107 DRILL™
SERIAL NUMBER UP TO 4426

Operating Instructions and Parts Reference
DuraTech Industries International Inc. (DuraTech Industries) has made every effort to assure that this manual completely and accurately describes the operation and maintenance of the 107 DRILL™ as of the date of publication. DuraTech Industries reserves the right to make updates to the machine from time to time. Even in the event of such updates, you should still find this manual to be appropriate for the safe operation and maintenance of your unit.

This manual, as well as materials provided by component suppliers to DuraTech Industries are all considered to be part of the information package. Every operator is required to read and understand these manuals, and they should be located within easy access for periodic review.

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Foreword

*All personnel must read and understand before operating unit*

- Foreword and Section 1, important safety information.
- Section 2, ”Dealer Preparation,” to verify that the machine has been prepared for use.
- Section 3, “Introduction,” which explain normal operation of the machine.
- Section 4.1, “Operating Instructions” Pre-Operation Inspection Check List.

**Appropriate use of the unit**

The 107 Grain Drill is designed to seed No-Till, Minimum Till, or conventionally tilled fields. The two compartment hopper offers the flexibility of seeding with fertilizer, seeding alone, or planting two different seeds.

**Operator protection**

As with all machinery, care needs to be taken by the operator in order to insure the safety of the operator and those in the surrounding area.

**WARNING:** Operators and those observing the operation of the 107 GRAIN DRILL are required to wear head, eye, and ear protection. No loose clothing is allowed.
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107 DRILL™

SERIAL NUMBER UP TO 4426

PART 1: Operating Instructions
Introduction

The 107 Grain Drill is designed to seed No-Till, Minimum Till, or conventionally tilled fields. Two 30 gallon tanks are available for added ballast to penetrate the tough no-till conditions.

The two compartment hopper offers the flexibility of seeding with fertilizer, seeding alone, or planting two different seeds. The metering system for each hopper is infinitely adjustable.

Field hitches are available for one or multiples of two, three, and four drills. A tow hitch is available for towing two or more drills in transport.

Purpose

The purpose of this owner’s manual is to explain maintenance requirements and routine adjustments for the most efficient operation of your 107 Grain Drill. There is also a trouble shooting section that may help in case of problems in the field. Any information not covered in this manual may be obtained from your dealer.

Special Note: When reference is made as to front, rear, right hand or left hand of this machine, the reference is always made from standing at the rear end of the machine and looking towards the hitch. Always use serial number and model number when referring to parts or problems. Please obtain your serial number and write it below for your future reference.

MODEL:  107 DRILL          SERIAL NO.  ________________________
Section 1: Safety

The safety of the operator is of great importance to DuraTech Industries/Haybuster. We have provided decals, shield and other safety features to aid you in using your machine safely. In addition, we ask you to be a careful operator who will properly use and service your Haybuster equipment.

**WARNING:** FAILURE TO COMPLY WITH SAFETY INSTRUCTIONS THAT FOLLOW WITHIN THIS MANUAL COULD RESULT IN SEVERE PERSONAL INJURY OR DEATH. BEFORE ATTEMPTING TO OPERATE THIS MACHINE, CAREFULLY READ ALL INSTRUCTIONS CONTAINED WITHIN THIS MANUAL. ALSO READ THE INSTRUCTION MANUAL PROVIDED WITH YOUR TRACTOR.

THIS MACHINE IS NOT TO BE USED FOR ANY PURPOSE OTHER THAN THOSE EXPLAINED IN THE OPERATOR’S MANUAL, ADVERTISING LITERATURE OR OTHER DURATECH INDUSTRIES WRITTEN MATERIAL PERTAINING TO THE 107 GRAIN DRILL.

### 1.1 Safety-alert symbols

Decals are illustrated in Part 2: Parts Reference.

The safety decals located on your machine contain important and useful information that will help you operate your equipment safely.

To assure that all decals remain in place and in good condition, follow the instructions below:

- Keep decals clean. Use soap and water - not mineral spirits, adhesive cleaners and other similar cleaners that will damage the decal.
- Replace all damaged or missing decals. When attaching decals, surface temperature of the machine must be at least 40°F (5°C). The surface must be also be clean and dry.
- When replacing a machine component to which a decal is attached, be sure to also replace the decal.
- Replacement decals can be purchased from your Haybuster dealer.
DuraTech Industries uses industry accepted ANSI standards in labeling its products for safety and operational characteristics.

**Safety-Alert Symbol**

Read and recognize safety information. Be alert to the potential for personal injury when you see this safety-alert symbol.

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**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 that, 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.

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This manual uses the symbols to the right to denote important safety instructions and information.

The **DANGER, WARNING** and **CAUTION** symbols are used to denote conditions as stated in the text above. Furthermore, the text dealing with these situations is surrounded by a box with a white background, will begin with **DANGER, WARNING, or CAUTION**.

The **INFORMATION** symbol is used to denote important information or notes in regards to maintenance and use of the machine. The text for this information is surrounded by a box with a light grey background, and will begin with either **Important** or **Note**.
1.2 Operator - personal equipment

THE OPERATOR

Physical Condition
You must be in good physical condition and mental health and not under the influence of any substance (drugs, alcohol) which might impair vision, dexterity or judgment.

Do not operate a 107 DRILL when you are fatigued. Be alert - If you get tired while operating your 107 DRILL, take a break. Fatigue may result in loss of control. Working with any farm equipment can be strenuous. If you have any condition that might be aggravated by strenuous work, check with your doctor before operating

Proper Clothing

Clothing must be sturdy and snug-fitting, but allow complete freedom of movement. Avoid loosefitting jackets, scarfs, neckties, jewelry, flared or cuffed pants, unconfined long hair or anything that could become entangled with the machine.

Protect your hands with gloves when handling flail and sections. Heavyduty, nonslip gloves improve your grip and protect your hands.

Good footing is most important. Wear sturdy boots with nonslip soles. Steel-toed safety boots are recommended.

To reduce the risk of injury to your eyes never operate a 107 DRILL unless wearing goggles or properly fitted safety glasses with adequate top and side protection.

Tractor noise may damage your hearing. Always wear sound barriers (ear plugs or ear mufflers) to protect your hearing. Continual and regular users should have their hearing checked regularly.
1.3 Machine safety labels

The safety decals located on your machine contain important information that will help you operate your equipment. Become familiar with the decals and their locations.

**WARNING:** FOR YOUR PROTECTION AND PROTECTION OF OTHERS, PRACTICE THE FOLLOWING SAFETY RULES.

1. BEFORE OPERATING THIS MACHINE, READ THE OPERATOR’S MANUALS SUPPLIED WITH THIS MACHINE AND YOUR TRACTOR.

2. CHECK OPERATORS MANUALS TO BE SURE YOUR TRACTOR MEETS THE MINIMUM REQUIREMENTS FOR THIS MACHINE.

3. READ ALL DECALS PLACED ON THIS MACHINE FOR YOUR SAFETY AND CONVENIENCE.

4. NEVER ALLOW RIDERS ON THIS IMPLEMENT OR THE TRACTOR.

5. KEEP OTHERS AWAY FROM THIS MACHINE WHILE IN OPERATION.

6. KEEP ALL SHIELDS IN PLACE WHILE MACHINE IS OPERATING.

7. KEEP HANDS, FEET, LOOSE CLOTHING, ETC., AWAY FROM POWER DRIVEN PARTS.

8. ALWAYS SHUT OFF MACHINE AND ENGINE BEFORE SERVICING, UNCLOGGING, INSPECTING, OR WORKING NEAR THIS MACHINE FOR ANY REASON. ALWAYS PLACE TRANSMISSION IN PARK OR SET PARK BRAKE AND WAIT FOR ALL MOVEMENT TO STOP BEFORE APPROACHING THIS MACHINE.

**WARNING:** FOR YOUR PROTECTION KEEP ALL SHIELDS IN PLACE AND SECURED WHILE MACHINE IS OPERATING MOVING PARTS WITHIN CAN CAUSE SEVERE PERSONAL INJURY.
WARNING: CHEMICALS MAY CAUSE EYE, SKIN AND BREATHING PROBLEMS. WEAR FACE MASK, GLOVES AND GOGGLES. READ AND FOLLOW SAFETY INSTRUCTIONS ON THE CHEMICAL SUPPLIERS LABEL.

WARNING: NO RIDERS. SERIOUS PERSONAL INJURY COULD RESULT FROM RIDING ON STEP.

WARNING: DISC BLADES ARE EXTREMELY SHARP! WEAR HEAVY GLOVES WHEN SERVICING.

CAUTION: KEEP WHEEL BOLTS TIGHT.
1.4 Shielding
Shields are installed for your protection. Keep them in place, and replace damaged shields.

1.5 Personal equipment
Operators of this machine are encouraged to wear head, eye, and ear protection. Loose clothing is discouraged.

1.6 Safety review

BEFORE OPERATING

• Read and follow all instructions contained in:
  A. This 107 DRILL Operator’s Manual.
  B. Tractor operator’s manual.
  C. Decals placed on the 107 Drill and Tractor.

NOTE: Additional copies of the above mentioned materials can be obtained from your dealer.

• Be sure all safety shields and covers are securely in place when machine is running.
• Read all warning and instructional decals placed on the machine for your safety and convenience.
• Allow only responsible, properly instructed individuals to operate machine. Carefully supervise inexperience operators.
• Make no modifications to this equipment unless specifically requested or recommended by DuraTech Industries.
• Tighten or replace any loose or cracked bolts, chains, hoses or connections.
• The towing vehicle must be of equal or greater weight than the grain drill for adequate braking capacity.
DURING OPERATION

- Exercise extreme caution with operating the drill on steep slopes or grades.
- Be sure all spectators are clear of the area where the drill is in operation or raised and lowered.
- Be sure the tractor operator is the only person riding the tractor. Allow no one to ride the drill at any time.
- Remember, loose clothing, necklaces and similar items are more easily caught in moving parts. Avoid the use of these items if possible and keep long hair confined.
- Never work under the drill when the drill is lifted up unless the safety stop bar is in position.
- Watch out for and avoid any object that might interfere with the proper operation of the machine.

DURING SERVICE & MAINTENANCE

**CAUTION:** Before performing any maintenance or adjustments make sure machine is NOT running. If for any reason arc welding is to be done, always ground rotor to frame of machine to prevent arcing on bearings.

- Before working on or near drill for any reason including servicing, lubricating, cleaning, inspecting or refilling, or if working under drill or detaching from tractor, install safety stop bar (next to hydraulic cylinder).
- When replacing any part on your drill, be sure to use only DuraTech Industries authorized parts.
- Relieve all pressure in the hydraulic system before disconnecting the lines or performing other work on the system. Make sure all connections are tight and the hoses and lines are in good condition before applying pressure to the system.

**CAUTION:** Hydraulic fluid escaping under pressure can be invisible and have enough force to penetrate the skin. When searching for a suspected leak, use a piece of wood or cardboard rather than your hands. If injured, seek medical attention immediately to prevent serious infection or reaction.

- Be careful when using a hoist or other lifting device. Use only devices that have adequate lifting capacity and be sure the chain or cable is securely attached.
WHEN TRANSPORTING ON PUBLIC ROADS

- Use good judgment and drive carefully, especially over rough or uneven roads.
- Be sure tractor brakes are properly adjusted and foot pedals locked together.
- Check your state laws regarding the use of lights, slow moving vehicle sign, safety chain and other possible requirements.
- Do not tow drills at speeds over 20 mph. It is recommended that drills be empty of seed or fertilizer when transporting.
IMPORTANT WINCH SAFETY INFORMATION

- The winch is built for multipurpose hauling and lifting operations. It is not to be used as a hoist for lifting, supporting or transporting people, or for loads over areas where people could be present.

- Respect the winch. High forces are created when using a winch, creating potential safety hazards. It should be operated and maintained in accordance with instructions. Never allow children or anyone who is not familiar with the operation of the winch to use it. A winch accident could result in personal injury.

- Check winch for proper operation on each use. Do not use if damaged. Seek immediate repairs.

- Never exceed rated capacity. Excess load may cause premature failure and could result in serious personal injury.

- Never apply load on winch with cable fully extended. Keep at least three full turns of cable on the reel.

- Secure load properly. When winching operation is complete, do not depend on winch to support load.

- Operate with hand power only. This winch should not be operated with a motor of any kind. If the winch cannot be cranked easily with one hand, it is probably overloaded.

FAILURE TO COMPLY WITH ANY OF THE ABOVE SAFETY INSTRUCTIONS OR THOSE THAT FOLLOW WITHIN THIS MANUAL MAY RESULT IN SEVERE INJURY OR DEATH.

THIS DRILL IS NOT TO BE USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS INTENDED AS EXPLAINED IN THE OPERATOR’S MANUAL, ADVERTISING MATERIALS AND OTHER PERTINENT WRITTEN MATERIAL PREPARED BY DURATECH INDUSTRIES.
Section 2: Dealer Preparation

2.1 Gauge Wheel Attachment

The heavy duty gauge wheels mount on the tool bar in front of the drill. The gauge wheels are adjustable to maintain a uniform planting depth when on side hills.

INSTALLATION

Step 1: Place the gauge wheel mount assembly in front of the second run assembly from either tool bar end. See the accompanying illustration.

Step 2: Mount the gauge wheel mount assembly to the tool bar by using two gauge wheel mount straps and four 5/8” x 6-1/2” hex bolts, lock washer and nuts provided. See accompanying illustration.

Step 3: Repeat Step 1 and Step 2 for the gauge wheel on the other side of the tool bar.

Step 4: Lift the tool bar using the drill’s hydraulics and insert both gauge wheels into the bottom of the gauge wheel mount assemblies. See the accompanying illustration.

Step 5: If conditions prevent Step 4 from being done, the gauge wheels can be inserted into the front of the gauge wheel mount assemblies. To do this, remove all four bolt sleeves (two per gauge wheel mount assembly) by unbolting the four 3/4” x 6” hex bolts, lock washers and nuts and push the gauge wheels into the mount assemblies. Bolt the bolt sleeves on to the gauge wheel mount assemblies again.

Step 6: Adjust the gauge wheels to the desired position by inserting the adjustment handle through the proper gauge wheel adjustment with the hair pin. This adjustment determines the gauge wheel height that maintains the uniform planting depth on side hills. See the accompanying illustration.
Gauge Wheel (Option) Installation

- 5/8" x 6½" BOLT
- 3/4" x 6" BOLT
- GAUGE WHEEL MOUNT ASSEMBLY (1 OF 2)
- TOOL BAR
- ADJUSTMENT HANDLE
- GAUGE WHEEL MOUNT STRAP
- GAUGE WHEEL (1 OF 2)
2.2 False Bottom Attachment

The false bottom attachment allows the use of both tanks, front and back, to be used in combination for seed. This will enable the seed tanks to last longer before refilling during seeding operation.

**INSTALLATION**

**Step 1:** Remove the divider cover (Item #2) from the grain tank by unbolting and setting the cover aside.

**Step 2:** Insert the false bottom right hand (RH) sheet (Item #3) by holding its handles and pushing the studs into the existing slots found just below the 6” x 24” openings in the center divider as shown in the accompanying illustration.

**Step 3:** Insert the false bottom LH sheet (Item #4) in the same manner as described in Step 2.

**Step 4:** Place the side seal retainer RH (Item #5) on the false bottom RH with the rubber seal (Item #9) fitting in the crimp space provided between the two parts (See Detail A).

**Step 5:** Place the side seal retainer LH (Item #6) on the false bottom LH with the rubber seal (Item #9) as in Step 4.

**Step 6:** Place the upper seals (Items #7 and #8) on their respective false bottoms as shown in the accompanying illustration.

**Step 7:** Position the false bottoms by moving them to the left or right so that 1/2” exists between the false bottoms and the seed tank wall (See Detail A).

**Step 8:** Place all flat washer, lock washers and nuts (Items #11, #12 and #13) in their respective locations as shown in the accompanying illustration.

**Step 9:** Tighten only the false bottom nuts to secure the false bottoms to the center divider.

**Step 10:** Slide the upper seals and the side seal retainers firmly against their respective walls and tighten all the nuts.

The preceding steps are to be followed in the opposite fashion starting with the last step and proceeding to Step 1 to bring the drill to its original manner.
False Bottom (Option) Installation
2.3 Drill Legume Box Attachment

The legume box attachment features fluted-feed cups which are capable of accurately metering small seeds even at very low rates. The hopper will hold up to 150 lbs. of seed.

INSTALLATION

Step 1: Drill four 7/16” diameter holes in the front (grain) box as shown in Figure 1. Measure these holes carefully and use a good center punch to mark locations before drilling. Loosely bolt the mounting bracket to the grain box observing left hand and right hand parts.

Step 2: Remove the convoluted grain hoses and unbolt the cup assemblies from the grain tank. Replace with modified cup assemblies provided with the legume box kit. Reattach the convoluted grain hoses to the cups.

Step 3: Loosen chains, sprockets and bearings and move countershaft on grain tank. Reinstall existing bearings, sprockets and chains and install 15 tooth sprocket as shown in Figure 2.

Step 4: Bolt legume box to grain tank using the four 3/8” x 1” bolts provided. The mounts welded to the rear of the legume box should go between the mounting brackets installed in Step 1. Tighten all mounting bolts securely.

Step 5: Bolt the two bearing standards to the brackets on the legume box using six 5/16” x 3/4” carriage bolts, flat washers, lock washers and nuts. Align the bearing standards before tightening bolts. Loosely bolt the bearings to the outside of the bearing standards using the four 5/16” x 3/4” carriage bolts. Install the 29” shaft with the 17 tooth sprocket BETWEEN the bearings as shown in Figure 2. Install two wooden block chain tightener using 3/8” x 2-1/2” bolts, two flat washers, lock washer and nuts. Tighten the drive chains.

Step 6: Cut 5/8” I.D. clear plastic hose to 22” lengths. Eighteen are required. Install hoses on the grain cups first and then on legume box cups. Dipping the ends in a liquid soap solution (one part soap to one part water) will ease installation of the hoses.
Legume Box (Option)
Installation: Figure 1
Legume Box (Option)
Installation: Figure 2
## 2.4 Legume Hopper Shipping Kit (Optional)

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<td>WASH\LOCK\5/16</td>
</tr>
</tbody>
</table>
Section 3: Introduction

Every effort has been made to ensure that the information contained in this manual is correct at the date of publication; but, due to continuous improvements, DuraTech Industries reserves the right to make changes in the contents without notice or obligation.

This manual is shipped with each machine to familiarize the operator with the proper operating, maintenance and lubrication instructions to insure the best possible performance and service from the machine. Study and understand these instructions thoroughly before operating the machine. We recommend that this manual be readily available for reference at all times. Consult your DuraTech Industries dealer if any items in this manual are not understood.

DuraTech reserves the right to make changes in engineering, design and specifications, add improvements, or discontinue manufacture at any time without notice or obligation.

3.1 Ordering Parts

When ordering parts always specify your model number, serial number, and the number of the parts you wish to order.

IMPORTANT: WHEN REPLACEMENT PARTS ARE NEEDED, USE THE LISTED PART NUMBERS AND DESCRIPTIONS TO INSURE FAST AND ACCURATE SHIPMENT OF YOUR ORDER. WHEN ORDERING PARTS ALWAYS SPECIFY UNIT SERIAL NUMBER.

ONLY AUTHORIZED PARTS SHOULD BE USED FOR REPAIR AND/OR REPLACEMENT.
3.2 Serial Number Decal

The serial number and the machine model number are stamped on the decal. The model number and serial number are important when service and/or parts are required.

3.3 About your 107 Grain Drill

The 107 Grain Drill is designed to seed No-Till, Minimum Till, or conventionally tilled fields. Two 30 gallon tanks are available for added ballast to penetrate the tough no-till conditions.

The two compartment hopper offers the flexibility of seeding with fertilizer, seeding alone, or planting two different seeds. The metering system for each hopper is infinitely adjustable.

Field hitches are available for one or multiples of two, three, and four drills. A tow hitch is available for towing two or more drills in transport.
Section 4: Operating Instructions

To insure long life and economical operation, we highly recommend the operator of the 107 Grain Drill be thoroughly instructed in the maintenance and operation of the machine. There is no substitute for a sound, preventative maintenance program and a well-trained operator.

Prior to operating the Grain Drill, we recommend the operator make a visual inspection of the unit. This can be done as the lubrication is being carried out.

4.1 Operating Instructions

Check the following:

- Hydraulic components for leaks or damage.

WARNING: Hydraulic fluid escaping under pressure can be almost invisible and can have sufficient force to penetrate the skin. When searching for suspected leaks, use a piece of wood or cardboard rather than your hands.

If injured, seek medical attention immediately to prevent serious infection or reaction.

- Lug nuts for tightness.
- Condition of tire rims.
- Tires for proper air pressure.
- Condition of rubber convoluted hoses.
- Adjustment of all chains.
- Installation and condition of shields.
- Installation of Slow Moving Vehicle (SMV) sign, if required.
- Condition of decals.

WARNING: Before attempting to operate this machine, refer again to pages 14-17 for important safety information.
4.2 Grain Drill Setup

The 107 Grain Drill may be shipped without the hydraulic lift cylinder, since the grain drill used a standard 3” x 8” cylinder. The retracted length must be 20-1/4”, measured from the center of the mounting holes. When multiple grain drills are used, a cylinder will be required for each grain drill.

- Set the wheels on your tractor out as wide as possible for maximum stability.
- Hitch the grain drill to the tractor. Install the hitch pin as shown in Figure C.
- Connect the hydraulic hoses to the tractor’s hydraulic system.

4.3 Pressure Spring Adjustment

To gain versatility for all types of terrain and soil conditions, it is important to have a considerable amount of up and down travel built into each individual run. When seeding on level terrain, adjust hydraulic cylinder stroke to lower Movable Frame so openers penetrate soil approximately two (2) inches and Parallel Bars are about level when viewed from the side. The toolbar height will be about 20” when discs are new. This will allow runs to move up or down according to terrain.

If parallel bars are not level, it will be necessary to adjust pressure spring, or press wheel adjustment.

Proper tension of the pressure spring varies with conditions. No-till seeding may require more down pressure; loose soil requires less. Since the pressure springs work together with the opener depth adjustment controlled by the hydraulic cylinder, make sure that the opener depth adjustment is set correctly.
In extremely loose soils such as freshly worked summer fallow, it will be necessary to lessen tension on pressure spring instead of lessening hydraulic cylinder stroke.

To adjust the pressure springs:

1. Make sure the movable frame is raised completely up and the safety stop bar is secured.
2. Using the adjustment nut on each pressure spring, adjust the spring to the desired length. See table at right showing the opener pressure obtained at various spring lengths. Under no circumstances should the spring be adjusted to less than 10 inches. This may damage the spring and related parts and will also void the warranty on these parts.

<table>
<thead>
<tr>
<th>SPRING LENGTH</th>
<th>OPENER PRESSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>12¼ IN.</td>
<td>135 LBS.</td>
</tr>
<tr>
<td>11½ IN.</td>
<td>180 LBS.</td>
</tr>
<tr>
<td>11 IN.</td>
<td>205 LBS.</td>
</tr>
<tr>
<td>10½ IN.</td>
<td>235 LBS.</td>
</tr>
<tr>
<td>10 IN.</td>
<td>300 LBS.</td>
</tr>
</tbody>
</table>

4.4 Press Wheel Adjustment

In addition to firming the soil around the seed, the press wheels serve as gauge wheels for the openers. The relationship of each press wheel and opener will remain consistent regardless of terrain or soil density. If the seed is too deep, lower the press wheel. If the seed is too shallow, raise the press wheel.

To adjust the press wheel height:

1. Remove quick attachment pin.
2. To lower the press wheel, relocate shim washers from top to bottom. To raise the press wheel, relocate shim washers from bottom to top.
3. Install quick attachment.
4.5 Haybuster 107 Drill Opener

The 107 Drill uses a coulter-disk offset opener. The coulter blade leads the disk by 1-1/2". Both blades are the same size and due to the offset, there is some sliding action where the blades contact. This sliding or scissor action provides excellent residue cutting action at ground level, especially in wet residue. The scissor action causes some wear into the coulter blade at the point of contact. This wear is normal and the heavier coulter blade is bolted to the bearing cage to allow easy replacement.

One complete turn changes points A and B (DWG. 1) the amount shown in DWG. 2. It takes 6 turns to bring points A and B back together.
4.6 Feed Wheel Space Adjustment

**SERIAL NO. 201 THRU 552**

To set the adjustment:

Large seeds require more space between feed wheel lugs and tank wall than small seeds to prevent cracking. Small seeds require less space to provide an even flow. Therefore each seed listed in the feed rate chart shows a required wheel space.

See Illustration Below

Remove feed wheel covers. Loosen bolts A and B. Insert gauge required and retighten bolts. Recheck for accuracy. Be sure to replace feed wheel cover before filling tank.

Fertilizer requires only the 1/4" setting.

**SERIAL NO. 553 THRU**

Large seeds require more space between feed wheel lugs and tank wall than small seeds to prevent cracking. Small seeds require less space to provide an even flow. Therefore each seed listed in the feed rate chart, pages 31 to 38, shows a required wheel space.
FEED WHEEL SPACE ADJUSTMENT

1. Remove the feed wheel covers.
2. Loosen the eight bolts A and B. There are four sets of bolts for each feed wheel - two on the outer end of the hopper and six inside the hopper.
3. Select the proper space gauge using the wheel space chart.
4. Install the proper space gauge as shown.
5. Slide the feed wheel toward the gauge until the feed wheel lugs, gauge and hopper are pressed together. Tighten the eight bolts.
6. Recheck the feed wheel space adjustment.
7. Install the feed wheel covers.

The feed wheel space adjustment provides the proper clearance for the type of seed or fertilizer being used.

4.7 100 Drill Cleanout Slides

SERIAL NO. 900 THRU

Cleanout slides are provided on both grain and fertilizer tanks. Handles for opening and closing the slides are located on the left side of the drill.
4.8 Calibration Pointer Adjustment

SERIAL NO. 201 THRU

Grain and fertilizer sliding gates are preadjusted at the factory. In the event any part of the calibrating mechanism is removed or replaced, it can be recalibrated in this order:

1. Place both pointer nut and anchor nut in the center of their respective thread.
2. Insert a short length of 7/16” rod or the shank end of a 7/16” drill bit into the square hole in sliding gate as shown.(figure 4.7)
3. Tighten bearing bolts securing calibration screw to end of tank.
4. Tighten bolts securing anchor nut to sliding gate.
5. Place scale plate on tank so number 8 is directly in line with top of pointer. This will insure pointer setting to coincide with chart. Scale plate must be parallel with calibration screw to allow pointer to operate smoothly along plate.
4.9 Setting And Checking Feed Rate

For most seeding, the feed wheel should be aligned as shown above. Set the pointer on number 8. The center of the feed wheel should be centered in the opening as viewed from outside of the box.

The rates shown on the charts serve only as a starting point. Due to variations in material size and density the rates may vary from the chart. The following methods may be used to determine the proper setting for your particular seed or fertilizer.

Setting and checking feed rate using wheat as an example.

1. You want to seed wheat at a rate of 95 lbs. per acre on 7” spacing.
2. Seed rate charts calls for a wheel space of 1/8” (page 31). Pointer set on 8 (page 28). The adjustment should be made before filling grain tank.
3. Make sure feed wheel cover is in place. Put grain in tank.
4. Seed far enough so you can visually check grain flowing into seed cups.

The addition of the single agitator to the standard drill box will prevent these seeds from bridging above the feed wheels. The single agitator may be added to all 107 drills after Serial No. 553. (Serial No. 553 to 899 require longer agitator shafts.)

Alti wildrye
Bromegrass #
Intermediate wheatgrass
Killdeer sideoats #
Pubescent wheatgrass
Streambank wheatgrass
Tall wheatgrass
Western wheatgrass

# Extremely trashy samples may require the double agitator.
4.10 Checking Feed Rate

1. Measure a distance of 415’ (1/10 acres) 7” spacing and mark. Remove one hose from seed hopper on each drill. Attach a container (cloth or plastic bag) to hopper to collect seed.

2. Operate drill at intended planting speed through entire length of test track.

3. Weigh the sample in ounces (less weight of sample container). Use the following formula to determine lbs./acre for your particular shank spacing.

   \[
   \text{7” Spacing} = \text{oz.} \times 11.25 = \text{lbs./acre}
   \]

   \[
   \text{10” Spacing} = \text{oz.} \times 7.5 = \text{lbs./acre}
   \]

**EXAMPLE**

<table>
<thead>
<tr>
<th>Sample and container weighs</th>
<th>9.9 ounces</th>
</tr>
</thead>
<tbody>
<tr>
<td>Container weighs</td>
<td>- 1.5 ounces</td>
</tr>
<tr>
<td>Weight of sample only</td>
<td>8.4 ounces</td>
</tr>
</tbody>
</table>

4. Use formula No. 1 to figure pounds per acre. 8.4 ounces $\times 11.25 = 94.5$ pounds per acre.

5. To calibrate a seed not shown on the chart or a mix of different seeds, compare to a similar charted seed to obtain a trial setting. Recalibrate as necessary.

6. The same method may be used to determine fertilizer rates.
# DRILL OPERATING INSTRUCTIONS

Series 100
Spacing 7"
Model No. 107

## CHART FOR DRILLING GRAIN IN POUNDS PER ACRE

**SERIAL NO. 553 THRU 553 THRU POINTER SETTING**

<table>
<thead>
<tr>
<th>WHEEL SPACE</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
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<tbody>
<tr>
<td>WHEAT</td>
<td>1/8</td>
<td>13</td>
<td>21</td>
<td>29</td>
<td>39</td>
<td>50</td>
<td>63</td>
<td>78</td>
<td>95</td>
<td>111</td>
<td>126</td>
<td>150</td>
<td>173</td>
<td>199</td>
</tr>
<tr>
<td>BARLEY</td>
<td>1/8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>22</td>
<td>29</td>
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<td>55</td>
<td>63</td>
<td>74</td>
<td>90</td>
<td>104</td>
</tr>
<tr>
<td>OATS</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>8</td>
<td>11</td>
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<td>32</td>
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<td>15</td>
<td>22</td>
<td>30</td>
<td>40</td>
<td>50</td>
<td>63</td>
<td>78</td>
</tr>
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<td>SOYBEANS</td>
<td>3/8</td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td>17</td>
<td>20</td>
<td>26</td>
<td>35</td>
<td>46</td>
<td>58</td>
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<td>BUCKWHEAT</td>
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<td>16</td>
<td>22</td>
<td>29</td>
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<td>53</td>
<td>66</td>
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<tr>
<td>FLAX OR SUDAN GRASS</td>
<td>1/8</td>
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<td>7</td>
<td>10</td>
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<td>3</td>
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<td>5</td>
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<td>17</td>
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<td>26</td>
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<tr>
<td>FESCUE</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
<td>6</td>
<td>12</td>
<td>14</td>
<td>19</td>
</tr>
<tr>
<td>SWITCH GRASS</td>
<td>1/8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
<td>7</td>
<td>12</td>
<td>19</td>
</tr>
<tr>
<td>SUNFLOWER (#3 6500/LB.)</td>
<td>1/8</td>
<td>3</td>
<td>5</td>
<td>6</td>
<td>8</td>
<td>10</td>
<td>14</td>
<td>18</td>
<td>21</td>
<td>26</td>
<td>31</td>
<td>37</td>
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<tr>
<td>FERTILIZER</td>
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<td>3</td>
<td>6</td>
<td>11</td>
<td>17</td>
<td>24</td>
<td>35</td>
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<td>62</td>
<td>77</td>
<td>93</td>
<td>116</td>
<td>138</td>
<td>150</td>
</tr>
</tbody>
</table>

18-46-0

## 100 DRILL DETERMINING SEED POPULATION

The 100 Drill seeds 10.50’ 126" per pass.

The drill travels 4149 feet to seed 1 acre.

Following is the lineal feet of seeded row to seed 1 acre.

7” - 18” rows - 74,682

**EXAMPLE:**
150,000 beans on 7” row spacing
150,000 divided by 74,682 = 2.0 beans per ft.
10 ft. of row - 20 beans.
### CHART FOR DRILLING GRAIN IN POUNDS PER ACRE

#### SERIAL NO. 101 THRU 552

#### POINTER SETTING

| WHEELSPACE | 1/4 | 3/8 | 6/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/2 | 2 | 2 1/2 | 3 | 3 1/2 | 4 | 4 1/2 | 5 | 5 1/2 | 6 | 6 1/2 | 7 | 7 1/2 | 8 | 8 1/2 | 9 | 9 1/2 | 10 | 10 1/2 | 11 | 11 1/2 | 12 | 12 1/2 | 13 | 13 1/2 | 14 | 14 1/2 | 15 | 15 1/2 | 16 |
|-------------|-----|-----|-----|-----|-----|-----|-----|---|------|---|------|---|------|---|------|---|------|---|------|---|------|---|------|---|------|---|------|---|------|---|------|---|------|---|------|---|
| WHEAT       | 18  | 23  | 29  | 37  | 48  | 61  | 72  | 86 | 105  | 126 | 153 | 187 | 216 | 265 |
| BARLEY      | 18  | 23  | 28  | 34  | 39  | 46  | 58  | 69 | 81   | 96  | 114 | 135 | 158 | 178 | 201 | 212 | 217 |
| OATS        | 12  | 15  | 19  | 24  | 23  | 32  | 39  | 45 | 56   | 75  | 89  | 107 | 134 | 176 | 193 |
| RYE         | 31  | 38  | 46  | 56  | 68  | 79  | 93  | 111| 133  | 156 | 187 | 226 |
| SOYBEANS    |     |     |     |     |     |     |     | 32 | 42   | 53  | 66  | 86  | 101 | 117 | 132 | 152 | 178 | 201 | 217 | 248 | 279 | 302 | 331 | 352 |
| BUCKWHEAT   | 29  | 38  | 49  | 60  | 70  | 90  | 109 | 129|
| SORGHUM OR VETCH | 6  | 9   | 12  | 17  | 24  | 31  | 40  | 51 | 62   | 72  | 89  |
| ALFALFA OR RAPE | 6  | 10  | 15  | 23  | 32  | 41  | 52  |
| MILLET      | 7   | 12  | 17  | 24  | 34  | 45  | 57  |
| FLAX OR SUDAN GRASS | 18 | 24  | 31  | 40  | 47  | 58  | 66  |
| FERTILIZER  | 1/4 | 3   | 5   | 8   | 11  | 16  | 22  | 32 | 43   | 55  | 70  | 84  | 99  | 122 | 140 | 166 | 193 | 222 | 247 | 270 | 289 | 304 | 320 | 335 | 355 | 362 | 375 | 379 | 385 |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| WHEAT       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|             | 9   | 15  | 20  | 27  | 35  | 44  | 55  | 67  | 78  | 88  | 105 | 121 | 140 | 152 | 175 |
| BARLEY      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|             | 15  | 20  | 25  | 32  | 39  | 44  | 52  | 63  | 73  | 82  | 93   | 107 | 123 | 137 |     |
| OATS        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|             | 6   | 8   | 11  | 14  | 18  | 22  | 27  | 34  | 41  | 49  | 57   | 67   | 84   | 93   | 100 |
| RYE         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|             | 11  | 15  | 21  | 28  | 35  | 44  | 55  | 64  | 74  | 86  | 100  | 115  | 130  | 145  | 165 |
| SOYBEANS    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|             | 12  | 14  | 18  | 25  | 32  | 40  | 48  | 54  | 67  | 81  | 90   | 102  | 120  | 128  | 151 |
| BUCKWHEAT   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|             | 11  | 15  | 20  | 27  | 34  | 43  | 52  | 61  | 71  | 84  | 97   |     |     |     |     |
| SORGHUM OR VETCH |     | 3   | 4   | 6   | 9   | 15  | 19  | 25  | 31  | 39  | 47   | 55   | 65   |     |     |
| ALFALFA OR RAPE | 1/8 | 2   | 6   | 9   | 13  | 18  | 25  | 34  | 41  |     |     |     |     |     |     |
| MILLET      |     | 4   | 6   | 11  | 15  | 21  | 28  | 37  | 46  |     |     |     |     |     |     |
| FLAX        |     | 4   | 5   | 7   | 12  | 17  | 21  | 27  | 34  | 43  | 51   |     |     |     |     |
| ORCHARD GRASS | 1/8 |     |     |     |     |     |     |     |     | 1   | 2    | 3    | 4    | 5    | 6    |
| FESCUE      |     |     |     |     |     |     |     |     |     | 2   | 3    | 4    | 6    | 8    | 10   |
| SWITCH GRASS | 1/8 |     |     |     |     |     |     |     |     | 3   | 4    | 6    | 8    | 10   | 13   |
| SUNFLOWER (#3 6500/LB.) | 1/8 |     |     |     |     |     |     |     |     | 2   | 3    | 4    | 6    | 8    | 10   |
| FERTILIZER  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 18-46-0     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
### Spacing 7 Inch

**CHART FOR DRILLING GRAIN IN POUNDS PER ACRE**

**POINTER SETTING**

<table>
<thead>
<tr>
<th>WHEEL SPACE</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAHIA GRASS</td>
<td>1/8</td>
<td>2.5</td>
<td>5.5</td>
<td>10.3</td>
<td>16.1</td>
<td>24.6</td>
<td>34.2</td>
<td>44.5</td>
<td>53.7</td>
<td>63.9</td>
<td>77.7</td>
<td>89.9</td>
<td>102.0</td>
<td>115.0</td>
</tr>
<tr>
<td>BUFFALO GRASS*</td>
<td>1/8</td>
<td>2.5</td>
<td>3.8</td>
<td>5.3</td>
<td>6.7</td>
<td>8.6</td>
<td>10.9</td>
<td>13.9</td>
<td>16.0</td>
<td>18.8</td>
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<td>26.1</td>
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<td>FESCUE</td>
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<td>GREEN</td>
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*FEED COVER OFF*

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**CHART FOR DRILLING GRAIN IN POUNDS PER ACRE**

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*FEED COVER OFF*
### Chart for Drilling Grain in Pounds per Acre

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### Chart for Drilling Grain in Pounds per Acre

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*DOUBLE AGITATOR MAY BE REQUIRED FOR EXTREMELY TRASHY SAMPLES*

### Spacing 10 Inch

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*DOUBLE AGITATOR MAY BE REQUIRED FOR EXTREMELY TRASHY SAMPLES*
# Chart for Drilling Legumes and Small Grasses

## In Pounds per Acre

**Legume Box Attachment for 107 Drill on 7” Spacing**

<table>
<thead>
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<th>Seed Mixtures</th>
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## Seed Mixtures

Select the setting for the desired quantity of each seed. Add individual settings. Example:

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</tbody>
</table>

When using half speed drive divide charted rates by two. Replace 17 tooth sprocket on countershaft with 35 tooth. (See manual for details.)

Density of the samples used to prepare this chart are given in the first column to the right of the crop name in pounds per bushel.
# Chart for Drilling Legumes and Small Grasses in Pounds per Acre

**Legume Box Attachment for 1000 Drill on 10” Spacing**

## Seed Mixtures

Select the setting for the desired quantity of each seed.

Add individual settings.

**Example:**

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<th>3</th>
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<td>18.1</td>
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<tr>
<td>Lovegrass</td>
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<td>7.9</td>
<td>11.4</td>
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<td>32.7</td>
<td>35.9</td>
<td>38.6</td>
<td>40.6</td>
</tr>
</tbody>
</table>

**Notches on Index**

**LBS BU**

1. Timothy: 50 1.2 2.8 4.3 6.7 9.1 11.8 14.6 17.3 19.7 22.9 26.0 28.4 31.1 32.7 34.7 38.2
2. Switchgrass: 55 1.6 3.2 4.7 6.7 8.7 11.0 13.0 14.6 16.9 19.7 21.7 23.6 26.0 28.0 29.6 33.5
3. Flax Sesame: 55 1.0 2.6 4.3 6.1 8.1 10.3 12.3 14.4 16.2 18.6 20.7 22.7 24.9 26.5 28.4 31.2
4. Rape Mustard: 53 1.2 2.9 5.2 7.1 9.0 11.5 13.4 15.8 17.9 19.8 22.3 24.4 26.4 28.4 30.3 32.2
5. Orchard Grass: 17 0.6 1.2 2.0 2.4 2.8 3.5 3.9 4.7 5.1 5.9 6.3 7.1 7.5 7.9 8.3
6. Perennial Ryegrass: 31 1.6 2.4 3.9 5.1 6.3 7.5 8.3 9.5 10.6 11.8 13.0 14.6 15.4 16.2 17.3
7. Fescue: 27 0.8 2.0 2.8 3.9 4.7 5.9 6.7 7.9 8.7 9.5 10.6 11.8 12.6 13.4 15.4
8. Common Bermuda Grass: 1.9 3.5 5.2 7.4 10.0 12.3 14.6 17.6

**When using half speed drive divide charted rates by two. Replace 17 tooth sprocket on countershaft with 35 tooth. (See manual for details.)**

Density of the samples used to prepare this chart are given in the first column to the right of the crop name in pounds per bushel.
4.11 Drilling with the Grain Drill

If the grain drill was transported using the optional end hitch, the rear wheels will need to be rotated as follows:

1. Use the hydraulic system to lower the openers onto solid soil or use a jack to raise the drill frame and remove the weight from the rear wheels.
2. Remove the bolts from each wheel.
3. Rotate the wheels 90° and insert bolts.

NOTE: Step 4 covers alignment of the wheels. Once this adjustment is set, it should not normally be necessary to readjust it. Alignment of the wheels in the working position is less critical than in the transport position because of the softer surfaces and slower speeds.

4. Using a tape measure, align the wheels so that they are parallel with each other and the frame as shown below. Adjust and secure the stop bolt #2.
5. Tighten the bolts.

6. Remove the jack, if used.

7. After the tractor is hitched to the front hitch, move the drill ahead slowly until the front swivel wheels are properly positioned.

At this point the grain drill should be properly set up and adjusted according to the instructions in the preceding sections.

Load the tanks with seed and/or fertilizer. Rotate the drive wheel by hand to make sure that the feed wheel shafts are free to turn. This is particularly important if the drill was transported with fertilizer and seed in the hoppers.

Start the tractor, retract the cylinder completely, and begin drilling.

Periodically check for proper seed depth and feed rate.

When the seeding operation is finished, park the drill over a sheet of plastic, canvas, etc. Pull one of the cleanout side control levers out to empty the remaining seed or fertilizer. Collect the seed or fertilizer. Repeat the procedure for the other hopper.
4.12 Suggestions

When preparing to sow damp fertilizer that has been sitting in the tank for several hours, stir the fertilizer all the way to the bottom to break up any blocks of fertilizer which have become cemented together.

The amount of fertilizer sown will vary with the moisture content and quality of the fertilizer.

4.13 Rear Wheel Swivel And Adjustment

Both rear wheels are designed to swivel 90° for the purpose of transporting drills endways. Adjusting bolts are provided for aligning wheels in transport position as well as in forward position. Transport position is most critical for tire wear due to hard surface roads and faster speeds.

![CAUTION:](image)

Transporting drills with seed and fertilizer in the tanks is not recommended. If drills are moved any distance with seed or fertilizer in tanks, either in transport or field position, materials will settle around feed wheels. Before starting to seed, operator should check with a wrench on drive end of feed wheel shaft to make sure they are free to turn. Shaft may be turned either clockwise or counterclockwise with openers in raised position.

![WARNING:](image)

Maximum transport speed should never exceed 20 M.P.H., and should be less where conditions demand.

4.14 Transporting The Grain Drill

The rear wheels swivel 90° to transport the drill endways with the optional end hitch. These wheels must be carefully aligned before transporting the drill because of the hard surfaces.

To rotate the rear wheels:

1. Use the hydraulic system to lower the openers onto solid soil or use a jack to raise the drill frame and remove the weight from the rear wheels.
2. Remove the lock bolts from each wheel.
3. Rotate the wheels 90° and insert the lock bolts.

![NOTE:](image)

Step 4 covers alignment of the wheels. Once this adjustment is set, it should not normally be necessary to readjust it.
4. Using a string, align the wheels as shown. Adjust and secure the stop bolts.

5. Tighten the lock bolts.

6. Raise the openers or remove the jack. Secure the torque bar in the transport position with the safety stop bar.

7. After the tractor is hitched to the end hitch, move the drill ahead slowly until the front swivel wheels are properly positioned.
4.15 Preparing For Storage

To prepare the 107 Drill for storage, perform the following steps:

1. Install safety stop bar to keep planting units off the ground and to minimize rusting. Before drill is stored, clean out slides should be opened to remove as much seed and fertilizer as possible. Both tanks should be flushed out thoroughly to prevent any caking of seed or fertilizer. Open and close slides while flushing to allow any fertilizer that might be under the calibration slide to work its way free. Fertilizer can be damaging if left in contact with metal parts for a prolonged period.

2. Clean all mud, dirt, grease and other foreign material from the exterior of the machine. Wash the complete machine. Repaint places where bare metal is exposed - this will inhibit rusting.

3. After inside of the tank is thoroughly dry, apply a coat of oil or diesel fuel to calibration slide, bearings and other parts that have been in contact with fertilizer or seed.

4. Remove the chains and wash them in solvent. Using a clean cloth, wipe off the chains. Soak the chains in engine oil. Drain off the excess oil and install the chains on the grain drill.

5. Coat all chains and exposed hydraulic cylinder rod with a Valvoline Tectyl 506 oil or equivalent.

6. Lubricate machine thoroughly according to the lubrication instructions.

7. Drain water from ballast tanks, if installed.

8. If possible, store the machine in a dry, protected place. If it is necessary to store the machine outside, cover it with plastic, waterproof canvas, or other suitable protective material.

9. Check the machine for any worn or broken parts. By ordering parts now, you will avoid delays when it is time to remove the machine from storage. When ordering parts always specify machine serial number and the part number of the replacement part. Part numbers can be found in the Parts List Manual.

4.16 Removing From Storage

To remove the 107 Drill from storage, perform the following steps:

1. Remove all protective coverings.
Section 5: Lubrication

All 107 Grain Drills are completely serviced at the factory before shipping. However, the operator should make a check of all grease fittings on the unit before beginning to operate it so as to become familiar with their location and the correct service schedule.

Use only a high quality, multi-purpose grease when lubricating the unit. Make sure all fittings and the nozzle of the grease applicator are clean before applying the grease. If any grease fittings are missing, replace them immediately.

Lubricating of all pillow block and flange-type self-aligning ball or roller bearings should be done slowly to help prevent bearing seal damage. Use caution when using a high pressure, high volume gun.

<table>
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<tr>
<th>Description</th>
<th>Type</th>
<th>Frequency</th>
<th>No. Zerks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Swivel Wheel Pivot</td>
<td>Grease</td>
<td>20 Hrs.</td>
<td>2</td>
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<td>2. Torque Tube Bushings</td>
<td>Grease</td>
<td>40 Hrs.</td>
<td>2</td>
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<td>3. Universal Joints</td>
<td>Grease</td>
<td>40 Hrs.</td>
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<td>4. Square Drive Line</td>
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<td>5. Feed Wheel Shaft</td>
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<td>100 Hrs.</td>
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<tr>
<td>6. Roller Chains</td>
<td>Oil</td>
<td>Daily In Dusty Conditions</td>
<td>2</td>
</tr>
<tr>
<td>7. Tool Bar Bushing</td>
<td>Grease</td>
<td>20 Hrs.</td>
<td>2</td>
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<tr>
<td>8. Lift Arm Bushing</td>
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<td>20 Hrs.</td>
<td>2</td>
</tr>
<tr>
<td>9. Lift Arm</td>
<td>Grease</td>
<td>20 Hrs.</td>
<td>2</td>
</tr>
<tr>
<td>10. Drive Wheel Frame</td>
<td>Grease</td>
<td>20 Hrs.</td>
<td>2</td>
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<tr>
<td>11. Packer Wheel Bearings and Coulter-Disk Bearings are Non-Relubable.</td>
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swivel wheel pivot
lubrication zerk
torque tube bushings
lubrication points

universal joints and
square drive line
lubrication zerks

feed wheel shaft
lubrication zerk
tool bar bushing lubrication zerk

lift arm bushing lubrication zerk

drive wheel frame lubrication zerk

roller chains lubrication
APPENDIX A: WARRANTY

Duratech Industries International, warrants to the original purchaser for one year from purchase date that this product will be free from defects in material and workmanship when used as intended and under normal maintenance and operating conditions. This warranty is limited to the replacement of any defective part or parts returned to our factory in Jamestown, N.D., within thirty (30) days of failure.

This warranty shall become void if in Duratech Industries International’s judgment the machine has been subject to misuse, negligence, alterations, damaged by accident or lack of required normal maintenance, or if the product has been used for a purpose for which it was not designed.

All claims for warranty must be made through the dealer which originally sold the product and all warranty adjustments must be made through same.

This warranty does not apply to tires or bearings or any other trade accessories not manufactured by Duratech Industries International. Buyer must rely solely on the existing warranty, if any, of these respective manufacturers.

Duratech Industries International shall not be held liable for damages of any kind, direct, contingent, or consequential to property under this warranty. Duratech Industries International cannot be held liable for any damages resulting from causes beyond its control. Duratech Industries International shall not be held liable under this warranty for rental costs or any expense or loss for labor or supplies.

Duratech Industries International reserves the right to make changes in materials and/or designs of this product at any time without notice.

This warranty is void if Duratech Industries International does not receive a valid warranty registration card at its office in Jamestown, N.D., within 10 days from date of original purchase.

All other warranties made with respect to this product, either expressed or implied, are hereby disclaimed by Duratech Industries International.
# APPENDIX B: SPECIFICATIONS

## General Specifications:

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<th>7&quot; SPACING</th>
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<td>Optional - Twin Rib 4x12</td>
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## Optional Equipment:

- 1-2-3-4 Drill Hitch and Components
- Acre Counter
- Hitch Winch
- Ballast Tanks
- End Hitch
- Stabilizer - Front and Rear
- Legume Box
- Native Grass Kit
- Native Grass Kit
- Gauge Wheels
- False Bottom
Part 2:
Parts Reference
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## RUN ASSEMBLY

### SERIAL NO. 553 TO NO. 2672

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### NOT SHOWN

- 8400461 TUBE\SEED\BOOT\RUN
- 4900034 NUT\JAM\1-1/4\NC
RUN ASSEMBLY

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The Following Parts are Used on Seedling Runs Only

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- 7400223  SPCR\WHL\CAL\1/4\1068
- 7400224  SPCR\WHL\CAL\10GA\1068
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### 107 Series Drill Heavy Bearings

#### SERIAL NO. 2672 TO 3821

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### PRESS WHEEL ASSEMBLY

#### SERIAL NO. 101 & UP

---

#### Dual V

8400353

Dual Press Wheel w/Frame

---

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<td>4900009</td>
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### Press Wheel Assembly

**8400594**
Complete Press Wheel With Water Pump By Groove

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Limited had PN 7500076 on this frame.

---

**8400591**

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<td>1/4&quot; Hex Nut</td>
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Limited had PN 7500076 on this frame.
### Press Wheel Assembly

**PART NO.** | **QTY.** | **DESCRIPTION**
---|---|---
8400617 | 1 | Press Wheel Assembly
2000061 | 2 | Brg/3/4/FHR204-12
7500653 | 1 | Spcr/Wheel/Packer/107
8400616 | 1 | Whl/Stl; Packer/107
7400264 | 2 | Packer Wheel Cap - No Pilot
4800063 | 1 | Bolt\Hex\3/4 x 4
4900139 | 1 | Nut\Toplock\3/4

**Press Wheel Assembly**

To retrofit drill with serial no. 1550 & up

Order part 8400617 & 4800063

---

**ITEM** | **PART NO.** | **QTY.** | **DESCRIPTION**
---|---|---|---
1 | 8400105 | 1 | Packer Wheel, Steel Round - *Not Available Order 8400616*
2 | 5000010 | 1 | Spacer Washer, 1-5/8" x 3/4" x .090
3 | 2000705 | 4 | 3-Hole Flangettes
4 | 2000020 | 2 | Bearing, 3/4"
5 | 7400044 | 2 | Bearing Shield 5/8" I.D.
6 | 7400264 | 2 | Bearing Shield 25/32" I.D.
7 | 4800071 | 3 | Bolt, 5/16" x 1-1/4", Gr. 5
8 | 4900017 | 3 | Hex Nut, 5/16"
9 | 7500066 | 1 | Packer Wheel (Complete) - *Not Available Order 8400617*
8400745 | 1 | Bush\Whl\Prss\3/4ODX16GA

---

**Steel Press Wheel W/Frame**

Complete

---

8400355

Press Wheel w/Frame

Complete

---

100

**107 DRILL PARTS REFERENCE**
NOTE: For drill with disc type banding openers, mount stabilizer in front of banding tool bar. See illustration.

### FRONT STABILIZER

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NOTE: A
- Space tool bars 3" apart for 7" spacing.
- Space tool bars 10" apart for paired row 6-14 spacing.
- Mount double clamps as far apart as possible.
- Space tool bars 6" apart for 10" spacing.
## REAR STABILIZER

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TOW HITCH

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- 1100221  CHAIN\3/8\GR43\5FT\W/HOOKS&KEEPERS
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**Diagram:**

The diagram shows the assembly of the drill hitch, with various parts labeled from 1 to 22. The diagram includes a hitch, hose clamps, bolts, washers, and other hardware components used in the assembly. Each part is numbered, and the diagram illustrates how these parts are interconnected to form the hitch assembly.
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NOT SHOWN
4100045 3x8 Seal Kit - Hyd Cyl.

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4100045 3x8 Seal Kit - Hyd Cyl.
### 100 Series
Three Drill Depth
Control Hydraulics

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**NOT SHOWN**

4100045  3x8 Seal Kit - Hyd Cyl.

100 Series
Four Drill Depth
Control Hydraulics
## DECALS

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### LEGUME BOX DECAL

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**WARNING**
Disc blades are extremely sharp!
Wear heavy gloves when servicing.

**ADVERTENCIA**
Las cuchillas de disco están extremadamente afiladas.
Al prestar servicio, use guantes gruesos.
DECALS

DECAL LOCATION (See page 113 for descriptions)
DECAL LOCATION (See page 113 for descriptions)
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**NOT SHOWN**

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Installation:

1. Turn acre counter into threaded hole in end of acre counter shaft (see Illustration).
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8400385  | BOTTOM\FALSE\COMPLETE\107
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8400636 ATTACH\INTV-GRASS\ASSY\107\7"\FACTORY_INSTALLED
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- Did you find any errors?
- Is the information clearly presented?
- Does the manual give you all the information you need to operate the equipment safely and effectively?
- Are the diagrams and illustrations correct?
- Do you need more illustrations?
- What features do you like most about the manual? What features do you like least?

If you find errors or have specific suggestions, please note the topic, chapter and page number.

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P.O. Box 1940
Jamestown, ND 58402-1940
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