INSTRUCTIONS

MODELS: E-2, E-3, & E-6 GRAIN SPREADERS

ASSEMBLY INSTRUCTIONS

1. Remove all parts from the carton.

2. Bolt the three Hanger Straps to the hopper, two (2) bolts each, hooks out. Either lengthen or shorten them to accommodate different bin opening sizes.

3. Turn the unit upside down and gently slide the sleeved end of the Impeller Shaft Assembly onto the protruding end of the output shaft. Be sure that the sleeved shaft is way down against the bearing on the output shaft. Then tighten the 5/16 – 18 x 5/8 Set Screw. Important: be sure the set screw is tightened properly.

4. Pivot the spreading impeller to a sharp angle. DO NOT loosen the pivot locking nut. A spring washer retains adequate tension to hold the impeller in a selected position. When the unit is new, extra pressure may be required to make the impeller pivot to different angles.

5. Bolt all three spreading vanes so that the long tapered end is outward on the impeller. Note the short side of the impeller holds the spreader vane at a much sharper angle.

6. Add one (1) quart oil (included).

7. The unit is now ready to install in your bin.

INSTALLATION AND OPERATION

1. Hang the unit into the bin. Center it and level it with a carpenter’s level.

2. Make sure hanger straps are bolted securely to the fill ring or center ring.

3. Connect the power cord to 110 volts A.C. grounded supply.

4. The unit is ready to operate.

5. Changing the angle of the impeller up and down to different positions will adjust the spreading pattern. Never leave the angle in one setting for a long period of time. Tilting the long end of the impeller downward sharply usually is best for the lower fill in the bin. Gradually flattening the angle as the bin fills is the best procedure. Some changing back and forth often works well in larger diameter bins.

6. Up is reverse and forward is down.

CAUTION: DO NOT STORE SPREADER UPSIDE DOWN, WITH OIL IN, OR WARRANTY WILL BE VOID. THE USE OF GROUND FAULT CIRCUIT INTERRUPTERS (GFCI) IS SUGGESTED ON ALL OUTSIDE ELECTRICAL WIRING TO REDUCE POTENTIAL FOR ELECTRICAL SHOCKS.

LUBRICATION (SEE ILLUSTRATION PAGE 15)

Check the oil level in the gearcase once every 20 hours operating time. The gearcase has an oil fill plug on the top and an oil check plug on the side. Maintain an oil level up to the check plug in the gearcase. DO NOT OVERFILL THE GEARCASE WITH OIL! Use #30 SAE Motor Oil in the gearcase.

** BEFORE OPERATING SPREADER FILL PROPERLY WITH OIL

1. Use the bottle of oil that is included.

2. To put oil in gearcase, remove fill plug on top of gearcase and oil plug on side of gearcase. Pour oil in gearcase.

3. Replace fill plug and oil level plug in gearcase.

“WE BELIEVE IN HIGH QUALITY & GOOD SERVICE.”
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<thead>
<tr>
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<th>Part Description</th>
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**Wiring Diagram**

**E-2, E-3, E-6 Spreaders**

- **Switch Jumps**
  - 3-9 White Jump
  - 2-7 Red Jump
  - 1-8 Yellow Jump

- **Motor Connections**
  - White - 3
  - Red - 2
  - Yellow - 1
  - Blue - 5
  - Black - 4

- **Cord**
  - Black - 4
  - White - 6
  - Green - Cover Screw
• **Hanger Strap Spacer Brackets** •

**Assembly of:**

**Hanger Strap Spacer Brackets (Optional)**

**SA-24**
5" HANGER STRAP SPACER BRACKETS
Three of these brackets can be used to hang the Spread-All Spreader in a 36" fill opening.

**SA-25 | SA-26**
8" HANGER STRAP SPACER BRACKETS
Three of these brackets can be used to hang the Spread-All Spreader in a 40", 42", 48" or 60" fill opening.

**SA-27**
ADJUSTABLE SPACER BRACKET
These brackets will extend 20" to 60". Six brackets required per spreader.

**SA-30**
TRIANGLE BRACKET
Three of these 1/4" steel brackets can be used to hang the Spread-All Spreader in a 30" fill opening.

Make sure bracket is securely bolted to fill ring or center ring.
1. Grain is not level and grain is hitting bin high on the side walls. Large doughnut shaped ring.
   Tilt the angle of the spreader impeller downward more or change angle back and forth.

2. Grain is high in the center of bin (small doughnut).
   Tilt the angle of the spreader impeller up or more flat, or change back and forth.

3. Grain is high on one side and spout is entering spreader at an angle.
   Correct spout so that grain is dropped directly down and centered so it flows evenly over and around the electric drive motor. Never let grain flow down one side of the hopper or at an angle; this will result in severe shaking of the spreader.

4. Grain is high on one side and spreader is not hanging level in the bin.
   Use a carpenter’s level across the top of the spreader hopper to check it. Block up under one of the hanger straps to get the spreader level if necessary.

5. This is the correct spreading pattern. Grain is slightly depressed in the center, conveyor spout is centered, and the spreader is level.

6. Very Important - The spreader needs to be sized for the input flow rate. Too large of a spreader, too small of a flow rate often leads to an uneven bin and severe shaking of spreader when grain is not centered and under filled.

7. On reversible spreaders, begin filling the bin with the pan rotating counter clockwise (top looking down) and change direction when the spreader no longer reaches or about 3/4 full.
SPREAD-ALL equipment is guaranteed against defective material and workmanship for a period of one year from the date of sale to the original purchaser. We will repair or replace defective parts upon inspection and direction by our service department. No returns for credit allowed. We will not handle warranty on electric motors. Motor warranties will be handled by the motor manufacturers and their repair stations.

We assume no responsibility for any damage incurred in transit or for any other abuses, or incorrect application; nor for any attempted repairs by others without our written authorization. Sender must receive written permission from our factory before returning equipment. All shipping charges to and from the factory on defective units will be assumed by the customer.

Manufacturer shall only be liable under this guarantee if the product is used in the proper manner as specified in the enclosed instructions.

Manufacturer specifically disavows any other representation, warranty or liability related to the condition or use of this product.

The warranties contained herein are the only warranties made by the manufacturer, and no other warranties, express or implied, are given on this product.
**GRAIN STORAGE EQUIPMENT**

**SA-105 & SA-106 SPINNING GRAVITY SPREADER**
- Gravity Spreader designed to help keep fines out of center of smaller bins
- Has strong hanger straps (and a leveling strap)
- Capacity:
  - SA-105: 4000 Bu./Hr.
  - SA-106: 6000-9000 Bu./Hr.
  (Depending on grain and moisture)

**SA-98 GALVANIZED GRAVITY SPREADER**
- To help keep fines from center of small bins
- Light weight 11# (comes unassembled in box)

**ROOF VENTS**
- Models Available | 70 & 90 degree
- Heavy, easily detachable angle base
- Lock seam joints
- Birdproof screen
- 100% galvanized to withstand years of weather conditions
- Symmetrically punched holes make one-person installation a breeze
- Double edges add strength
- Pivot Screen Available

**SPREAD-ALL TRANSITIONS FEATURE:**
- All galvanized steel
- All welded construction
- Completely assembled
- Transitions have access doors
- SA-82 (shown) can be shipped U.P.S.

**FEATUERES:**
- Galvanized
- Models SA-12075 and SA-14100 feature 115 volt, single phase electric motors with plug cords wired
- Standard leg stands and carrying handles
- Zinc plated guards
- Completely factory assembled and test run before shipment
- Magnetic contactor mounted in a weatherproof enclosure on 24" & 28" fans
- Reversible application to pull air down through the grain, or to direct the air flow up through the grain by turning the fan around and reversing guard
- Either the intake or the discharge ends may be mounted to an air duct, metal transition or a flat wall bin
- These fans are designed for quiet, efficient aeration with a minimum of maintenance and operating cost
- Models available 12" to 28"
  So you can get just the right fan to do the job right

**COMPLETE OFFERING OF AERATION FANS**

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**GRAIN STORAGE EQUIPMENT**

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2237 Marshalltown Blvd. • Marshalltown, Iowa 50158
Phone: (641) 753-5601 • Toll Free: 1-800-383-5601 • Fax: (641) 752-9748
www.spread-allmfg.net
**COMPLETE OFFERING OF GRAIN SPREADERS**

**SA-93**  
**SPREAD-ALL SPECIAL**  
For 6" & 8" auger  
- Without reversing switch  
- Capacity: Up to 3000 Bu./Hr.  
  (Depending on grain and moisture)  
- Powered: oil bath gear case  
- Motor: 1/2 HP 115V  
- Weight: 85 lbs  
- Bin diameters 18' to 30'  
- Vary the spread by tilting pan

**SA-94**  
**E-2 COMPACT**  
For 6" & 8" auger  
- With reversing switch  
- Capacity: Up to 3000 Bu./Hr.  
  (Depending on grain and moisture)  
- Powered: oil bath gear case  
- Motor: 1/2 HP 115V  
- Weight: 85 lbs  
- Bin diameters 18' to 36'  
- Reversible switch to change from narrow to wide spread

**SA-95HS**  
**E-2 HIGH SPEED**  
For 6" & 8" auger  
- With reversing switch  
- Capacity: Up to 3000 Bu./Hr.  
  (Depending on grain & moisture)  
- Powered: oil bath gear case  
- Motor: 1/2 HP 115V  
- Weight: 85 lbs  
- Bin diameters: 42' +  
- Reversible switch to change from narrow to wide spread

**SA-93**  
**E-3 COMPACT**  
For 10" auger  
- Without reversing switch  
- Capacity: 3000 to 5000 Bu./Hr.  
  (Depending on grain and moisture)  
- Powered: oil bath gear case  
- Motor: 1/2 HP 115V  
- Weight: 85 lbs  
- Bin diameters: 18' to 30'  
- Vary the spread by tilting pan

**SA-97**  
**E-3 COMPACT**  
For 10" auger  
- With reversing switch  
- Capacity: 3000 to 5000 Bu./Hr.  
  (Depending on grain and moisture)  
- Powered: oil bath gear case  
- Motor: 1 HP 115V  
- Weight: 100 lbs  
- Bin diameters: 18' to 30'  
- Reversible switch to change from narrow to wide spread

**SA-97HS**  
**E-3 HIGH SPEED**  
For 10" auger  
- With reversing switch  
- Capacity: 3000 to 5000 Bu./Hr.  
  (Depending on grain and moisture)  
- Powered: oil bath gear case  
- Motor: 1 HP 115V  
- Weight: 100 lbs  
- Bin diameters: 42' +  
- Reversible switch to change from narrow to wide spread

**SA-103**  
**E-6**  
For 13" auger  
- With reversing switch  
- Capacity: 6000 to 9000 Bu./Hr.  
  (Depending on grain & moisture)  
- Powered: oil bath gear case  
- Motor: 1 HP 115V  
- Weight: 100 lbs  
- Bin diameters: 18' to 36'  
- Reversible switch to change from narrow to wide spread

**SA-104HS**  
**E-6 HIGH SPEED**  
For 13" auger  
- With reversing switch  
- Capacity: 6000 to 9000 Bu./Hr.  
  (Depending on grain and moisture)  
- Powered: oil bath gear case  
- Motor: 1 HP 115V  
- Weight: 100 lbs  
- Bin diameters: 42' +  
- Reversible switch to change from narrow to wide spread

**Note:** 3 phase is also available, please specify voltage when ordering 230V or 460V. We recommend a Reversible Spreader on bins over 30'.