

SPREAD-ALL MFG. CO.

2237 MARSHALLTOWN BLVD. • MARSHALLTOWN, IOWA 50158 PHONE: (641) 753-5601 • TOLL FREE: 1-800-383-5601 • FAX: (641) 752-9748 WWW.SPREAD-ALLMFG.NET

INSTRUCTIONS

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

ASSEMBLY INSTRUCTIONS

- 1. Remove all parts from the carton.
- 2. Bolt the four 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 $5/16 18 \times 5/8$ 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. Add one (1) quart oil (included).
- 6. 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.
- 7. Spreaders with a reversing switch should turn counterclockwise from the top looking down to start filling the bin (narrow spread). Once the bin is ³/₄ full, reverse the spreader to clockwise from the top looking down to finish filling (wide spread).

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 gear case once every 20 hours operating time. The gear case 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 gear case. **DO NOT OVERFILL THE GEAR CASE WITH OIL!** Use #30 SAE Motor Oil in the gear case.

** BEFORE OPERATING SPREADER FILL PROPERLY WITH OIL

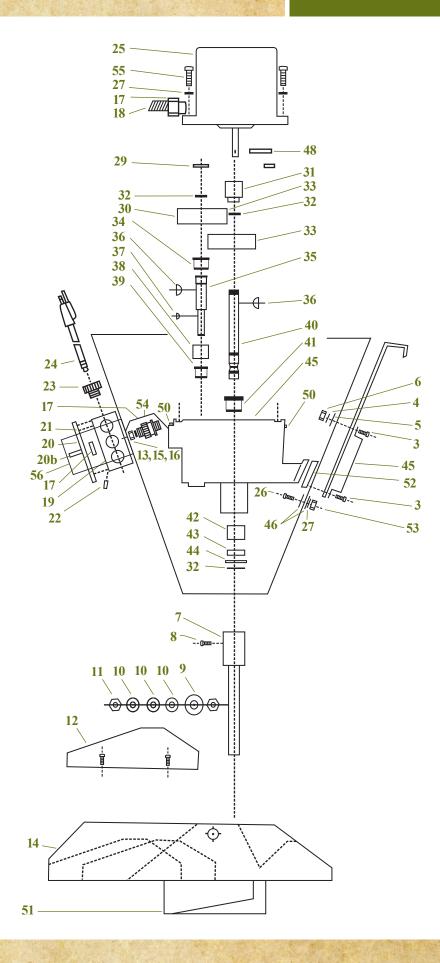
- 1. Use the bottle of oil that is included.
- 2. To put oil in gear case, remove fill plug on top of gear case and oil plug on side of gear case. Pour oil in gear case.
- 3. Replace fill plug and oil level plug in gear case.

"WE BELIEVE IN HIGH QUALITY & GOOD SERVICE."

01-13/INS E2 E3 E6

• PARTS DIAGRAM •

e



01-13/GSPD

• PARTS LIST • E-2, E-3, E-6 SPREADERS

#	Part Description	Qty.	Part #	#	Part Description
# 1a	Cone – Hopper E-2	1	1D0125	41	Bearing Flange 3/4"ID x 1"
2a	Strap – Hanger	2	1B0125	41	Bearing Plain 3/4"ID x 1"
2a 2b	Strap – Adjustable Hanger	2	1A0012	43	Seal Oil 3/4"
20 2c	Bracket – Adjustable Hanger	2	A10012	44	Steel Washer
3	3/8" – 16" x 3/4" Hex Hd Bolt	8	1110015	45	Gearbox Machined
4	3/8" 1D Shakeproof Washer	8		46	5/16 Flat Washer
5	3/8" 1D x 10D Flat Washer	8		48	Pin Roll 3/16" x 3/4"
6	3/8" – 16" Hex Nut	8		49	Carrying Handle
7	Impeller Shaft Assembly E-2	1	1B0136	50	Pipe Plugs Sq Hd 1/4"
8	5/16" – 18 x 1 1/4" Sq Set Screw	1	120120	51	Center Fill Slide
9	1/2" STD Flat Washer	2		53	5/16" Nylock
10	Washer Spring 1/2"	3	1P0039	53	Conduit Cover
10	Nut Lock 1/2" – 13	1	1P0042	55	5/16" x 1 1/8" Cap Bolt
12a	Vane – Spreader	3	1B0141	56	Switchguard
124	1/4-20 x 1/2 Hex Hd Cap Bolt	3	100111	50	Switchiguard
13	Impeller Spreader	1	1D0135		
15	1/4" Lock Washer	3	100133	E-3 Pa	arts
16	1/4"-20" Hex Nut	3		1b	Cone - Hopper E-3
10	Connector Sealtight 3/8"	2	1P0038	7b	Impeller Shaft Assembly E-3
18	Conduit Flexible Sealtight	1	1P0028	12a	Straight Vane - Spreader
10	Handy Box	1	1P0020	12b	Bent Vane - Spreader
20	Cover Handy Box	1	1P0021	52	Rubber Shims
20b	Reverse Switch Assembly	1	1P0022	25c	Motor Electric 1HP 1PH
200	10 x 5/8" Tek Screw	1	11 0025	230	*Hi-Speed Only
22	Wirenut (L/R only)	3		26b	5/16"-18 x 2 Hex Hd Bolt
22	Connector B-x 3/8"	1	1P0024		
24	Plug Cord	1	1P0018	E-6 P	arts
25a	Motor Electric 1/2" HP 1PH	1	1P0069		
25b	Motor Electric 1/3" HP 3PH	1	1P0070	1c	Cone - Hopper E-6
26a	5/16"-18" x 1" Hex Hd Bolt	6		7c 12a	Impeller Shaft Assembly E-6
27	5/16" Lock Washer	2		12a 12b	Straight Vane Spreader Bent Vane Spreader
29	Seal O-Ring	1	1P0029	52	Rubber Shims
30a	Gear Drive 42T Upper	1	1B0132	25c	Motor Electric 1HP 1PH
30b	Gear Drive 40T Hi-Speed	1	1B0138	23C	5/16"-18 x 2 ½ Hex Hd Bolt
31a	Pinion Motor – 12T	1	1B0130	200	5/10 -18 x 2 /2 Hex Hu Bolt
31b	Pinion Motor – 14T Hi-Speed	1	1B0135	Pans	
32	Retaining Ring 3/4"	3	1P0035	E-2	Pan
33	Gear Drive 41T Lower	1	1B0137	E-2 E-3	Pan
34	Bearing Flange 3/4"ID x 5/8"	1	1P0032	E-3 E-6	Pan
35	Shaft Pinion	1	1B0133	E-0	Fall
36	Key Woodruff 3/4"	2	1P0036		
37	Key Woodruff 1/2"	1	1P0037		
38	Pinion Drive 13T	1	1B0131		
39	Bearing Flange 1/2"ID x 3/4"	1	P0033		
40	Shaft Output	1	1B0134		
39	Bearing Flange 1/2"ID x 3/4"	1	P0033		

1B0126	
1B0139	
1B0140	
	01-13/GS E2 E3 E6 PL

Qty.

1

1

1

1

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12

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1

6

1

2

1

1

1

2

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3

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3

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Part # 1P0012

1P0034

1P0031

1D0128

1P0040

1A0160

1B0162

C Cover

1D0126

1B0143

1B0141

1B0142

1RS001

1P0072

1D0127

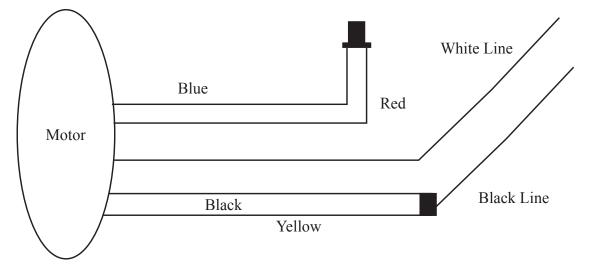
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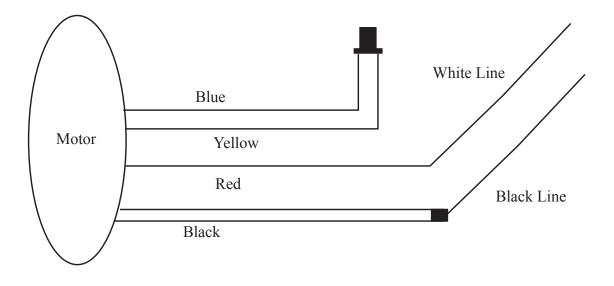
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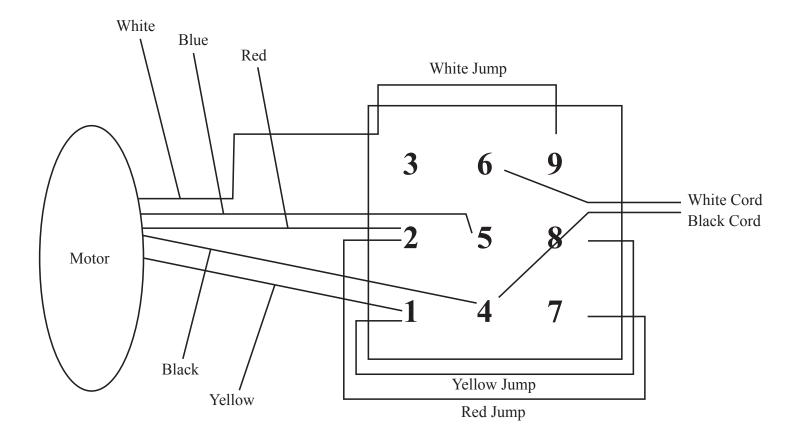
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THROWING DIRECTION



LIFTING DIRECTION



 Switch Jumps 	 Motor Connections • 	• Cord •
3-9 White Jump	White - 3	Black - 4
2-7 Red Jump	Red - 2	White - 6
1-8 Yellow Jump	Yellow - 1	Green - Cover Screw
	Blue - 5	
	Black - 4	

Assembly of: Hanger Strap Spacer Brackets (Optional)





SA-24 5" HANGER STRAP SPACER BRACKETS

Four of these brackets can be used to hang the Spread-All Spreader in a 36" fill opening.

SA-25 8" HANGER STRAP SPACER BRACKETS

Four of these brackets can be used to hang the Spread-All Spreader in a 40", 42", or 48" fill opening.

SA-26 8" HANGER STRAP SPACER BRACKETS

Eight of these brackets can be used to hang the Spread-All Spreader in a 60" fill opening.

SA-27 ADJUSTABLE

SPACER BRACKET

These brackets will extend 20" to 60". Eight brackets required per spreader. Sold as a set of 2.

Roof Sheet

SA-30 TRIANGLE BRACKET

Four of these 1/4" steel brackets can be used to hang the Spread-All Spreader in a 30" fill opening. *4 of these brackets come with each spreader*.



Make sure bracket is securely bolted to fill ring or center ring.

Part #1B0125

Part #SA-24 or SA-25

MARILLULL

Fill Ring • SA-30 Triangle Bracket

11-15/GSHSSB

• **TROUBLE SHOOTING** •

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 DOWN-WARD 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 underfilled.
- 7. On reversible spreaders, begin filling the bin with the pan rotating counterclockwise (top looking down) and change direction when the spreader no longer reaches or about 3/4 full.



1. IMPELLER ANGLE TOO FLAT



2. IMPELLER ANGLE TOO STEEP



3. AUGER SPOUT AT AN ANGLE



4. SPREADER TILTED



5. CORRECT SPREADING PATTERN

MAIL GUARANTEE CARD TODAY

(MAIL WITHIN 10 DAYS OF PURCHASE OR GUARANTEE IS VOID)

Owner			
Street or Route			
City	State	ZIP/Zone	
Dealer's Name		Model#	
Address		Serial#	
Date of Purchase			

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. Spread-All does not cover labor costs or milage charges on warranty or non-warranty work.

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. Any warranty contained herein shall not apply to any product which shall have been repaired or altered outside the manufacturer's facilities or in any way so as, in the manufacturer's judgment, to affect its stability or reliability, or which has been subject to misuse, negligence or accident. Warranties shall not apply to any product which shall not have been operated in accordance with the printed instructions or shall have been operated beyond the rate of capacity of the product.

Please complete and mail within 10 days of purchase to:

SPREAD-ALL MFG. CO. 2237 MARSHALLTOWN BLVD. MARSHALLTOWN, IOWA 50158-9892



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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: 3000-5000 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
- Lightweight 18# (Comes unassembled in box)

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

ROOF VENTS

SPREAD-ALL TRANSITIONS FEATURE:

- All galvanized steel
- All welded construction
- Completely assembled
- Transitions have access doors
- SA-82 (shown)

COMPLETE OFFERING OF AERATION FANS





FEATURES:

- Galvanized
- Models SA-12075 and SA-14100 feature 115 volt, single phase electric motors with plug cords wired
- Standard leg stands and carrying handles
- Weather-resistant guard
- 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
- 01-13/GSE AF

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-96 **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 36'
- 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)

OUR MOST POPULAR

MODEL!

- 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-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 and 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

11-15/GSCO