8” BULK TANK AUGER

OWNER’S & OPERATOR’S MANUAL

Effective January 1, 2018

Model No’s.
F80110B - 8” x 11’
F80160B - 8” x 16’
F80210B - 8” x 21’
F80270B - 8” x 27’
F80330B - 8” x 33’
F80410B - 8” x 41’

Hutchinson I Mayrath • 514 W. Crawford
Clay Center, KS. USA 67432
TF 800.523.6993 • hutchinson-mayrath.com

NECO • 9364 N. 45th Street
Omaha, NE. USA 68152
TF 800.367.6208 • necodryers.com

aggrowth.com | AGI
Prices: Prices in effect at time of shipment will apply. Prices are subject to change without notice. All prices are F.O.B. Clay Center, Kansas. Orders shipped from locations other than Clay Center, Kansas will be subject to additional charges, such as back freight and/or additional freight.

Service Charge: A service charge will be assessed for all past due balances as permitted by state law not to exceed 1-1/2% per month.

Minimum Order: Processing and handling costs necessitate a minimum charge of $15.00 net on all orders.

Back Orders: Back orders will be shipped as they become available. Contact Hutchinson, Mayrath Customer Service for alternative shipping options or if cancellation is desired.

Damaged Goods: It is the consignee’s responsibility to check all shipments thoroughly upon receipt of goods. If any damage is discovered, it must be noted on the freight bill of lading before signing. The consignee must make necessary claims against the respective freight line. All damage claims must be submitted within 30 days of delivery receipt.

Shortages: All shortages must be noted at time of delivery. Shortages must be noted on the freight bill of lading before signing. Hutchinson, Mayrath must be advised of all concealed shortages upon discovery. Once notified of concealed shortages Hutchinson, Mayrath will advise corrective action to be taken.

Return of Goods: All returns must be approved by Hutchinson, Mayrath prior to shipment. All return requests will be issued a return authorization number. NO RETURNS WILL BE ACCEPTED WITHOUT A RETURN AUTHORIZATION NUMBER AND PRIOR AUTHORIZATION FROM THE FACTORY. All returns must be shipped prepaid. A 15% restocking charge will be applied to all returned merchandise. Custom Products may not be returned for credit. Only current products in new and salable condition may be returned. No safety devices may be returned for credit.

Modifications: It is the policy of Hutchinson, Mayrath to improve its product 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.

Limited Warranty: (a) For a period of (1) year after receipt of goods by the original consumer buyer, Hutchinson, Mayrath will supply free of charge replacement parts for parts that prove defective in workmanship or material. Defective parts must be returned freight prepaid to a specified Hutchinson, Mayrath location. Only Hutchinson, Mayrath original repair parts may be used for warranty repairs.
(b) This limited warranty does not extend to parts designed to wear in normal operation and be replaced periodically; or to damage caused by negligence, accident, abuse or improper installation or operation.
(c) GOODS NOT MANUFACTURED BY HUTCHINSON, MAYRATH CARRY ONLY THE MANUFACTURER’S WARRANTY.
(d) THIS UNDERTAKING IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

FAILURE TO FOLLOW THE INSTRUCTIONS CONTAINED IN THE OWNER’S & OPERATOR’S MANUALS AND THE ITEMS LISTED BELOW WILL RESULT IN THE VOIDING OF THIS LIMITED WARRANTY.

(1) Improper assembly, including failure to properly install all safety equipment.
(2) Improper installation.
(3) Unauthorized alternations of goods.
(4) Goods operated when obviously in need of repair.
(5) Use of unauthorized repair parts.
(6) Irresponsible operation.
(7) Used to handle materials other than free flowing, nonabrasive and dry materials, as intended.
(8) Damaged through abusive use or accident.

Limitation of Liability: BUYER AGREES THAT IN NO EVENT SHALL HUTCHINSON, MAYRATH HAVE LIABILITY FOR DIRECT DAMAGES IN EXCESS OF THE CONTRACT PRICE OF THE GOODS IN RESPECT OF WHICH CLAIM IS MADE. BUYER FURTHER AGREES THAT IN NO EVENT SHALL HUTCHINSON, MAYRATH ON ANY CLAIM OF ANY KIND HAVE LIABILITY FOR LOSS OF USE, LOSS OF PROFITS, OR FOR ANY INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES.
SAFETY

GENERAL SAFETY STATEMENT

This manual was written with the safety of the operator and others who work with the equipment as our prime concern. The instructions presented will help the reader learn SAFE day to day work practices. We want you as our partner in safety.

It is your responsibility as an owner, operator or supervisor to know what specific safety requirements and precautions exist and to make these known to all other personnel working with the equipment or in the area, so that they too may safely perform their duties and avoid any potentially hazardous situations.

Please remember safety equipment provides important protection for persons around a grain handling system that is in operation. Be sure ALL safety shields and protection devices are installed and properly maintained. If any shields or guards are damaged or missing, contact your dealer to obtain the correct items.

Avoid any alterations of the equipment. Such alterations may create a dangerous situation where serious injury or death may occur.

SAFETY ALERT SYMBOL

The safety symbol shown is used throughout this manual to alert you to information about unsafe actions or situations, and will be followed by the word DANGER, WARNING, or CAUTION.

DANGER - Indicates immediate hazards that may result in severe injury or death. WARNING - Indicates unsafe actions or situations that may cause severe injury, death and/or major equipment or property damage. CAUTION - Indicates unsafe actions or situations that may cause injury, and/or minor property damage.

Watch this symbol - it points out important safety precautions. It means - ATTENTION! Become alert! Your safety and the safety of others is involved! Read the message that follows the symbol when a warning is given, be alert to the possibility of personal injury or death.

SAFETY DECALS

Check to ensure all Safety Decals are present and in good condition. If a decal cannot easily be read for any reason, or has been painted over, replace the decal immediately. Safety decals are offered free of charge, and can be ordered through your Hutchinson/Mayrath dealer or directly from the factory.
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**GENERAL INFORMATION**

**OPERATOR QUALIFICATIONS**

**WARNING**

Anyone who will operate or work around this machine 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 the equipment.

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

1. Some regulations specify that no one under the age of 16 may operate power machinery. This includes this auger. It is your responsibility to know what these regulations are in your 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 in safe operation and servicing of all equipment which the employee is, or will be involved with."*

3. Unqualified persons are to stay out of the work area.

4. A person who has not read and understood all operating and safety instructions is not qualified to operate the machine.

*Federal Occupational Safety & Health Standards for Agriculture Subpart D, Section 1928.57 (a) (6).

**SIGN-OFF SHEET**

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

<table>
<thead>
<tr>
<th>Training Sign-Off Sheet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
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<tr>
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<tr>
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</tr>
</tbody>
</table>
GENERAL INFORMATION

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

1. Read through the manual to become familiar with the operation and assembly of the machine. Verify all parts are accounted for before assembly.
2. Check to see that all guards listed in the assembly instructions are in place, secured and functional.
3. Check all safety signs and replace any that are worn, missing or illegible (safety signs can be ordered free of charge through your dealer or directly from the factory).
4. Make sure all fasteners, nuts, bolts, setscrews, etc. are tight.
5. Ensure drive belts are tightened properly. Check belts for fraying, wear, cuts and other damage.

BREAK-IN INFORMATION
Any screw type auger when it is new or after it sits idle for a season should go through a “break-in” period. The auger should be run at partial capacity until several hundred tons of grain have been augered to polish the flight and housing. Once this is accomplished, the auger can be run at full capacity.

Never operate the auger when empty for any length of time as excessive wear will result. If at all possible, do not stop or start the auger under load, especially before the flight and housing have become well polished, as this may cause the auger to freeze-up.

OPERATING CAPACITIES
The results or capacities of screw type augers can vary greatly under varying conditions.

Different materials, moisture content, amount of foreign matter, methods of feeding and flight speed all play a role in the performance of the auger.

Twenty-five percent (25%) moisture could cut capacity back by as much as forty percent (40%) under some conditions.

After initial break-in period, and with auger operating at recommended RPM, the 8” auger can achieve a capacity up to 2500 BPH (68 TPH).

IMPORTANT: BEFORE FILLING BIN
Before filling the bin or storage structure with grain, make sure all slide gates on all wells are closed. If the gates are left open, the wells will fill with grain. Upon start-up, the unload auger would be under load, this can result in damage to the auger, the motor or both. Such damage would be considered abuse of equipment and will void the warranty.
ELECTRIC DRIVE POWER REQUIREMENTS

WARNING! A main power disconnect switch that can be locked in only the “OFF” position shall be provided. This shall be locked whenever work is being done on the auger.

The reset and starting controls must be located so that the operator has full view of the entire operation.

Do Not enter the grain bin unless all power driven equipment has been shut down and locked out.

Make certain electric motor is grounded.

Disconnect power before resetting motor overloads.

Shut off power and lockout whenever cleaning or servicing the auger.

FLIGHT SPEED INFORMATION

Proper auger flight speed is important for efficient operation of the auger.

1. If the flight speed is too fast, excessive wear will result.

2. If the flight speed is too slow and the auger flighting is permitted to “load-up”, high torque will be required to turn the auger flighting, this can result in damage to the auger. Use the center well slide-gate to control the amount of grain fed into the unloading tube.

Use a 3.0” (76 mm) motor pulley for a recommended auger speed of 438 RPM’s (426 RPM). Motor pulleys are Not furnished with the auger.

Auger speeds in excess of 600 RPM should be avoided as excessive wear to the auger, its components and possibly to the motor can result.

Auger speeds below 425 RPM require a flow control to restrict the amount of grain flowing into the intake. Low speeds can “load-up” the auger if the flow of grain is not controlled. High torque is required to turn the flighting if it becomes over-loaded, thus damage to the auger will occur.

An optional control gate is available for this purpose.

### HP (kW) Requirements

#### 8” Bulk Auger

<table>
<thead>
<tr>
<th>Auger Length ft. (m)</th>
<th>Motor HP (kW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>11’ (3.35 m)</td>
<td>1 1/2 hp (1.1 kW)</td>
</tr>
<tr>
<td>16’ (4.88 m)</td>
<td>2 hp (1.5 kW)</td>
</tr>
<tr>
<td>21’ (6.40 m)</td>
<td>3 hp (2.2 kW)</td>
</tr>
<tr>
<td>27’ (8.23 m)</td>
<td>3 hp (2.2 kW)</td>
</tr>
<tr>
<td>33’ (10.06 m)</td>
<td>5 hp (4 kW)</td>
</tr>
<tr>
<td>41’ (12.50 m)</td>
<td>5 hp (4 kW)</td>
</tr>
<tr>
<td>53’ (16.15 m)</td>
<td>7.5 hp (5.5 kW)</td>
</tr>
</tbody>
</table>

The horsepower recommendations are based on clean, dry shelled corn or wheat. High moisture grain, above 15% will require greater power (the maximum possible capacity will be less with high moisture grain than with dry grain).

Always use a motor with the required power recommended in the chart above. Use a 60 Hz motor that operates at 1750 RPM (50 Hz @ 1460 rpm’s).

Electric motors and controls shall be installed by a qualified electrician and must meet the standards set by the National Electric Code and all local and state codes.

A magnetic starter should be used to protect your motor when starting or stopping. It should stop the motor in case of power interruption, conductor fault, low voltage, circuit interruption and/or motor overload. The motor should then be restarted manually.
START-UP INFORMATION

WARNING! Make certain everyone is clear before operating the equipment.
The operator shall be aware of any unusual vibrations or noises that would indicate the 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 entire auger work area and check that all personnel are clear of the designated work area before adding power.

Start the electric motor that operates the auger, then begin to gradually open the control gate. Position the control gate so an adequate amount of grain flows into the auger. Do Not overload the auger by opening the control gate too far. This may result in damage to both the auger and/or motor. Such damage is considered abuse of the equipment and will void the warranty.

During the operation of the auger, one person shall be in a position to monitor the operation. Inspect the drive before adding power and know how to shutdown in an emergency (See Shutdown/Lockout). Visually inspect the auger periodically during operation.

To Start Auger
1. Start the electric motor before augering grain.

Normal Operation
1. If control gate is used, open the control gate gradually until desired flow is established. Do Not overload the auger. Starting the auger under load may result in damage to the auger, motor or both.
If no control gate is used, gradually add grain until desired flow is achieved.
2. Monitor all the grain flow into the auger and be aware of any foreign materials that may cause restrictions or plugging.

FULL LOAD OPERATION

WARNING! Observe the work area restrictions.
Make certain everyone is clear of the area before operating the equipment.

To Start Auger
1. Start the electric motor before augering grain.

Normal Operation
1. Open the control gate gradually until desired flow is established. Do Not overload the auger. Starting the auger under load may result in damage to the auger, motor or both.
2. Monitor all the grain flow into the auger and be aware of any foreign materials that may cause restrictions or plugging.

To Stop Auger
1. Close the control gate to allow auger to empty before stopping.
2. Once auger has cleared, shut off electric motor and lockout the power source.

Do Not enter a bin if the grain has “Bridged” or has not flowed normally out of the bin, See Fig’s. 1 and 2. The grain may suddenly break loose and bury resulting in suffocation.
Do Not enter the bin unless all power driven equipment has been shutdown and locked-out. Never enter the bin unless monitored by another person.

Fig. 1 (Abnormal Flow)
Fig. 2 ("Bridging")
SHUTDOWN/LOCKOUT

EMERGENCY SHUTDOWN
Should the auger be immediately shutdown under load, disconnect and lockout the power source.
Clear as much grain as possible away from the discharge opening and/or inlet end.
Reconnect the power source and run the auger to clear the grain. Never attempt to start when under load.

CAUTION! Starting the unit under load may result in damage to the auger. Such damage is considered abuse of the equipment and will not be covered by the warranty.

NORMAL SHUTDOWN
When shutting down the auger, close the control gate and allow the auger tube to clean out before stopping the unit.
Before the operator leaves the work area, the power source shall be locked-out (See “Lockout”).

INTERMITTENT SHUTDOWN
When an auger is stopped and restarted while under full load, it may result in damage to the auger. Therefore, if intermittent operation is to be carried out, it is advisable to reduce the load level.
If an auger is kept from absolute filling, it will make start-up easier and will convey grain more efficiently.

WARNING! If the operator must leave the work area, or whenever servicing or adjusting, the auger must be stopped and the power source turned off and locked out.
Precaution should be made to prevent anyone from starting or operating the auger when the operator is absent from the work area.

LOCKOUT
The power source shall have a main disconnect box that can be locked only in the “Off” position. This is what “shutdown and lockout” refers to, shut off the main power source and lock the handle or breaker switch in the “Off” position.

TROUBLE SHOOTING

LOW CAPACITY
• The auger may not be getting enough grain. Check to see that the slide gates are opened.
• Check auger speed. Speeds slower than the recommended RPM’s will result in low capacity.

AUGER VIBRATION
• Drive belt may be over tightened, putting head stub and flight in bind, thus causing the noise. Damage usually occurs because of foreign material having been run through the auger. It may be necessary to remove the flighting for inspection.

AUGER PLUGGING
• The auger may be getting too much grain, causing “jamming” inside the housing.
• The motor may be too small or wired improperly.
• Is the auger free of foreign material such as sacks, tarp corners etc? A plug at the discharge end will cause the auger to plug.
• Grain is high in moisture. Excessive feeding of high moisture grain can cause plugging. If wet grain or hard to move material is being augered, use a larger size motor than what is recommended for normal use (See power requirement charts on Page 5).

OPERATING PROCEDURES
The assembly instructions will show a number in parenthesis ( ), this number refers to the item shown in the assembly illustration.

1. Bolt the head bearing (3) to the head plate (2) using two 7/16" x 1 1/4" bolts and nylon locknuts.

2. Install the head stub (5) into the end of the head flight (16) and secure using two 7/16" x 2 1/2" bolts and nylon locknuts.

   For 41' Models: Bolt head flight (16) and extension flight (20) together with the connecting stub (19) using two 7/16" x 2 1/2" bolts and nylon locknuts. Connect the head auger housing (1) and the extension auger housing (17) together with the connecting band (18). Be sure housings are tight together. Use bolts already in the connecting band. Position connecting band so it is halfway on each housing section.

3. Insert the head flight and shaft into the housing (1) and through the bearing (previously attached to the head plate). Make sure the lock collar (4) is on the shaft as well, but Do Not tighten the lock collar at this time.

4. Secure the head plate (2) to the flange on the housing (1) using eight 5/16" x 1" bolts, flat washers and non-lock nuts.

5. Attach the belt guard back (7) to the head plate using the four square holes in the belt guard that are farthest from the large round hole in the center of the guard. Secure the belt guard back using four 3/8" x 3/4" carriage bolts and nylon locknuts.

All Flight and Stub Connections use 7/16" x 2 1/2" Bolts & Nylon Locknuts.
6. Install the 1/4” (6) key into the keyway on the end of the head stub. Slide the sheave (8) onto the shaft until the sheave is as close to the head bearing without contacting the bearing. Once properly set, tighten the lock collar and tighten the setscrews in the sheave.

7. Attach the motor mount support plate (11) to the head plate using four 1/2” x 1” bolts and nylon locknuts (make sure the bolts are on the inside with the nuts on the outside).

8. Thread a 5/8” nut (14) onto the threaded adjustment rod (13) until the nut contacts the head of the rod. Install the threaded rod into the nut welded on the support plate (11) until the threaded rod is all the way down.

9. Attach the motor mount (15) to the support plate using the 5/8” x 13 1/8” (16 mm dia. x 33.3 cm) long rod (12) and cotter pins provided.

10. Use the chart below to determine the mounting location for the electric motor (the motor and motor pulley are not furnished).

Install the motor and the motor pulley [the 8” models use a 3” O.D. (89 mm O.D.) motor pulley]. Install the belts (9) around the sheave and motor pulley and tighten the belts using the 5/8” threaded adjustment rod. Once the belts are tight, use the 5/8” nut to lock the adjustment rod into place. Belts should have approx. 1/2” (13 mm) of deflection when firmly pressed in the middle of the span between the pulley and sheave.

11. Slide four tinnerman nuts (21) over the holes around the lip of the belt guard back (7).

Thread a 1/4” x 3/4” wing-bolt (22) into each of the tinnerman nuts. [Do Not tighten completely, leave about a 1/4” (7 mm) space between the bolt and the nut].

12. Install the belt guard (10) by holding the bottom part of the guard away from the belt guard back while sliding the slots on the top part of the guard between the wing-bolt and the tinnerman nut.

Once the top of the guard is in position, swing the bottom of the guard down, align the slots between the wing-bolts and tinnerman nuts and push into position. Tighten all wing-bolts.

13. A cable is one method that can be used to support the bulk tank auger. Fasten the cable anchor (23) to the auger housing. Secure using the back-band (24) and four 5/16” x 1 1/2” bolts and nylon locknuts. Use the cable thimbles when securing the ends of the cable to each of its anchor points.

<table>
<thead>
<tr>
<th>Motor Size</th>
<th>Bolt Dia. Req’d.</th>
<th>Mount in Holes Marked (+)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor Frame Size</td>
<td>A1</td>
<td>A2</td>
</tr>
<tr>
<td>1 hp (0.75 kW)</td>
<td>143T</td>
<td>3/8”</td>
</tr>
<tr>
<td>1.5 hp (1.1 kW)</td>
<td>145T</td>
<td>3/8”</td>
</tr>
<tr>
<td>2 hp (1.5 kW)</td>
<td>145T</td>
<td>3/8”</td>
</tr>
<tr>
<td>3 hp (2.2 kW)</td>
<td>182T</td>
<td>3/8”</td>
</tr>
<tr>
<td>5 hp (4 kW)</td>
<td>184T</td>
<td>3/8”</td>
</tr>
<tr>
<td>7.5 hp (5.5 kW)</td>
<td>213T</td>
<td>3/8”</td>
</tr>
<tr>
<td>10 hp (7.5 kW)</td>
<td>215T</td>
<td>3/8”</td>
</tr>
</tbody>
</table>
8” BULK TANK AUGER

Slide Cover Between Washer and Nut
## 8” BULK TANK AUGER

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>Part No.</th>
<th>Description</th>
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</thead>
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<td>1015353-0F</td>
<td>Auger Housing f/ 11' Model 10' long (3.05 m), Hutch</td>
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<td></td>
<td>(1) 1015353N-0F</td>
<td>Auger Housing f/ 11' Model 10' long (3.05 m), NECO</td>
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<td>(1) 1015353-0L</td>
<td>Auger Housing f/ 16' Model 15' long (4.57 m), Hutch</td>
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<td>1028111N</td>
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<td>2</td>
<td>1027804</td>
<td>Head Plate</td>
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<tr>
<td>3</td>
<td>8325A</td>
<td>Bearing, Flange 1 1/4” bore</td>
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<td>4</td>
<td>8338A</td>
<td>Lock Collar f/ Bearing</td>
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<td>5</td>
<td>4045A1</td>
<td>Key, 1/4” sq. x 2” long</td>
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<td>6</td>
<td>1027782</td>
<td>Belt Guard Back</td>
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<td>8</td>
<td>40152</td>
<td>Sheave, 2 Groove 12” O.D. x 1 1/4” bore</td>
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<td>9</td>
<td>40118</td>
<td>Belt, B52</td>
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<td>1027801</td>
<td>Belt Guard, Plastic</td>
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<td>1042262</td>
<td>Bracket, Motor Mount Support</td>
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<td>12</td>
<td>1042145</td>
<td>Pin, 5/8” dia. x 13 1/8” long (16 mm dia. x 33.3 cm long)</td>
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<td>13</td>
<td>1027780</td>
<td>Adjusting Rod</td>
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<td>D1170</td>
<td>Nut, 5/8-11 Non-lock</td>
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<td>Plate, Motor Mount</td>
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<td>16</td>
<td>6306A1</td>
<td>Flight f/ 11' Models (less stub) 10’ 10 1/2” long (3.31 m)</td>
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<td>(16) 8316A</td>
<td>Flight f/ 16' Models (less stub) 15’ 11” long (4.85 m)</td>
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<td>Flight f/ 21' Models (less stub) 20’ 11” long (6.38 m)</td>
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<td>Flight f/ 27' Models (less stub) 26’ 11” long (8.20 m)</td>
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<td>Flight f/ 33' Models (less stub) 32’ 11” long (10.03 m)</td>
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<td>8303A</td>
<td>Auger Housing (lower section) 8’ long (2.44 m)</td>
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<td>8309A</td>
<td>Connecting Band</td>
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<td>8320A</td>
<td>Stub, Flight Connecting 1 1/4” x 9 1/2” long (32 mm x 24.1 cm)</td>
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<td>8313A</td>
<td>Flight f/ 41' Models w/ stub Lower Section, 8’ long (2.44 m)</td>
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<td>Nut, Tinnerman, 1/4-20</td>
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<td>1013131</td>
<td>Wing-Bolt 1/4-20 x 3/4”</td>
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<td>Half-Band, 4” wide</td>
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<td>33161</td>
<td>Cotter Pin, 1/8” x 1”</td>
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