Patriot 245C Seed Tender™
 Owners Manual

Manufactured by
Minden Machine Shop Inc.
1302 K Road
Minden NE 68959
1-800 264-6587

<table>
<thead>
<tr>
<th>Seed Tender</th>
<th>Trailer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serial # ______________</td>
<td>Serial # ______________</td>
</tr>
<tr>
<td>Date of Purchase ______________</td>
<td>Date of Purchase ______________</td>
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</tbody>
</table>
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SAFETY AND OPERATION RULES

GENERAL SAFETY STATEMENTS

Safety precautions are essential when the use of any mechanical equipment is involved. These precautions are necessary when using, storing, and servicing mechanical equipment. Using this equipment with the respect and caution demanded will considerably lessen the possibilities of personal injury. If safety precautions are overlooked or ignored, personal injury or property damage may occur.

This unit was designed for specific applications. It should not be modified or/and used for any application other than which it was designed. If there are any questions regarding its application, write or call. Do not use this unit until you have been advised. For more information, call 1-800-264-6587.

Read this entire manual carefully - know your equipment. Consider the application, limitations, and the potential hazards specific to your unit. Occupational safety is of prime concern to us. This manual was written with the safety of the operator and others who come in contact with the equipment as our primary concern. The manual presents some of the day-to-day work problems encountered by the operator and other personnel. We wrote this manual to help you understand safe operating procedures for Patriot Seed Tenders. We want you as our partner in safety. A copy of this manual should be available to all persons who may operate this machine.

It is your responsibility as an owner or operator or supervisor, to know what specific requirements, precautions and work hazards exist and to make these known to all other personnel working with the equipment or in the area, so that they too may take any necessary safety precautions that may be required. Avoid any alterations of the equipment. Such alterations may create a dangerous situation where serious injury or death may occur.

Why is SAFETY important to you?

3 BIG REASONS

<p>| | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>1</td>
<td>Accidents disable and kill</td>
</tr>
<tr>
<td>2</td>
<td>Accidents cost money</td>
</tr>
<tr>
<td>3</td>
<td>Accidents can be avoided</td>
</tr>
</tbody>
</table>

Signal Words

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

DANGER – An immediate and specific hazard, which will result in severe personal injury or death if proper precautions are not taken.

WARNING – A specific hazard or unsafe practice, which could result in severe personal injury or death if proper precautions are not taken.

CAUTION – Unsafe practices which could result in personal injury if proper precautions are not taken, or a reminder of good safety practices.
SAFETY ALERT SYMBOL

BE ALERT! YOUR SAFETY IS INVOLVED

The Symbol Shown Above Is Used To Call Your Attention To Instructions Concerning Your Personal Safety. Watch This Symbol - It Points Out Important Safety Precautions. It Means ATTENTION! Become Alert! Your Personal Safety Is Involved! Read The Message That Follows And Be Alert To The Possibility Of Personal Injury Or Death.

Anyone who will operate or work around a Patriot Seed Tender shall first read this manual! This manual must be delivered with the equipment to its owner. Failure to read this manual and its safety instructions is a misuse of equipment.

SAFETY EQUIPMENT
Please, remember safety equipment provides important protection for persons around a conveyor that is in operation. Be sure ALL safety shields and protective devices are installed and properly maintained. If you find any shields or guards damaged or missing, contact Minden Machine Shop Inc. for the correct items.

SERIAL NUMBER
To ensure efficient and prompt service, please furnish us with the model and serial number of your Patriot Seed Tender in all correspondence or other contact. The Serial Number is located inside the front leg above the battery box.

SAFETY PROCEDURES

1. Use only lifting equipment with the proper capacity when loading or lifting bulk bags or lifting the Patriot Seed Tender. Forklifts with too little capacity may tip towards the front where the lifted weight is.
2. Do not use makeshift systems to handle seed or equipment as you may create an unsafe condition.
3. Do not attempt to raise the Patriot Seed Tender unit by hoist or forklift when it is loaded with product.
4. When the Patriot Seed Tender is mounted in pickup box it must be secured by bolting to bed or chained into all 4 corners. Carrying it loose could cause an accident.
5. Do not unhook your Patriot Seed Tender Trailer while it is full. Any incline or additional weight placed on the back could tip it over backwards.
6. When bulk bag is placed over the Patriot Seed Tender a danger exists when pulling open the pull cord. Hydraulics could fail or operator could make an error causing your arm to be pinned. Do not place a hand or arm into such a position. Extend the pull chord by tying a rope addition or string to lengthen it; this will allow you to pull the string without placing your arm or hand in danger.
7. Do not operate unit without safety shields or guards in place.
8. Do not allow any riders on the Patriot Seed Tender.
9. Do not enter the hoppers when it has product in it as suffocation could result. Do not enter the Patriot Seed Tender when motor is on as the conveyor could seriously injure.
10. Do not place flammable objects close to the engine. This could cause a fire.
11. Never run the engine in an enclosed area. As the exhaust is poisonous.
12. Avoid contact with the muffler. It becomes very hot during operation and remains hot for some time after the engine is turned off.
13. Refuel in a well-vented area with the engine turned off. Do not smoke or allow flames close to the refueling area.
14. Do not overfill the gas tank and make sure the cap is properly closed.
15. In case of any defect or awareness of potential danger, please contact the plant at 1-800-264-6587 immediately.

LIGHTING AND MARKING

It is the responsibility of the customer to know the lighting and marking requirements of the local highway authorities and to install and maintain the equipment to provide compliance with the regulations. Add extra lights when transporting at night or during periods of limited visibility.

OPERATOR QUALIFICATIONS

Operation of this Seed Tender shall be limited to competent and experienced persons. In addition anyone who will operate or work around a Seed Tender must use good common sense. In order to be qualified, they must also know and meet all other requirements, such as:

1. Some regulations specify that no one under the age of 18 may operate power machinery. This includes Seed Tenders. It is your responsibility to know what these regulations are in your own area or situation.
2. Current OSHA regulations state in part: “At the time of initial assignment and at least annually thereafter, the employer shall instruct every employee or user in the safe operation and servicing of all equipment with which the employee or user is, or will be involved.”
3. Unqualified persons are to stay out of the work area as shown in the work diagrams.
4. A person who has not read and understood all operating and safety instruction is not qualified to operate the machine.

SAFETY OVERVIEW

YOU are responsible for SAFE operation and maintenance of your Patriot Seed Tender.

YOU must ensure that you and anyone who is going to operate, maintain, or work around the seed tender must be familiar with the operating, maintenance, and safety information contained in the manual. This manual will take you step by step through your working day and alerts you to all good safety practices while operating the tender.
Remember YOU are the key to safety. GOOD PRACTICES protect not only you but also the people around you. Make these practices a working part of your safety program. Be certain EVERYONE operating this machine is familiar with the procedures recommended and follows safety precautions. Remember, most accidents can be prevented. Do not risk injury or death by ignoring any information addressed.

Tender owners must give operating instructions to operators before allowing them to operate the tender. They must be reviewed at least annually thereafter per OSHA regulation 1928.57.

The most important safety device on the equipment is a SAFE OPERATOR. It is the operator’s responsibility to read and understand ALL instructions in the manual and to follow them. All accidents can be avoided!

Any person who has not read and understood all operation and safety instructions is not qualified to operate the seed tender. An untrained operator exposes himself and bystanders to possible serious injury or death.

Do not modify the equipment in any way. Unauthorized modifications may impair the functions and/or safety and could affect the life of the equipment.

SAFETY AFFIRMATION

I have read and understand the operator’s manual and all safety signs before operation, maintenance, adjusting or unplugging the tender.

I will allow only trained persons to operate the Patriot Seed Tender. *An untrained operator is not qualified to operate this equipment.

I have access to a fire extinguisher.

I have all guards in place and will not operate the Patriot Seed Tender without them.

I will not allow riders on the Patriot Seed Tender.

I understand the danger of moving parts (PTO, auger flighting, conveyor belts, and pinch points) and will stop engine before servicing.

I recognize the danger of the conveyor coming in contact with power lines.

I will unload the rear compartment first on two-compartment Patriot Seed Tenders.

I am aware of the need to secure the Patriot Seed Tender to its base, (truck box or trailer floor).

I understand the danger of working with bulk bags as they are placed over the Patriot Seed Tender.

I understand that any accidents that occur with the Patriot Seed Tender are my responsibilities.
I understand that Minden Machine Shop will not be held responsible of any accidents that involve the Patriot Seed Tender.

**SIGN OFF SHEET (this must be signed annually as part of your safety program)**

As a requirement of OSHA it is necessary for the employer to train the employee in the safe operation and safety procedures with this Seed Tender. We include this sign off sheet for your convenience and personal record keeping.

<table>
<thead>
<tr>
<th>DATE</th>
<th>EMPLOYER SIGNATURE</th>
<th>EMPLOYEE SIGNATURE</th>
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</table>

⚠️ Warning: Inspect the seed tender for before operation. Failure to do so could result in severe injury or death.

**MACHINE INSPECTION**

After delivery of your new Seed Tender and/or completion of assembly, before each use, inspection of the machine is mandatory. This inspection should include, but not be limited to:

1. Check to see that all guards are in place, secured and functional.
2. Are all fasteners tight?
3. Check oil levels in the Engine, clutch and conveyor gearbox. (See Owners Manuals.)

**SAFETY DECALS**

1. Keep safety decals clear and legible at all times.
2. Replace decals and signs that are missing or have become unreadable.
3. Safety signs are available from your Dealer or the Manufacture.

**How to install Safety Signs**

1. Be sure that the installation area is clean and dry.
2. Decide on the exact position before you remove the backing paper.
3. Align the decal over the specified area and carefully press the small portion with the exposed sticky backing in place.
4. Slowly peel back the remaining paper and carefully smooth the remaining portion of the decal in place.
5. Small air pockets can be pierced with a pin and smoothed out using a piece of decal backing paper.
INTRODUCTION

Model: 245C Seed Tender

Purpose:
The Patriot Seed Tender serves as a bulk transfer system for seed and other dry flowable products. It allows the user to move his product from point A to point B via the Patriot Seed Tender on a trailer. This process accelerates delivery and handling time. For example: a mini bulk bag weighing from 1000 to 3000 lbs, can be emptied into the Patriot Seed Tender in seconds, the equivalent when transferred in 50 lb bags. Bags would take 20 minutes. The Patriot Seed Tender also allows you to draw seed directly from bins.

The Patriot Seed Tender, full of seed for example, is transferred to the field/site where the drill/planter is located. The user parks beside the planter/drill and moves the telescopic movable spout about the target. The tender uses a conveyor powered by a gas motor with a clutch system. The conveyor is activated by the switch/or remote control located at the end of the telescopic spout or near the motor depending on what your application is.

Features:
1. Hopper – Designed for flow-ability in cone and proper angle of repose on top. All Patriot Seed Tenders are sized to compliment bulk bags or other measuring used in bulk handling.
2. Ground Controlled Lid – This unique design protects the seed from moisture and is easily opened and closed from the ground.
3. Transfer conveyor – The conveyor delivers up to 16 Bushels per minute and is very gentle on seed and allows up to 162 degrees of rotation to assist in reaching a planter.
4. Ladders – Allows the user to look into the hopper and access seed boxes or seed bags.
5. Site glass – Allows you to monitor the product level within the tanks from eye level.
6. Telescopic spout – The 3-tier model allows extension of nearly 17 ft reach, with 15 ft lateral reach.
7. Wireless Remote Control – The remote control puts you in charge of the variable speed actuator for infinitely variable electronic speed throttle control. It controls flow and stops and activates the flow without motor shutdown. Remote control also controls lifting and lowering the conveyor with the standard hydraulic lift.
8. Shut off gate – The feature allows you to choose which hopper you want to empty and handle different varieties of seed on the same load.
9. Electric Start - Start the standard 5.5 HP Honda motor from the remote control.
10. V-Belt Drive - Quite operating, smooth drive from the V-belt drive.
11. Hydraulic Conveyor Lift - Lift and lower the conveyor using hydraulics; all controlled from the remote control.

Thank you for choosing the Patriot Seed Tender delivery system. This manual covers the operation and maintenance of the Patriot Seed Tender. All information in this manual is based on the latest production information available at the time of printing. For the latest version of this catalog please call 1-800-264-6587.

Minden Machine Shop Inc. reserves the right to make changes at any time without notice and without incurring any obligation.
Please become familiar with all safety, operating, maintenance and troubleshooting information. This will ensure your safety and long life for the system.
MINDEN MACHINE SHOP INC
LIMITED WARRANTY

Minden Machine Shop Inc warrants all products manufactured by it to be free of defect in material and workmanship for a period of one (1) year from the date of purchase.

This Minden Machine Shop Inc. warranty does not cover:
1. Parts and accessories supplied by Minden Machine Shop Inc. but manufactured by others. Minden Machine Shop Inc. will facilitate the other manufacturer warranty for the benefit of the purchaser but will not be bound thereby (example: augers, conveyors, motors, trailers, inoculation tanks, etc.).
2. Products that have been altered by anyone other than a Minden Machine Shop Inc. employee or are used by the purchaser, for purposes other than what was intended at time of manufacture or used in excess of the “built specifications”.
3. Products that are custom manufactured by Minden Machine Shop Inc. utilizing the purchaser’s design which deviates from Minden Machine Shop Inc. normal production line manufactured or customized features of the products.
4. Malfunctions or damages to the product from misuse, negligence, customer alteration, accidents or product abuse due to incoming material or poor material flow ability or lack of required performance or required maintenance (e.g., poor material flow ability caused by incoming wet fertilizer or hot soybean meal, etc).
5. Loss of time, inconvenience, loss of material, down time or any other consequential damage.
6. Product use for a function that is different than designed intent (e.g., storing soybean meal in grain bin, unacceptable material in the bin such as hot bean meal when product originally designed for other application, etc).

To activate this warranty, the purchaser must make contact in writing with Minden Machine Shop Inc. within one (1) year of date of purchase. After contact, Minden Machine Shop Inc. has the right to determine the cause and qualify the legitimacy of the claim. Minden Machine Shop Inc., upon acceptance of a warranty claim, shall have a reasonable time to plan any repair or replacement and may affect repair or replacement out of its factory or through contract with a local repair service. If a purchaser after warranty notice is made, chooses to make the repair itself, Minden Machine Shop Inc. must approve any expenses before they are incurred to be responsible for customer reimbursement. Minden Machine Shop Inc. shall be liable on a warranty claim for repair or replacement of any defective products and this is the purchaser’s sole and exclusive remedy. Minden Machine Shop Inc. will not be liable for any other or further remedy including claims for personal injury, property damage or consequential damage. The law of the State of Nebraska shall govern and any such claim and any issues with regard to the same shall be resolved in the Nebraska District Court for the county of Kearney.

RETURN OF MERCHANDISE
Merchandise may not be returned without written approval from the factory. All returns must have a return authorization number. Obtain this number before the return and show it on all return items. A 15% restocking charge is made on merchandise returned. Returned merchandise must be shipped pre-paid.

RECEIVING MERCHANDISE AND FILING CLAIMS
When receiving merchandise it is important to check both the number of parts and their description with packing slip. The consignee must make all claims for freight damage or shortage within 10 days from the date of delivery.

When the material leaves the factory it becomes the property of the consignee. It is the responsibility of the consignee to file a claim on any possible damage or loss. Please list your preferred routing on purchase orders.

MODIFICATIONS
It is the policy of Minden Machine Shop Inc. to improve its products whenever possible and practical to do so. We reserve the right to make changes, improvements and modifications at any time without incurring the obligation to make such changes, improvements and modifications on any equipment sold previously.

March 16 v1
# Decal Placement 245 C

## Decal List

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>42</td>
<td>1</td>
<td>W3_Pinch Point</td>
<td>4&quot; x 2&quot;</td>
</tr>
<tr>
<td>43</td>
<td>1</td>
<td>N4_Radio Info Sticker</td>
<td></td>
</tr>
<tr>
<td>44</td>
<td>2</td>
<td>C1_Safety Sticker</td>
<td>5&quot; x 1 1/2&quot; - Place by Ladder, on each end, at lid level</td>
</tr>
<tr>
<td>45</td>
<td>1</td>
<td>C2_Safety Sticker</td>
<td>6&quot; x 4 1/2&quot; (Place on body behind auger, offset, &quot;Caution&quot;)</td>
</tr>
<tr>
<td>46</td>
<td>1</td>
<td>D1_Safety Sticker</td>
<td>6&quot; x 3 1/2&quot; (Place behind auger, offset, Electrical Shock Sticker)</td>
</tr>
<tr>
<td>47</td>
<td>1</td>
<td>Serial Number Plate</td>
<td>4&quot; x 1 1/2&quot;</td>
</tr>
<tr>
<td>48</td>
<td>2</td>
<td>White Pin Stripes 220 ST</td>
<td></td>
</tr>
<tr>
<td>49</td>
<td>2</td>
<td>Patriot Logo White</td>
<td>5&quot; x 20&quot;</td>
</tr>
<tr>
<td>50</td>
<td>2</td>
<td>245 C Sticker</td>
<td>245 C Sticker</td>
</tr>
<tr>
<td>51</td>
<td>1</td>
<td>Quick Start Decal N6</td>
<td>Quick Start Decal N6</td>
</tr>
<tr>
<td>52</td>
<td>1</td>
<td>Pully Pinch Point</td>
<td>Pully Pinch Point</td>
</tr>
</tbody>
</table>

!![Diagram]

Item 47 Located on back of front left leg

Item 52 Located on drive belt shield
## 5.2, 6 & 7K Axle Assemblies

### 5,200, 6,000 AND 7,000 LB. COMPONENT PARTS

<table>
<thead>
<tr>
<th>#</th>
<th>Description</th>
<th>Diagram #</th>
<th>Part #</th>
<th>Description</th>
<th>Diagram #</th>
</tr>
</thead>
<tbody>
<tr>
<td>T</td>
<td>Brake flange, 5-hole</td>
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<td>14125A</td>
<td>Outer bearing, 1.25&quot; ID (8 bolt)</td>
<td>–</td>
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<tr>
<td>33VB</td>
<td>Grease seal, single lip, 2.25&quot;</td>
<td>2</td>
<td>4753</td>
<td>Spindle washer, 1&quot;</td>
<td>9</td>
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<tr>
<td>33TBN</td>
<td>Grease seal, double lip, 2.25&quot;</td>
<td>–</td>
<td>4754</td>
<td>Spindle nut, 1&quot; – 14</td>
<td>10</td>
</tr>
<tr>
<td>80</td>
<td>Inner bearing, 1.75&quot; ID</td>
<td>3</td>
<td>4755</td>
<td>Cotter pin, 3/8&quot; x 2&quot;</td>
<td>11</td>
</tr>
<tr>
<td>20</td>
<td>Inner race, 3.625&quot; OD</td>
<td>4</td>
<td>21-1</td>
<td>Grease cap, 2.44&quot; OD (8 bolt)</td>
<td>12</td>
</tr>
<tr>
<td>Φ-25-Z</td>
<td>Wheel stud, 3/8&quot; – 20 x 2.5&quot;</td>
<td>5</td>
<td>1605</td>
<td>Grease cap, 2.717&quot; OD (6 bolt)</td>
<td>–</td>
</tr>
<tr>
<td>Φ-Z</td>
<td>Wheel stud, 3/8&quot; – 20 x 1.825&quot;</td>
<td>6</td>
<td>4756</td>
<td>Cone wheel nut, 3/8&quot; – 20 x 60&quot;</td>
<td>13</td>
</tr>
<tr>
<td>45</td>
<td>Outer race, 2.441&quot; OD (6 bolt)</td>
<td>7</td>
<td>21-1-AL*</td>
<td>Grease cap, Accu-Lube 2.44&quot; OD</td>
<td>14</td>
</tr>
<tr>
<td>76</td>
<td>Outer race, 2.717&quot; OD (8 bolt)</td>
<td>–</td>
<td>1605-AL*</td>
<td>Grease cap, Accu-Lube 2.717&quot; OD</td>
<td>–</td>
</tr>
<tr>
<td>23</td>
<td>Outer bearing, 1.25&quot; ID (8 bolt)</td>
<td>8</td>
<td>RP-100*</td>
<td>Rubber plug, Accu-Lube cap</td>
<td>15</td>
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* for Accu-Lube spindles

### 5,200, 6,000 AND 7,000 LB. HUBS/DRUMS

<table>
<thead>
<tr>
<th>Caliper #</th>
<th>Part #</th>
<th>Hub, Cupped &amp; Studded Part #</th>
<th>Description</th>
<th>Bolt Pattern</th>
<th>Complete Hub Part #</th>
<th>Hub, Cupped &amp; Studded Part #</th>
<th>Description</th>
<th>Bolt Pattern</th>
</tr>
</thead>
<tbody>
<tr>
<td>55</td>
<td>82655-1</td>
<td></td>
<td>Idler hub</td>
<td>6 on 5/8&quot;</td>
<td>92865A</td>
<td>92865A-1</td>
<td>Brake drum</td>
<td>8 on 6/8&quot;</td>
</tr>
<tr>
<td>60</td>
<td>82660-1</td>
<td></td>
<td>Idler hub</td>
<td>6 on 6&quot;</td>
<td>92865A-0B</td>
<td>92865A-0B</td>
<td>Brake drum</td>
<td>8 on 6/8&quot;</td>
</tr>
<tr>
<td>65A</td>
<td>82855A-1</td>
<td></td>
<td>Idler hub</td>
<td>8 on 6/8&quot;</td>
<td>9286T-0B</td>
<td>9286T-0B</td>
<td>Brake drum</td>
<td>8 on 6/8&quot;</td>
</tr>
<tr>
<td>55</td>
<td>92655-1</td>
<td></td>
<td>Brake drum</td>
<td>6 on 5/8&quot;</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

*Cupped & studed hubs include the hub, wheel studs and inner & outer races/cups. Complete hubs include the cupped and studed hub, inner & outer bearings, seal, lug nuts and dust cap/greas cap.
Add "AL" to complete assembly part numbers for Acculube components.

### 5,200, 6,000 AND 7,000 LB. BRAKES

<table>
<thead>
<tr>
<th>#</th>
<th>Description</th>
<th>Part #</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>4L</td>
<td>Electric, 12&quot; X 2½&quot;, left hand</td>
<td>44896</td>
<td>Hydraulic freebacking premier, 12&quot; X 2½&quot;, left hand</td>
</tr>
<tr>
<td>4R</td>
<td>Electric, 12&quot; X 2½&quot;, right hand</td>
<td>44895</td>
<td>Hydraulic freebacking premier, 12&quot; X 2½&quot;, right hand</td>
</tr>
<tr>
<td>1L</td>
<td>Hydraulic, 12&quot; X 2½&quot;, left hand</td>
<td>2/RCM-12</td>
<td>Hydraulic disc, 12&quot;, pair (8 bolt)</td>
</tr>
<tr>
<td>1R</td>
<td>Hydraulic, 12&quot; X 2½&quot;, right hand</td>
<td>2/RCM-12E</td>
<td>Hydraulic disc, 12&quot;, E-coat, pair (8 bolt)</td>
</tr>
<tr>
<td>29</td>
<td>Hydraulic freebacking, 12&quot; X 2½&quot;, left hand</td>
<td>2/RCM-12-SB</td>
<td>Hydraulic disc, 12&quot;, bronze, pair (8 bolt)</td>
</tr>
<tr>
<td>28</td>
<td>Hydraulic freebacking, 12&quot; X 2½&quot;, right hand</td>
<td>2/RCM-13</td>
<td>Hydraulic disc, 13&quot;, pair (8 bolt)</td>
</tr>
<tr>
<td>84</td>
<td>Hydraulic premier, 12&quot; X 2½&quot;, left hand</td>
<td>2/RCM-13E</td>
<td>Hydraulic disc, 13&quot;, E-coat, pair (8 bolt)</td>
</tr>
<tr>
<td>63</td>
<td>Hydraulic premier, 12&quot; X 2½&quot;, right hand</td>
<td>2/RCM-13E</td>
<td>Hydraulic disc, 13&quot;, E-coat, pair (8 bolt)</td>
</tr>
</tbody>
</table>

*For brake replacement parts see pages 5-4, C-13 thru C-14 and C-19.
It is not recommended to exceed axle capacity by spring capacity.*
Dimensions Chart
WARNING!!!!
THE OPERATOR SHOULD NOT ATTEMPT TO REPAIR ANY RADIO CONTROLLER. IF ANY PRODUCT PERFORMANCE OR SAFETY CONCERNS ARE OBSERVED, THE EQUIPMENT SHOULD IMMEDIATELY BE TAKEN OUT OF SERVICE. DAMAGED AND INOPERABLE RADIO CONTROLLER EQUIPMENT SHOULD BE RETURNED TO PATRIOT EQUIPMENT FOR EVALUATION AND REPAIR. FAILURE TO FOLLOW THIS WARNING COULD RESULT IN DAMAGE TO EQUIPMENT.

**WIRELESS REMOTE INSTRUCTIONS**

Each wireless remote system consists of a transmitter handset and receiver unit. Other standard-equipped accessories include transmitter waist belt, spare transmitter power key, clear vinyl pouch, “AA” alkaline batteries, compass direction decal sheet and user’s manual.
Overview:
The RE6 wireless control is designed to provide highly dependable, consistent wireless performance. Aside from battery replacement, the units are practically maintenance free and built with quality components for durability and reliability.

Mounting:
Mount the unit with the electrical plug pointing down in an area that offers as much protection as possible and away from direct sources of high heat, moisture, vibration, and electromagnetic energy. Proper mounting and placement will ensure the best and long lasting performance.

Wiring:
The wire harness is specific to the wireless controller. It has a 7.5 amp fuse incorporated into the power lead going to the receiver. DO NOT REPLACE WITH A HIGHER AMPERAGE FUSE – USE 7.5 AMP FUSE ONLY. The wire harness should be inspected regularly for any damage.

Operation:
Once the unit is powered up by turning on the toggle switch, you are ready to operate. On both the receiver and transmitter unit there is an L.E.D. indicator. On power up, the receiver unit will flash four times. This indicates that the unit is getting power, and that it is ready to operate. The RE6 unit has a line of sight range of 100' feet. Keep in mind that battery condition, receiver mounting location, and multiple obstructions can reduce the effective range.

Battery Replacement:
The battery (#CR2032) in the key fob remotes should be changed annually prior to each operational season. If the transmitter battery voltage has dropped below 2.85 volts, the battery should be replaced. If inconsistent performance or reduced range is observed, the remote battery should be changed. The battery can be changed by removing the small screw on the back of the unit and splitting the transmitter case. Once opened, slide the battery out of its holder, and replace. To prevent damage, do not use screwdrivers or other metal tools inside of the transmitter case. Upon reassembly, apply silicone around the keypad edge and make certain that it is properly seated in the sealing channel and the two case halves are mated correctly. This will prevent water ingress.

Troubleshooting:
The majority of trouble shooting issues can be traced back to a power supply (battery) deficiency.

1. replace the remote battery
2. check the main power source for 12.4V
3. check the power and ground wire connections
4. check the fuse in the power wire

If you still are experiencing difficulties, a troubleshooting sheet can be found on our website www.rowe-electronics.com

Additionally, feel free to contact our customer support center at 515-981-5504.

Rowe Electronics, Inc.
339 Hakes Drive
Norwalk, IA, 50211
515-981-5504

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Rowe Electronics, Inc.
339 Hakes Drive
Norwalk, IA, 50211
515-981-5504
Rowe Electronics and Patriot Equipment Seed Tenders

Pull Start Engines

The Rowe controller will not start a pull start engine from the key fob due to the pull start engine having no electric start installed.

Electric Start Engines

The electric start engines that Patriot Equipment uses on the seed tenders will also have a pull start for a backup in the event the electric start will not operate. Due to the electric start, the Rowe key fob can be used to start the engine.

To start the engine with the Rowe key fob, perform the following:
1. Rotate the key switch that is mounted to the engine to the "on" position.
2. Turn the leg switch (located on the leg of the seed tender) to the "on" position.
3. Choke the engine as needed.
4. Depress the electric start on/start button on the key fob
5. The engine should begin to turn over and start
6. The key fob can be used to speed up and slow down the engine
To turn the engine off:
1. Depress the electric start off button on the Rowe key fob (the motor should stop)
   Hold the button until the engine shuts down.
2. Locate the key switch on the engine and rotate the key switch to off

Scale Operation

The Rowe system integrates with the scale to enable the user to dispense a predetermined amount of seed. To enable the automated dispensing, the toggle switch located next to the scale needs to be placed in the "auto" position. The "manual" position is for non-automated operation of the seed tender. Please refer to scale manual on the procedure to program the amount of weight of seed to dispense. Once programmed, the Rowe system will slow the engine down (stopping seed dispensing) when the predetermined amount of seed has been dispensed.
Remove the small screw on the backside of the case and carefully pry open the two halves of the case. There are four parts that fit together; front side case, membrane, pcb, and backside case. Be careful not to pull out the “learn” magnet.

The front side of the case, membrane and pcb will likely stay together. Use a non-metal object to push the battery out as shown. Using a metal object will damage the board. Insert a new battery carefully with the positive face up.

Add small bead of silicone around the rubber membrane edge before assembling the two halves of the case.
Overview:
The RE6 wireless control is designed to provide highly dependable, consistent wireless performance. Aside from battery replacement, the units are practically maintenance free and built with quality components for durability and reliability.

Mounting:
Mount the unit with the electrical plug pointing down in an area that offers as much protection as possible and away from direct sources of high heat, moisture, vibration, and electromagnetic energy. Proper mounting and placement will ensure the best and long lasting performance.

Wiring:
The wire harness is specific to the wireless controller. It has a 7.5 amp fuse incorporated into the power lead going to the receiver. DO NOT REPLACE WITH A HIGHER AMPERAGE FUSE – USE 7.5 AMP FUSE ONLY. The wire harness should be inspected regularly for any damage.

Operation:
Once the unit is powered up by turning on the toggle switch, you are ready to operate. On both the receiver and transmitter unit there is an L.E.D. indicator. On power up, the receiver unit will flash four times. This indicates that the unit is getting power, and that it is ready to operate. The RE6 unit has a line of sight range of 100' feet. Keep in mind that battery condition, receiver mounting location, and multiple obstructions can reduce the effective range.

Battery Replacement:
The battery (#CR2032) in the key fob remotes should be changed annually prior to each operational season. If the transmitter battery voltage has dropped below 2.85 volts, the battery should be replaced. If inconsistent performance or reduced range is observed, the remote battery should be changed. The battery can be changed by removing the small screw on the back of the unit and splitting the transmitter case. Once opened, slide the battery out of its holder, and replace. To prevent damage, do not use screwdrivers or other metal tools inside of the transmitter case. Upon reassembly, apply silicone around the keypad edge and make certain that it is properly seated in the sealing channel and the two case halves are mated correctly. This will prevent water ingress.

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Receiver

5. Magnetic sensor learn area (side of box)
6. Power and status indicator light
7. Connector for wire harness
8. Mounting holes

Safety:
Ensure that the transmitter is not left unsupervised while the receiver is powered on.

Caution:
Tamping with or using the product in a fashion other than intended can result in product malfunctions leading to injuries or death. Misuse or evidence of tampering will void the warranty.
Power Management/Restrictions:
The RE6 may be used to directly control power to applications.
The systems have a maximum current rating which needs to be observed. Individual outputs are rated at 2.5A each. The maximum, combined simultaneous output limit is RE6 7.5Amps. Exceeding the limit will result in damage to the unit. For applications requiring higher output amperages, the RF systems may be used in conjunction with relays.

Rx/Tx Communication/Learning:
When purchased, the communication between the transmitter(s) and the receiver unit will already be established. If communication is lost or additional transmitters are added, the learn procedure is completed by holding the bottom of the keyfob transmitter on the “learn” area. The indicator light on the receiver will turn solid red indicating it is ready to pair with the transmitter. Once the light is red, press a button on the transmitter and watch for the receiver indicator light to flash green indicating a successful pairing.

Power Supply:
An adequate power supply is essential for proper performance. The receiver draws a small amount of current when it is in stand-by mode and can discharge the battery over time. Always disconnect the RF unit when charging the battery or performing any electrical work. The receivers have an internal thermal fuse that will, in most cases, shut the unit down if it encounters overvoltage situations, but there are some conditions that it cannot protect against. If the thermal fuse does activate, the unit will shut down. Once the unit cools, the RF system will reset and function normally. Should the unit shut down in such a manner, inspect the electrical system that is powering the RF unit.

Troubleshooting:
The majority of trouble shooting issues can be traced back to a power supply (battery) deficiency.

5. replace the remote battery
6. check the main power source for 12.4V
7. check the power and ground wire connections
8. check the fuse in the power wire

If you still are experiencing difficulties, a troubleshooting sheet can be found on our website www.rowe-electronics.com

Additionally, feel free to contact our customer support center at 515-981-5504.

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The front side of the case, membrane and pcb will likely stay together. Use a non-metal object to push the battery out as shown. Using a metal object will damage the board. Insert a new battery carefully with the positive face up.

Add small bead of silicone around the rubber membrane edge before assembling the two halves of the case.
**Manual Start:** If you have a pull start motor on your seed tender, you will need to put the choke lever all the way to the left.
DESIGNATED WORK AREA

WORK AREA DIAGRAM

Before starting the Patriot Seed Tender, a designated work area should be established. The work area should be a perimeter in which no persons should be allowed that are not directly involved in the operation of the Seed Tender. Also, all persons in the work area must have read and understand this manual.

RULES FOR SAFE WORK AREA

Under no circumstances should persons not involved in the operation be allowed to trespass into the work area. It shall be the duty of all operators to see that children and/or other persons stay out of the work area! Trespass into the work area by anyone not involved in the actual operation, or trespass into hazard area by anyone, shall result in immediate shut down by the operator. It shall be the responsibility of all operators to see that the work area has secure footing, is clean and free of all debris, and tools, which might cause tripping and/or falling. It shall also be their responsibility to keep the work area clean and orderly during the operation.

OPERATING PROCEDURES

STARTUP AND BREAK-IN PROCEDURES

CAUTION: It is essential to inspect your drive line before adding power and know how to shut down in an emergency. During the operation of your conveyor, one person shall be in a position to monitor the operation. Any conveyor when it is new or after it sets idle for a season should go through a “break-in” period. Engage the conveyor at a slow RPM to minimize shock loads. Never allow the conveyor belt to "load up" at a low speed. If this occurs, high torque must be used to turn the belt and this can damage the conveyor. The conveyor needs to be run at partial capacity until several hundred bushels of grain have been conveyed, thus resulting in the belt and the tube to become polished. Check the belt and retighten to the original belt tension. When the belt and the tube are polished and smooth, slowly work up to the recommended speed and run the conveyor at full speed.

CAUTION: During the initial start up and break-in period, the operator shall be aware of any unusual vibrations or noises that would indicate a need for service or repair. Keep all safety shields and devices in place. Keep hands, feet and clothing away from moving parts. The operator should have a full view of the work area and check that all personnel are clear of designated work area before adding power. Be certain to close all clean-out and inspection doors in the main conveyor hopper before operating. The operator should regulate the grain flow to the main conveyor by controlling the amount of grain fed into the hopper. Avoid plugging the main conveyor by overfeeding the hopper.

SHUT OFF POWER AND LOCKOUT DRIVE TO ADJUST, SERVICE OR CLEAN.
BULK SEED TENDER INSTALLATION

Caution!
**Because the center of gravity is much higher with a loaded tender on a truck bed, much care should be taken in the way the truck is driven and parked.**

**If the tender is to be used in hilly country, do not unhitch a load or partial load as it could roll away and cause it to flip.**

The unit should sit evenly and squarely on the bed of the truck or trailer. It may be necessary to also block the base to keep it from moving around.

When transporting, keep in mind the conveyor extends forward, be aware of objects two tall in the towing vehicle. Use caution when passing oncoming traffic or going near obstructions like wires or doors.

**Operating Guidelines**

The Patriot Seed Tender is designed to safely and efficiently transport bulk seed to the field to be filled into your planter or drill. Following all safety and operating guidelines should ensure many years of safe and affordable use.

**Pre-Operation Checklist**

When operating this unit for the first time and each time you use it, the following information should be reviewed.

1. Make sure the unit is secured to a base and will not slide or roll off.
2. Make sure lids are properly latched.
3. Make sure the shields are properly installed.
4. Make sure the conveyor is secure before transporting.
5. Make sure the throttle cable is free from tangles.
6. Make sure you understand the operation of the gas engine.
7. Carefully study and understand this manual.
8. Do not wear loose-fitting clothing which may catch in moving parts.
9. Always wear protective clothing and substantial shoes.
10. It is recommended that suitable protective hearing and (eye protection) sight protectors be worn.
11. The operator may come in contact with certain materials which may require specific safety equipment, relative to the handling of such materials (examples: extremely dusty, molds, fungus, bulk fertilizers, etc.).
12. Keep wheel lug nuts or bolts tightened to specified torque.
13. Assure that the tires are inflated evenly and to the proper PSI.
14. Give the unit a visual inspection for any loose bolts, worn part or cracked welds, and make necessary repairs. Follow the maintenance safety instructions included in this manual.
15. Be sure there are no tools lying on or in the equipment.
16. Do not use the unit until you are sure that the area is clear, especially of children and animals.
17. Because it is possible that this equipment may be used in dry areas or in the presence of combustibles, special precautions should be taken to prevent fires and fire fighting equipment should be readily available.
18. Don’t hurry the learning process or take the unit for granted. Ease into it and become familiar with your new equipment.
19. Practice operation of your seed tender and its attachments. Completely familiarize yourself and other operators with its operation before using.
20. Do not allow anyone to stand between the tongue or hitch and the towing vehicle when backing up to the equipment.
21. Securely attach the unit to the towing vehicle using the appropriate ball with the proper rating and always use safety chains.

During Operation

1. Beware of bystanders, PARTICULARLY CHILDREN! Always look around to make sure it is safe to start the engine of the unit or the towing vehicle to move the seed tender.
2. NO PASSENGERS ALLOWED- Do not carry passengers anywhere on, or in, the equipment.
3. Keep hands and clothing clear of moving parts.
4. Do not clean, lubricate, or adjust your seed tender while the motor is running.
5. When halting operation, even periodically, set the towing vehicles brakes, disengage the PTO and shut off the engine, and remove the ignition key.
6. Be especially observant of the operating area and terrain – look for holes, rocks or other object that may cause you to trip and fall. Always inspect area prior to operation.
7. Pick the levellest possible route when transporting across fields. Avoid the edges of ditches or gullies and steep hillside.
8. Maneuver the Seed Tender at safe speeds.
9. Avoid overhead wires or other obstacles. Contact with overhead lines could cause serious injury or death.
10. Allow for the units length when making turns.
11. Do not walk under or work on raised components or attachment unless securely positioned and blocked.
12. Keep all bystanders, pets and livestock clear of the work area.
14. As a precaution, always recheck the hardware on the equipment following every 100 hours of operation. Correct all problems. Follow the maintenance safety procedures.

OPERATING PROCEDURE

1. Start motor (see motor manual)
2. Throttle/Clutch control should be in neutral.
3. Release lock down on conveyor and use the "Up" button on the remote control to lift slightly to clear the conveyor holder.
4. Release the conveyor lock pin so that the conveyor can be rotated to the desired position.
5. Raise or lower conveyor to the desired height using the remote control "Up" and/or "Down" buttons.
7. Activate conveyor by pushing the "hare" button on the remote control. This in turn will cause
the gas motor to increase in speed engaging the centrifugal clutch attached to the motor. When
the desired RPM has been attained let go of the "hare" button.
8. Before container is completely filled, return engine to idle by pressing the "tortoise" button on
the remote control until the auger stops turning, as some product may be in spout.
9. Move to next target and repeat process.
10. When finished, (close gate) empty the conveyor on the last box, shut off motor, return the
conveyor to its transport position and lock in place with lock down.
11. Put fuel lever in “off” position prior to transporting the unit.

SHUTDOWN
A. NORMAL SHUTDOWN
When shutting down the conveyor to ready for transportation, make certain that the hopper and
conveyor are empty before stopping the unit. Before returning the conveyor to the transport position,
the power source needs to be turned off.

B: EMERGENCY SHUTDOWN
If something happens that would cause a need for an emergency, shutdown/disengage the conveyor
by pushing the emergency stop button (red button on remote control) on the remote control. If for
some reason this does not work, immediately turn the engine off. Investigate and determine the
problem making sure not to put you or anyone in danger. Fix the problem and go through the startup
and break-in procedure again. For the conveyor in an emergency shutdown, consider the following:

⚠️ IMPORTANT: Do not stop and restart the conveyor when it is fully loaded. This may
damage the conveyor.

1. If you have to immediately shutdown the conveyor under load, be sure to disconnect and
   lockout the power source.
2. Remove as much grain as possible from the hopper and the conveyor before restarting.
3. Never attempt to restart the conveyor when it is full.
4. When as much grain as possible has been cleared from the hopper and the conveyor,
   reconnect the power source and clear the remaining grain gradually.

⚠️ Remember:

1. Be certain to close ALL clean-out and inspection doors in the main conveyor hopper before
   operating.
2. The operator should not add power before viewing the entire work area and checking that all
   personnel are clear of the designated work area.
3. The operator should be alert to any unusual vibrations or noises that might indicate the need
   for service or repair during the initial startup and break-in period.
4. The operator should regulate the grain flow to the main conveyor by controlling the amount of
   grain fed into the hopper. Avoid plugging the main conveyor by overfeeding the hopper.
5. Be certain that all safety shields and devices remain in place during operation.
6. Ensure that hands, feet, and clothing are kept away from moving parts.
7. Stop the motor and lockout the power source whenever the equipment must be serviced or
   adjusted.
LOCKOUT

The conveyor must be stopped and the power source turned off if the operator must leave the work area or whenever servicing or adjusting. Precaution should be made to prevent anyone from operating the conveyor when the operator is absent from the work area or inside the tender.

HIGHWAY AND TRANSPORT OPERATIONS

1. Always drive at a safe speed relative to local conditions and ensure that your speed is low enough for an emergency stop to be safe and secure. Keep speed to a minimum.
2. Reduce speed prior to turns to avoid the risk of overturning.
3. Avoid sudden uphill turns on steep slopes.
4. Always keep towing vehicle in gear to provide engine braking when going downhill. Do not coast.
5. Do not drink and drive.
6. Comply with state and local laws governing highway safety and movement of farm machinery on public roads.
7. Use approved accessory lighting, flags, and necessary warning devices to protect operators of other vehicles on the highway during daylight and nighttime transport.
8. 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.
9. When driving the equipment on the road or highway under 20 MPH at night or during the day. Use flashing amber warning lights and slow moving vehicle (SMV) identification emblem.
10. Plan your route to avoid heavy traffic.
11. Be a safe and courteous driver. Always yield to oncoming traffic in all situations, including narrow bridges, intersections, etc.
12. Be observant of bridge load ratings. Do not cross bridges rated lower than the gross weight at which you are operating.
13. Watch for obstructions overhead and to the side while transporting.
14. Always operate equipment in a position to provide maximum visibility at all times. Make allowances for increased length and weight of the equipment when making turns, stopping the unit, etc.

WARNING: TIRE SAFETY

1. Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion which may result in serious injury or death.
2. Do not attempt to mount a tire unless you have the proper equipment and experience to do the job.
3. Inflating or servicing tires can be dangerous. Whenever possible, trained personnel should be called to service and/or mount tires.
4. Always order and install tires and wheels with appropriate capacity to meet or exceed the anticipated weight to be placed on the equipment.
TRANSPORTING SEED TENDER

DANGER: Do not transport Seed Tender at speeds in excess of 50 MPH and comply with your state and local regulations governing marking, towing and maximum width. Observe safe driving and operation practices.

DANGER: OVERHEAD ELECTRICAL LINES/OBSTRUCTIONS

DANGER: Be alert to overhead obstructions and electrical wires. Failure to do so may result in electrocution. Always lower the auger into the stowed position before moving. Maintain at least ten (10) feet of clearance. See the chart on page 16 showing the height of the conveyor in the up position. Check the chart to determine the height of your conveyor. Make certain everyone is clear of the work area before moving.

LUBRICATION & MAINTENANCE

For economical and efficient operation of your conveyor, maintain regular and correct lubrication. Neglect leads to reduced efficiency, excessive wear and needless down time.

WARNING!

1. WARNING Keep all safety shields and devices in place. Never clean, adjust or lubricate a machine that is in operation.
2. Make sure there is plenty of ventilation. Never operate the engine in an enclosed building. The exhaust fumes may cause asphyxiation.
3. Always use the proper tools or equipment for the job at hand.
4. Honda engine – refer to manual for information on maintenance products and schedules.
5. Gearbox – refer to manual for information on maintenance products and schedules.
6. Cosmetic – any exposed metal where paint or powder has been chipped, gouged, scratched or worn should be lightly sanded, then primed and painted with good enamel paint. If color is hard to match contact Minden Machine Shop Inc.
7. To prevent stone chips on units being pulled by a truck, you should have a set of mud flaps large enough to remedy possible chipping.
8. Bearings should be examined annually for wear and tear.
9. Replace all shields and guards after servicing and before moving.
10. After servicing, be sure all tools, parts and service equipment are removed.
11. Do not allow grease or oil to build up on any step or platform.
12. Never replace hex bolts with less than grade five bolts unless otherwise specified. Refer to bolt torque chart on page 33 for head identification markings.
13. 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 claim responsibility for use of unapproved parts and/or accessories and other damages as a result of their use.
14. If equipment has been altered in any way from original design, the manufacture does not accept any liability for injury or warranty.
15. A fire extinguisher and first aid kit should be kept readily accessible while performing maintenance on this or any equipment.

**TROUBLE SHOOTING**

**Conveyor Manual for the correct adjusting procedures for the conveyor**

**Conveyor Vibrating**

1. Damage can occur to the belting, causing a noise. Damage usually is caused from foreign material being run through the conveyor. It may be necessary to remove the belting for inspection.
2. The belt could not be tracking correctly and you may have to track the belt.

**Low Capacity**

1. There may not be enough grain reaching the conveyor. Make sure the intake has not bridged over, restricting flow. The belt needs to be covered to achieve maximum capacity.
2. The conveyor belt is moving too slow. Check the belt speed. Low capacity will result from speeds slower than recommended. The belt may need to be tightened.

**Conveyor Plugs**

1. The conveyor may be "jamming" because too much grain is reaching the conveyor, so decrease the amount of grain the conveyor is gathering.
2. The grain may be wet. If wet grain or other hard to move materials is being conveyed, reduce the amount of grain being fed into the hopper. On electric drive unit, check motor wiring or a higher HP motor is needed.
3. The conveyor may be jammed with foreign material. Remove any foreign material in the conveyor.
4. The discharge end may be plugged. Unplug any plugs at the discharge end of the conveyor.
5. Pulley has spun out and burned the belt in two. Cut and re-splice the belt, an additional piece of belting may be required. Tighten and re-track the belt.

**Cleated Belt Is Slipping Loose**

1. Belt tension too low. Tension belt to 10-13 ft-lbs on the adjustment bolts.
2. Belt is extremely dirty. Clean traction side of belt.

**Cleated Belt Is Rubbing Side of Housing or Cleats Are Coming Loose or Wearing**

1. Belt misaligned. Align belt so it tracks center of idle and drive rollers.
EXCESSIVE DAMAGE
1. Belt speed is too slow. Run belt at 400 fpm (belt splice passes every 6 seconds)
2. Belt misaligned. Align belt so it tracks center of idle and drive rollers.

MOTOR DOES NOT START
1. Check gas, old gas will lose octane power. Is your fuel valve on the engine turned on?
   Check your manual for further advice.
2. The unit may have been moved while the gas was not shut off, resulting in gas leaking into the
   oil. An oil change should fix this.

MOTOR VIBRATES ROUGHLY AT TOP SPEED
1. Motor may be running too fast. See Engine Manual for setting top speed.
2. PTO shaft not properly aligned or attached.

Operating & Adjustment of Variable Speed Throttle Actuator

The Throttle controller is simple to operate when you keep these few points in mind.

BEFORE STARTING THE ENGINE

1. Always keep the battery fully charged. When storing the unit for an extended period of time
   such, as over winter, you should remove the battery and store it in a place where it can be
   trickle charged periodically to keep it on good condition. Note: the battery needs to be
   charged at the start of the season to ensure that you will not have problems when you are in
   the field.
2. Check operation of the actuator before starting the engine. To do this, press the "hare" and
   "tortoise" buttons on the remote and watch the arm move left or right depending on which
   button is pressed. Make sure that the actuator arm is closest to the motor before starting
   engine. This will prevent the motor from being at full throttle and discharging product.
3. Make sure that there is no obstruction in the discharge tube.

After Starting the Engine

1. Once the engine is started, let it warm up for a few minutes before operating the actuator. The
   engine should idle smoothly with the choke in the “off” position, once the engine has warmed
   up.
2. Press the hare button on the remote control.
3. The engine should increase in speed, and the conveyor should begin to operate.
4. To avoid premature wear of the conveyor, do not operate the unit empty unless cleaning out
   the conveyor.
5. To adjust top speed of the engine, adjust the top end RPM screw that the throttle lever comes
   against when at full throttle. If the motor has a rough bouncy top end, the RPM screw has
   been adjusted too much. Turn the top end RPM screw clockwise to get rid of the surging.
TROUBLE SHOOTING THROTTLE CONTROL

1. Engine does not come up to speed properly when you press the hare button. Check the battery to see if it is fully charged. Check electrical connections. Check for any obstruction at the throttle lever. Check that the throttle spring is properly adjusted. If you are at a higher altitude you may have to adjust the carburetor (see engine manual).
2. Nothing happens when you press the hare button. Check that the battery is fully charged. Check all wire connections and plugs. Check the switch.

IMPORTANT: The conveyor should be frequently checked and serviced to operate freely. Keep all guards and shields in place. Replace any that are damaged or lost. Our Seed Tenders are well made and we are proud of our line of equipment. We would like you, as our customer, to do your part in using caution and good judgment in using our equipment as well as any other machinery. Any parts needing replacement should be replaced with parts of the same type and size. Do not modify or alter any of the conveyor components.

General Trailer Maintenance

BRAKE ADJUSTMENT

Brakes should be adjusted (1) after the first 200 miles of operation when the brake shoes and drums have “seated,” (2) at 3000 mile intervals, (3) or as use and performance requires. The brakes should be adjusted in the following manner.

1. Jack up trailer and secure on adequate capacity jack stands. Follow trailer manufacturers’ recommendations for lifting and supporting the unit. Check that the wheel and drum rotate freely.
2. Remove the adjusting hole cover from the adjusting slot on the bottom of the brake backing plate.
3. With a screwdriver or standard adjusting tool, rotate the star wheel of the adjuster assembly to expand the brake shoes. Adjust the brake shoes out pressure of the linings against the drum makes the wheel very difficult to turn.

Note: With drop spindle axles, a modified adjusting tool with about an 80 degree angle should be used.
4. Then rotate the star wheel in the opposite direction until the wheel turns freely with a slight lining drag.
5. Replace the adjusting hole cover and lower the wheel to the ground. Repeat the above procedure on all brakes.

Caution: Never crawl under your trailer unless it is resting on properly placed jack stands. Follow the trailer manufacturers’ recommendations for lifting and supporting the unit. Do not lift or place supports on any part of the suspension system.

BRAKE CLEANING AND INSPECTION

Your trailer brakes must be inspected and serviced at yearly intervals or more often as use and performance requires.
Magnets and shoes must be changed when they become worn or scored, thereby preventing adequate vehicle braking.
Clean the backing plate, magnet arm, magnet and brake shoes.
Make certain that all the parts removed are replaced in the same brake and drum assembly.
Inspect the magnet arm for any loose or worn parts.
Check shoe return springs, hold down springs, and adjust springs of stretch or deformation and replace if required.

Caution: ASBESTOS DUST HAZARD!

Since some brake shoe friction materials contain asbestos, certain precautions need to be taken when servicing brakes:
1. Avoid creating or breathing dust.
2. Avoid machining, filing or grinding the brake linings.
3. Do not use compressed air or dry brushing for cleaning. (Dust can be removed with a damp brush).

REPORTING SAFETY DEFECTS

If you believe that your vehicle has a defect which could cause a crash or could cause an injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Minden Machine Shop, Inc.

If NHTSA receives similar complaints, it may open an investigation and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Minden Machine Shop, Inc.

To contact NHTSA, you may call the Auto Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153); go to http://www.safercar.gov; or Write to: NHTSA, US Department of Transportation, 1200 New Jersey SE, Washington, DC 20590. You can also obtain other information about motor vehicle safety from http://www.safercar.gov.
BOLT TORQUE
TORQUE DATA FOR STANDARD NUTS, BOLTS, AND CAPSCREWS.

Tighten all bolts to torques specified in chart unless otherwise noted. Check tightness of bolts periodically, using bolt chart as guide. Replace hardware with same grade bolt.

NOTE: Unless otherwise specified, high-strength Grade 5 hex bolts are used throughout assembly of equipment.

### Bolt Torque for Standard bolts *

<table>
<thead>
<tr>
<th>“A”</th>
<th>GRADE 2</th>
<th></th>
<th>GRADE 5</th>
<th></th>
<th>GRADE 8</th>
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<tr>
<td></td>
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<td>lb-ft (N.m)</td>
<td>lb-ft (N.m)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/4”</td>
<td>6 (8)</td>
<td>9 (12)</td>
<td>12 (16)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5/16”</td>
<td>10 (13)</td>
<td>18 (25)</td>
<td>25 (35)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/8”</td>
<td>20 (27)</td>
<td>30 (40)</td>
<td>45 (60)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7/16”</td>
<td>30 (40)</td>
<td>50 (70)</td>
<td>80 (110)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/2”</td>
<td>45 (60)</td>
<td>75 (100)</td>
<td>115 (155)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9/16”</td>
<td>70 (95)</td>
<td>115 (155)</td>
<td>165 (220)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5/8”</td>
<td>95 (130)</td>
<td>150 (200)</td>
<td>225 (300)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/4”</td>
<td>165 (225)</td>
<td>290 (390)</td>
<td>400 (540)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7/8”</td>
<td>170 (230)</td>
<td>120 (160)</td>
<td>650 (880)</td>
<td></td>
<td></td>
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<tr>
<td>1”</td>
<td>225 (300)</td>
<td>330 (450)</td>
<td>970 (1310)</td>
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### Bolt Torque for Metric bolts *

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<th>CLASS 9.8</th>
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<th>CLASS 10.9</th>
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<td></td>
<td>lb-ft (N.m)</td>
<td>lb-ft (N.m)</td>
<td>lb-ft (N.m)</td>
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</tr>
<tr>
<td>6</td>
<td>9 (13)</td>
<td>10 (14)</td>
<td>13 (17)</td>
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</tr>
<tr>
<td>7</td>
<td>15 (21)</td>
<td>18 (24)</td>
<td>21 (29)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>23 (31)</td>
<td>25 (34)</td>
<td>31 (42)</td>
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<td></td>
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<tr>
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<td>45 (61)</td>
<td>50 (68)</td>
<td>61 (83)</td>
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<tr>
<td>12</td>
<td>78 (106)</td>
<td>88 (118)</td>
<td>106 (144)</td>
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</tr>
<tr>
<td>14</td>
<td>125 (169)</td>
<td>140 (189)</td>
<td>170 (230)</td>
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</tr>
<tr>
<td>16</td>
<td>194 (253)</td>
<td>216 (293)</td>
<td>263 (357)</td>
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</tr>
<tr>
<td>18</td>
<td>268 (363)</td>
<td>--</td>
<td>364 (493)</td>
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</tr>
<tr>
<td>20</td>
<td>378 (513)</td>
<td>--</td>
<td>515 (689)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>516 (699)</td>
<td>--</td>
<td>702 (952)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>654 (896)</td>
<td>--</td>
<td>890 (1206)</td>
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</table>

Torque figures indicated 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%.

*GRADE or CLASS value for bolts and capscrews are identified by their head markings.
YOUR SEED TREATER COMES WITH A METERING DISC THAT WILL HELP REGULATE THE AMOUNT OF INOCULANT YOU WILL BE APPLING TO YOUR SEED.

USE THIS GUIDE TO HELP YOU DETERMINE THE PRESSURE YOUR TREATER SHOULD BE RUNNING AT.

**SEED TREATMENT GUIDE**

<table>
<thead>
<tr>
<th>IF YOU NEED THIS OZ PER 50 LBS</th>
<th>TOTAL OZ PER MINUTE OF LIQUID AT 400 LB PER MINUTE OF SEED FLOW</th>
<th>SET PRESSURE GUAGE AT THIS PSI USING A CP4916-39</th>
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<tbody>
<tr>
<td>1</td>
<td>8</td>
<td>4.4</td>
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<tr>
<td>1.1</td>
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<td>5.3</td>
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<td>1.2</td>
<td>9.6</td>
<td>6.3</td>
</tr>
<tr>
<td>1.3</td>
<td>10.4</td>
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<td>9.8</td>
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<tr>
<td>1.6</td>
<td>12.8</td>
<td>11.1</td>
</tr>
<tr>
<td>1.7</td>
<td>13.6</td>
<td>12.6</td>
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<tr>
<td>1.8</td>
<td>14.4</td>
<td>14.1</td>
</tr>
<tr>
<td>1.9</td>
<td>15.2</td>
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<td>2</td>
<td>16</td>
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<td>2.1</td>
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<td>2.2</td>
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<tr>
<td>2.5</td>
<td>20</td>
<td>27.2</td>
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This chart is only to be used as a guide line, manual calibration must be done to insure that the bushels per minute from the auger are known exactly and ounces per minute from the treater are known exactly.
Wet Inoculation

Parts List

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
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<td>1</td>
<td>210-303 12 FPT Check Valve</td>
<td>PVC Check Valve</td>
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<tr>
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<td>1</td>
<td>Quick TJ Nozzle Body_25 MPT_QJ1_4TT-NYB</td>
<td>#QJ 1/4TT-NYB - 1/4&quot; Male NPT</td>
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<tr>
<td>3</td>
<td>1</td>
<td>Tee Jet Adapter Cap QJ4676-1_4-NYYR</td>
<td>#QJ4676-1/4-NYYR</td>
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<tr>
<td>4</td>
<td>1</td>
<td>Orifice Plate CP4916_12</td>
<td>Tee Jet Orifice Plate #CP4916_12</td>
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<td>5</td>
<td>1</td>
<td>SL025-90</td>
<td>1/4&quot; Street Elbow</td>
</tr>
<tr>
<td>6</td>
<td>1</td>
<td>RN050-025</td>
<td>1/2&quot; to 1/4&quot; Reducing Nipple</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td>HB050-038</td>
<td>1/2&quot; NPT THREAD X 3/8&quot; HOSE BARB</td>
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<tr>
<td>8</td>
<td>1</td>
<td>Gasket CP19438_EPR</td>
<td>Rubber Gasket # CP19438-EPR</td>
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Note the direction of flow on the check valve.

---

Minden Machine Shop Inc.
1302 K Road Minden, NE
800-264-6587 / 308-832-0220

March 16 v1
<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>ITEM</th>
<th>QTY</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
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<tr>
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<td>1</td>
<td>Pump Switch Bracket</td>
<td>Plas Cut=17152 14 ga</td>
<td>22</td>
<td>1</td>
<td>Nozzle Elbow</td>
<td>#NYXNL38 Nozzle Elbow X 3/8 HB w/B12 Nut</td>
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<td>1</td>
<td>12 Volt Pump</td>
<td>#8000-543-250 Shurflo pump 12 Volt, 45 PSI</td>
<td>23</td>
<td>1</td>
<td>Female Tee</td>
<td>#NYTT 12 Tee 1/2&quot;NPT Female</td>
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<td>1</td>
<td>Toggle-Nut</td>
<td>Toggle Nut</td>
<td>24</td>
<td>1</td>
<td>Wika 213-40_212_XXXXxpsil_1-4LM</td>
<td>Hydro Pressure Gauge, Liquid Filled, 2.5&quot; Face, 60psi, 1/4NPT, LM No Flange</td>
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<td>Switch On/Off</td>
<td>2FA34-73 Switch Carlingswitch ESB023 Toggle Switch</td>
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<td>1</td>
<td>Street 45 Elbow-1 4</td>
<td>#NYXEL445 Street Elbow 45deg, 1 1/4&quot;NPT X 1 1/4&quot;FPT</td>
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<td>1</td>
<td>3 Gal. Tank</td>
<td>3 Gal Cone Bottom Inoc Tank 3 1/4 FPT fittings</td>
<td>26</td>
<td>7</td>
<td>Hose Clamp Size 1 1/4</td>
<td>3/8&quot; dia Hose Clamp</td>
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<td>6</td>
<td>1</td>
<td>17151 Inoc 3 Gal Angled to Match Leg Base Bracket</td>
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<td>27</td>
<td>1</td>
<td>3/8 Sprayer Hose</td>
<td>3/8&quot; Sprayer Hose X 10 3/4&quot;</td>
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<td>8</td>
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<td>3 Gal Rect Tank Lid</td>
<td></td>
<td>29</td>
<td>1</td>
<td>3/16 UBolt</td>
<td>5/16 X 1 3/8 X 2 3/16 U-Bolt</td>
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<td>9</td>
<td>4</td>
<td>3/8&quot; X 1 1/2 Bolt</td>
<td>ANSI B18.21-3.8-16 UNC-1</td>
<td>30</td>
<td>2</td>
<td>3/8&quot; Nut</td>
<td>ANSI B18.22-5.16-18 Hex Nut</td>
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<td>4</td>
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<td>ANSI B18.22-3.8-16</td>
<td>31</td>
<td>2</td>
<td>5/16&quot; Flat Washer</td>
<td>ANSI B18.22-5.16-narrow-Type A</td>
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<td>3/8&quot; Flat Washer</td>
<td>ANSI B18.22-1-3.8-wide-Type A</td>
<td>33</td>
<td>4</td>
<td>Cross Recessed Pan Head Machine Screw-Type 1A</td>
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<td>1&quot;nox Inoc Plumbing Mounting Plate</td>
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<td>Pressure Relief Valve</td>
<td>23120A-1.2-PP Pressure Relief Valve w/ Viton</td>
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<td>#NYEL3438 3/4&quot;MPT X 3/8&quot; HB</td>
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<td>01 Fuse Body</td>
<td>#AG C 7.5 Amp Automatic</td>
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<td>#NYEL 1238 1/2&quot;MPT X 3/8 HB</td>
<td>39-45</td>
<td>1-7 On Previous Page</td>
<td>3/8&quot; Flat Washer</td>
<td>ANSI B18.22-1-5/16-wide-Type A</td>
</tr>
<tr>
<td>21</td>
<td>1</td>
<td>11/16 Nozzle Nut Nylon</td>
<td></td>
<td>46</td>
<td>8</td>
<td>5/16 Flat Washer</td>
<td>ANSI B18.22-1-5/16-wide-Type A</td>
</tr>
</tbody>
</table>
Warranty Registration

To register equipment, or file a claim, copy and paste the words on this page into an email or word document, fill out the appropriate information completely, and email it to larry@mindenmachine.com with the subject as EQUIPMENT WARRANTY, or fill it out and fax it to 308-832-1340.

**Dealer Information:**
Not Applicable, check here: [ ]
Dealer Name:
Address:
City:
State:
Zip Code:
Phone #:
Email:

**End User Information:**
Purchaser:
Address:
City:
State:
Zip Code:
Phone #:
Email:

Equipment:
Serial #:
Date Of Purchase: / /

CLAIM FILE

Defect: