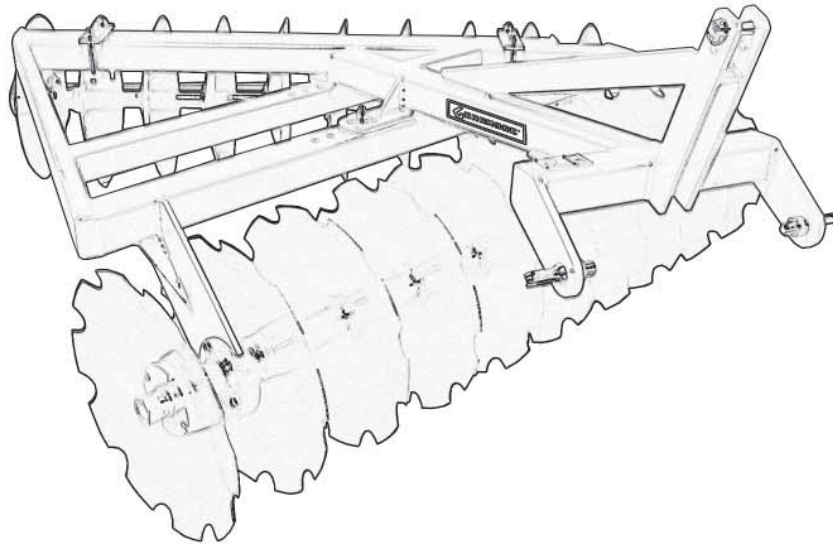




HEAVY DUTY OFFSET DISCS



Assembly/Operation/Parts Manual For GO Series Models

October 2009

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1 INTRODUCTION

Congratulations on your purchase of a Gearmore Medium Duty Offset Disc. Our equipment is manufactured to precise specifications using the best quality parts and materials available. With proper care and maintenance, this piece of equipment should last for many years.

Safe, efficient and trouble free operation of your Discs requires that you and anyone else who will be operating or maintaining the machine, read and understand the Safety, Operation, Maintenance and Troubleshooting information contained within the Operator's Manual.

This manual covers the "GO" Series Offset Disc Models. Your GO Series Disc was assembled at the factory with the gangs set evenly positioned for shipping purposes. Because of varying soil conditions, desired cutting depth, and tractor speed, gang adjustment might have to be made for even and uniform discing. Before using this disc, check all nuts and bolts to make sure everything is tightened.

Keep this manual handy for frequent reference and to pass on to new operators or owners. Call your Gearmore dealer or distributor if you need assistance, information or additional copies of the manuals.

OPERATOR ORIENTATION - The directions left, right, front and rear, as mentioned throughout this manual, are as seen from the driver's seat and facing in the direction of travel.

1.1 SERIAL NUMBER

Always give your dealer the serial number of your Offset Disc when ordering parts or requesting service or other information.

DATE OF PURCHASE: _____

MODEL NUMBER: _____

SERIAL NUMBER: _____

2 SAFETY

SAFETY ALERT SYMBOL

This Safety Alert symbol means **ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!**



The Safety Alert symbol identifies important safety messages on the Tandem Discs and in the manual. When you see this symbol, be alert to the possibility of personal injury or death. Follow the instructions in the safety message.

Why is SAFETY important to you?

3 Big Reasons

Accidents Disable and Kill
Accidents Cost
Accidents Can Be Avoided

SIGNAL WORDS:

Note the use of the signal words **DANGER**, **WARNING** and **CAUTION** with the safety messages. The appropriate signal word for each message has been selected using the following guide-lines:

SI NO LEE INGLES, PIDA AYUDA A AIGUIEN QUE SI LO LEA PARA QUE LE TRADUZCA LAS MIDIDAS DE SEGURIDAD.

DANGER - Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations typically for machine components which, for functional purposes, cannot be guarded.

WARNING - Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

CAUTION - Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

If you have any questions not answered in this manual or require additional copies or the manual is damaged, please contact your dealer.

2.1 GENERAL SAFETY

YOU are responsible for the **SAFE** operation and maintenance of your Offset Disc. **YOU** must ensure that you and anyone else who is going to operate, maintain or work around the Disc be familiar with the operating and maintenance procedures and related **SAFETY** information contained in this manual. This manual will take you step-by-step through your working day and alerts you to all good safety practices that should be adhered to while operating the Disc.

Remember, **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.

- Disc owners must give operating instructions to operators or employees before allowing them to operate the machine, and at least annually there after per OSHA (Occupational Safety and Health Administration) regulation 1928.57.
- The most important safety feature 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. Most accidents can be avoided.
- 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.
- **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.

1. Read and understand the Operator's Manual and all safety signs before operating, maintaining or adjusting the Offset Disc.



2. Have a first-aid kit available for use should the need arise and know how to use it.

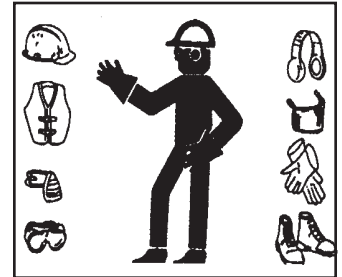


3. Have a fire extinguisher available for use should the need arise and know how to use it.



4. Wear appropriate protective gear. This list includes but is not limited to:

- A hard hat
- Protective shoes with slip resistant soles
- Protective goggles, glasses or face shield
- Heavy gloves
- Protective clothing



5. **NEVER** allow children to operate tractor and Disc or other power equipment.

6. **DO NOT** allow riders.

7. Wear suitable ear protection for prolonged exposure to excessive noise.



8. Lower Offset Disc to the ground, set park brake, remove ignition key and wait for all moving parts to stop before servicing, adjusting and repairing.

9. Clear the area of people, especially small children, before starting.

10. Review safety related items annually with all personnel who will be operating or maintaining the Offset Disc.

2.2 EQUIPMENT SAFETY GUIDELINES

Safety of the operator and bystanders is one of the main concerns in designing and developing a machine. However, every year many accidents occur which could have been avoided by a few seconds of thought and a more careful approach to handling equipment. You, the operator, can avoid many accidents by observing the following precautions in this section. To avoid personal injury or death, study the following precautions and insist those working with you, or for you, follow them.

- In order to provide a better view, certain photographs or illustrations in this manual may show an assembly with a safety shield removed. However, equipment should **never** be operated in this condition. Keep all shields in place. If shield removal becomes necessary for repairs, replace the shield prior to use.
- Replace any safety sign or instruction sign that is not readable or is missing. Location of such safety signs is indicated in this manual.
- **NEVER** use alcoholic beverages or drugs which can hinder alertness or coordination while operating this equipment. Consult your doctor about operating this machine while taking prescription medications.
- **Under no circumstances should young children be allowed to work with this equipment. Do not allow persons to operate or assemble this unit until they have read this manual and have developed a thorough understanding of the safety precautions and of how it works.** Review the safety instructions with all users annually.

- This equipment is dangerous to children and persons unfamiliar with its operation. The operator should be a responsible, properly trained and physically able person familiar with farm machinery and trained in this equipment's operations. If the elderly are assisting with farm work, their physical limitations need to be recognized and accommodated.
- Use a tractor equipped with a Roll Over Protective Structure (ROPS) and a seat belt.
- **NEVER** exceed the limits of a piece of machinery. If its ability to do a job, or to do so safely, is in question - **DON'T TRY IT.**
- 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.

In addition to the design and configuration of this implement, including Safety Signs and Safety Equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of the machine. Refer also to Safety Messages and operation instruction in each of the appropriate sections of the tractor and machine manuals. Pay close attention to the Safety Signs affixed to the tractor and the machine.

Think SAFETY! Work SAFELY!

2.3 SAFETY TRAINING

Safety is a primary concern in the design and manufacture of our products. Unfortunately, our efforts to provide safe equipment can be wiped out by a single careless act of an operator or bystander.

In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of this equipment.

It has been said, "***The best safety feature is an informed, careful operator.***" We ask you to be that kind of an operator. It is the operator's responsibility to read and understand ALL Safety and Operating instructions in the manual and to follow these. Accidents can be avoided.



Working with unfamiliar equipment can lead to careless injuries. Read this manual, and the manual for your tractor, before assembly or operating, to acquaint yourself with the machines. If this machine is used by any person other than yourself, or is loaned or rented, it is the machine owner's responsibility to make certain that the operator, prior to operating:

- a. Reads and understands the operator's manuals.
- b. Is instructed in safe and proper use.

Know your controls and how to stop tractor, engine and machine quickly in an emergency. Read this manual and the one provided with your tractor.

Train all new personnel and review instructions frequently with existing workers. Be certain only a properly trained and physically able person will operate the machinery. 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. If the elderly are assisting with farm work, their physical limitations need to be recognized and accommodated.

2.4 SAFETY SIGNS

1. Keep safety signs clean and legible at all times.
2. Replace safety signs that are missing or have become illegible.
3. Replaced parts that displayed a safety sign should also display the current sign.
4. Safety signs are available from your authorized dealer or from Gearmore.

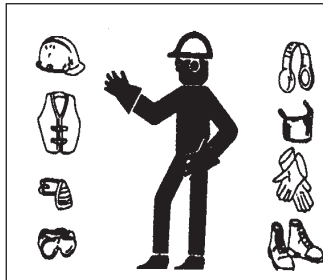
How To Install Safety Signs:

- Be sure that the installation area is clean and dry.
- Be sure temperature is above 50° F (10° C).
- Determine exact position before you remove the backing paper. (*See Section 3*)
- Remove the smallest portion of the split backing paper.
- Align the sign over the specified area and carefully press the small portion with the exposed sticky backing in place.
- Slowly peel back the remaining paper and carefully smooth the remaining portion of the sign in place.
- Small air pockets can be pierced with a pin and smoothed out using the piece of sign backing paper.

2.5 PREPARATION

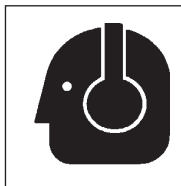
1. Never operate the tractor and machine until you have read and completely understand this manual, the Tractor Operator's Manual and each of the Safety Messages found on the safety signs on the tractor and machine.


2. Personal protection equipment, including hard hat, safety glasses, safety shoes and gloves are recommended during assembly, installation, operation, adjustment, maintaining, repairing, removal or moving the implement. **DO NOT** allow long hair, loose fitting clothing or jewelry to be around equipment.



3. **PROLONGED EXPOSURE TO LOUD NOISE MAY CAUSE PERMANENT HEARING LOSS!**

Tractors with or without equipment attached can often be noisy enough to cause permanent, partial hearing loss. We recommend that you wear hearing protection on a full-time basis if the noise in the Operator's position exceeds 80db. Noise over 85db on a long-term basis can cause severe hearing loss. Noise over 90db adjacent to the Operator over a long-term basis may cause permanent, total hearing loss. **NOTE:** Hearing loss from loud noise (from tractors, chain saws, radios, and other such sources close to the ear) is cumulative over a lifetime without hope of natural recovery.



4. Operate the machine only with a tractor equipped with an approved Roll-Over Protective Structure (ROPS). Always wear your seat belt. Serious injury or even death could result from falling off the tractor --- particularly during a turn-over when the operator could be pinned under the ROPS or the tractor.
- 
5. Clear working area of stones, branches or hidden obstacles that might be hooked or snagged, causing injury or damage.
 6. Keep disc away from overhead power lines. Electrocutation can occur without direct contact with an overhead power line.
 7. Operate only in daylight or good artificial light.
 8. Be sure machine is properly mounted, adjusted and in good operating condition.
 9. Before starting, give the machine a "once over" for any loose bolts, worn parts, cracks, leaks, frayed hoses and make necessary repairs. Always follow maintenance instructions.
 10. Ensure that all safety shielding and safety signs are properly installed and in good condition.
 11. Use caution when operating the tractor on uneven terrain.
 12. Move wheels or tires to their widest position for maximum stability.
 13. Decrease speed when making turns.
 14. Use front and rear wheel weights as required.
 15. Add sufficient amount of weight to front end of tractor to prevent wheels from coming off the ground when starting suddenly with a load.

2.6 OPERATING SAFETY

Please remember it is important that you read and heed the safety signs on the tractor and disc. Clean or replace all safety signs if they cannot be clearly read and understood. They are there for your safety, as well as the safety of others. The safe use of this machine is strictly up to you, the operator.

All things with moving parts are potentially hazardous. There is no substitute for a cautious, safe-minded operator who recognizes potential hazards and follows reasonable safety practices. The manufacturer has designed these Discs to be used with all its safety equipment properly attached to minimize the chance of accidents. Study this manual to make sure you have all safety equipment attached.

Practice raising and lowering the disc when learning to operate the Offset disc. Become familiar with controls before operating.

If a safety shield or guard is removed for any reason, it must be replaced before the machine is again operated.

Always operate disc with hitch hydraulic control lever in lowered "float" position.

Do not operate near the edge of drop-offs or banks.

Do not operate at an angle on steep slopes. Drive up or down but not across. **Always lift disc before turning at ends of field.**

Make allowances for increased length and weight of tractor during operation and moving.

Remove all sticks, stones, roots and wires from working area before starting. Take care not to contact overhead obstructions during operation.

Never operate controls from the ground. Operate only from the operators seat to prevent unexpected movement that can lead to crushing between frame members.

Start operation at a slower comfortable speed; increase tractor speed as clods reduce size.

Keep disc away from overhead power lines. Electrocutation can occur without direct contact with an overhead power line.

Never carry, lift or move people on disc. Do not use machine as a work platform.

Always use two people to handle heavy, unwieldy components during assembly, installation, removal or moving.

Never place any part of your body where it would be in danger if movement should occur during assembly, installation, operation, maintaining, repairing, removal or moving.

Do not walk or work under a raised machine or attachment unless it is securely blocked or held in position. Do not depend on the tractor hydraulic system to hold the machine or attachment in place.

Never use alcoholic beverages or drugs, which can hinder alertness or coordination, while operating this equipment. Consult your doctor about operating this machine while taking prescription medications.

Do not allow riders on the machine or tractor at any time. There is no safe place for any riders.

Do not go under raised disc. Keep others away.

Add sufficient amount of weight to front end of tractor to prevent wheels from coming off the ground when starting suddenly with a load.

Always remove the key when leaving the tractor unattended.

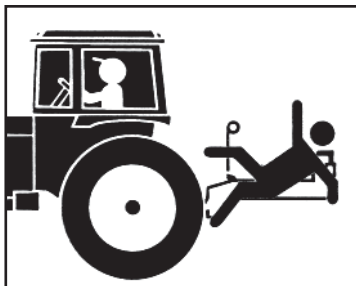
Never allow disc to be left in the "up" position when unattended.

Before you operate the machine, check over all pins, bolts and connections to be sure all are securely in place. Replace any damaged or worn parts immediately.

Review safety instructions annually.

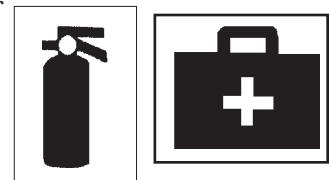
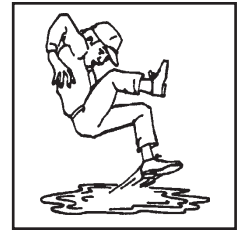
2.7 TRANSPORT SAFETY

1. Comply with state and local laws governing highway safety and movement of farm machinery on public roads.
2. The use of flashing amber lights is acceptable in most localities. However, some localities prohibit their use. Local laws should be checked for all highway lighting and marking requirements.
3. At all times, when driving the tractor and equipment on the road or highway under 20 mph (32 kph) use flashing amber warning lights and a slow moving vehicle (SMV) identification emblem. Do not exceed 20 mph (32 kph). Reduce speed on rough roads and surfaces.
4. Keep tractor in gear to provide engine braking when going downhill. Do not coast.
5. Plan your route to avoid heavy traffic.
6. Keep brake pedals latched together at all times.
7. Do not drink and drive.
8. Be a safe and courteous driver. Always yield to oncoming traffic in all situations, including narrow bridges, intersections, etc. Watch for traffic when operating near or crossing roadways.
9. Turn into curves or go up or down hills only at a low speed and at a gradual steering angle. Make certain that at least 20% of the tractor's weight is on the front wheels to maintain safe steering. Slow down on rough or uneven surfaces.
10. Never allow riders on either tractor or machine. Riders may obstruct the operator's view. They could also be struck by foreign objects or thrown from the machine.



2.8 MAINTENANCE SAFETY

1. Good maintenance is your responsibility. Poor maintenance is an invitation to trouble.
2. 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.
3. Make sure there is plenty of ventilation. Never operate the engine in a closed building. The exhaust fumes may cause asphyxiation.
4. Before working on this machine, shut off the engine, set the brakes and remove the ignition key.
5. Never work under equipment unless it is blocked securely.
6. Use personal protection devices such as eye, hand and hearing protectors, when performing any service or maintenance work.
7. Where replacement parts are necessary for periodic maintenance and servicing, genuine factory replacement parts **must** be used to restore your equipment to original specifications. The manufacturer will not be responsible for injuries or damages caused by use of unapproved parts and/or accessories.
8. A fire extinguisher and first aid kit should be kept readily accessible while performing maintenance on this equipment
9. Periodically tighten all bolts, nuts and screws and check that all cotter pins are properly installed to ensure unit is in a safe condition.
10. When completing a maintenance or service function, make sure all safety shields and devices are installed before placing unit in service.



3 OPERATION



OPERATING SAFETY

1. Read Operator's Manual.
2. Lower disc to the ground, stop engine, set park brake, remove ignition key and wait for all moving parts to stop before servicing, adjusting and repairing.
3. Do not carry people on disc or frame.
4. Add sufficient weight to front end of tractor to prevent wheels from coming off the ground when starting suddenly with a load.
5. Stay away from overhead power lines. Electrocutation can occur without direct contact.
6. Use caution when operating the tractor on uneven terrain. Decrease speed when making turns. Use front and rear wheel weights as required.
7. Use only with a unit with ROPS and a seat belt.
8. Never allow disc to be left in the "up" position when unattended.
9. Always remove the key when leaving the tractor unattended.
10. Review safety instructions.

3.1 TO THE NEW OPERATOR OR OWNER

Disc should run level when 3-point hitch is pre-adjusted as recommended and disc blades are running between 3" - 5" deep. Depth of cut will vary depending on soil type, moisture content and weight of implement. Start operation at a slower comfortable speed; increase tractor speed as clods reduce size. The types of soil, moisture and weight on disc will determine how many times you will have to go back and forth to get the kind of seed bed desired. For harder or dryer soils, additional weight may be added to improve penetration. Always operate disc with hitch hydraulic control lever in lowered "float" position. Ridging, sometimes caused by rear outer discs, can be reduced or eliminated by changing tractor speed, shortening upper link, or a combination of both. **Always lift disc before turning at ends of field.**

It is the responsibility of the owner or operator to read this manual and to train all other operators before they start working with the machine. Follow all safety instructions exactly. Safety is everyone's business. By following recommended procedures, a safe working environment is provided for the operator, bystanders and the area around the worksite. Untrained operators are not qualified to operate the machine.

Many features incorporated into this machine are the result of suggestions made by customers like you. Read this manual carefully to learn how to operate the machine safely and how to set it to provide maximum field efficiency. By following the operating instructions in conjunction with a good maintenance program, your Offset Disc will provide many years of trouble free service.

3.2 ADJUSTMENT

The design of the "GO" Disc allows only the rear gang to be moved. The front gang is fixed and cannot be moved. To move the rear gang, loosen the bolts on the clamps holding the rear gang frame to the main frame, slide the rear gang either right or left until the desired coverage is attained, and re-tighten the bolts on the clamps. The 3-point hitch can also be adjusted, either to the right or to the left, depending on where you want the disc to trail behind the tractor.

The entire disc can be adjusted front and rear by using the top link on the tractor's 3-point hitch. This will allow more pressure to be put on the front gang so it will cut deeper, or on the rear gang so it will cut deeper. Ideally, the best results will be attained if an equal amount of pressure is put on both gangs. The disc should also be adjusted laterally so that the outer disc blade of each gang cuts at the same depth. This is done by adjusting and leveling the lift arms on the tractor hitch.

Improper adjustments can cause discing problems. If problems should occur after following instructions in the manual, check the Troubleshooting Chart on page 13 for possible remedies.



IMPORTANT:

Always turn tractor key off and remove key before performing any maintenance or adjustments on Disc.

3.3 SCRAPER ASSEMBLY

If your disc is equipped with Scraper blades, they can be adjusted by following these directions. Each scraper is individually mounted and adjusted. To adjust the scraper:

1. Loosen the nut on the mount arm.
2. Slide the scraper in or out until it is approximately 3/8" away from the disc blade.
3. Tighten nut.

3.4 PRE-OPERATION CHECKLIST

Prior to use, it is recommended that the following mechanical items be checked:

A. Daily Operation Checks:

1. Check all nuts, bolts and other fasteners. Tighten to their specified torque level.
2. Clean the unit of dirt and trash to minimize rusting and wear.
3. Inspect all bearings for wear. Replace any worn out bearings.
4. Replace any decals that are worn or damaged.

IMPORTANT:

Torque disc gang axle nuts to 250 ft. lbs. after the first initial 5 hours of operation. Failure to tighten the axle nuts may result in the nut becoming loose or lost resulting in possible damage to the axle and/or disc gang.

Efficient and safe operation of the Disc requires that each operator reads and understands the operating procedures and all related safety precautions outlined in this section. A pre-operation checklist is provided for the operator. It is important for both the personal safety and maintaining the good mechanical condition of the Disc that this checklist is followed.

Before operating the machine and each time thereafter, the following areas should be checked off:

- ✓ Use only an Agricultural tractor of the appropriate horsepower on the machine.
- ✓ Check that the Disc is properly attached to the tractor.
- ✓ Be sure extra weights are mounted on the front end of the tractor to prevent wheels from coming off the ground when starting suddenly with a load.
- ✓ Check all parts for damage. Repair or replace as required.
- ✓ Check for entangled material. Remove this material.

3.5 FIELD OPERATION



OPERATING SAFETY

1. Read Operator's Manual.
2. Lower offset disc to the ground, stop engine, set park brake, remove ignition key and wait for all moving parts to stop before servicing, adjusting and repairing.
3. Do not carry people on disc or frame.
4. Add weight to front of tractor to prevent wheels from coming off the ground.
5. Stay away from overhead power lines. Electrocution can occur without direct contact.
6. Use caution when operating on uneven terrain. Decrease speed when making turns.
7. Use only with a unit with ROPS and a seat belt.
8. Never allow disc to be left in the "up" position when unattended.
9. Give complete undivided attention to the job at hand.
10. Do not go under raised implement. Keep others away.

The disc should run level when 3-point hitch is pre-adjusted as recommended and disc blades are running between 3" to 5" deep. Depth of cut will vary depending on soil type, moisture content and weight of implement. Start working operation at a slower comfortable speed; increase tractor speed as clods reduce size. The types of soil, moisture and weight on disc will determine how many times you will have to go back and forth to get the kind of seed bed desired. For harder or dryer soils, additional weight may be added to improve penetration. Always operate disc with hitch hydraulic control lever in lowered "float" position. Ridging, sometimes caused by rear outer discs, can be reduced or eliminated by changing tractor speed, shortening upper link, or a combination of both. **Always lift disc before turning at ends of field.**

Each operator should review this section of the manual at the start of the season and as often as required to be familiar with the machine.



CAUTION!

Be careful when working with Disc blades, as the edges are sharp. Wear gloves when working around disc blades.

1. After initial adjustments have been made and tractor is hooked up to Disc, you are ready to start discing.

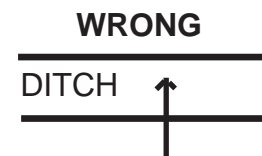
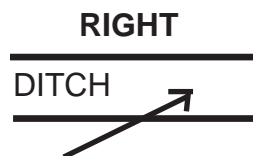
2. Lower Disc to ground and start moving forward. Your travel speed will be determined by soil conditions. You may find you want more or less angle on the discs to do the job. Refer to Disc Gang Angle Adjustment on page 15.
3. When turning, always lift implement up out of ground.



CAUTION!

Damage to the disc can occur if it is not lifted out of the ground before turning.

4. Do not disc in reverse (travel backwards). The disc is designed for working the soil while traveling forward only. Damage to the harrow may occur. Recommended procedure for corners or tight places is:
 - a. Lift unit up
 - b. Back up into corner or other tight areas
 - c. Lower disc to ground and proceed with discing going forward
5. Do not cross a ditch at a 90° angle (straight on). Damage to the disc and/or tractor may occur while crossing at a 90° angle. Always cross a ditch on a diagonal.



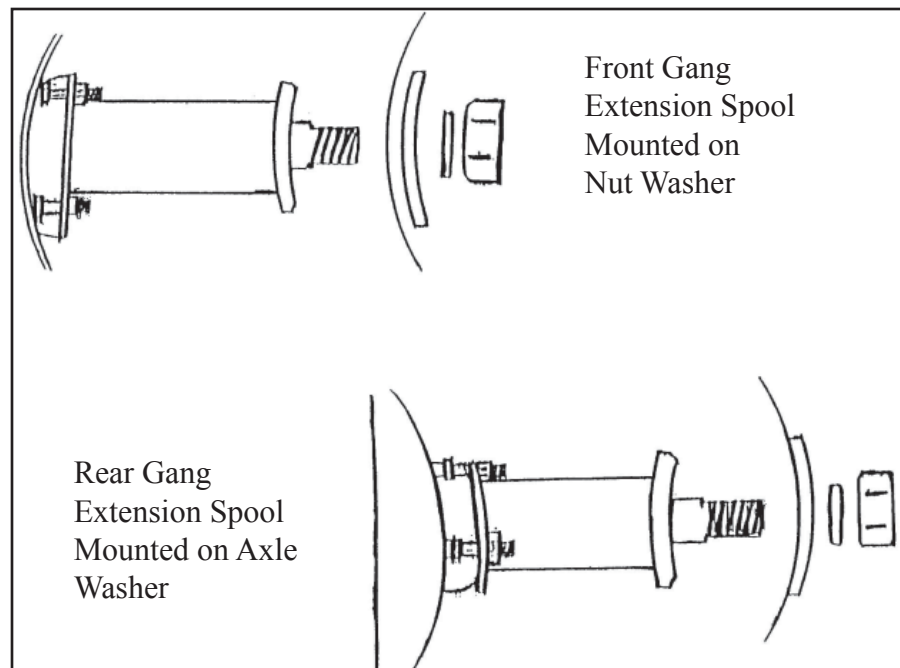
4 MAINTENANCE

4.1 REGULAR MAINTENANCE

1. Regularly check all nuts and bolts and make sure they are tight.
2. Regularly check all pins and click pins to make sure they are in place.
3. Check scraper blades and replace as needed.
4. If bearing dirt shields are used, check and replace as needed.
5. "GO" discs are equipped with non-greaseable sealed ball bearings. Regularly check bearings and make sure gang turns freely. Replace bearing if needed.
6. Store disc out of weather.

4.2 OPTIONAL SPOOL EXTENSION

All "GO" discs are equipped with an end washer and nut washer that will accommodate an extension spool. Extension spools are designed to fit either side of a gang and blades will mount on spool for either side of gang. See illustration below for mounting instructions.

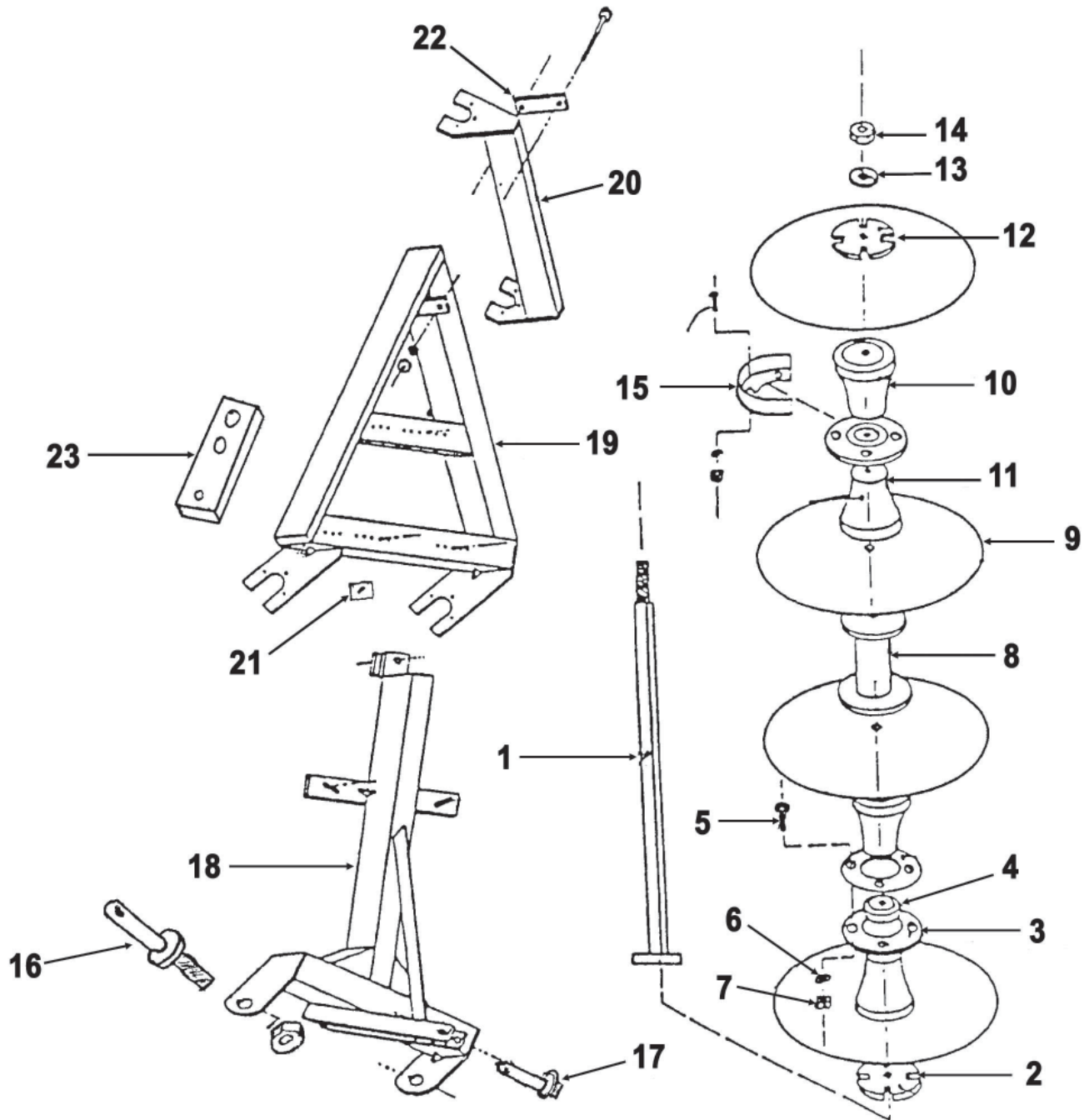


5 TROUBLESHOOTING

PROBLEM	POSSIBLE REMEDY
Furrow on left side not filling	<ul style="list-style-type: none"> ● Speed too slow, increase ground speed. ● Drive tractor so that left front disc is in the edge of the furrow. ● Loosen bolts on rear gang beam, move gang to left, then re-tighten. On standard disc, rear left blade should be cutting in approximately $\frac{2}{3}$ of the distance between the front two blades.
Not discing level	<ul style="list-style-type: none"> ● Front and rear gang not operating at equal depth. Adjust third link arm to lower or raise rear gang.
Disc will not penetrate	<ul style="list-style-type: none"> ● Tighten third link arm on tractor to increase pressure on front gangs.
Disc moves from side to side	<ul style="list-style-type: none"> ● Check 3-point arms. Make sure disc is level at a lateral position. ● Increase depth of cut.
Bending front outside disc blade and/or gang bolt	<ul style="list-style-type: none"> ● Lift disc off ground before turning.
Bearing failure	<ul style="list-style-type: none"> ● Check gang bolt. If bent, straighten or replace as needed. ● Tighten nut on gang bolt if needed.
Gang bolt bending	<ul style="list-style-type: none"> ● Check nut on gang bolt, tighten if needed. ● Check spacer spool, replace if needed.

6 DISC COMPONENTS

6.1 PARTS COMPONENTS



6.2 PART NUMBERS

<u>REF. #</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	184021	Axle - 10 Blade 1 ½"
2	WO6026	Axle Washer - 1 ½"
3	200018-24	Bearing Flange - 100 mm
4	WO6028	Bearing Square Bore - 1 ½"
5	200010-8-24	Carriage Bolt - ½" x 1 ½"
5	184024	Carriage Bolt - 1 ½" x 2"
6	20005-8	Lock Washer - ½"
7	20007-8	Nut - ½"
8	WO6029	Full Spool - 1 ½"
9	****	Disc Blade - 24" x 4.5 mm
10	WO6035	Half Spool Concave - 1 ½"
11	WO6030	Half Spool Convex - 1 ½"
12	WO6031	Nut Washer - 1 ½"
13	200005-24	Axle Lock Washer - 1 ½"
14	200007-24	Axle Nut - 1 ½"
15	185056	Bearing Dirt Shield - 1 ½"
16	185116	Pull Pin - Cat. 2
17	185003	Top Pin - Cat. 2
18	184027	A-frame, 6' 9" - 8' 3"
19	184030	Main Frame - 7' 6"
20	184031	Rear Gang - 7' 6"
21	184034	Square Plate Washer
22	184036A	Rear Gang Mount Plate
23	184038	Front Gang Scraper Mount Bar

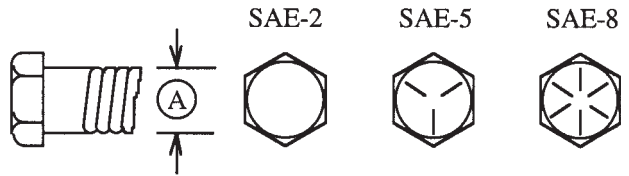
6.3 BOLT TORQUE

CHECKING BOLT TORQUE

The tables shown below give correct torque values for various bolts and capscrews. Tighten all bolts to the torques specified in chart unless otherwise noted. Check tightness of bolts periodically, using bolt torque chart as a guide. Replace hardware with the same strength bolt.

ENGLISH TORQUE SPECIFICATIONS

Bolt Diameter "A"	Bolt Torque *					
	SAE 2		SAE 5		SAE 8	
	N.m	(lb-ft)	N.m	(lb-ft)	N.m	(lb-ft)
1/4"	8	(6)	12	(9)	17	(12)
5/16"	13	(10)	25	(19)	36	(27)
3/8"	27	(20)	45	(33)	63	(45)
7/8"	41	(30)	72	(53)	100	(75)
1/2"	61	(45)	110	(80)	155	(115)
9/16"	95	(70)	155	(115)	220	(165)
5/8"	128	(95)	215	(160)	305	(220)
3/4"	225	(165)	390	(290)	540	(400)
7/8"	230	(170)	570	(420)	880	(650)
1"	345	(225)	850	(630)	1320	(970)



Torque figures indicated above are valid for non-greased or non-oiled threads and heads unless otherwise specified. Therefore, do not grease or oil bolts or capscrews unless otherwise specified in this manual. When using locking elements, increase torque values by 5%.

* Torque value for bolts and capscrews are identified by their head markings.

7 LIMITED WARRANTY



GEARMORE, INC., warrants each new Gearmore product to be free from defects in material and workmanship for a period of twelve (12) months from date of purchase to the original purchaser. This warranty shall not apply to implements or parts that have been subject to misuse, negligence, accident, or that have been altered in any way.

Our obligation shall be limited to repairing or replacement of any part, provided that such part is returned within thirty (30) days from date of failure to Gearmore through the dealer from whom the purchase was made, transportation charges prepaid.

This warranty shall not be interpreted to render us liable for injury or damages of any kind or nature, direct, consequential or contingent, to person or property. This warranty does not extend to loss of crops, loss because of delay in harvesting or any other expenses, for any other reasons.

Gearmore in no way warrants engines, tires, or other trade accessories, since these items are warranted separately by these respective manufacturers.

Gearmore reserves the right to make improvements in design or changes in specification at any time, without incurring any obligations to owners or units previously sold.

GEARMORE, INC.
13477 Benson Ave.
Chino, CA 91710

Always refer to and heed machine operating warning decals on machine.

The serial number of this product is stored in our computer database, thus submitting a warranty registration card is not required.