1.0 IMPORTANT INFORMATION

Prior to 2016 model year, the serial number plate is located to the right of the control handles as well as stamped above the discharge opening on the unit discharge end frame.

For 2016 model year and later, the serial number plate is located above the discharge opening on the unit discharge end frame.

Please enter the model, serial number and additional information in the space provided for future reference.

Model No. ____________________________
Serial No. ____________________________
Date of Purchase _________________________
Dealership ______________________________
Dealership Phone No. _______________________

Always use your serial number when requesting information or when ordering parts.

HOW TO READ YOUR SERIAL NUMBER

EXAMPLE: 14R6201

Model Year / TSS / Model / Sequence Of Build

14  R  6  201

Meyer Manufacturing Corporation
674 W. Business Cty Rd A
Dorchester, WI 54425
Phone: 1-800-325-9103
Fax: 715-654-5513
Email: sales@meyermfg.com
Website: www.meyermfg.com
This Pre-Delivery & Delivery Check List must be gone through by the Selling Party and the Customer to validate the Owner’s Registration Form.

**PRE-DELIVERY CHECK LIST**

After the New Meyer Forage Box has been completely set-up, check to be certain it is in correct running order before delivering it to the customer.

The following is a list of points to inspect:

- All shields and guards are in place and securely fastened.
- All bolts and other fasteners are secure and tight.
- All mechanisms operate trouble free.
- All grease fittings have been lubricated, gear boxes filled to proper levels, and all roller chains are oiled. See “Lubrication” section of this manual.
- PTO shields turn freely.
- All roller chain springs adjusted properly for automatic tensioning. See “Adjustments” section in this manual.
- Cross Conveyor Belt or Chain and Main Apron Chains are at proper tension. See “Adjustments” section in this manual.
- Emergency Stop and Trip Cables operate properly.
- All decals are in place and legible.
- All stop/tail/turn lights work properly.

**DELIVERY CHECK LIST**

The following check list is an important reminder of valuable information that MUST be passed on to the customer at the time the unit is delivered.

Check off each item as you explain it to the customer.

- Explain to the customer that pre-delivery check list was fully completed.
- Give customer the Owner & Operator’s Manual. Instruct to read and completely understand its contents BEFORE attempting to operate the Forage Box.
- Explain and review with customer the New Meyer Forage Box manufacturer’s warranty.
- Show the customer where to find the serial number on the implement.
- Explain and review with the customer “Safety Precautions” section of this manual.
- Explain and review with customer the “Emergency Stop” and proper “Start-up and Operating Procedures” sections of this manual.
- Demonstrate the “Emergency Stop” operation, activation and reset. Also, demonstrate the PTO shaft locking device, main outfeed clutch adjustments, and the three control lever operations.
- Explain that regular lubrication and proper adjustments are required for continued proper operation and long life of the Forage Box. Review with the customer the “Lubrication” and “Adjustments” sections of this manual.
- Explain the importance of cross conveyor & main apron chain tension, and the need to watch and tighten during the break in period.
- Explain and review with the customer the recommended loading and unloading procedures.
- Fully complete this “PRE-DELIVERY & DELIVERY CHECK LIST” with the customer.
INTRODUCTION

Congratulations on your purchase of a new Meyer farm equipment product. Undoubtedly you have given much consideration to your purchase and we’re proud that you have selected Meyer. Pride in craftsmanship, engineering and customer service have made Meyer products the finest in the farm equipment industry today.

There is no substitute for quality. That is why thousands of people like you have purchased Meyer farm equipment. They felt it was the best equipment to serve their farming needs, now and in years to come. We ask that you follow our policy of “safety first”, and we strongly suggest that you read through the Operator’s & Parts manual before operating your Meyer farm equipment. Meyer Manufacturing Corporation wants to thank you for not compromising quality. We are determined to offer excellence in customer service as well as provide you with the very best value for your dollar.

Sincerely,

All Employees of
Meyer Manufacturing Corporation

The RT Model is available as a truck, Ag cart or wagon mounted unit pulled and powered by a farm tractor. When the PTO is referred to, it means power takeoff from the tractor.

The RT Model may be referred to as forage box, implement or front unloading forage box in this manual.

NOTE: All references to right hand (RH), left hand (LH) front and rear apply to the product as viewed from the rear of the box.

IMPORTANT: You are urged to study this manual and follow the instructions carefully. Your efforts will be repaid in better operation and service as well as a savings in time and repair expense. Failure to read this manual and understand the machine could lead to serious injury. If you do not understand instructions in this manual, contact either your dealer or Meyer Manufacturing Corp. at Dorchester, WI 54425.

WARRANTY: At the front of this manual is an “Owner's Registration Form”. Be sure your dealer has completed this form and promptly forwarded a copy to Meyer Manufacturing to validate the manufacturer’s warranty. The product model and serial number are recorded on this form and on the inside of the front cover for proper identification of your Meyer Forage Box by your dealer and the manufacturer when ordering repair parts. The serial number is stamped above the discharge opening on the unit discharge end frame.

REPAIR PARTS: At the back of this manual is the repair parts section. All replacement parts are to be obtained from or ordered through your Meyer dealership. When ordering repair parts, refer to the parts section and give complete information including quantity, correct part number, detailed description and even Model No. and Serial No. of the forage box which needs repair parts.

Manufacturer’s Statement: Meyer Manufacturing Corporation reserves the right to make improvements in design, or changes in specifications at any time, without incurring any obligation to owners of units previously sold. This supersedes all previous published instructions.
### 3.1 RT AND RTX STANDARD FEATURES

<table>
<thead>
<tr>
<th>Feature</th>
<th>RT616</th>
<th>RT618</th>
<th>RT620</th>
<th>RT622</th>
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<tbody>
<tr>
<td>RT Variable Speed System - 0-17'/minute (PTO drive standard)</td>
<td>Std</td>
<td>Std</td>
<td>Std</td>
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<tr>
<td>Apron Chains (heavy duty pintle)</td>
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<td>Std</td>
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<tr>
<td>Cross Conveyor Chain Hold-Downs</td>
<td>Std</td>
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<td>Std</td>
</tr>
<tr>
<td>Fold-Down Conveyor Extension with Lift Assist</td>
<td>Std</td>
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<table>
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<td>Std</td>
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<td>Superslide, Solid Poly Floor (no plywood) (RTX600)</td>
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<table>
<thead>
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<td><strong>Front Unload</strong></td>
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<tr>
<td>Hydraulic Front Drive System (in lieu of PTO)</td>
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<td>Opt</td>
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<tr>
<td>Hydraulic In-Cab Controls (in lieu of PTO)</td>
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<td>Opt</td>
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<tr>
<td>36” Fold-Down Cross Conveyor Extension (in lieu of standard 24”)</td>
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<tr>
<td>Hydraulic Lift Option for Fold-Down Cross Conveyor Extension</td>
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<td>Roof Assembly (removable)</td>
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<td>6” Higher Roof Assembly (removable) - or 12” higher sides</td>
<td>Opt 616</td>
<td>Opt 618</td>
<td>Opt 620</td>
<td>Opt 622</td>
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<tr>
<td>Roof Hood Assembly (right hand, open top units only)</td>
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<td>Opt</td>
<td>Opt</td>
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<tr>
<td>Truck Mount/Trailer Mount/Wagon Mount</td>
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<td>Opt</td>
<td>Opt</td>
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<td>Tarp Systems (with front enclosures)</td>
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<td>-</td>
</tr>
<tr>
<td>Front to Back Scissor Tarp (electric)</td>
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<td>Opt</td>
<td>Opt</td>
<td>Opt</td>
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<tr>
<td>Side to Side Roll Tarp (electric)</td>
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<td>Opt</td>
<td>Opt</td>
<td>Opt</td>
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<tr>
<td>Clad Tuff Fiberglass Sides &amp; Back</td>
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<td>Opt</td>
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<td>False Front Gate for Grain Kit</td>
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<td>Truck Mount/Trailer Mount/Wagon Mount</td>
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4.0 MANUFACTURER’S WARRANTY

MEYER RT FORAGE BOX

I. The "Owner's Registration Form" must be completed in full and promptly returned to Meyer Mfg. Corp. for this warranty to become both valid and effective. All warranties on new Meyer forage boxes shall apply only to the original retail customer from an authorized Meyer Mfg. Corp. dealership.

II. This warranty shall not apply to any Meyer forage box which has been subjected to misuse, negligence, alteration, accident, incorrect operating procedures, has been used for an application not designed for or pre-authorized by Meyer in writing, has had the serial numbers altered, or which shall have been repaired with parts other than those obtained through Meyer Mfg. Corp. Meyer is not responsible for the following: Depreciation or damage caused by normal wear, lack of reasonable and proper maintenance, failure to follow the operator's manual recommendations or normal maintenance parts and service. Meyer is not responsible for rental of replacement equipment during warranty repairs, damage to a power unit (including but not limited to a truck or tractor), loss of earnings due to equipment down time, or damage to equipment while in transit to or from the factory or dealer.

III. Meyer Mfg. Corp. warrants new Meyer forage box to be free from defects in material and workmanship under recommended use and maintenance service, as stated in the "Owner / Operator's Manual & Parts Book", as follows:

A. Meyer Mfg. Corp. will repair or replace F.O.B. Dorchester, WI, as Meyer Mfg. Corp. elects, any part of a new Meyer Forage Box which is defective in material or workmanship:

i. Without charge for either parts or labor during the first (1) year from purchase date to the original retail customer.

ii. Without charge for parts only during the second (2) year from purchase date to the original retail customer.

IV. COMMERCIAL USE: Coverage as in paragraph III.A.i. ONLY, except warranty coverage is for (90) days for parts and labor to the original commercial retail customer.

V. Repairs eligible for labor warranty must be made by Meyer Mfg. Corp. or an authorized Meyer dealership. The original retail customer is responsible for the transportation of the forage box to the dealership for warranty service or for any service call expenses.

VI. Except as stated above, Meyer Mfg. Corp. shall not be liable for injuries or damages of any kind or nature, direct, consequential, or contingent, to persons or property. This warranty does not extend to loss of crop or for any other reasons.

VII. No person is authorized to give any warranties or to assume any other obligation on Meyer Mfg. Corp.’s behalf unless made or assumed in writing by Meyer Mfg. Corp. This warranty is the sole and exclusive warranty which is applicable in connection with the manufacture and sale of this product and Meyer Mfg. Corp’s responsibility is limited accordingly.

VIII. Tires, optional scales and tarps fall under the original manufacturer's warranty.
5.0 SAFETY

The Meyer Forage Box is manufactured with operator safety in mind. Located on the forage box are various safety signs to aid in operation and warn of hazardous areas. Pay close attention to all safety signs on the forage box.

Carefully follow the operating and maintenance instructions in this manual and all applicable safety laws. Failure to follow all safety procedures may result in serious injury or death.

Before attempting to operate this forage box, read and study the following safety information. In addition, make sure that every individual who operates or works with the forage box, whether family member or employee, is familiar with these safety precautions.

Meyer Mfg. Corp. provides guards for exposed moving parts for the operator’s protection; however, some areas cannot be guarded or shielded in order to assure proper operation. The operator’s manual and safety signs on the forage box itself warn you of hazards and must be read and observed closely!

⚠️ Safety Alert Symbol

This symbol is used to call attention to instructions concerning personal safety. Be sure to observe and follow these instructions. Take time to be careful!

⚠️ DANGER

The signal word DANGER on the machine and in the manual identifies a hazardous situation which, if not avoided, WILL result in death or serious injury.

⚠️ WARNING

The signal word WARNING on the machine and in the manual indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.

⚠️ CAUTION

The signal word CAUTION on the machine and in the manual indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury. It may also be used to alert against unsafe practices.

This notice identifies procedures which must be followed to avoid damage to the machine.

Danger, Warning, Caution, and instructional decals and plates are placed on the equipment to protect anyone working on or around this machine, as well as the components of the machine. All personnel operating or maintaining this equipment must familiarize themselves with all Danger, Warning, Caution, and instructional decals and plates.
5.1 SAFETY PRECAUTIONS

All individuals who will operate this Forage Box must read and completely understand this Operator’s And Parts Manual. Operator must have instructions before operating the machine. Untrained operators can cause injury or death.

- Trip the emergency stop regularly with the trip cables to ensure that it will shut the front unloading unit down in an emergency.
- DO NOT allow anyone to operate, service, inspect or otherwise handle this forage box until all operators have read and understood all of the instructional materials in this Operator’s And Parts Manual and have been properly trained in its intended usage.
- For an operator to be qualified, he or she must not use drugs or alcohol which impair alertness or coordination while working. An operator who is taking prescription drugs must get medical advice to determine if he or she can safely operate a machine and the equipment.
- Make sure all personnel can READ and UNDERSTAND all safety signs.
- DO NOT allow minors (children) or inexperienced persons to operate this forage box.
- DO NOT operate until all shields and guards are in place and securely fastened.
- DO NOT adjust, clean, lubricate, or reset the emergency stop while the forage box is in motion.
- Inspect when first delivered and regularly thereafter; that all connections and bolts are tight and secure before operating.
- Know how to stop operation of the forage box before starting it!
- Make certain everyone is clear of the forage box before applying power.
- Make certain everyone stays clear of the cross conveyor while operating.
- Keep hands, feet and clothing away from moving parts. Loose or floppy clothing should not be worn by the operator.
- Observe all applicable traffic laws when transporting on public roadways (where legal to do so). Check local laws for all highway lighting and marking requirements.
- Shut off and lock out power before adjusting, servicing, maintaining or clearing an obstruction from this machine. (See 5.4 SHUTOFF & LOCKOUT POWER on page 22.)
- Always enter curves or drive up or down hills at a low speed and at a gradual steering angle.
- Never allow riders on either tractor / truck or equipment.
- Keep tractor / truck in a lower gear at all times when traveling down steep grades.
- Maintain proper brake settings at all times (if equipped).
- DO NOT step up on any part of the forage box at any time. DO NOT use the PTO guard as a step.
- DO NOT step over the power take-off shaft. Stay clear of the PTO at all times.
- Keep PTO shaft telescoping tube shields turning freely. Keep PTO master shield on tractor. Replace damaged or missing shields.
- Match the right tractor PTO spline and speed with the PTO driveline provided with the implement. Never operate PTO above normal 540 RPM rating. Never connect forage box PTO shaft to a 1000 RPM tractor PTO. Never use a spline adapter.
- Stay away from overhead power lines. Electrocutain can occur without direct contact.
- Use only properly rated undercarriage and tires.
Safety Precautions For Tractor Towed Units:

- Do not exceed 20 mph (32 kph). Reduce speed on rough roads and surfaces.
- Always install a SMV emblem on pull-type equipment when transporting on roadways and keep clean and bright.
- Always yield to oncoming traffic in all situations and move to the side of the road so any following traffic may pass.

Safety Precautions For Truck Mounted Units:

- Comply with state and local laws governing highway safety and movement of machinery on roadways.

Safety Precautions For Hydraulic System:

- Check hydraulic tubes, hoses and fittings for damage and leakage. Never use hands to check for leaks. Hydraulic tubes and hoses must be properly routed and have adequate support and secure clamps. Tighten or replace any parts that show leakage.
- Always clean fluid spills. Do not use gasoline or diesel fuel for cleaning parts. Use commercial nonflammable solvents.
5.2 SAFETY SIGNS

Read all safety signs on the Forage Box and in this manual. Keep all safety signs clean and replace any damaged or missing safety signs before operating the equipment. Do Not remove any safety signs. Safety signs are for operator protection and information.

CAUTION

Read all safety signs on the Forage Box and in this manual. Keep all safety signs clean and replace any damaged or missing safety signs before operating the equipment. Do Not remove any safety signs. Safety signs are for operator protection and information.

FRONT OF FORAGE BOX

PART NO. 46-8500-7

PART NO. 46-0001-35

PART NO. 46-0001-62 (Pull Type Only)

PART NO. 46-0001-22

PART NO. 46-0004-2
Right Front Side

1. **DANGER**
   Rotating Augers
   Disconnect and Lock Out Power Before Entering Box to Service.

   PART NO. 46-0001-5

2. **DANGER**
   Entanglement Hazard
   Keep All Shields In Place While Machine Is Running

   PART NO. 46-0001-26
LEFT SIDE OF FORAGE BOX

1. WARNING
   KEEP ALL SHIELDS IN PLACE WHILE MACHINE IS RUNNING
   PART NO. 46-0001-33

2. DANGER
   Moving Parts Keep Away
   PART NO. 46-0001-20

3. DANGER
   ENTANGLEMENT HAZARD
   Keep All Shields In Place While Machine Is Running
   (Located Under Shield) PART NO. 46-0001-26

4. DANGER
   Rotating Augers Disconnect and Lock Out Power Before Entering Box to Service.
   PART NO. 46-0001-5
RIGHT SIDE OF FORAGE BOX

1. WARNING
KEEP ALL SHIELDS IN PLACE WHILE MACHINE IS RUNNING
PART NO. 46-0001-33

2. DANGER
Moving Parts Keep Away
PART NO. 46-0001-20

3. DANGER
Entanglement Hazard
Keep All Shields In Place While Machine Is Running
(Located Under Shield) PART NO. 46-0001-26

4. DANGER
Rotating Augers
Disconnect and Lock Out Power Before Entering Box to Service.
PART NO. 46-0001-5

5. WARNING
Entanglement Hazard
KEEP ALL SHIELDS IN PLACE WHILE MACHINE IS RUNNING
PART NO. 46-0001-4

6. Warning Push For
PART NO. 46-0001-14

7. Emergency Stop
PART NO. 46-0001-15
FRONT (UNDER SHIELD)

FRONT OF FORAGE BOX

OPERATING PROCEDURE

NOTE: The VARIABLE SPEED, AUGER CLUTCH, and OUTFED CLUTCH levers must be in their “STOP” positions when engaging and disengaging the PTO drive shaft (optional hydraulic drive). All forage box overloaded lower selector bars are to be made while the PTO or hydraulic power is in operation. If the control levers are engaged before power is applied, damage may occur to the VARIABLE SPEED drive and the OUTFED CLUTCH drive. Failure to follow correct operating procedures may cause equipment damage and void the manufacturer’s warranty.

1. Park the forage box so the discharge chute controller is aligned with the longer/shorter hopper. Park the forage box and tractor in a straight line to prevent meeting of PTO drive shafts. If equipped with a cross conveyor extension, lower it down for unloading.

2. Engage the OUTFED CLUTCH lever to the “STOP” position, and the AUGER CLUTCH & VARIABLE SPEED levers in their “STOP” positions.

3. Slowly engage the motor PTO and set the engine speed from 960-1080 RPM, which should give a PTO speed of 800-1080 RPM.

4. Invertly, engage the AUGER CLUTCH lever in the “RUN” position and allow the cross conveyor to engage out and control of the auger is taken. After the forage box has emptied, fully engage the OUTFED CLUTCH lever into the “RUN” position.

5. Invertly, engage the AUGER CLUTCH lever in the “RUN” position to allow the auger to engage and any accumulation of forage in the auger. After the augers have emptied, fully engage the AUGER CLUTCH lever into the “RUN” position. Disengage the variable speed lever to the “STOP” position. Then, disengage the OUTFED CLUTCH lever to the “STOP” position. Lift down the tractor engine PTO and shut off the tractor PTO. Remove the PTO and back the box into the PTO brace at the front of the forage box. If the forage box has discharged material in the discharge chute, raise it up in the transport position.

6. When unloading is complete, slowly return the VARIABLE SPEED lever to the “STOP” position. Lower the discharge chute controller into the “STOP” position, and the AUGER CLUTCH & VARIABLE SPEED levers to the “STOP” position. Raise the cross conveyor extension, raise it up in the transport position.

7. When REAR Unloading: All 3 control levers MUST be in the discharge (“STOP”) position.

PART NO. 46-0001-26

PART NO. 46-0001-164
5.3 EMERGENCY SAFETY STOP

5.3.1 Emergency Stop Trip Locations

The "Warning Push For Emergency Stop" bar (Item 1) is located on the front of the forage box.

Emergency stop trip cables (Item 2) connected to the “Warning Push For Emergency Stop” pushbar extend along both sides of the forage box.

5.3.2 Front Unload Emergency Stop Operation

Push up on the bar (Item 1) to shut down the forage box in an emergency.

Pull on the trip cables (Item 2) to shut down the forage box in an emergency.

NOTE: The emergency stop mechanism DOES NOT STOP the PTO drive shaft.

5.3.3 Resetting the Emergency Stop

Shutoff and lockout power before adjusting, servicing, maintaining, or clearing an obstruction from this machine. Failure to heed may result in serious personal injury or death.

Do not reset the emergency stop mechanism until all bystanders, tools and other objects have been cleared from the forage box. Failure to heed may result in serious personal injury or death.

To reset the emergency stop mechanism, fully engage the INDEPENDENT OUTFEED CLUTCH control lever into the “RUN" position.

Test the emergency stop mechanism frequently for front unloading operations using the push bar and trip cables at the rear most point of the box, to be assured that the emergency stop mechanism is in proper operating condition and can be shutdown in the event of an emergency.

NOTE: Always keep excessive slack out of the emergency stop trip cables.
5.4 SHUTOFF & LOCKOUT POWER

Any individual that will be adjusting, servicing, maintaining, or clearing an obstruction from this machine needs to ensure that this machine stays safely “OFF” until the adjustment, service, or maintenance has been completed, or when the obstruction has been cleared, and that all guards, shields, and covers have been restored to their original position. The safety of all individuals working on or around this machine, including family members, are affected. The following procedure will be referred to throughout this manual, so be familiar with the following steps.

5.4.1 Shutoff & Lockout Power Recommendations

1. **Think, Plan and Check**
   
   a. **Think** through the entire procedure and identify all the steps that are required.
   
   b. **Plan** what personnel will be involved, what needs to be shut down, what guards / shields need to be removed, and how the equipment will be restarted.
   
   c. **Check** the machine over to verify all power sources and stored energy have been identified including engines, hydraulic and pneumatic systems, springs and accumulators, and suspended loads.

2. **Communicate** - Let everyone involved, including those working on or around this machine, that work is being done which involves keeping this machine safely “OFF”.

3. **Power Sources**
   
   a. **LOCKOUT** - Shut off engines and take the key, or physically lock the start/on switch or control. Disconnect any power sources which are meant to be disconnected (i.e. electrical, hydraulic, and PTO of pull-type units).
   
   b. **TAGOUT** - Place a tag on the machine noting the reason for the power source being tagged out and what work is being done. This is particularly important if the power source is not within your sight and/or will need to be isolated for a longer period of time.

4. **Stored Energy** - Neutralize all stored energy from its power source. Ensure that this machine is level, set the parking brake, and chock the wheels. Disconnect electricity, block moveable parts, release or block spring energy, release pressure from hydraulic and pneumatic lines, and lower suspended parts to a resting position.

5. **Test** - Do a complete test and personally double check all of the above steps to verify that all of the power sources are actually disconnected and locked out.

6. **Restore Power** - When the work has been completed, follow the same basic procedures, ensuring that all individuals working on or around this machine are safely clear of the machine before locks and tags are removed and power is restored.

**IMPORTANT**

It is important that everyone who works on this equipment is properly trained to help ensure that they are familiar with this procedure and that they follow the steps outlined above. This manual will remind you when to Shutoff & Lockout Power.
6.0 PRE-OPERATION

DO NOT allow anyone to operate, service, inspect or otherwise handle this forage box until all operators have read and understand all of the instructional materials in this Operator’s And Parts Manual and have been properly trained in its intended usage.

Verify that the forage box is securely fastened to the tractor / truck.

Verify that all electrical / hydraulic connections and bolts / hardware are tight and securely fastened before operating the forage box.

Always keep all shields and guards in place and securely fastened.

Keep hands, feet and clothing away.

Wear safety glasses to prevent eye injury when any of the following conditions exist:

- When fluids are under pressure.
- Flying debris or loose material is present.
- Tools are being used.

Failure to heed may result in serious personal injury or death.

6.1 PRODUCT INSPECTION

Hydraulic fluid escaping under pressure can have sufficient force to cause injury. Keep all hoses and connections in good serviceable condition. Failure to heed could result in serious personal injury or death.

6.1.1 Before Operating The Forage Box

Before operating the forage box for the first time and each time thereafter, check the following items:

1. Inspect the forage box for proper adjustments. (See 8.2 ADJUSTMENTS on page 39.)

2. Lubricate the equipment. (See 8.1 LUBRICATION on page 35.)

3. Make sure that all guards and shields are in place, secured and functioning as designed.

4. Check all main roller bearings for wear. Replace as needed.

5. Remove any twine, wire or other material that has become entangled around the apron drive system, front augers, or cross conveyor system.

6. Check condition of all hydraulic components for leaks. Repair or replace as required.

7. Check the hydraulic oil level. (See 8.1 LUBRICATION on page 35.)
6.1.2 General Inspection

**CAUTION**

Inspect the chassis’ axles, o-beams, spindles, tires, hitches & all safety shielding, safety signs and safety lighting regularly. These parts if not watched closely, may pose potential injury or death. If any part is found in need of repair, follow the SHUTOFF & LOCKOUT POWER recommendations and have qualified personnel repair immediately.

Check to see that no obstructions are present in the forage box prior to start up. Be sure that there are not tools laying on or in the forage box. A window is provided in the front of the forage box to allow observation inside. Unloading is best observed from the operator’s seat.

See your Trailer / Chassis / Wagon manual for further product safety and maintenance details.

6.2 LIGHT HOOK-UP

**Truck Mounted Models:** A 4 pin electrical socket is provided to connect the electrical control plug from your truck. This will operate signal, tail, clearance and brake lights.

**NOTE:** Depending on make and model of the truck, it may be necessary to install a light converter. (Meyer part #56-0028). The converter allows signal lights and brake lights to operate according to DOT Lighting Standards.

6.3 PTO HOOK-UP

This forage box is to be operated with 540 RPM PTO ONLY. No PTO adapter may be used to alter speed or geometry. Set your tractor drawbar to conform to the standard dimensions as shown on the following illustration. This will ensure that the PTO drive shaft will not be over extended.

Adjust the tractor’s drawbar in / out, until the center of the hitch pin hole matches the correct PTO set up. See your tractor’s owner’s manual for correct adjustment procedures (Item 2).

The distance between center of the tractor PTO shaft and drawbar should be between 6 - 12 inches (8 inches is recommended) (Item 1).

**DANGER**

Do not operate without PTO guard on machine and on tractor. Maintain PTO drive shaft guards in operating condition. Replace guards if damaged or not turning freely. Failure to heed may result in serious personal injury or death.

**NOTE:** The PTO horsepower and / or hydraulic requirements may not reflect adequate tractor size for towing the machine. Refer to Tractor Weight Requirements 3.9.3 for these recommendations and transporting section for additional tractor and towing requirements.

**IMPORTANT**

Do not exceed maximum PSI or a motor failure could result.
6.4 HYDRAULIC HOOK-UP

Truck & Tractor hydraulic system should be capable of 25 GPM @ 3000 PSI peak pressure. If truck mounted, install a relief valve set at 3000 PSI. Engine RPM should be 1500 RPM. Set up hydraulic system on Truck mounted units with a minimum of a 30 gallon reservoir. 3/4” NPT hydraulic hookup.

Call the factory for further information.

NOTE: The PTO horsepower and/or hydraulic requirements may not reflect adequate tractor size for towing the machine. Refer to Tractor Weight Requirements 6.9.3 for these recommendations and transporting section for additional tractor and towing requirements.

Do not exceed maximum PSI or a motor failure could result.

6.5 HITCHING TO TRACTOR

Move to the operator’s position, start the engine and release the parking brake.

Do not allow anyone to stand between the tongue or hitch and the tractor when backing up to the Forage Box.

Move the tractor in front of the forage box. Slowly move the tractor backwards towards the forage box and align the drawbar with the implement’s hitch.

NOTE: Lower or raise the forage box jack to properly align the drawbar and hitch.

Fasten the forage box hitch to the tractor drawbar with a properly sized hitch pin with safety retainer. (Reference ANSI/ASABE AD6489-3 Agricultural vehicles - Mechanical connections between towed and towing vehicles - Part 3: Tractor drawbar.) (See your Trailer / Chassis / Wagon manual for further details.)

Connect the tractor half of the PTO drive shaft assembly. The PTO must be locked securely to the tractor output shaft and the implement half of the PTO drive shaft assembly must be locked securely to the mixer drive line.

Before operation and after hitching the tractor to the implement, connect the hydraulic hoses and light cord to the tractor. Connect any optional equipment as needed.

6.6 START-UP AND SHUT-DOWN

DO NOT allow anyone to operate, service, inspect or otherwise handle this forage box until all operators have read and understand all of the instructional materials in this Operator’s And Parts Manual and have been properly trained in its intended usage.

Before operating the forage box, look in all directions and make sure no bystanders, especially small children are in the work area.

Disengage the hydraulic power, engage the machine’s parking brake, stop the engine and make sure all moving components are completely stopped before connecting, disconnecting, adjusting or cleaning this equipment.

Always keep all shields and guards in place and securely fastened.

Keep hands, feet and clothing away.

For Start-Up and Shut-Down procedures, (See 7.3 UNLOADING on page 32.)
6.7 OPERATIONAL CHECKS

**WARNING**

Before operating the forage box, look in all directions and make sure no bystanders, especially small children are in the work area.

Before filling the forage box, slowly engage the hydraulics and operate at idle speed to ensure that the forage box is operating properly.

Adjust and lubricate equipment as needed. (See 8.2 ADJUSTMENTS on page 39.) & (See 8.1 LUBRICATION on page 35.)
6.8 TRANSPORTING

AVOID SERIOUS INJURY OR DEATH

- Read and understand owner’s manual before using. Review safety precautions annually.
- Before operating the forage box, look in all directions and make sure no bystanders, especially small children are in the work area.
- No riders allowed when transporting.
- Do not drink and drive.
- Before moving, be sure required lights and reflectors are installed and working.
- Before maintenance or repair, stop vehicle, set parking brake, and remove ignition key.
- Place safety stands under frame and chock wheels before working on tires or chassis.
- Maintain wheel bolts at torque as recommended in the manual.
- If equipped with brakes, maintain proper adjustment.

Pull-Type Units

- Use flashing warning lights when transporting on ALL highways (public roadways) at ALL times (Tractor towed models) EXCEPT WHEN PROHIBITED BY LAW! (Check w/local law enforcement)
- By all state and federal laws, implement lights do not replace the SMV (Slow-Moving Vehicle) identification emblem. All towed agricultural vehicles must display SMV emblems when traveling LESS than 20 mph (32 kph).
- Check for traffic constantly. Be sure you can see that no one is attempting to pass you and that all traffic is sufficiently clear from you before making any turns.
- Securely attach to towing unit. Use a high strength appropriately sized hitch pin with mechanical retainer and attach safety chain.
- Do not exceed 20 mph (32 kph). Slow down for corners and rough terrain.

To Prevent Serious Injury Or Death

- Keeps hands and body out of the hitch area when attaching towing vehicle.
- Keep body clear of crush point between towing vehicle and load.

To Prevent Serious Injury Or Death

- Shift to lower gear before going down steep grades.
- Avoid traveling on slopes or hills that are unsafe.
- Keep towing vehicle in gear at all times.
- Never exceed a safe travel speed (which could be less than 20 MPH.).
WARNING
You must observe all applicable traffic laws when transporting on public roadways. Check local laws for all highway lighting and marking requirements. Failure to heed could result in serious personal injury or death.

WARNING
(Tractor Powered) Do not tow at speeds in excess of 20 mph. Failure to heed could result in serious personal injury or death.

IMPORTANT
An Optional Highway Lighting Package is available to assist in meeting these requirements. See your Meyer Dealer for Details.

6.8.1 Fold Down Cross Conveyor Extension

Always disconnect the PTO driveline from the tractor and place in the PTO storage bracket (Item 1) before transporting. Failure to do this may result in equipment damage.

Always transport with the fold down cross conveyor extension (Item 2) folded up.

Disconnect the hydraulic hoses from the tractor and place in the storage brackets (Item 3) before transporting.

If you will travel on public roads and it is legal to do so, you must know all rules governing such operation. This will include lighting and brake requirements in addition to traffic rules.

The running gear on tractor pulled models may be equipped with a telescoping tongue for convenience to hitch up. Always back up and lock this tongue in the operating position after hitching.

IMPORTANT
Verify that the fold down cross conveyor extension (if equipped), is folded up (raised position) to reduce transport width.

IMPORTANT
You must observe all applicable traffic laws when transporting on public roadways. Check local laws for all highway lighting and marking requirements. Failure to heed could result in serious personal injury or death.
6.9.1 Safety Chain

A safety chain must be installed to retain the connection between the tractor (or other towing vehicle) and implement whenever traveling on public roads in case the hitch connection would separate.

The chain must be of adequate size to hold the weight of the loaded forage box. See your ag cart or wagon owner/operator’s manual and parts book, which is also available at www.meyermfg.com.

NOTE: If using a grab hook at the end(s) of the chain to secure the chain to itself, a hook latch (Item 1) must be installed.

The length of the safety chain is not to be any longer than necessary to turn without interference. If any chain links or attachment hardware are broken or stretched, repair before using. Store chain so it does not corrode or become damaged. Do not use this chain for other implements because the strength and length of the chain may not be adequate. Identify this chain for use on this particular forage box.

NOTE: Do not use the intermediate support (Item 2) as the attaching point.

6.9.2 Brake Information

See your trailer / chassis manual for brake and braking Information.
6.9.3 Tractor Towing Size Requirements

Use the following charts to help calculate the minimum tractor weight when towing without implement brakes. The minimum tractor weight, up to 20 mph (33 kph) needs to be 2/3's of the box Gross Weight (GW). Gross Weight is calculated by the empty weight of the box and undercarriage combined added to the Load Weight. Then take the Gross Weight and multiply it by 0.667 and you will get the Minimum Required Weight of the Tractor.

Gross Weight

<table>
<thead>
<tr>
<th>FORAGE BOX WEIGHT, EMPTY (LBS)</th>
<th>UNDERCARRAIGE WEIGHT (LBS)</th>
<th>LOAD (LBS)</th>
<th>GROSS WEIGHT (GW) (LBS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>+</td>
<td>+</td>
<td>=</td>
<td>GW</td>
</tr>
<tr>
<td>+</td>
<td>+</td>
<td>=</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Required Weight of the Tractor

<table>
<thead>
<tr>
<th>2/3</th>
<th>GROSS WEIGHT (GW) (LBS)</th>
<th>MINIMUM TRACTOR WEIGHT (LBS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.667 x GW</td>
<td>=</td>
<td>TW</td>
</tr>
<tr>
<td>x</td>
<td>=</td>
<td></td>
</tr>
</tbody>
</table>

MATERIAL ESTIMATED WEIGHT PER CUBIC FOOT

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>LBS / CU. FT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soybeans</td>
<td>47 lbs.</td>
</tr>
<tr>
<td>Cotton Seed (Dry)</td>
<td>20 lbs.</td>
</tr>
<tr>
<td>Corn (Shelled)</td>
<td>45 lbs.</td>
</tr>
<tr>
<td>Corn Silage</td>
<td>30 lbs.</td>
</tr>
<tr>
<td>Haylage</td>
<td>20 lbs.</td>
</tr>
<tr>
<td>Sawdust</td>
<td>17 lbs.</td>
</tr>
</tbody>
</table>

Source: SAE D384.2

Tractor PTO Horsepower Requirements:

The PTO horsepower requirements may not reflect tractor size for towing the machine. Refer to tractor weight requirements for these recommendations and safety section for additional tractor and towing requirements.
7.0 OPERATION

**CAUTION**

DO NOT allow anyone to operate, service, inspect or otherwise handle this forage box until all operators have read and understand all of the instructional materials in this Operator’s And Parts Manual and have been properly trained in its intended usage.

Before operating the forage box, look in all directions and make sure no bystanders, especially small children are in the work area.

Do not climb or step on any part of the forage box at any time.

Turn on level ground. Slow down when turning.

Go up and down slopes, not across them.

Keep the heavy end of the machine uphill.

Do not overload the machine.

Check for adequate traction.

7.1 LOADING

**CAUTION**

Shutoff and lockout power before adjusting, servicing, maintaining, or clearing an obstruction from this machine. Failure to heed may result in serious personal injury or death.

Overloading may cause failure of axles, tires, structural members, hitches, loss of vehicle control. DO NOT exceed maximum gross weight. (See 9.0 SPECIFICATIONS on page 49.)

Filling the forage box evenly from the front to rear will ensure there is downward force on the tractor hitch and provide traction for the tractor wheels.

NOTE: Heaping material over the sides of the box will add a significant amount of weight to the load.

NOTE: Overloading can have detrimental effects on the integrity of the implement and its safe use. Some materials such as soybeans may not be able to be filled to struck level. Overloading will void warranty and increase risk to the operator's safety. Always be aware of your gross weight.

<table>
<thead>
<tr>
<th>MATERIAL ESTIMATED WEIGHT PER CUBIC FOOT</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATERIAL</td>
</tr>
<tr>
<td>Soybeans</td>
</tr>
<tr>
<td>Cotton Seed (Dry)</td>
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<td>Corn (Shelled)</td>
</tr>
<tr>
<td>Corn Silage</td>
</tr>
<tr>
<td>Haylage</td>
</tr>
<tr>
<td>Sawdust</td>
</tr>
</tbody>
</table>

Source: SAE D384.2

NOTE: Maximum Gross Weight is the lesser value between the Implement, chassis, or tires

NOTE: DO NOT fill the cross conveyor unloading area with forage to gain extra capacity. Filling the front unloading unit puts unnecessary pressures and strains on the cross conveyor and auger drive.
7.2 NO ROOF IMPLEMENTS

Drive alongside the loading vehicle. Fill the forage box evenly to properly distribute the load while loading. When dumping into the box with an end-loader, center the bucket just forward of the axle to properly distribute the load while loading.

7.3 UNLOADING

Shutoff and lockout power before adjusting, servicing, maintaining, or clearing an obstruction from this machine. Failure to heed may result in serious personal injury or death.

Never enter the forage box without shutting power “OFF” to the machine. (See 5.4 SHUTOFF & LOCKOUT POWER on page 22.)

Never use “LIVE” power to aid in the clean-out of a clogged machine.

The unloading process described is to be performed by the operator alone. This will eliminate unexpected “start-ups” and minimize other hazards that could result by more than one person in control.

Enter the tractor / truck, start the engine, release the parking brake.

Move the forage box into position and park so that the discharge cross conveyor opening is in alignment with the bagger / blower hopper. If equipped with a cross conveyor extension, lower it down before pulling in front of the blower.

NOTE: Always park the forage box and unloading tractor in a straight line. Minimize the unloading angle on the PTO driveline to prevent wearing of universal joints when connected to the unloading tractor PTO.

Place all tractor / truck controls in neutral, set the parking brake.

Do not approach the forage box from the right side of the machine (left hand unload). Approach the left front area of the forage box, as this is where the control levers are located. Standing in the operator position will not require crossing the PTO drive shaft at any time during the unloading operation.

Avoid serious personal injury or death

- Do not step over the PTO driveline.
- Stay well clear of the PTO driveline at all times.
- Do not step up on any part of the forage box at any time.
UNIT START-UP & SHUT-DOWN PROCEDURES

Start Up Procedure

Remove the PTO drive shaft from the forage box PTO storage bracket and connect it to the tractor PTO. Be sure the PTO yoke is securely locked to the tractor PTO. If using an optional hydraulic drive, couple the hydraulic hoses to the power supply.

Check that the INDEPENDENT OUTFEED CLUTCH (Item 1) control lever is in the “Stop” position and the VARIABLE SPEED (Item 2) & HI-LO RANGE (Item 3) control levers are in the “Neutral” positions.

Slowly engage the tractor PTO and set the engine speed from 1300 - 1500 RPM, which should give a PTO speed of 300 - 375 RPM.

Exit the tractor.

Approach the operator’s position on the front left side of the forage box ONLY by walking along the left side of the tractor.

NOTE: The VARIABLE SPEED, AUGER CLUTCH, and OUTFEED CLUTCH levers must be in their “STOP” positions when engaging and disengaging the PTO drive shaft (or optional hydraulic drive). All forage box control lever selections are to be made while the PTO (or hydraulic) power is in operation. If the control levers are engaged before power is applied, damage may occur to the VARIABLE SPEED drive and the OUTFEED CLUTCH drive. Failure to follow correct operating procedures may cause equipment damage and void the manufacturer’s warranty.

Intermittently engage the OUTFEED CLUTCH lever (Item 1) in the “RUN” position and allow the cross conveyor to empty out any accumulation of forage in the front conveyor of the forage box. After the forage has emptied, fully engage the OUTFEED CLUTCH lever into the “RUN” position.

Intermittently engage the AUGER CLUTCH lever (Item 2) in the “RUN” position to allow the augers to empty out any accumulation of forage in the augers. After the augers have emptied, fully engage the AUGER CLUTCH lever into the “RUN” position.

Set the VARIABLE SPEED lever (Item 3) in a slow speed setting to start unloading. Increase speed of the VARIABLE SPEED lever to regulate rate of forage box unloading speed to match capacity of the bagger / blower. Use faster setting for main apron “cleanout” and small or partial loads.

Shut Down Procedure

When unloading is complete, slowly return the VARIABLE SPEED lever to the “STOP” position and then the AUGER CLUTCH lever to the “STOP” position. Then, disengage the OUTFEED CLUTCH lever to the “STOP” position.

Idle down the tractor engine RPM. Disengage the PTO drive shaft and turn the tractor “OFF.” When all movement has stopped, disconnect the PTO drive shaft from the forage box unloading tractor and return it to the PTO storage bracket. Secure the PTO drive shaft into the PTO storage bracket with the rubber tie down strap. Shut down the silo filling blower tractor and wait for all motion to stop. If the forage box is equipped with a cross conveyor extension, raise it up to the transport position and securely latch it before traveling on roadways.
The unloading process described is to be performed by the operator alone. This will eliminate unexpected “start-ups” and minimize other hazards that could result by more than one person in control.

**IMPORTANT**

If the forage box becomes clogged, shut off all power to the forage box and wait until all rotating components are completely stopped. (See 5.4 SHUTOFF & LOCKOUT POWER on page 22.)

**IMPORTANT**

If any component fails, shut off all power to the forage box and move the forage box to a safe work area. Repair or replace damaged components before proceeding with unloading of the forage.

### 7.5 UNHOOKING THE TRACTOR

1. Park the implement on level ground. Put the tractor controls in neutral, set the parking brake, and turn the engine off before dismounting.

2. Place wheel chocks in front and in back of the implement wheels on opposite sides to prevent the implement from rolling after the tractor is unhooked.

3. Disconnect the PTO drive shaft from the forage box unloading tractor and return it to the PTO storage bracket. Secure the PTO drive shaft into the PTO storage bracket with the rubber tie down strap.

4. Remove the hydraulic hose ends from the tractor hydraulic ports and secure the hose ends on the front of the box to keep them clean.

5. Remove the light cords and any optional equipment connections.

6. Trailer Mounted Units: Remove the jack from the storage mount and install it on the hitch tongue. Crank the jack down until the hitch lifts off the tractor draw bar.

**WARNING**

Keep hands, legs and feet from under tongue and hitch until jack is locked into place.

7. Remove the hitch pin.

8. Unhook safety chain from tractor drawbar and intermediate support.

9. Slowly drive the tractor away from the implement.
8.0 MAINTENANCE

8.1 LUBRICATION

**CAUTION**

SHUTOFF & LOCKOUT POWER before adjusting, cleaning, lubricating or servicing the machine. (See 5.4 SHUTOFF & LOCKOUT POWER on page 22.)

**IMPORTANT**

Fluid such as hydraulic fluid, grease, etc. must be disposed of in an environmentally safe manner. Some regulations require that certain spills and leaks on the ground must be cleaned in a specific manner. See local, state and federal regulations for the correct disposal.

**DAILY or every 10-20 loads:**

**NOTE:** Always use a good quality lithium base grease when lubricating the forage box.

- Grease the PTO driveline universal joints. Grease the PTO driveline telescoping shaft and tube (zerk accessible through the plastic guards).

- Grease front idler sprocket (Item 1). Wipe off excess grease from exterior.

- Grease moveable clutch sheave(s) (Item 2). Wipe excess from interior and exterior.

- Grease the idler pulley bearing (Item 3).

**NOTE:** Prevent oil and grease from getting on clutch sheave belt drive surface.

---

**Equivalent Viscosity of ISO-VG Grades at 104°F and SAE Gear Lube Grades**

<table>
<thead>
<tr>
<th>ISO-VG Grade</th>
<th>SAE Gear Lube Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>46</td>
<td>75W</td>
</tr>
<tr>
<td>100</td>
<td>80W-90</td>
</tr>
<tr>
<td>220</td>
<td>90</td>
</tr>
<tr>
<td>460</td>
<td>85W-140</td>
</tr>
<tr>
<td>1500</td>
<td>250</td>
</tr>
</tbody>
</table>
- Oil roller chain (Item 1) on main apron drive and roller chain (Item 2) on cross conveyor drive.

- Oil roller chains on the middle and upper auger drive roller chains (Item 3) through slots provided in the chain shields.

- 4th auger option has an additional roller chain (Item 4) to be oiled through the slots provided in the chain shields.
Monthly or every 100-150 loads:

- Grease the variable speed control lever (Item 1).

- Grease the six main apron shaft bearings (Item 2) (three front, three rear).

**NOTE:** Front center bearing grease from zerk in left end frame. Not shown.

- Grease gear cluster shaft bearings (Item 3).

- Grease the four cross conveyor apron shaft bearings (Item 4) (both sides).

- Using the visual indicator (Item 5) on the front apron drive gearbox. The oil level should be at the top of the sight glass when parked on level ground.

  Add EP 80-90 gear lube as needed (Lighter oil may be used in temperatures lower than 20° F.).

**NOTE:** Change oil in the gear box after the first season of use and yearly thereafter.

- Using the visual indicator (Item 6) on the auger drive upper gearbox. The oil level should be at the top of the sight glass when parked on level ground.

  Add EP 80-90 gear lube as needed (Lighter oil may be used in temperatures lower than 20° F.).

**NOTE:** Change oil in the gear box after the first season of use and yearly thereafter.
- Grease thrust bearing (Item 1) using a needle point grease gun, turn the bearing while greasing.

- Grease cross conveyor apron shaft bearings (Item 2).

- Grease main apron shaft bearings (Item 3) (one fitting on back side of belt).
• Grease independent outfeed clutch handle pivot (Item 1) (under front shield).

• Apply grease to the auger clutch tightener arm (Item 2) and the auger clutch pivot sleeve assembly (Item 3).

8.2 ADJUSTMENTS

8.2.1 Front Cross Conveyor every 100-150 Loads

Correct adjustment of the front cross conveyor occurs when 12” of chain, APRON SLAT does not touch the BOTTOM PAN of the cross apron return area at the discharge opening. To tighten the chain, loosen the four bolts securing the slotted bearing bracket at each side of the discharge opening. Tighten the chain by tightening the nut on the adjuster bolt. Adjust both sides equally. Retighten the bearing bracket bolts.
8.2.2 Main Apron Chains

After unloading the first ten loads from the front, check the main apron chain tension.

Correct adjustment on the main apron chains is when about (2') feet of chain does not touch the return slides at the rear of the forage box.

Tightener End of Box

SIDE VIEW

Tighten the adjuster bolts at each end of the rear sprocket shaft equally.

Each apron chain has its own idler shaft.

IMPORTANT

Initial wear in of chain will require adjustment to maintain proper chain tension. FAILURE TO MAINTAIN PROPER CHAIN TENSION MAY VOID WARRANTY.

Check chain tension daily for the next five days of operation, and weekly thereafter.

Locate the removable links by inspecting the chain and locating the section of links with cotter pins (Item 1).
NOTE: If adjuster bolt(s) reaches maximum travel, remove equal links from each strand. Removable links are provided in the chain.

Removable master links are included in each of the four strands for shortening the chain after tightener travel is at its maximum. Remove a link from each of the four strands at the same time to assure proper timing, then re-adjust the tightener bolts (Item 1).

8.3 CLEAN-OUT PANEL

IMPORTANT

Clean out all debris / foreign material from this area to maintain proper cross conveyor chain operation.

Remove the three (3) wing nuts (Item 1) and remove the clean-out panel.

NOTE: One wing nut located behind sprocket (left).

There are two cleanout panels under the unit for cross apron clean out.
8.4 INDEPENDENT OUTFEED CLUTCH

8.4.1 Independent Outfeed Clutch Belt Replacement

1. Move the Independent Outfeed Clutch control lever to “STOP” (up).

2. Extend the PTO drive shaft out straight and lower the tractor end down to ground level.

3. Unlatch and raise the hinged top, front chain shield assembly.

4. Remove the clutch bottom bracket - “belt pan.”

5. Roll off the old Double V-Belt from the two pulleys.

6. Slide off the old belt down the length and over the end of the PTO drive shaft.

7. Install new Double V-Belt onto the two pulleys and check for proper engage, "RUN" tension. Adjust as needed.

8. Refasten the clutch bottom bracket - “belt pan” and the PTO input shaft cover.

9. Lower and latch close the hinged top, front chain shield assembly.

10. PTO drive shaft from ground level and return it to the PTO storage bracket.

8.4.2 Independent Outfeed Clutch Adjustment

Lengthen or shorten linkage bolt with jam nut to create moderate tension on the Double V-Belt when engaging the Independent Outfeed Clutch control lever into the “Run” position.
8.5 VARIABLE SPEED CONTROL

8.5.1 Variable Speed Belt Replacement

1. Shift the variable speed control lever to “NEUTRAL” (up).
2. Shift the range control lever to “NEUTRAL” (center).
3. Move the independent outfeed clutch control lever to “STOP” (up).
4. Lower the fold down cross conveyor extension (if equipped).
5. Open cluster shield plastic door.
6. Roll the old belt counter-clockwise off of the top sheaves starting at the 2:00 position.
7. Install the new belt around the lower sheaves and then roll clockwise onto the top sheaves starting at the 10:00 position.
8. Close and securely fasten the cluster shield plastic door.
9. Raise and latch the fold down cross conveyor extension (if equipped).

8.5.2 Variable Speed Control Adjustment

When the variable speed control lever is in “NEUTRAL”, observe that the main aprons are not operating when under load (when wagon is full of forage). Variable speed operation should begin when the lever is moved down one or two notches from “NEUTRAL”.

1. Set the variable speed control lever into neutral position.
2. While the box is running, observe the top shaft. When the belt is properly adjusted, the belt will not be driven when loaded.
3. To adjust, loosen the jam nut (Item 1) and turn the threaded rod:
   A. Lengthen or un-thread the eyelet to set the base of the sheaves tight together.
   B. Shorten or thread the eyelet to set the base of the sheaves further apart.
4. Tighten the jam nut.

NOTE: Once the sheaves have been fully adjusted and the clean out has slowed to a slower than desired speed, belt replacement is necessary.
8.6 AUGER CLUTCH

1. Move the Auger Clutch control lever to “STOP” (up).

2. Open the cluster shield.

3. Remove the PTO drive chain (1) and the variable speed adjustment eye (2).

4. Loosen the auger clutch adjustment (3).

5. Roll off the old Double V-Belt from the two pulleys (4).

6. Install new Double V-Belt onto the two pulleys and check for proper engage, “RUN” tension. Adjust the tightener needed.

7. Reinstall the variable speed adjustment eye, and reinstall the drive chain.

8. Re-tension the auger clutch adjustment. (See 8.6.1 Auger Clutch Adjustment on page 44.)

9. Close and latch the cluster shield.

8.6.1 Auger Clutch Adjustment

Lengthen or shorten the linkage bolt with lock nut to create moderate tension on the Double V-Belt when engaging the Auger Clutch control lever into the “RUN” position. Adjustment must allow the belt to idle when not engaged.


8.7 STORING THE FORAGE BOX

LOCKOUT / TAGOUT the machine / forage box when preparing for storage. (See 5.4 SHUTOFF & LOCKOUT POWER on page 22.)

Sometimes it may be necessary to store your Meyer forage box for an extended period of time. Below is a list of items to perform before storage.

- Fully empty the forage from the box. (See 7.0 OPERATION on page 31.)
- Thoroughly clean the equipment inside & out.
  - Clean out all materials built-up around the augers.
  - Clean the front cross conveyor on the top pan and in the lower pan (chain return).
  - Clean out the “clean-out” panel.
  - Clean the rear gate shield.
  - Clean the inside of the drive shields.
- Lubricate the equipment. (See 8.1 LUBRICATION on page 35.)
- Apply oil to the cross conveyor and main apron chains and inspect all forage box components for wear or damage. Repair and replace components as necessary.
- Make appropriate adjustments to equipment. (See 8.2 ADJUSTMENTS on page 39.)
- Place hydraulic hoses and 7-pin connector in the storage brackets (if equipped).
- Inspect the hitch and all welds on the equipment for wear and damage.
- Check for loose hardware, missing guards, or damaged parts.
- Check for damaged or missing safety signs (decals). Replace if necessary.
- Replace worn or damaged parts.
- Touch up all paint nicks and scratches to prevent rusting.
- Place the equipment in a dry protected shelter.
- Place the equipment flat on the ground.

8.8 RETURNING THE FORAGE BOX TO SERVICE

After the Meyer forage box has been in storage, it is necessary to follow a list of items to return the equipment to service.

- Be sure all shields and guards are in place.
- Lubricate the equipment.
- Connect to a truck (if required) and operate the truck and equipment, verify all functions operate correctly.
- Connect to a tractor (if required) and operate equipment, verify all functions operate correctly.
- Check for leaks. Repair as needed.
- Verify that all adjustments have been made.

RT Model

- 45 -
8.9 REPLACEMENT PARTS

WARNING

Before servicing this equipment, ensure that all personnel, including family members are familiar with the equipment and the safety hazards that are present, along with the safety practices that should be observed while working in this equipment.

CAUTION

Inspect the chassis’ axles, o-beams, spindles, tires, hitches & all safety shielding, safety signs and safety lighting regularly. These parts if not watched closely, may pose potential injury or death. If any part is found in need of repair, follow the SHUTOFF & LOCKOUT POWER recommendations and have qualified personnel repair immediately.

Any individual that will be adjusting, servicing, maintaining, or clearing an obstruction from this machine needs to ensure that this machine stays safely “OFF” until the adjustment, service, or maintenance has been completed, or when the obstruction has been cleared, and that all guards, shields, and covers have been restored to their original position. The safety of all individuals working on or around this machine, including family members, are affected. The following procedure will be referred to throughout this manual, so be familiar with the following steps.

8.9.1 Shutoff & Lockout Power Recommendations

1. Think, Plan and Check
   a. Think through the entire procedure and identify all the steps that are required.
   b. Plan what personnel will be involved, what needs to be shut down, what guards / shields need to be removed, and how the equipment will be restarted.
   c. Check the machine over to verify all power sources and stored energy have been identified including engines, hydraulic and pneumatic systems, springs and accumulators, and suspended loads.

2. Communicate - Inform everyone involved, including those working on or around this machine, that work is being done which involves keeping this machine safely “OFF”.

3. Power Sources
   a. LOCKOUT - Shut off engines and take the key, or physically lock the start/on switch or control. Disconnect any power sources which are meant to be disconnected (i.e. electrical, hydraulic, and PTO of pull-type units).
   b. TAGOUT - Place a tag on the machine noting the reason for the power source being tagged out and what work is being done. This is particularly important if the power source is not within your sight and/or will need to be isolated for a longer period of time.

4. Stored Energy - Neutralize all stored energy from its power source. Ensure that this machine is level, set the parking brake, and chock the wheels. Disconnect electricity, block moveable parts, release or block spring energy, release pressure from hydraulic and pneumatic lines, and lower suspended parts to a resting position.

5. Test - Do a complete test and personally double check all of the above steps to verify that all of the power sources are actually disconnected and locked out.

6. Restore Power - When the work has been completed, follow the same basic procedures, ensuring that all individuals working on or around this machine are safely clear of the machine before locks and tags are removed and power is restored.
At times parts on this implement will become worn or damaged. Performing repairs on this implement can pose a risk of injury including death. To reduce risk, the party that will be doing the repair should be very knowledgeable of the implement and the equipment that they will be using to do the repair.

- Review the repair so that a plan can be put together and the proper equipment can be used to repair this implement safely and correctly.
- Personal safety equipment may include items such as safety glasses, protective footwear, hearing protection, gloves, fire retardant clothes, etc.

**Crushing Hazard**

*Do Not* work under suspended or blocked parts.

- The use of hoists and/or supports may be needed to handle heavy components.
- If the implement is being repaired in the field, make sure the parking brake of the tractor is engaged, the implement is on solid and level ground.

Welding and torching should be done by properly trained individuals who have proven their skills.

Call the factory for any additional details you may need to perform the repair. Some parts may come with instruction sheets to assist in the repair. Instructions sheets may be provided with your parts order. Otherwise, if available, instruction sheets can be e-mailed or faxed for your convenience. Call Meyer Manufacturing Corporation toll free at 1-800-325-9103 or email sales@meyermfg.com.

The standard forage box header unit discharges to the LH side and the parts illustrations depict these units. If you have an optional RH unit, always specify the part number shown in this book followed by -RH. Nearly all header parts appear similar to the standard unit but are really mirror images. Box parts are all identical. If you specify -RH and there is no difference in the item you wish to order, this will be properly interpreted at the factory and will not cause any problem.

**NOTE:** Be environmentally friendly and dispose of any waste materials properly. Recycle when appropriate.
### 9.0 SPECIFICATIONS

#### 9.1 RT SPECIFICATIONS

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<thead>
<tr>
<th>DIMENSIONS</th>
<th>Front Unload</th>
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<th>RT618</th>
<th>RT620</th>
<th>RT622</th>
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#### SPECIFICATIONS

- Front Apron Drive Shaft: 2" 2" 2" 2"
- Tubular Upright Spacing: 24" 24" 24" 24"
- All Steel Frame - 24" centers (no wood): Std 24" Std 24" Std 24" Std 24"
- HD Tubular Floor Supports: 2x2 2x2 2x2 2x2
- HD Top Rail Formed (no side supports needed): Std Std Std Std
- Commercial Grade Geardrive (no worm gears): Std Std Std Std
## 9.2 RTX SPECIFICATIONS

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Manufactured by:

Meyer Manufacturing Corporation
674 W. Business Cty Rd A
Dorchester, WI 54425
Phone: 1-800-325-9103
Fax: 715-654-5513
Email: sales@meyermfg.com
Website: www.meyermfg.com