

Ezee-On

MODEL 8700-LTF DISC HEAVY DUTY TANDEM

**3 Section Frame with
Folding "Flip" Wings**

OWNER'S MANUAL

c/w

**Assembly Instructions
Operating Instructions
and
Parts List**

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

732K

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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Tandem Disc Pre-Delivery Inspection/ Warranty Registration

Dealership _____ Location _____ Delivery Date: ____/____/____
mm dd yyyy

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 overlap measurement of front gangs (Does not apply to model 395) |
| ☐ Check the correct # of depth stops are installed on mounting bar. (8 gangs) | ☐ Check opening measurement between two inner blades of rear main frame |

*(Model 395 Offset disc has only (5) depth stop segments)

- | | |
|---|--|
| ☐ Set front and rear gangs at medium angle (if adjustable) | ☐ Check all electrical components (safety lights) and connections |
| ☐ 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 cover 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 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.

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

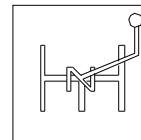
1. When assembling disc, always use an aligning punch to line up holes. Keep fingers out of holes. Any sudden movement of heavy components will severely injure or sever your fingers.
2. Use adequate manpower or hoist to lift the heavy components into place. Attempting to lift heavy components by yourself as this could cause serious injury.
3. Always ensure main and wing frames adequately supported before assembling the components. Inadequate support may result in the heavy components falling and causing serious injury to you or person(s) nearby.
4. Be sure all hardware including bolts and hydraulic fittings are tight and all cotter pins are installed in the slotted nuts and pins.
5. Do not raise or lower the main or wing frames until all components are securely tightened. Loose components will cause serious damage to the disc and serious injury or death to you and person(s) nearby if the main or wing frames fell.

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. To fill the wing lift cylinders with hydraulic fluid, remove the pin from the shaft end of each wing lift cylinder and pump fluid into the cylinders. Extend and contract the cylinders until they are completely filled with hydraulic fluid. The wings will free-fall if the cylinders are not completely filled with fluid, resulting in serious damage to machine or serious injury or death to person(s) nearby.
8. 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.
9. When attaching gang assemblies, wear protective gloves to prevent injury from cutting edges of blades.
10. Before applying pressure to the hydraulic system, be sure all connections are tight and the components are not damaged.
11. Wings will free fall if wing cylinder is not full of oil causing serious damage to machine or serious injury or death to person(s) nearby.
12. 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.
13. 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.
14. 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 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.

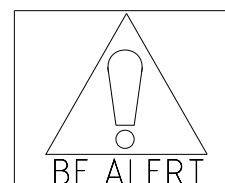
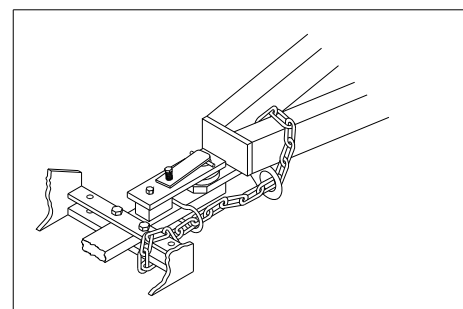
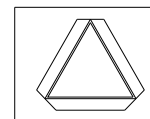


HYDRAULIC SAFETY

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.
9. Stay away from overhead high voltage electrical lines when transporting disc. Electrocutation can occur without direct contact.



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 activity.
2. Do not permit children to play on or around parked implement.

SPECIFICATIONS

Model	Blade Spacing	Approx. Working Width	No. of Blades	No. of Gang Bearings	Bearing Type	Aprox. Transport Width	Approx. Transport Height
					STD.		
8700 LTF - 86	10-1/2" (267 mm)	37' (11.3 m)	86	32	T2-215	17'0" (5.18 m)	13'6" (4.1 m)
8700 LTF - 90	10-1/2" (267 mm)	38-1/2' (11.7 m)	90	32	T2-215	17'0" (5.18 m)	13'6" (4.1 m)
8700 LTF - 94	10-1/2" (267 mm)	40-1/2' (12.3 m)	94	34	T2-215	17'0" (5.18 m)	13'6" (4.1 m)
8700 LTF - 98	10-1/2" (267 mm)	42' (12.8 m)	98	36	T2-215	17'0" (5.18 m)	13'6" (4.1 m)
8700 LTF - 78	12" (305 mm)	38-1/2' (11.7 m)	78	34	T2-215	17'0" (5.18 m)	13'6" (4.1 m)
8700 LTF - 82	12" (305 mm)	40-1/2' (12.3 m)	82	34	T2-215	17'0" (5.18 m)	13'6" (4.1 m)
8700 LTF - 86	12" (305 mm)	42-1/2' (12.9 m)	86	34	T2-215	17'0" (5.18 m)	13'6" (4.1 m)

TIRE LOCATION	TIRE SIZES	PRESSURE
Centre Frame	(4) 15.0/55-17 Load Range A $\equiv$	85 PSI (585 KPA)
Wing Frame	(4) 12.5L x 15 F1, Load Range AD $\equiv$	55 PSI (379 KPA)



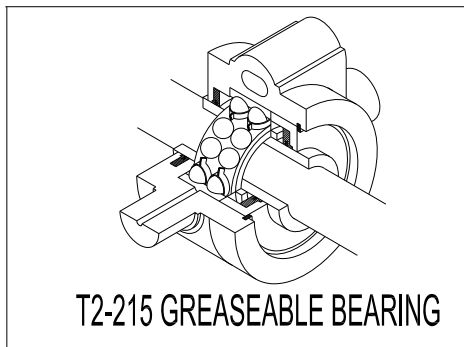
CAUTION: WHEN INFLATING TIRES USE A CLIP-ON CHUCK AND HOSE EXTENSION WHICH WILL ALLOW OPERATOR TO STAND CLEAR OF TIRE AND WHEEL ASSEMBLY. DO NOT STAND IN FRONT OF OR OVER TIRE WHEN INFLATING. EXPLODING TIRE AND WHEEL PARTS CAN CAUSE SERIOUS INJURY OR DEATH.

HYDRAULIC CYLINDERS			
Application	Size	Req=d	Machine Size
Centre Frame Lift	4" x 24" (101.6 mm x 610 mm) Rephasing	1	All Sizes
L.H. Wing Frame Lift	3-1/2" x 24" (88.9 mm x 610 mm) Rephasing	1	All Sizes
R.H. Wing Frame Lift	3" x 24" (76.2 mm x 610 mm) Rephasing	1	All Sizes
Wing Lift	5" x 36" (127 mm x 914 mm)	4	All Sizes
Outer Flip Wing	4" x 24" (101.6 mm x 610 mm)	2	All Sizes

GANG ANGLE: Front Gang -----21 Degree (Fixed)
Rear Gang ----- 19 Degree (Fixed)

BOLT TORQUES: Gang Bolts ----- 1-15/16" (49 mm) Diameter 3200 ft. lbs (4339 N · m)
Gang Beam Bolts ----- 1-1/4" (31.7 mm) Diameter 840 ft. lbs (1139 N · m)
Levelling Crank Bolts ----- 1-1/4" (31.7 mm) Diameter 840 ft. lbs (1139 N · m)
Wheel Bolts ----- 9/16" (14.2 mm) Diameter 150 ft. lbs (203 N · m)
Bearing Hanger U-Bolts -- 7/8" (22.0 mm) Diameter 430 ft. lbs (583.0 N · m)

GANG BEARING



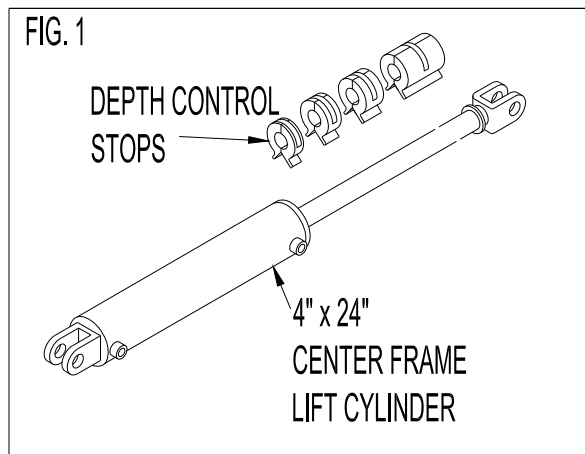
GENERAL OPERATING INSTRUCTIONS

1. Before operating disc, familiarize yourself and other operators with all of the Safety Precautions on pages 4 thru 7 of this Manual. Review safety items applicable to both road transport and field operation of this disc.
2. This machine is a primary tillage implement. By reviewing the recommendations contained in the paragraphs A to J its performance will be enhanced.
 - (A) When lowering wings into working position, be sure wing lift cylinders are FULLY extended. After wing frame wheels have contacted the ground, continue holding hydraulic control lever for approximately 10 to 15 more seconds.
Note: the wing lift cylinders will be fully extended when the outer cylinder pins are approximately at the mid-point position in their slots. If cylinders are not fully extended, wing frames will "hang" and will not permit any downward flex.



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

- (B) For best performance, ensure drawbar is pinned at centre of tractor.
- (C) Check to ensure disc is level both fore and aft and side to side. If adjustments are required, refer to pages 15 and 16.
- (D) See Fig. 1. To set working depth, lower disc slowly while moving forward with tractor. Once desired working depth is reached, stop tractor and install required number of depth control stops (on main frame lift cylinder) to maintain this desired cutting depth.
- (E) Always lift disc before making sharp turns in the field. Sharp turns can seriously damage gangs components in addition to leaving an uneven field finish.



ALWAYS LIFT DISC BEFORE MAKING SHARP TURNS IN FIELD. EXCESSIVE SIDE THRUST CAN DAMAGE GANG COMPONENTS SUCH AS BEARINGS, BLADES, ETC. IF DISC IS NOT LIFTED OUT OF GROUND.

- (F) The optimum working (field) speed for this disc is 4 to 4.5 MPH (6.4 to 7.2 KMH). Excessive speed will cause ridging and damage to disc gangs and/or frame in rocky conditions.

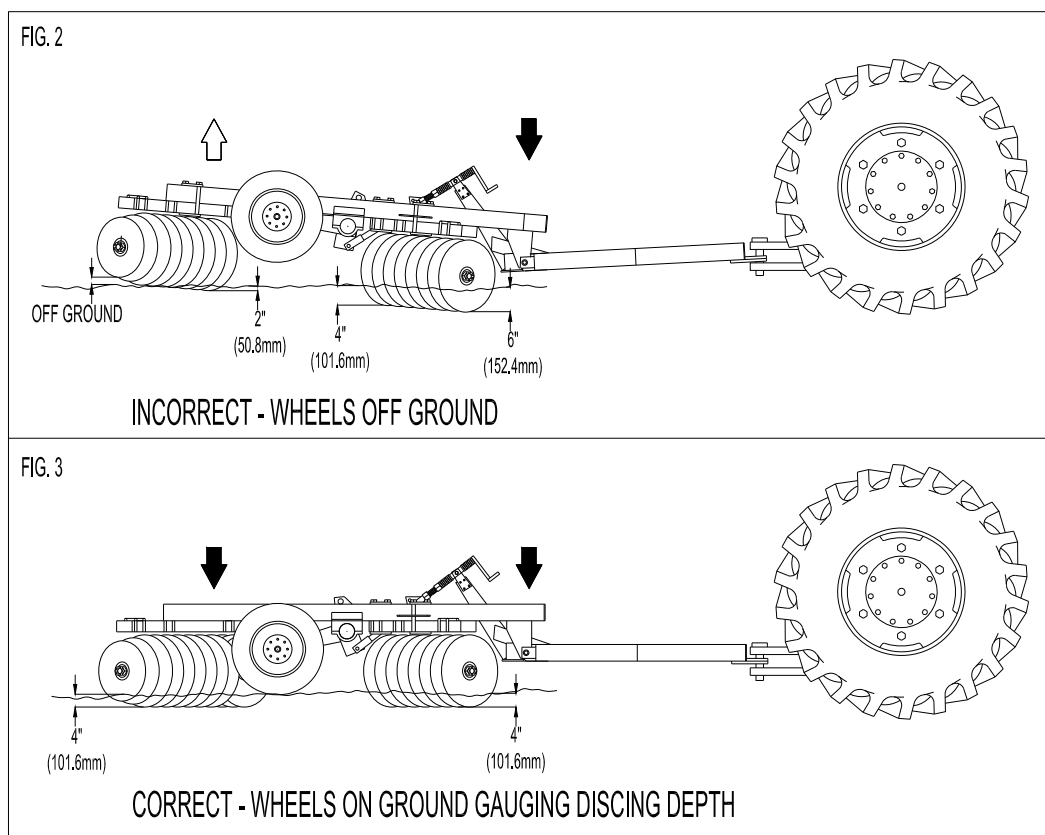
- (G) **REPHASING ROCKSHAFT CYLINDERS** - Periodically, the hydraulic lift cylinders on either wing frame will not be synchronized with main frame cylinder and this will result in an uneven working depth across the implement. If this occurs, it will be necessary to re-phase the entire lift cylinder system. Re-phasing is accomplished by lifting the entire disc completely out of the ground and holding the hydraulic control lever until all of the rockshaft cylinders (3) are fully extended. Hydraulic oil must travel through the entire system to “phase” cylinders properly therefore it is very important when attaching your tractor hydraulics that any air that may be in the system is taken out or “purged”. The hydraulic lift system is purged by lifting implement and holding the hydraulic lever for three (3) minutes. Implement should then be lowered and then raised again by engaging hydraulic lever for another three (3) minutes. See section 31 on page 32 for further information on the lift hydraulic system.

NOTE: If air is left in the re-phrasing hydraulic system, several things can happen. When implement is lowered to the ground, one of the wing rockshaft wheels may not move immediately or lag behind the other. Another symptom of air in the system is if any of the cylinders “creep” off the stop. Air acts like an invisible spring and when the weight is taken off the cylinder, this “spring” pushes the cylinder out. Most series hydraulic system problems are due to air in the system. When operating this disc, it is recommended practice to raise the machine to its full height and hold lever for several minutes several times during the day, such as when it is raised to make a turn. This will supply oil to continually purge the system of air when cylinders are completely extended. When relieving the pressure in the hydraulic system or when uncoupling the hydraulic tips, lower implement with the tractor running until the cylinders reach the depth stops. If the machine is lowered with the tractor not running, no oil is pumped back into the system thereby causing the possibility of air getting back into the rephrasing system.



CAUTION: WHEN OPERATING ON HILLSIDES, ALWAYS USE EXTRA CARE. TRACTOR MAY ROLL IF IT ENCOUNTERS A HOLE, DITCH OR OTHER IRREGULARITY.

- (H) **IMPORTANT:** *Do not operate disc when front gangs are 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 failure of components such as blades and bearings of front gangs.*
- (I) **IMPORTANT:** *NEVER operate disc in field with wings folded in transport position. If disc is operated in this manner, excessive weight on main frame will result in premature failure of frame and gang components. Warranty is expressly denied if this occurs.*
- (K) To avoid serious damage to Hitch Jack, ensure it is locked in horizontal position when disc is moved or being operated. See page 23, section 12.



- (L) **To keep disc level, do not operate disc with wheels off the ground as shown in Fig. 2.**

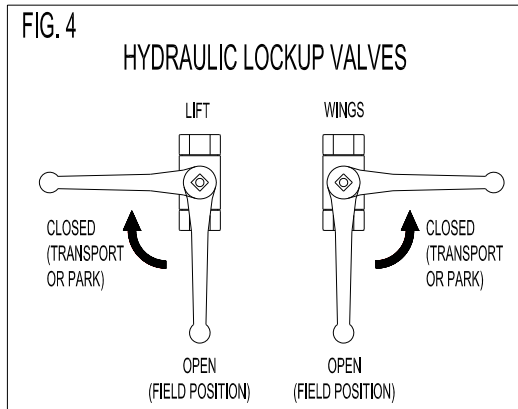
If conditions are such that disc cannot penetrate to maximum depth, raising transport wheels off ground as shown in Fig. 2 is NOT recommended. Raising transport wheels off the ground will cause the front of disc to drop thereby causing front gangs to cut deeper than rear gangs. As the wheels are raised, the hitch leveling arm is pulled back allowing hitch to float. Since the rockshaft and the hitch leveling arm are linked, the front of the disc will drop.

When hitch is "floating", it does not support the front of disc thereby allowing the disc to drop.

With front of disc lower than the rear, the front outside blades will cut considerably deeper than the center blades. This results in most of the weight of the disc being placed on the outer front gangs, forcing them deeper into the ground

IMPORTANT: *Operating disc with transport wheels off ground will result in an uneven field finish and places undue strain on machine which could lead to premature failure. Always operate disc with transport wheels on ground even if soil conditions will not allow disc to penetrate to maximum depth.*

3. See Fig. 4. When transporting disc, always place Hydraulic Lock-up Valves in "closed" position. Lockup valves are located at the front end of centre frame.



CAUTION: WHEN TRANSPORTING DISC ALWAYS PLACE BOTH HYDRAULIC LOCK-UP VALVES IN "CLOSED POSITION". IF HYDRAULIC LEVER WAS ACCIDENTALLY OPERATED THE DISC COULD DROP OR WINGS COULD FALL CAUSING SERIOUS INJURY OR DEATH TO OPERATOR OR PERSON(S) NEARBY.

4. When transporting disc, do not exceed speed of 20 mph (32 km/h). Reduce speed in hilly or uneven terrain.



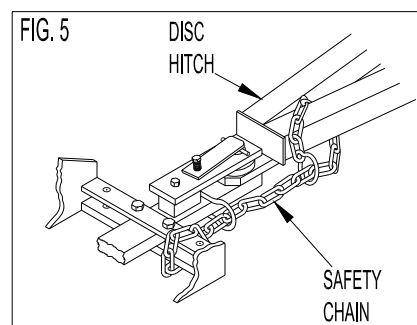
CAUTION: DO NOT EXCEED 20 mph (32 km/h) WHEN TRANSPORTING DISC ON SMOOTH ROADS. ALWAYS REDUCE SPEED WHEN TRANSPORTING ON ROUGH ROADS. EXCESSIVE SPEED COULD CAUSE LOSS OF TRACTOR CONTROL AND DAMAGE TO DISC AND TRACTOR. DO NOT TRANSPORT DISC WITH ANY OTHER VEHICLE EXCEPT A TRACTOR



WARNING: WHEN TRANSPORTING DISC, ALWAYS INSTALL THE COMPLETE SET [17" (432 mm)] OF DEPTH CONTROL STOPS ON SHAFT OF CENTRE FRAME CYLINDER. IF ANY COMPONENT OF HYDRAULIC SYSTEM FAILED, THE DISC COULD SUDDENLY DROP CAUSING SERIOUS INJURY OR DEATH TO OPERATOR OR PERSON(S) NEAR-BY.

6. **IMPORTANT:** *Do not operate hydraulic lift cylinders to raise disc if blades are frozen to ground. Attempting to lift disc out of frozen ground can cause serious damage to main lift cylinders and/or rockshaft cylinder arms. When disc is being stored for winter, do not allow blades to contact ground that may freeze. Leave disc parked on transport wheels.*

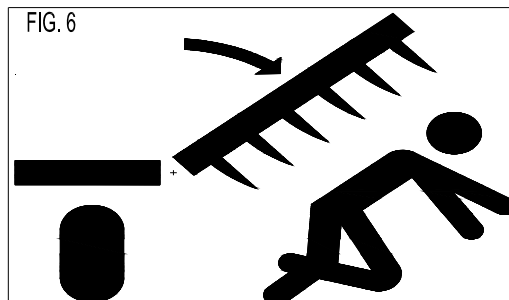
7. See Fig. 5. Attach a Safety Chain to the tractor drawbar and to the hitch of disc before transporting. Use a chain with strength rating greater than the gross weight of disc. (Safety chain available as an option).



DANGER: BEFORE TRANSPORTING DISC, BE SURE TO ATTACH A SAFETY CHAIN TO TRACTOR DRAWBAR AND DISC HITCH. THE SAFETY CHAIN WILL HELP CONTROL THE DISC SHOULD IT ACCIDENTALLY SEPARATE FROM THE DRAWBAR OF THE TRACTOR USE A CHAIN WITH A STRENGTH RATING GREATER THAN THE GROSS WEIGHT OF THE TOWED IMPLEMENT. SERIOUS DAMAGE, INJURY OR DEATH COULD RESULT IF THE DISC SEPARATED FROM THE TRACTOR DRAWBAR.



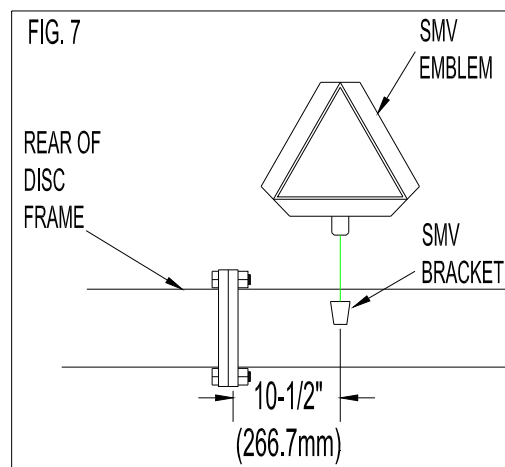
DANGER: SEE FIG. 6. DO NOT STAND UNDER THE WING(S) WHILE IT IS BEING FOLDED OR UNFOLDED. IF ANY COMPONENT OF THE HYDRAULIC SYSTEM FAILED OR IF THE HYDRAULIC LEVER WAS ACCIDENTALLY OPERATED, WING(S) COULD FALL CAUSING SERIOUS INJURY OR DEATH.



8. See Fig. 7. Install the Slow Moving Vehicle emblem (SMV)(not supplied by Ezee-On) in bracket welded to the R.H. rear centre frame before transporting the disc.



CAUTION: USE THE SLOW MOVING EMBLEM (SMV) AND WARNING LIGHTS FOR THE PROTECTION OF TRACTOR OPERATOR AND OTHER MOTOR VEHICLE OPERATORS WHEN TRANSPORTING THE DISC OVER PUBLIC ROADS OR HIGHWAYS. ALWAYS CHECK LOCAL LAWS REGARDING TRANSPORTING REGULATIONS.



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



DANGER: WHEN TRANSPORTING DISC, ALWAYS ENSURE THERE IS SUFFICIENT CLEARANCE UNDER OVERHEAD ELECTRICAL LINES AND OTHER OVERHEAD OBSTRUCTIONS. SERIOUS INJURY OR DEATH CAN RESULT FROM CONTACT WITH HIGH VOLTAGE ELECTRICAL LINES. USE EXTREME CARE TO AVOID CONTACT WITH ELECTRICAL LINES WHEN MOVING OR OPERATING DISC. MODELS EQUIPPED WITH FOLDING GANG BEAMS MUST BE FULLY FOLDED TO GIVE MINIMUM TRANSPORT HEIGHT.



WARNING: WHEN TRANSPORTING DISC, ALWAYS PLACE HYDRAULIC LOCK- UP VALVES IN “CLOSED” POSITIONS SEE SECTION 3 OF OPERATING INSTRUCTIONS ON PAGE 9. IF THE HYDRAULIC LEVER WAS ACCIDENTALLY OPERATED, THE DISC COULD SUDDENLY DROP OR WINGS COULD FALL CAUSING SERIOUS INJURY OR DEATH TO OPERATOR OR PERSON(S) NEARBY.



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.

9. **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.

ADJUSTMENTS

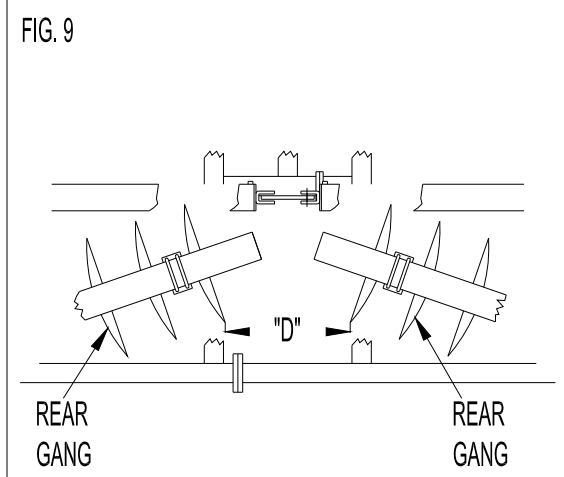
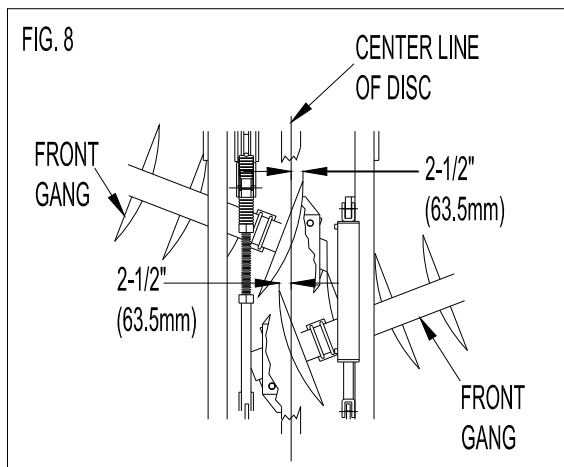
1. LATERAL ADJUSTMENT OF THE FRONT AND REAR GANGS

a) **FRONT GANGS** - See Fig. 8. Loosen bearing hanger U-bolts and adjust front gangs so that leading edge of inside blades are, arrow 1, approximately 2-1/2" (63.5 mm) past centre of disc. The centre line of disc is shown in Fig. 8. If the above adjustment is made correctly, the front gang will not leave any unbroken ground in the middle of disc.

b) **REAR GANGS** - See Fig. 9. To adjust rear gangs, loosen bearing hanger U-bolts.

The opening between the rear gangs Dimension "D" must be set at a distance that will allow furrow left by the front gangs to be filled evenly. The distance the rear gangs are set apart is determined by the operating speed, working depth, gang angle and soil conditions. 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 center furrow (from the front gangs) will not be filled. It is important to note of the amount of soil the rear inside blades are picking up. It may be necessary to increase the distance between rear gangs in order to collect enough soil to fill the furrow. Initially, this distance should be set at 2" (50mm) less than diameter of blades to a maximum of 24" (610mm). For example, if disc is equipped with 26" (660 mm) blades, the opening (Dimension "D") should be 24" (610 mm). If your disc is equipped with 28" (711mm) or 30" (762mm) diameter blades, Dimension "D" would be set at a maximum of 24" (610mm).

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



NOTE: Be sure distance between blades on adjacent gangs are adjusted to match the blade spacing of your disc.

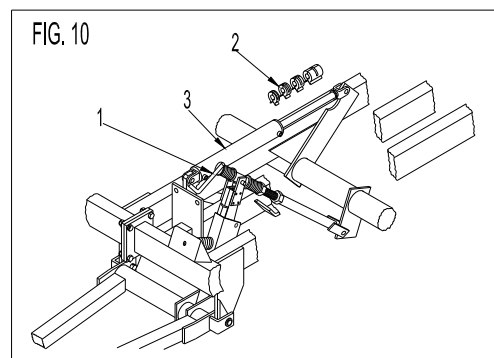
c) When adjustments to gangs are complete, U-Bolts on bearing hangers can now be tightened. Ensure that each bearing hanger is positioned flat under the gang beam to avoid preloading either bearings and/or other gang components. Tighten hanger U-Bolt to 430 ft. lbs (583.0 N.m).

3. **LEVELLING DISC - FRONT to REAR** - See Fig. 10. When disc is being operated, both front and rear gangs should be cutting at same depth. Use leveling crank, arrow 1, to level disc.

TO LOWER FRONT GANGS: Turn crank, arrow 1, "IN" (clockwise)

TO RAISE FRONT GANGS: Turn crank, arrow 1, "OUT" (counter clockwise)

VERY IMPORTANT: ALWAYS KEEP DISC LEVEL FRONT-to-REAR. OPERATING DISCS WITH FRONT GANGS LOWER THAN REAR GANGS WILL CAUSE RIDGING AT OUTSIDE AND MAY CAUSE DAMAGE TO DISC COMPONENTS.



4. **SETTING WORKING DEPTH** - See Fig. 10. To set depth of cut, lower disc into the ground while moving forward until disc reaches desired working depth. Install the necessary depth control stops on centre frame cylinder to maintain the desired cutting depth.

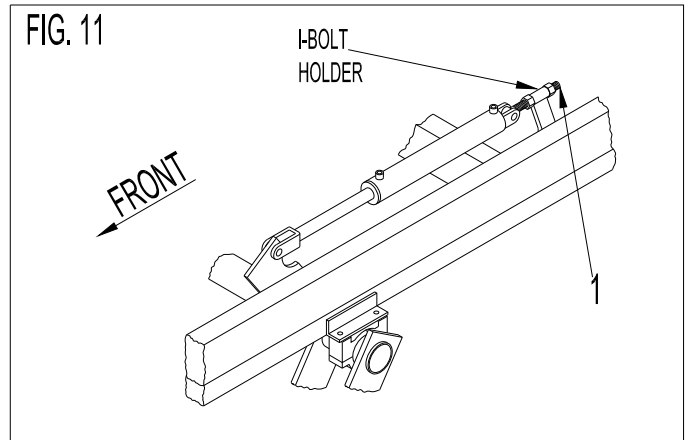
ADJUSTMENTS CONTINUED:

5. LEVELLING WING FRAMES - See Fig. 11.

Before this adjustment is made, be sure centre frame is level front-to-rear. After adjustments are complete tighten nuts on cylinder I-Bolt.

For even blade penetration, outside of wing frames must be level with centre frame or even 1/2" (12.7 mm) higher than centre frame.

To level either wing frame with centre frame, adjust wing rockshaft cylinder I-Bolt, arrow 1. If outside of wing frame needs to be raised, loosen rear nut of I-Bolt and tighten front nut. This will lower the wheels and raise outside of wing. If outside of wing frame needs to be lowered, loosen front nut of I-Bolt and tighten rear nut. This will raise the wheels and allow outside of wing to operate lower.



IMPORTANT: Be sure axis of clevis pin on wing rockshaft cylinders are horizontal with cylinder ports facing up. If clevis pin is not positioned properly, cylinder will not be free to pivot when activated, causing serious damage.



CAUTION: ALWAYS PLACE TRACTOR CONTROLS IN NEUTRAL AND LOCK BRAKES TO AVOID TRACTOR ACCIDENTLY ROLLING BACKWARDS WHEN ATTACHING DISC.



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

6. TO REMOVE BALK AT CENTRE OF DISC : Make one or more of the following adjustments:

- Level disc from front-to- rear using leveling crank, see Section 3 of Adjustments.
- Reduce working speed.
- Increase distance between rear gangs, see Section 1 of adjustments.

7. TO REMOVE FURROW AT CENTRE OF DISC - Make one or more of the following adjustments:

- Level disc from front- to- rear using leveling crank, see Section 3 of Adjustments.
- Increase working speed.
- Decrease distance between rear gangs, see Section 1 of Adjustments.

8. TO REMOVE UNWORKED SOIL LEFT BY FRONT GANGS - Make the following adjustments:

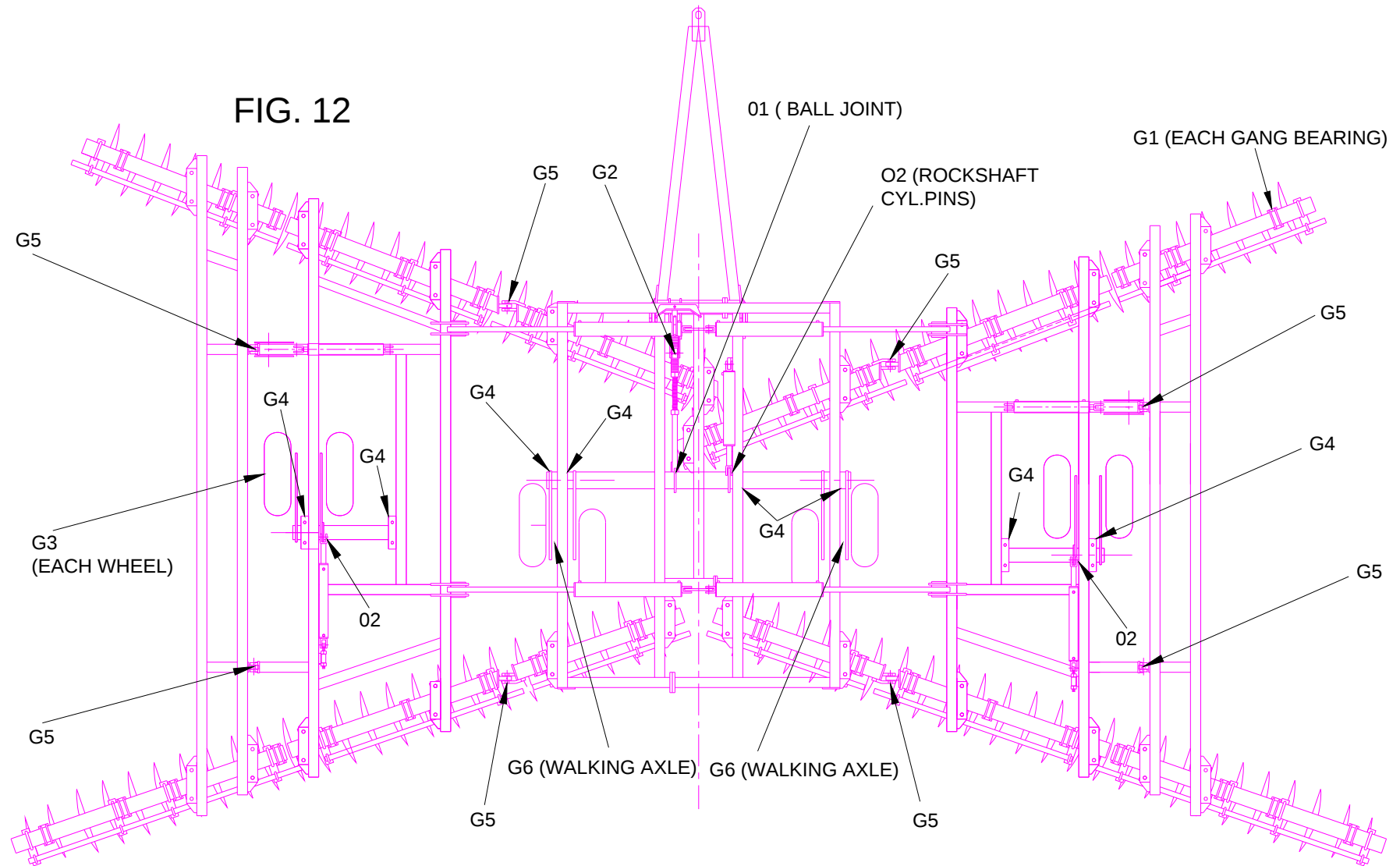
- Adjust leading edge of inside blade of each overlapping front gangs so it is 2-1/2" (63mm) past centre of disc, see Section 1 of Adjustments.

9. TO REDUCE GANG PLUGGING - Make the following adjustment:

- Adjust scrapers so they contact blades.

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FIG. 12



MAINTENANCE

1. LUBRICATION See Fig. 12 - All grease lubricating points on disc are marked with arrow G. The oil lubrication points are marked with arrow O.

- G1) GANG BEARING - for T2-215 Series 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.
- G2) Lubricate leveling crank every 100 hours of operation.
- G3) Lubricate wheels every 50 hours of operation.
- G4) Lubricate top and bottom half of each rockshaft bearing every 20 hours of operation.
- G5) Lubricate wing hinge points every 100 hours of operation.
- G6) Lubricate walking axles every 50 hours of operation.

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

- O1) Lubricate leveling crank ball joint (with oil) at the end and beginning of each season.
- O2) Lubricate rockshaft cylinder pins (with oil) every 50 hours of operation.

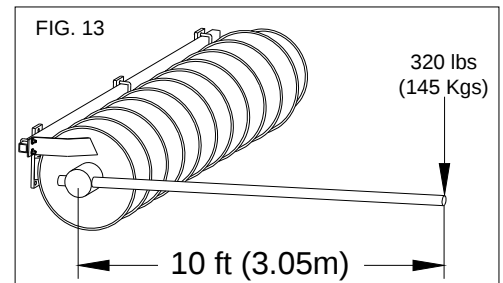
2. All bolts and nuts should be checked periodically to make sure they are tight. Special attention should be given to gang bolts, bearing bolts and bearing hanger U-bolts, and wheel bolts.

They should be tightened as follows:

Gang bolts 1-15/16" (49 mm) Diameter -tighten to 3200 ft. lbs torque (4339 N · m)

See Fig. 13. 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.

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



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

Gang beam bolts 1-1/4" (31.7 mm) Diameter --- 840 ft. lbs (1139 N · m)

Levelling crank bolt 1-1/4" (31.7 mm) Diameter - 840 ft. lbs (1139 N · m)

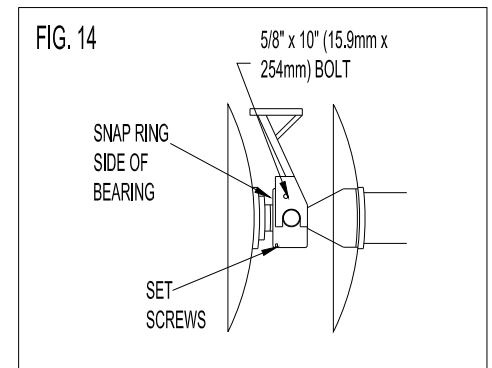
Wheel bolts 9/16" (14.2 mm) Diameter ----- 150 ft. lbs (203 N · m)

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. **IMPORTANT:** See Fig. 14.

- a) If T2-215 bearing must be dismantled, ensure double set screws are removed from bottom of housing to remove seal cap.
- b) When replacing grease seals in T2-215 bearing, ensure they are installed correctly. The I.D. of the outer shield is larger on one side than the other. Be sure the side with the larger I.D. of both seals are facing outward. The rubber seal may be damaged if grease seal is not installed correctly.



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



CAUTION: LOWER THE DISC TO THE GROUND WHEN SERVICING OR MAKING ADJUSTMENTS. IF THE DISC MUST BE SERVICED OR ADJUSTED IN THE RAISED POSITION, BLOCK FRAME ADEQUATELY. DO NOT RELY ON HYDRAULIC LOCK- UP VALVES AS A SAFETY DEVICE. IF THE HYDRAULIC SYSTEM FAILED, THE DISC COULD DROP SUDDENLY

5. See Fig. 14. When reinstalling bearing hanger on **T2-215 Bearing** (if gangs are dismantled) DO NOT over tighten the 5/8" x 10" (15.7 mm x 254 mm) bolts that attaches bearing to hanger. Tighten lock nut only until it is snug against bearing hanger. Over tightening this bolt may cause it to break during field operations.

6. **WING LIFT CYLINDER REMOVAL** - See Fig. 15. If possible lower wings to field position if the wing lift cylinder hydraulic system must be serviced or repaired. If wing lift cylinders must be serviced or repaired with wings in folded position, install a safety chain between each wing frame and main frame to prevent wings from falling down. Always install a chain on both wings even if only one cylinder is being worked on.

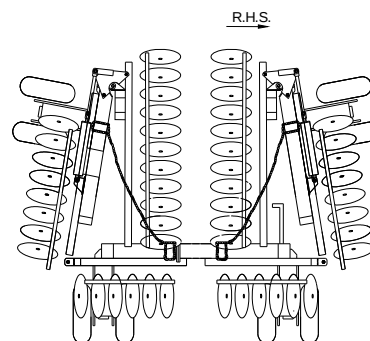


Fig 15.

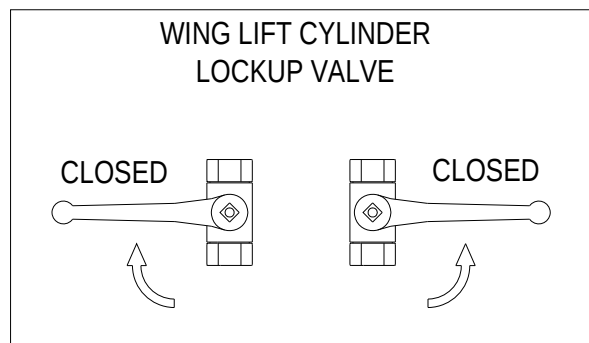
CAUTION: IF WING LIFT CYLINDER(S) OR WING LIFT HYDRAULIC HOSES ARE REMOVED WHEN WINGS ARE FOLDED INTO TRANSPORT POSITION, ALWAYS INSTALL A SAFETY CHAIN BETWEEN EACH WING FRAME AND MAIN FRAME TO PREVENT WINGS FROM FALLING. IF WINGS FELL SERIOUS INJURY OR DEATH COULD OCCUR TO PERSON(S) NEARBY AND MACHINE WOULD BE DAMAGED SEVERELY.

7. Keep all safety decals clean and in good condition to provide a constant reminder of safe operating procedures.
8. Replace any destroyed, missing or illegible decals and reflectors.
9. At the end of each season do following:
 - a) Relieve pressure in all hydraulic cylinders. Disconnect hydraulic hoses from tractor and cap them.
 - b) If disc is to be stored outdoors, cover hydraulic cylinders and hoses with weather proof material and coat all exposed cylinder shafts with grease.
 - c) Set planks under each wheel.
 - d) Lubricate all grease points.
 - e) Check disc for worn or damaged parts. Replace damaged parts during the off season.
 - f) Touch up any scratches with EZEE-ON paint.

CAUTION: ALWAYS RELIEVE THE PRESSURE IN HYDRAULIC SYSTEM AND CLOSE BOTH HYDRAULIC LOCKUP VALVES WHEN DISC IS NOT BEING USED.

- (g) **VERY IMPORTANT:** WHEN STORING DISC DO NOT LEAVE CYLINDERS UNDER HYDRAULIC PRESSURE, ESPECIALLY IF CYLINDERS ARE ACTIVATED DURING COOL TEMPERATURES. THE THERMAL EXPANSION OF OIL WHICH TAKES PLACE WHEN THE MACHINE IS IN A WARMER ENVIRONMENT MAY CAUSE SERIOUS DAMAGE TO CYLINDERS OR HOSES. ALWAYS RELEASE HYDRAULIC PRESSURE AND CLOSE LOCKUP VALVES BEFORE UNHITCHING FROM TRACTOR.

IMPORTANT: WINGS MAY UNFOLD DUE TO THERMAL EXPANSION OF HYDRAULIC OIL CAUSING DAMAGE TO CULTIVATOR, PROPERTY OR SEVERE INJURY OR DEATH TO PERSON(S) NEARBY. RELEASE PRESSURE IN ALL CYLINDERS AND CLOSE HYDRAULIC LOCKUP VALVES BEFORE UNHITCHING FROM TRACTOR OR WHEN PARKING WITH TRACTOR.



10. TIRE MAINTENANCE AND SAFETY:

- a) Keep the pressure equal on all wheels. See specifications on page 8 for correct tire pressure.
- b) Do not inflate tires above recommended pressure.
- c) Only experienced personal should attempt to repair a tire or mount tire on a wheel.
- d) Do not weld or heat tire and wheel assembly when tire is inflated. The heat may cause an increase in tire pressure causing tire to explode.
- e) Periodically check tires for cuts, bulges and damaged rims.

- f)  **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 THE TIRE WHEN INFLATING. EXPLODING TIRE AND WHEEL PARTS CAN CAUSE SERIOUS INJURY OR DEATH.**

TROUBLE SHOOTING

OUTSIDE BLADES OF FRONT WINGS ARE CUTTING TOO DEEP CAUSING DISC TO RIDGE AT OUTSIDE	- wheels raised off ground causing front of disc to drop - tire pressure is low on outer wheels causing disc to cut deep at outside - disc is lower at front than at rear - wing wheel not adjusted for proper cutting depth - wing rockshaft cylinders are not synchronized with centre from rockshaft cylinders	- lower wheels to ground so they gauge discing depth, see section L of general operating instructions on page 11 - inflate tire, see tire pressures on page 8 - using leveling crank raise front of disc – see Fig. 10 on page 15 - raise outside of wing by adjusting left cylinder l-bolt, see section 5 on page 16 - rephrase rockshaft cylinders, section G on page 10
OUTSIDE BLADES OF FRONT WINGS ARE NOT CUTTING DEEP ENOUGH	- disc is higher at front than at rear	- using leveling crank lower front of disc – see Fig. 10 on page 15
OUTSIDE BLADES ON FRONT AND REAR GANGS ARE CUTTING TOO DEEP	- tire pressure is low for wing wheels causing wings to cut deeper - outside of wing frame is lower than main frame - wing rockshaft cylinder are not synchronized with main frame rockshaft cylinder	- check tire inflation for all wheels, see tire pressure on page 8 - raise outside of wing with wing rockshaft cylinder anchor bolt see section 5 on page 16 - rephrase rockshaft cylinder, see section G on page 10
OUTSIDE BLADES ON FRONT AND REAR GANGS ARE NOT CUTTING DEEP ENOUGH	- tire pressure is lower on centre section wheels than wing section wheel causing centre section to cut deeper - outside of wing frame(s) is higher than main frame - wing rockshaft cylinder is not synchronized with main frame rockshaft cylinder	- check tire inflation for all wheels, see tire pressure on page 8 - lower outside of wing with wing rockshaft cylinder anchor bolt, see section 5 on page 16 - rephrase rockshaft cylinder, see section G on page 10
DISC IS LEAVING A RIDGE AT CENTRE OF DISCING	- rear gangs are cutting deeper than front gangs - a high discing speed is causing disc to throw dirt further resulting in a pile at centre - rear gangs are too close together	- level disc using leveling crank – see Fig. 10 on page 15 - reduce discing speed - increase distance between rear gangs see section 1 on page 15

TROUBLE SHOOTING CONTINUED

REAR GANGS ARE NOT FILLING FURROW LEFT BY FRONT GANGS AT CENTRE OF DISC	- front gangs are cutting deeper than rear gangs - a low discing speed is causing disc to not throw dirt far enough to fill furrow left by front centre blades - rear gangs are too far apart	- level disc using leveling crank – see Fig. 10 on page 15 - increase discing speed - decrease distance between rear gangs – see section 1 on page 15
FRONT GANGS ARE LEAVING UNBROKEN GROUND AT CENTRE OF DISC	- front gangs are either overlapped too much or not enough	- adjust overlap of front gangs – see section 1 on page 15
DISC GANGS ARE PLUGGING	- scrapers are too far from blades - thrash conditions too heavy for you machine cylinder(s)	- adjust scrapers so they are contacting blades - contact your Ezee-On Dealer
WHEN RAISING DISC OUT OF GROUND, MAIN FRAME COMES OUT OF GROUND WHILE OUTSIDE OF WING(S) LAGS BEHIND OR DOES NOT COME OUT OF GROUND	- piston seals on wing rockshaft cylinder(s) are damaged	- replace piston seals of wing rockshaft cylinder
WHEN RAISING DISC OUT OF GROUND, OUTSIDE OF WING(S) COMES OUT OF GROUND WHILE MAIN FRAME LAGS BEHIND OR DOES NOT COME OUT OF GROUND	- piston seals on main frame rockshaft cylinder is damaged	- replace piston seals of main frame rockshaft cylinder
WHEN RAISING DISC OUT OF GROUND, MAIN FRAME ROCKSHAFT CYLINDER IS FULLY EXTENDED WHILE WING ROCKSHAFT CYLINDER(S) ARE NOT FULLY EXTENDED	- rockshaft cylinders are not synchronized	- rephrase rockshaft cylinders, see section G on page 10
WHEN RAISING DISC OUT OF GROUND, WING ROCKSHAFT CYLINDER IS FULLY EXTENDED WHILE MAIN FRAME ROCKSHAFT CYLINDER(S) ARE NOT FULLY EXTENDED	- rockshaft cylinders are not synchronized	- rephrase rockshaft cylinders, see section G on page 10
DISC WILL NOT PENETRATE SOIL	- soil condition too hard for your machine	- contact your Ezee-On Dealer