

2170 COMMERCIAL BROADCAST SPREADER

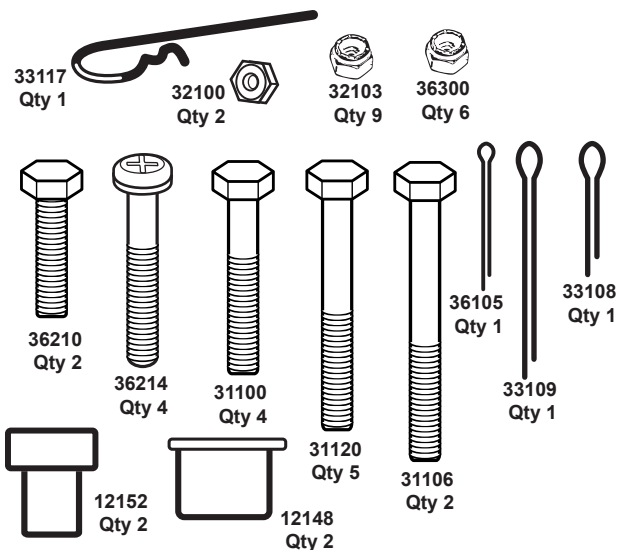
ASSEMBLY and OPERATING INSTRUCTIONS Rev. 3-10

EarthWay
EV-N-SPRED
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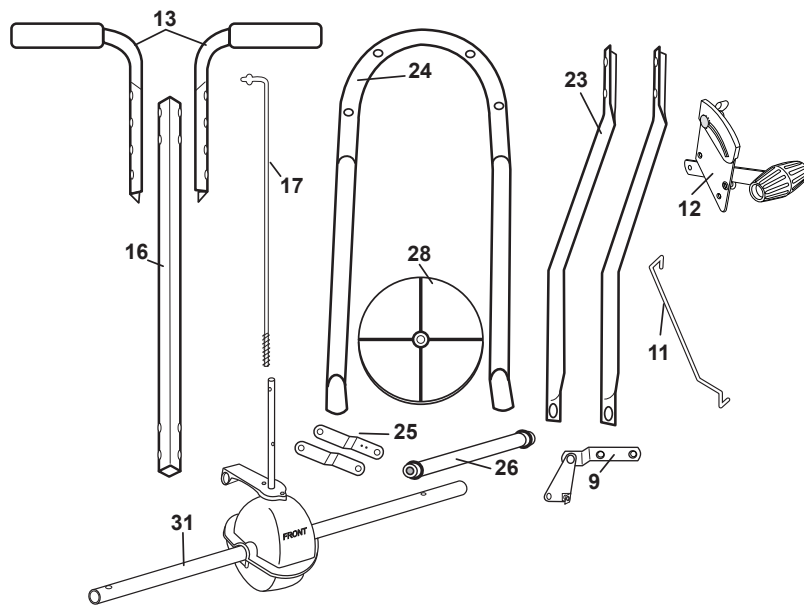
PLEASE CALL IF YOU ARE MISSING ANY PARTS, HAVE ANY DIFFICULTY IN ASSEMBLY, OR HAVE ANY QUESTIONS REGARDING THE SAFE OPERATION OF THIS SPREADER. THIS MODEL INCLUDES **LIFETIME TECHNICAL SUPPORT** SUPPORT HOT LINE: 574-848-7491 or 800-294-0671, EMAIL: TECHSUPPORT@EARTHWAY.COM SKYPE: EARTHWAY.TECH

HELPFUL HINTS: READ THE DIRECTIONS BEFORE ASSEMBLY

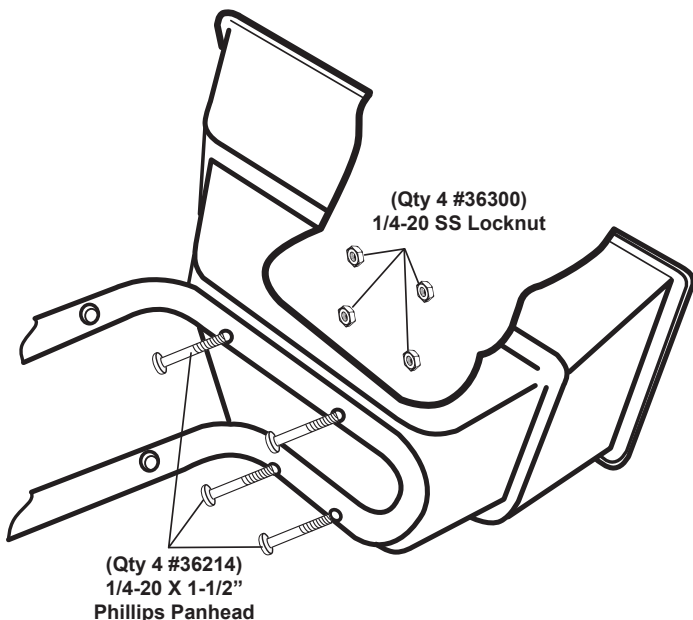
- ☑ If your spreader does not spread evenly, be sure the FRONT on the gear box points to the front of the spreader. The impeller must turn clockwise. Reversing the gearbox will cause the impeller to turn counter clockwise. Clean the impeller plate after each use. Fertilizer stuck on the impeller blades will cause uneven spreading.
- ☑ Your spreader is designed to be pushed at three miles per hour, which is a brisk walking speed. Slower or faster speeds will change the spread patterns. Wet fertilizer will also change the spread pattern and flow rate. Clean and dry your spreader thoroughly after each use. A coating of light spray oil on all metal parts inside & out will help prevent corrosion. Wash between the shut off plate and bottom of the hopper. **Do not use powdered materials.**
- ☑ Gears are permanently lubricated at the factory. Do not open the gearbox or dirt may enter.



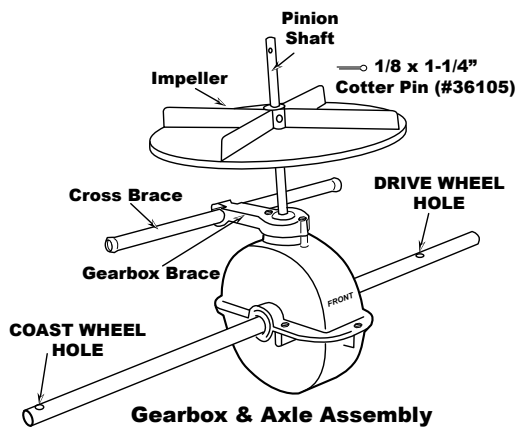
**ROCK SALT AND POWDERED MATERIALS
SHOULD NOT BE USED IN THIS SPREADER AS
IT WILL DAMAGE GEARBOX AND CAN VOID
WARRANTY.
USE ONLY GRANULAR MATERIALS.**



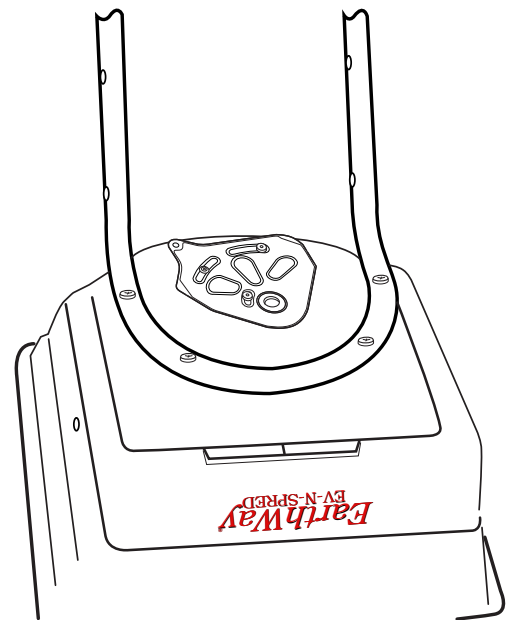
1. Remove and identify all loose parts from carton.



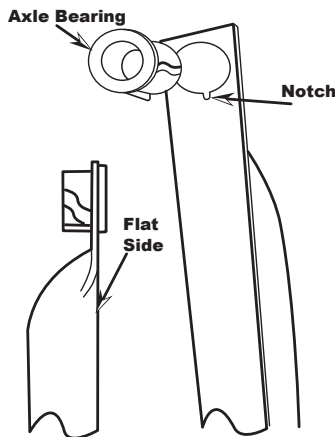
2. Position hopper on side. Install frame using (4) 1/4-20 x 1-1/2" Pan Head Phillips bolts and (4) 1/4-20 nylon insert locknuts. First put bolts through holes in frame then through holes in bottom of hopper. Secure with locknuts. **TIGHTEN THESE LOCKNUTS NOW - DO NOT TIGHTEN WITH POWER TOOLS.**



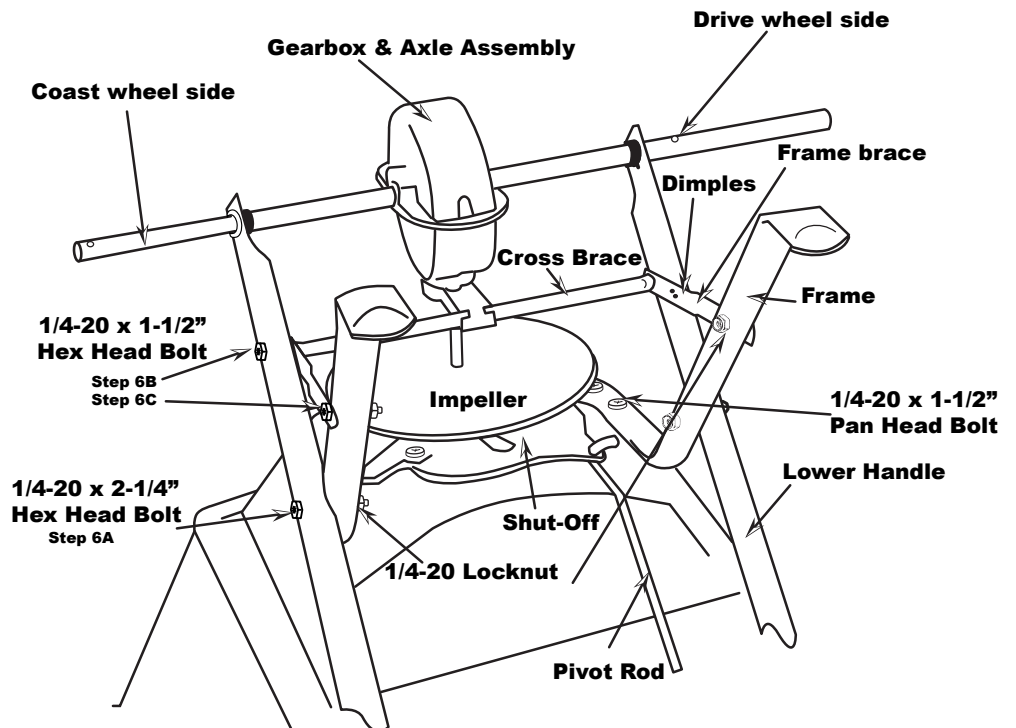
3. Install impeller onto pinion shaft. Insert 1/8" x 1 1/4" cotter pin through impeller then through pinion shaft. Use hole closest to the gear box. Spread cotter pin to prevent from falling out. Next insert Cross Brace thru the Gearbox Brace as shown above.



4. Install gear box by inserting the pinion shaft into hole in center of hoppers bottom. The word "FRONT" on the gearbox must point to Front of the hopper. Follow label instructions on hopper.

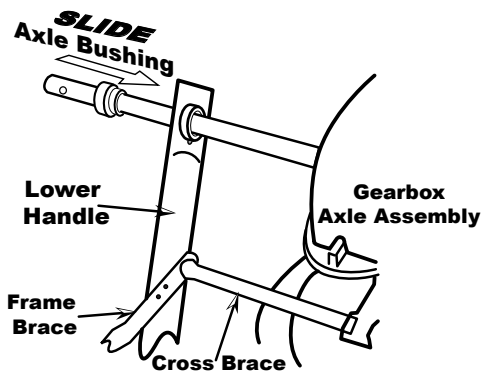


5. Install axle bearings to both lower handles. **NOTE:** Notch on bearings and lower handles. Bearings must go through flat side of lower handle.



6. **A** - Install lower handles onto axle to both sides as shown. Insert 2 1/4" bolt through second hole in lower handle and through first hole in frame install locknut. **DO NOT TIGHTEN.**
B - Now insert 1 1/2" bolt through first hole in lower handle. Then through frame brace. **NOTE:** Dimples on frame brace must be facing toward gear box as shown. Next into threaded connector in cross brace. **DO NOT TIGHTEN.**
C - Next insert 1 1/2" bolt through other end of frame brace and through second hole in frame install locknut.

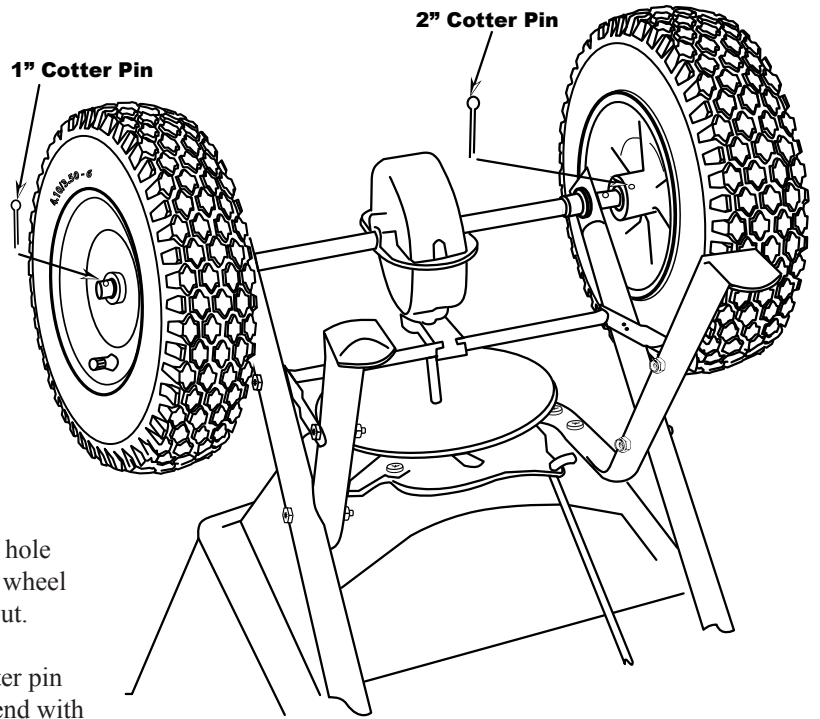
NOW GO BACK AND TIGHTEN ALL NUTS AND BOLTS STARTING WITH FIRST STEP. DO NOT OVER TIGHTEN.



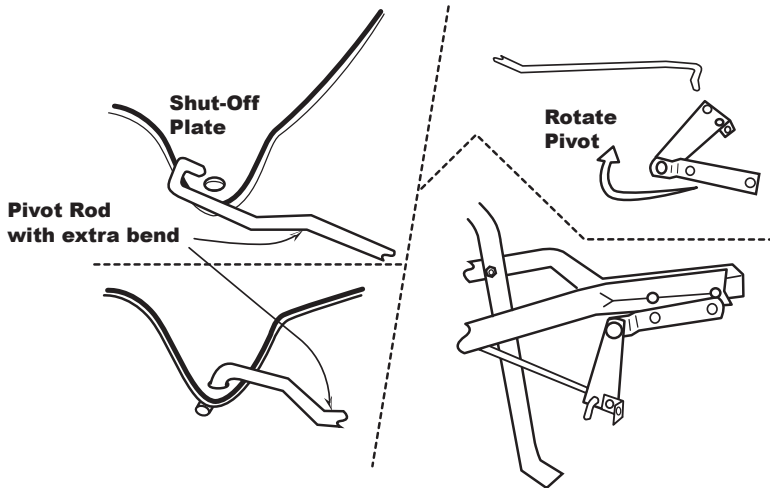
7. Slide axle bushing over axle and into axle bearing to both sides as shown.

8. Install drive wheel onto the axle and align with the cotter pin hole nearest to lower handles as shown. Insert 2" cotter pin through wheel and through axle. Bend with pliers to prevent pin from falling out.

9. Install coast wheel onto the axle fully, then using outside cotter pin hole, insert 1" cotter pin through axle (**not thru the wheel**). Bend with pliers to prevent pin from falling out.



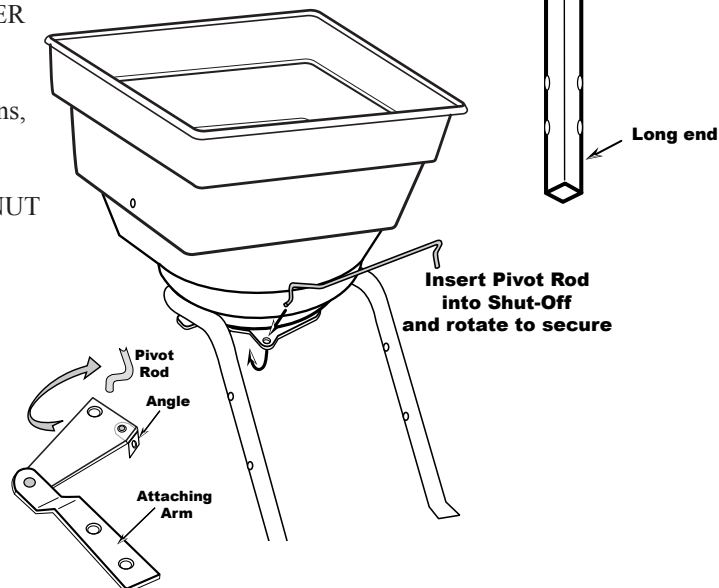
TURN SPREADER UPRIGHT ON TO WHEELS.



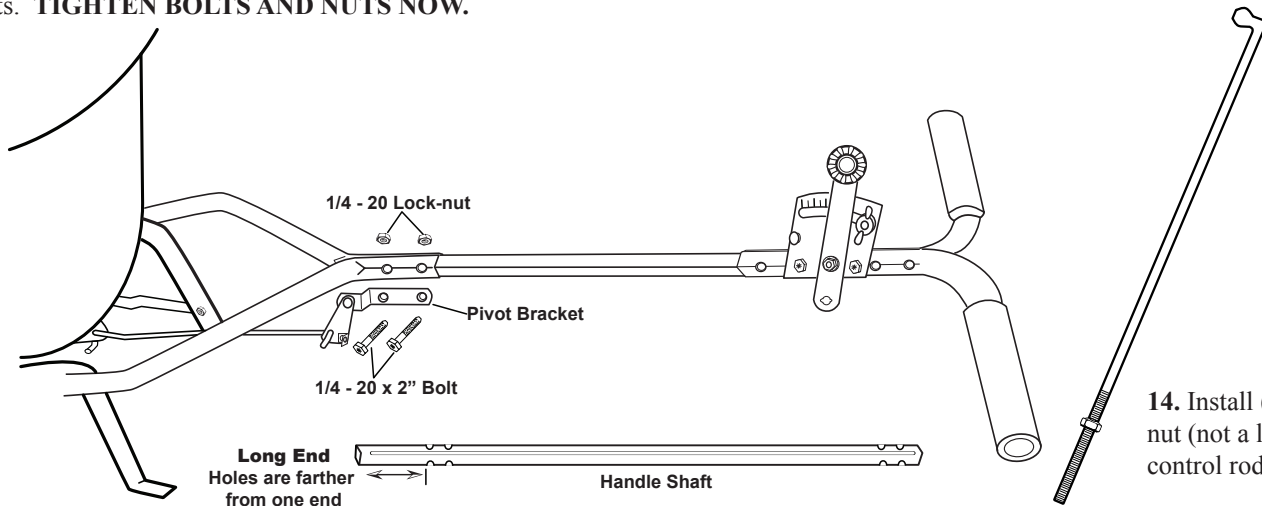
10. **NOTE:** BEFORE INSTALLING GAUGE AND UPPER HANDLES TO HANDLE SHAFT, UPPER HANDLES FEATURE THREE POSITIONS FOR OPERATOR'S COMFORT. If operator chooses middle or upper positions, use handle spacer in hole nearest to handle grips. Insert 2" bolt through upper handle, then through handle spacer through other upper handle. **DO NOT TIGHTEN LOCKNUT YET. TIGHTEN THIS NUT LAST.** Install gauge & lever using (2) 2" bolts. Be sure gauge is on left hand side. Tighten locknuts on the gauge first. **TIGHTEN NOW.**

11. Next insert the pivot rod into shut off plate as shown, with the **DOUBLE BEND** is closest to the shut-off. Turn to lock in place.

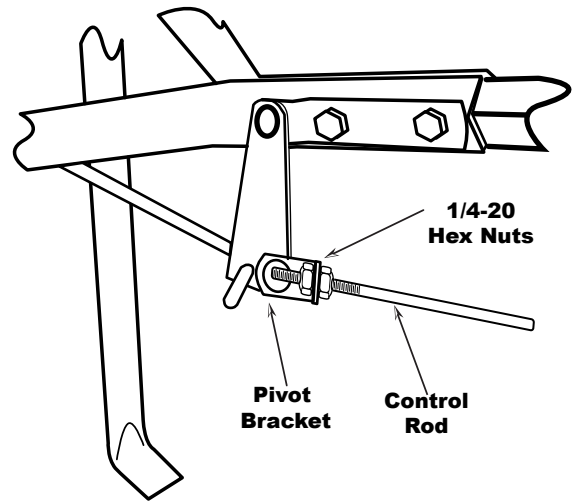
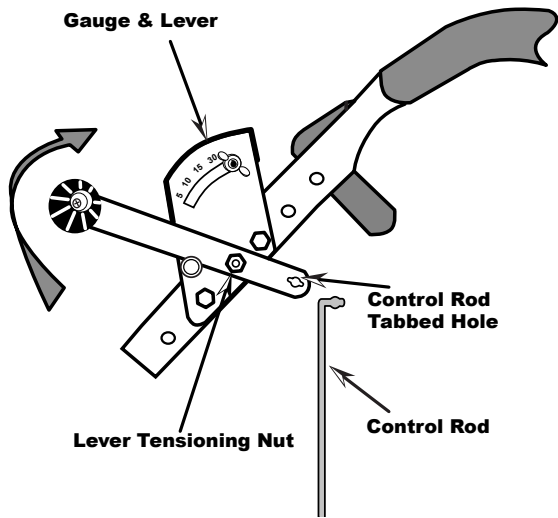
12. Insert other end of pivot rod into pivot and bracket assembly as shown. Turn to lock in place.



13. Install handle shaft to lower handles and pivot & bracket assembly as shown. Using 1/4 -20 x 2” bolts and locknuts. **TIGHTEN BOLTS AND NUTS NOW.**



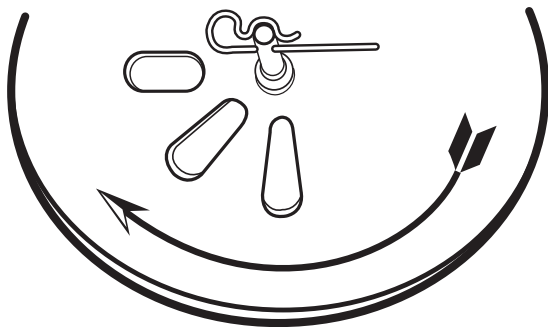
14. Install (1) 1/4-20 Hex nut (not a locknut) on to control rod as shown.



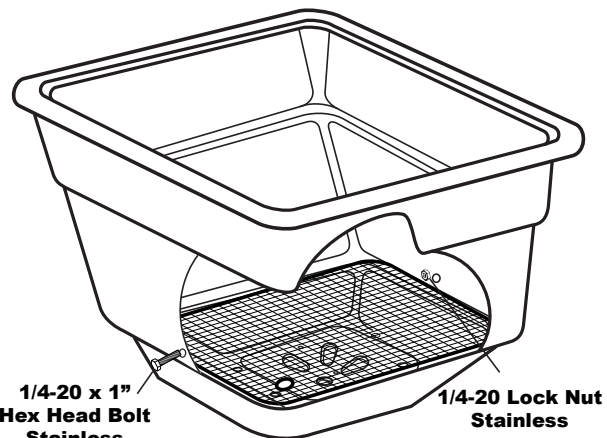
15. Install flattened end of control rod in to lever on gauge as shown. Turn to lock in place. Next push lever forward to setting “0”. Align control rod with hole in pivot bracket, pull lever backward to insert control rod through hole in pivot bracket. Now install 1/4-20 Hex nut on to control rod.

16. Pull lever back to setting “30” as shown. Next push pivot & bracket forward so that the shut off plate in the hopper is in the full open position. **REMEMBER SETTING “30” ON THE FLOW CONTROL LEVER MUST PLACE THE SHUT-OFF PLATE IN THE FULL OPEN POSITION TO BE PROPERLY CALIBRATED.** Now tighten the nuts against the pivot bracket to prevent change in calibration.

17. Tension on the flow control lever may be adjusted by tightening or loosening the tension nut as shown.



18. Insert agitator to pinion shaft on inside of hopper. **Note:** the position of flat side of the agitator. This pin should be installed as shown.



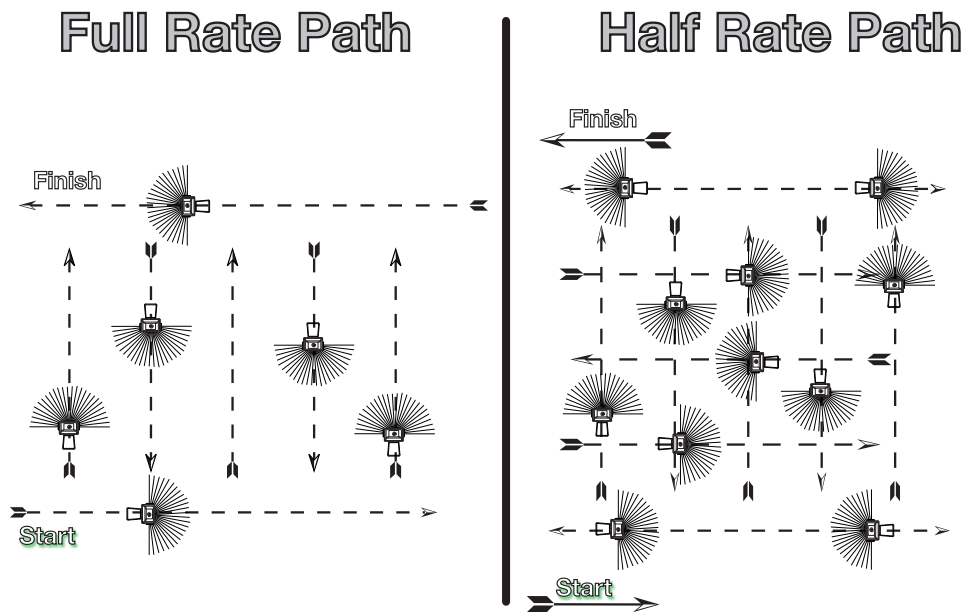
19. Install debris screen into hopper, then insert 1/4-20 x 1” Stainless Steel Hex Bolt thru the hole in the side wall of the hopper. Secure with Stainless Steel lock nut - **TIGHTEN WITH HAND TOOLS ONLY**

OPERATING INSTRUCTIONS

Before filling hopper, become familiar with the operation of this spreader.

- Obtain proper setting for material to be used from the enclosed SETTING MATRIX included with this spreader, or from our web site under the MANUALS SECTION.
- Move stop bolt on rate gauge assembly to the proper setting.
- While pushing spreader forward, pull control lever back to stop bolt.
- To stop, push lever forward to close flow holes before you stop moving.
- When finished, empty any remaining material from hopper.
- Thoroughly wash spreader and allow to dry before storing. A coating of light oil will help prevent corrosion.
- If you must use Rock Salt, Remove agitator when using Rock Salt to prevent damage to the gearbox.

The settings furnished on the Rate Setting Matrix are intended as a guide only. Variations in physical characteristics of material applied, walking speed, and roughness of ground surface may require slightly different spreader settings. Due to the above conditions, the manufacturer makes no warranty as to the uniformity of coverage actually obtained from the settings listed.



HOW TO ORDER SPARE PARTS

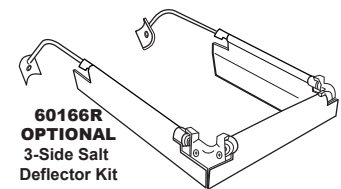
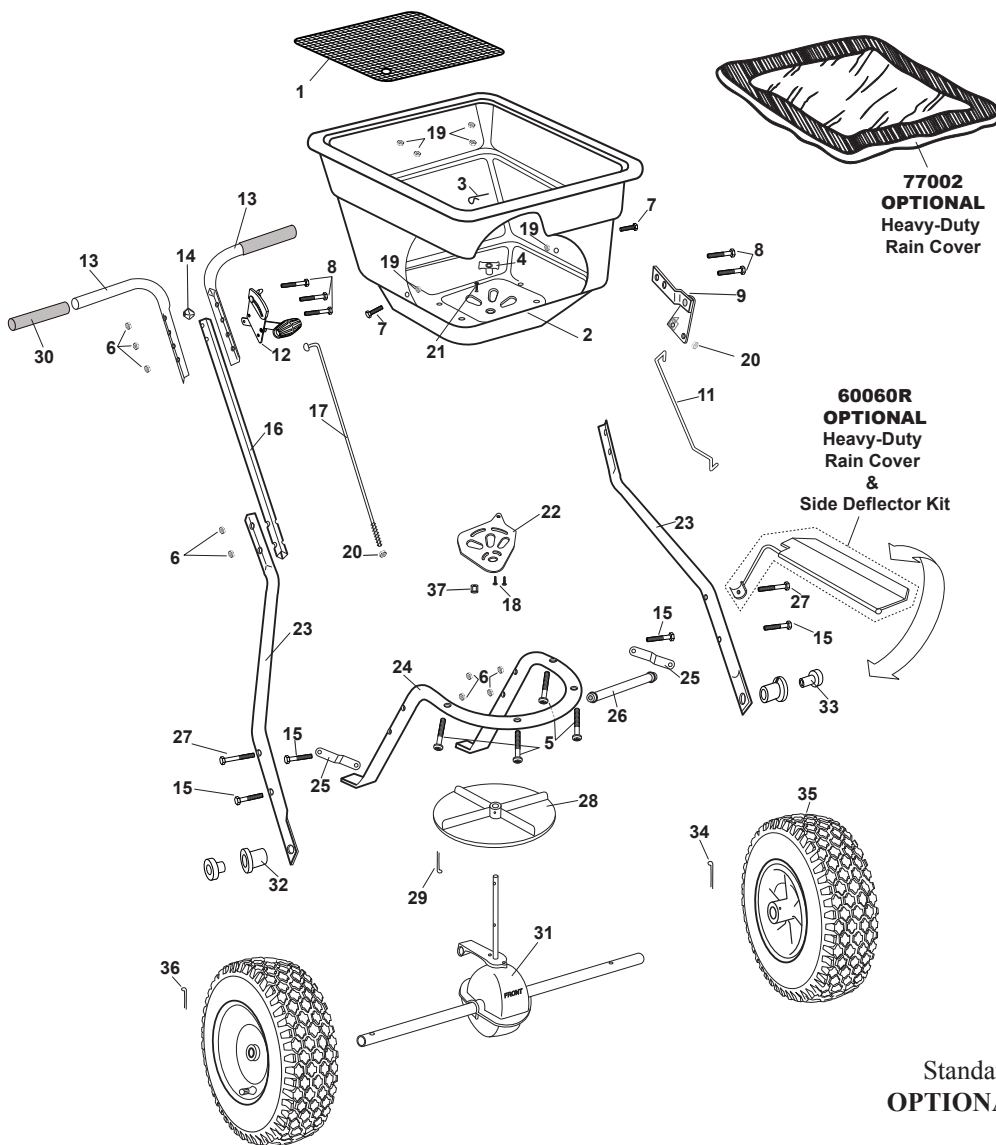
All spare parts listed herein may be ordered direct from the manufacturer. Be sure to give the following information when ordering.

- Model Number
- Part Number
- Part Description

You can contact us by calling (574) 848-7491 or 800-294-0671 to place an order with a credit card.

Questions? Parts@earthway.com

EarthWay Products, Inc.
P.O. Box 547
Bristol, IN 46507
Phone: 800-294-0671
www.earthway.com



Standard Settings (12196) Gauge Overlay and
OPTIONAL Lesco Settings (12195) Gauge Overlay

2170 BROADCAST SPREADER ~ Parts List

KEY #	PART #	DESCRIPTION	KEY #	PART #	DESCRIPTION
1	40003	SQUARE SCREEN	22	12317	SHUT OFF PLATE (BLACK)
2	60335	HOPPER ASSEMBLY	23	25222	LOWER HANDLE Square
3	33117	AGITATOR	24	25106	FRAME
4	12209	HOPPER BUSHING	25	44249	FRAME BRACE
5	36214	1/4-20 X 1 1/2" PHPMS SS	26	24704	CROSS BRACE (11.25")
6	32110	1/4-20 LOCK NUT ZINC	27	31106	1/4-20 X 2 1/4" HHCS ZINC
7	36210	1/4-20 X 1" HHMS SS	28	12109	IMPELLER (9" DIA)
8	31120	1/4-20 X 2" HHCS ZINC	29	36105	1/8" X 1 1/4" COTTER PIN SS
9	60300	PIVOT & BRACKET ASSEMBLY	30	12274	GRIP 7.5" LONG
10	32103	1/4-20 NYLON INS LOCKNUT ZINC	31	60334	GEAR BOX & AXLE ASS'Y
11	44251	PIVOT ROD	32	12148	AXLE BEARING
12	60298	GAUGE & LEVER ASSEMBLY	33	12152	AXLE BUSHING
13	60175	UPPER HANDLE Square w/GRIP	34	33109	3/16" X 2" COTTER PIN ZINC
14	12344	HANDLE SPACER Square Shaft	35	70138	PNEUMATIC DRIVE/COAST WHEEL STUD
15	31100	1/4-20 X 1 1/2 HHMS ZINC	37	33108	3/16" X 1" COTTER PIN ZINC
16	25223	HANDLE SHAFT Square	38	11927	SHUTOFF SUPPORT- LARGE
17	42256	CONTROL ROD	OPTIONAL	60060R	SIDE DEFLECTOR AND RAIN COVER
18	31138	#8 X 3/8" PMT #8 HD COARSE BLACK	OPTIONAL	77002	HEAVY DUTY RAIN COVER 19"X 19"
19	36300	1/4-20 NYLON INSERT LOCKNUT SS	OPTIONAL	12195	GAUGE OVERLAY- LESCO
20	32100	1/4-20 HEX NUT ZINC		12196	GAUGE OVERLAY- EARTHWAY
21	36208	#6 X 3/8" TYPE 25 PHPS SS			