NOT EXCEED 10 M.P.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.



CAUTION: DISC MAY FALL REARWARD SUDDENLY AND HITCH MAY RISE ABRUPTLY IF DISC IS UNPINNED FROM TRACTOR WHEN FULL RAISED. ALWAYS USE CAUTION AND ENSURE OTHER PERSONS ARE NOT STANDING NEAR DISC WHEN UNHITCHING FROM FRONT TRACTOR.



MAINTENANCE

1. LUBRICATION – All lubricating points on Disc are marked with arrow G in ILL. 15.

a) GREASEABLE GANG BEARINGS ONLY – Gang bearings may be lubricated every 4 hours with a minimum amount of grease. Use a high quality SAE multi purpose grease.



CAUTION: IF GANG BEARINGS ARE OVER LUBRICATED THERE IS A POSSIBILITY THAT THE SEALS CAN BE PUSHED OUT. THIS IS MORE THAN LIKELY TO HAPPEN WHEN BEARINGS ARE NEW.

b) Lubricate each rockshaft bearing once a day.

c) Lubricate each wheel once a day.

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. If gang bolts come loose, they must be tightened to 3200 ft/lbs (4436 N, m).



CAUTION: SEVERE DAMAGE WILL OCCUR IF GANG BOLTS ARE LOOSE.

3. When storing Disc for a long period of time, apply a light coat of oil or grease to the blades and grease all lubricating points. This will protect blades and all bearings from rusting. Keep tire pressure equal on all wheels. The amount of tire pressure will depend on size of tires, weight of disc and field conditions. See page 1 for tire pressures.



CAUTION: DO NOT LUBRICATE 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 ROCKSHAFT. IF ANY COMPONENT OF HYRAULIC SYSTEM FAILED, DISC COULD DROP.