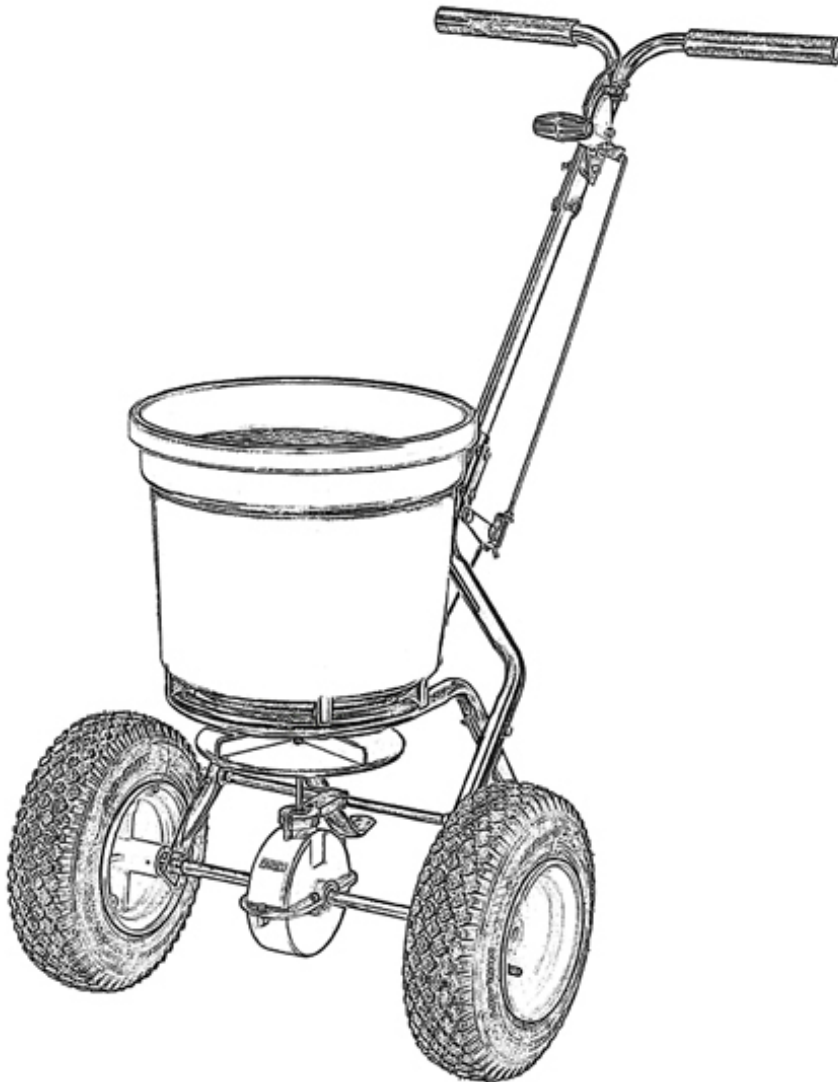


COMMERCIAL BROADCAST SPREADER

Model: 2150

SSC ASSEMBLY & OPERATION



HELPFUL HINTS

- + If your spreader does not spread evenly, be sure "FRONT" on the GEAR-BOX points to the front of the spreader. The impeller must turn clockwise when pushing forward. 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. **Clean and dry your spreader thoroughly after each use.** Coat all metal surfaces (pay special attention to the inside & outside of tubing - it's easiest to do while assembling) with light oil, Fluid Film® or silicon spray to help prevent corrosion. Wash between the shut off plate and the 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 & POWDERED MATERIALS SHOULD NOT BE USED

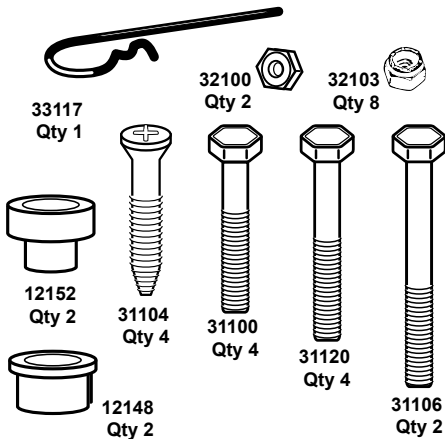
in this spreader as it will damage gearbox and can void warranty.

USE ONLY GRANULAR MATERIALS

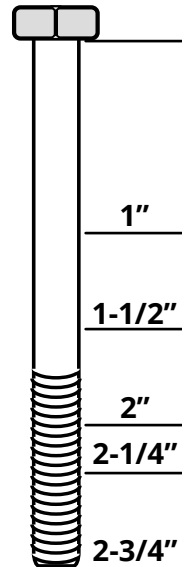
ASSEMBLY

1

Remove and identify all loose parts from carton.

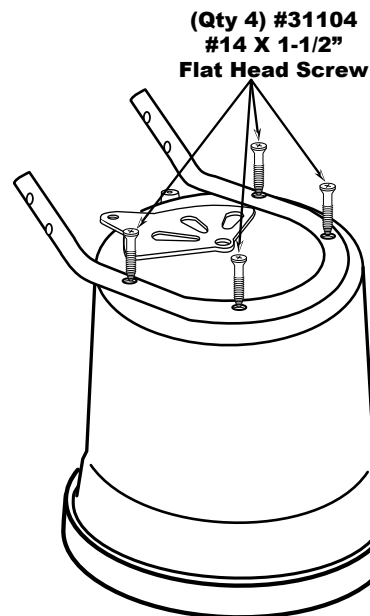


BOLT IDENTIFIER



2

Position hopper as shown at the right.
Install FRAME using (4) #14 x 1½" Flat Head Phillips screws. **TIGHTEN THESE NOW.**

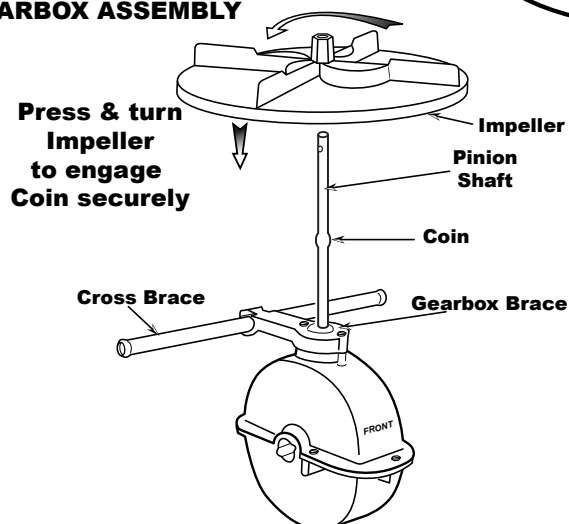


3

Install impeller onto pinion shaft by pressing the impeller as shown onto the pinion shaft and turning the impeller while holding the pinion shaft to engage with the COIN fully, and press down to secure.

Next, insert Cross Brace thru the Gearbox Brace as shown to the right.

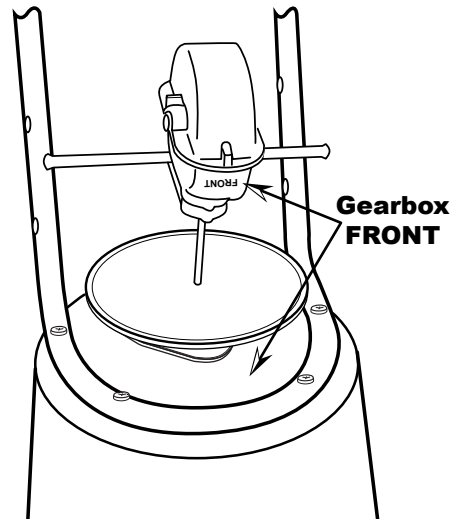
GEARBOX ASSEMBLY



ASSEMBLY

4

Install gearbox by inserting the pinion shaft into hole in center of hopper's bottom. The word "FRONT" on the gearbox must point to Front of the hopper. The EarthWay logo is on the front of the hopper.



5

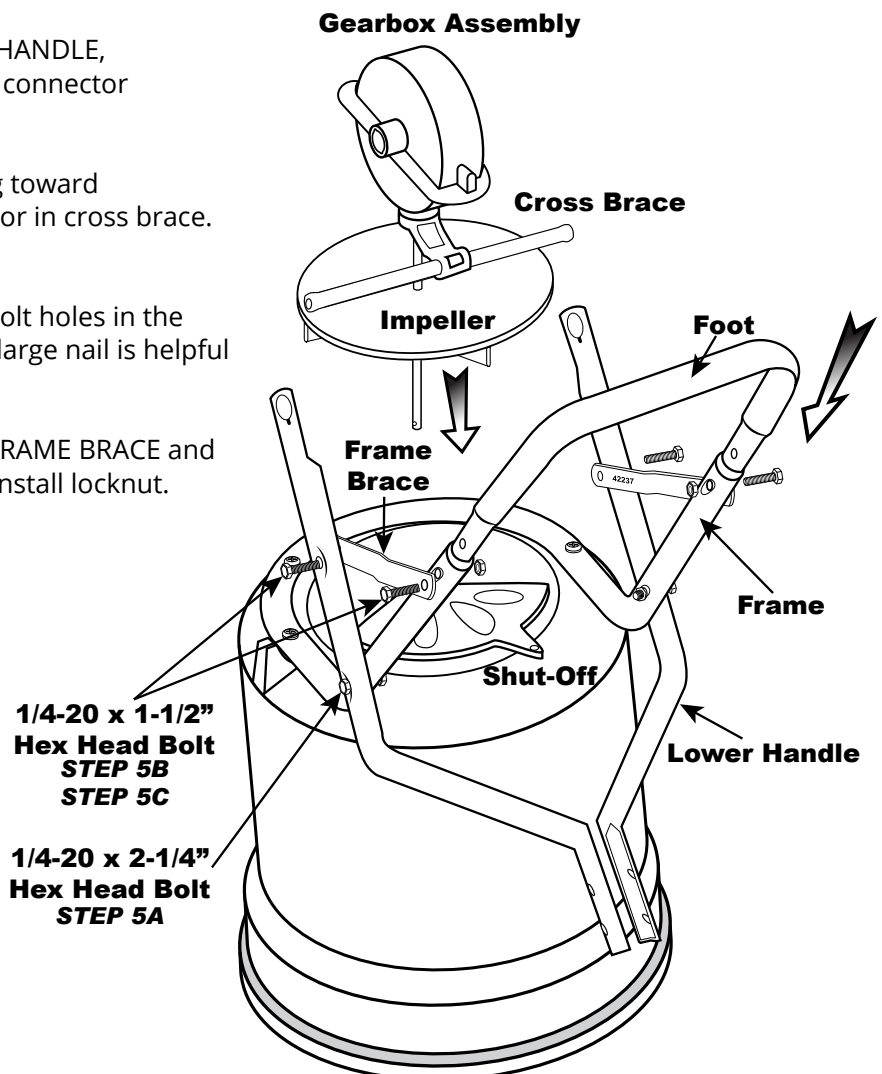
A - Install LOWER HANDLES onto FRAME to both sides as shown. Insert $2\frac{1}{4}$ " bolt through hole in LOWER HANDLE and through hole in FRAME install locknut. **DO NOT TIGHTEN.**

B - Now insert $1\frac{1}{2}$ " bolt into the hole in LOWER HANDLE, then through FRAME brace. Next into threaded connector in CROSS BRACE.

NOTE: Numbers on frame brace must be facing toward gear box as shown. Next into threaded connector in cross brace. **DO NOT TIGHTEN.**

Install the FOOT into the FRAME and align the bolt holes in the FOOT and the FRAME (a Phillips screwdriver or large nail is helpful to align the parts)

C - Next insert $1\frac{1}{2}$ " bolt through other end of FRAME BRACE and through hole in FRAME through the FOOT and install locknut.



ASSEMBLY

6

Slide AXLE into the LOWER HANDLE, then the GEAR-BOX and into the other LOWER HANDLE as shown at right. Next, install AXLE BEARINGS over the AXLE and into both LOWER HANDLES as shown at right. NOTE: Tab on BEARINGS and notches in the LOWER HANDLES you need to align. Now slide the BUSHINGS over the AXLE (as shown at right) and into the BEARINGS.

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

7

Install DRIVE WHEEL onto the AXLE and align with the cotter pin hole nearest to LOWER HANDLE as shown. Insert 2" cotter pin through wheel and through AXLE. Bend with pliers to prevent pin from falling out.

8

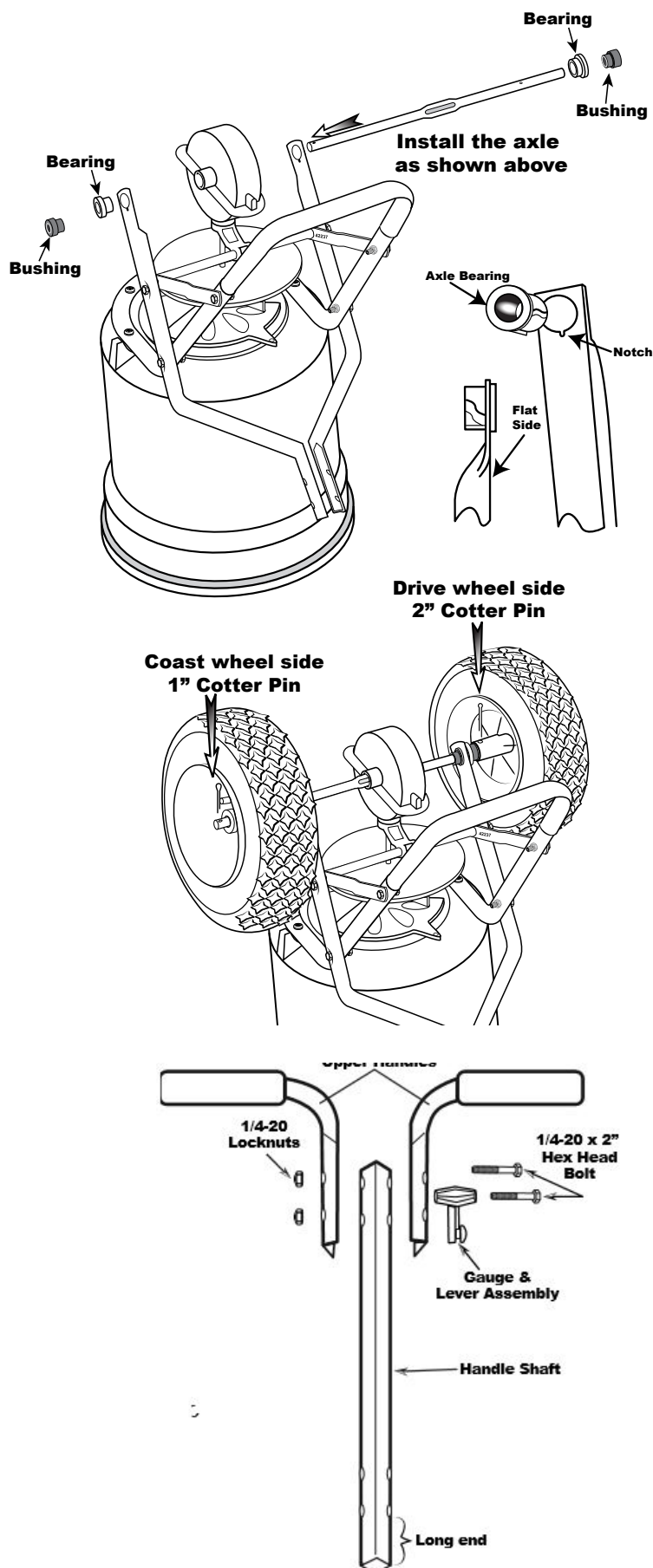
Install COAST WHEEL onto the AXLE fully, then using outside cotter pin hole, insert 1" cotter pin through AXLE (not thru the wheel). Bend with pliers to prevent pin from falling out.

TURN SPREADER UPRIGHT ON TO WHEELS.

9

Insert 2" bolt through Gauge & Lever assembly, next through upper handle, then the handle shaft and then the other upper handle and secure with locknut.

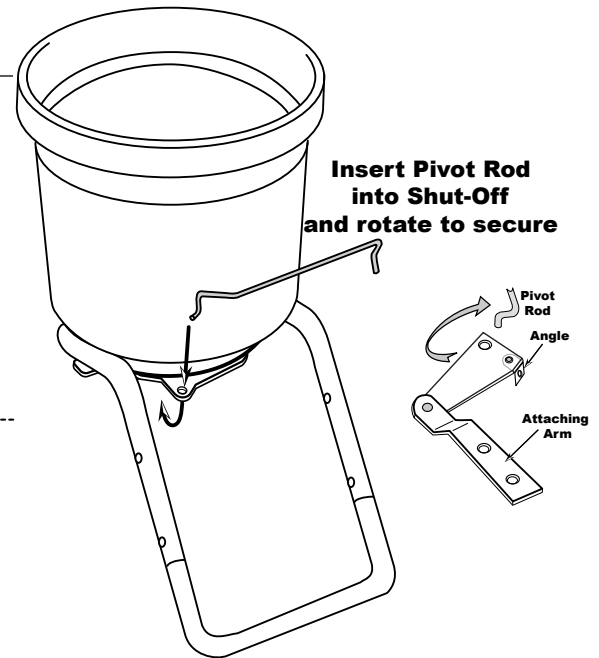
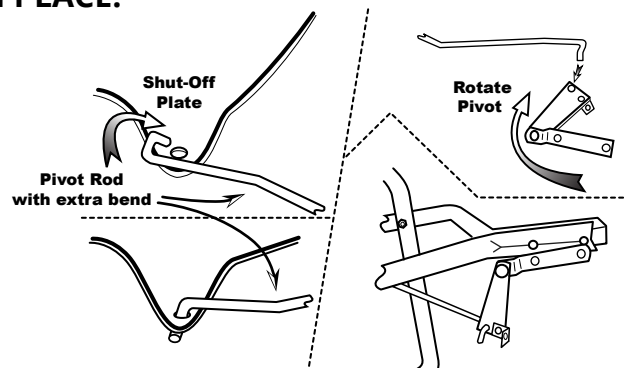
TIGHTEN ALL HARDWARE NOW



ASSEMBLY

10

Insert pivot rod into shut-off plate as shown below. **TURN TO LOCK IN PLACE.**



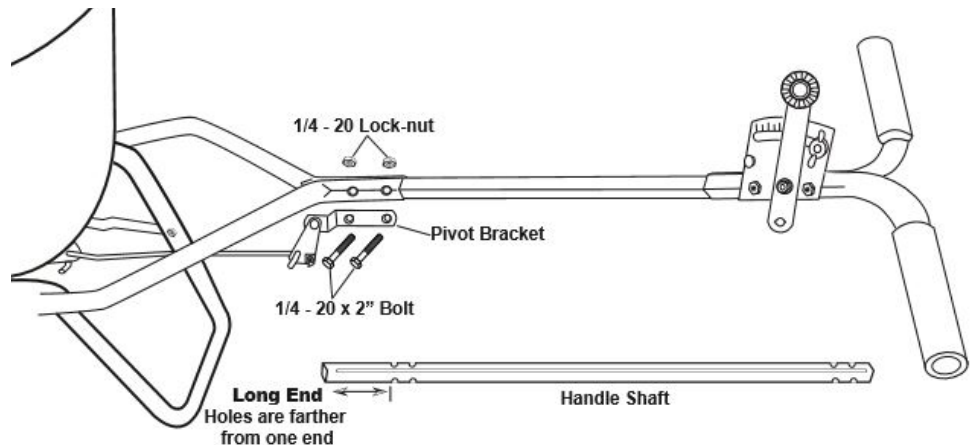
11

Insert other end of pivot rod into pivot and bracket assembly as shown as shown above. **TURN TO LOCK IN PLACE.**

12

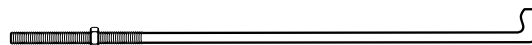
Install HANDLE SHAFT to LOWER HANDLES and PIVOT & BRACKET assembly as shown. Using 2" bolts and locknuts.

TIGHTEN BOLTS & NUTS NOW.



13

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

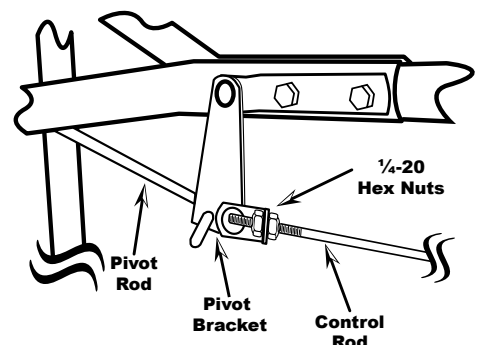
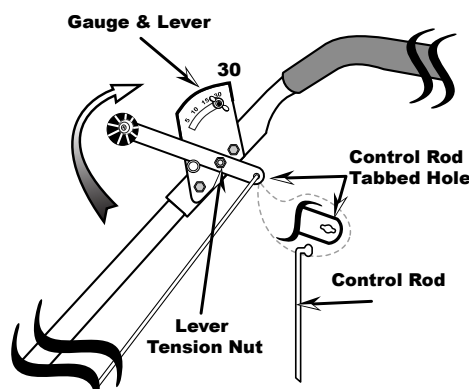


14

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 regular nut on to CONTROL ROD.



CALIBRATION

15

Pull lever back to setting "30" on gauge and lever assembly. 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.

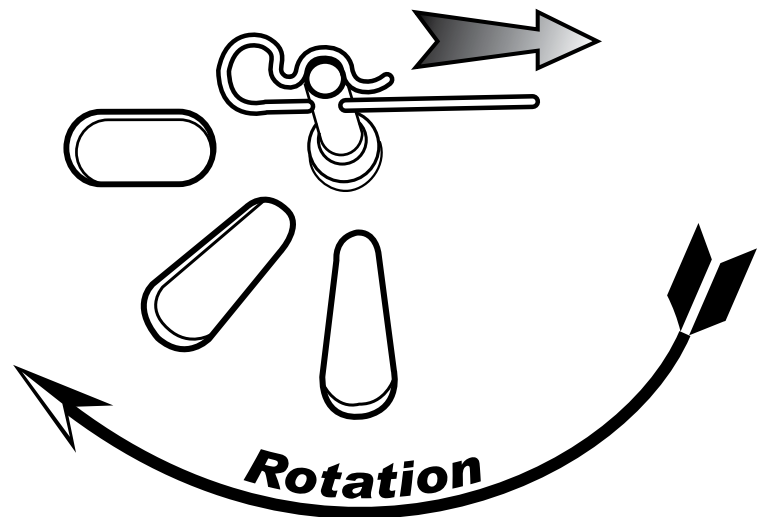
16

Tension on the flow control LEVER may be adjusted by tightening or loosening the tension nut on gauge and lever assembly.

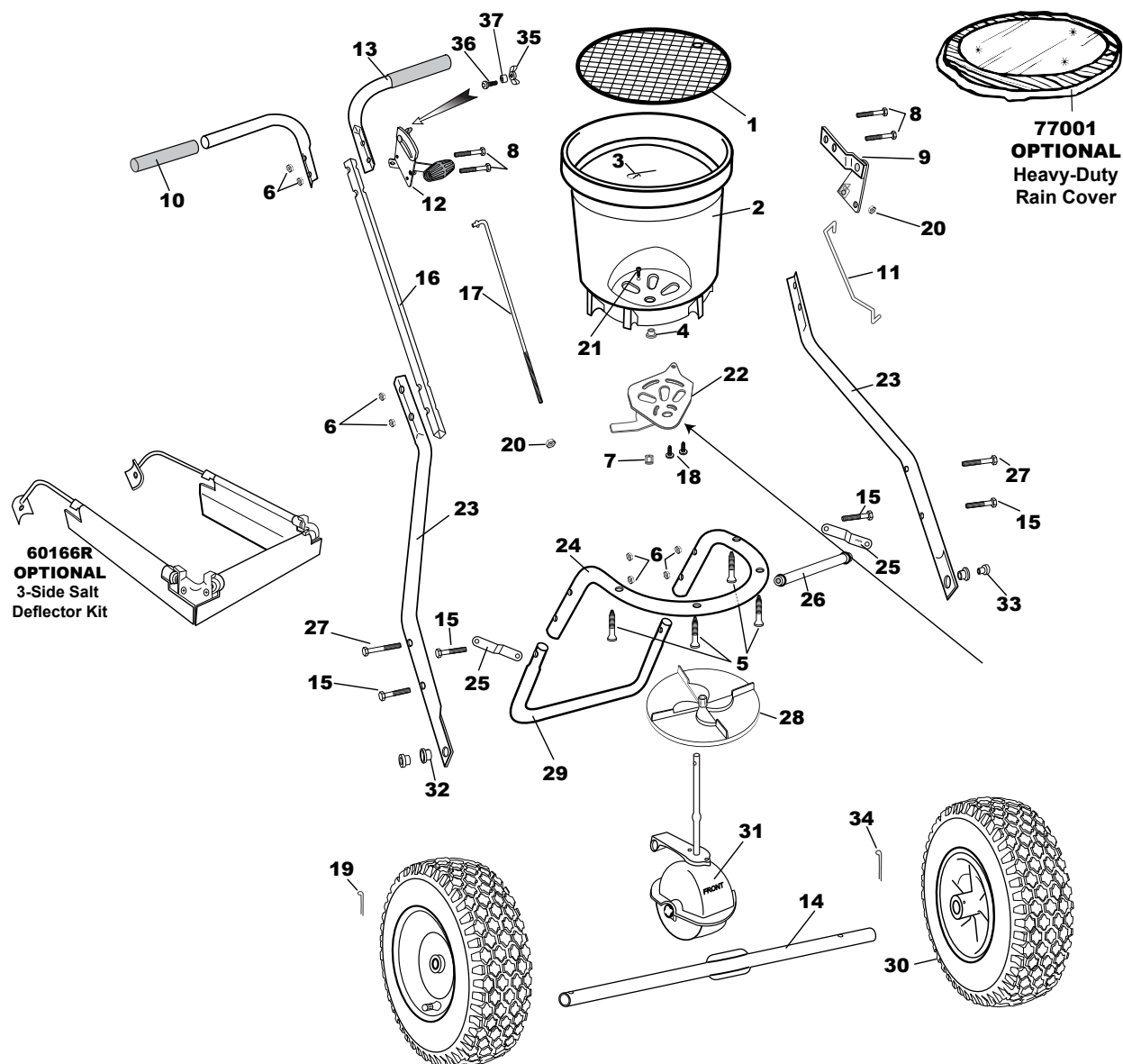
17

Insert agitator into pinion shaft on inside of hopper.

NOTE: the position of flat side of the agitator in the drawing. The agitator should be installed as shown.



PARTS



KEY #	PART #	DESCRIPTION	KEY #	PART #	DESCRIPTION
1	40002	ROUND SCREEN	21	36208	#6 X 3/8" TYPE 25 PHPS S.S.
2	60332	HOPPER ASSEMBLY (2150/2150T)	22	12317SSC	New SSC SHUT OFF PLATE
3	33117	AGITATOR	23	25222	LOWER HANDLE SQ (2150's/2170's)
4	12220	GEAR BOX BUSHING (2050)	24	25108	FRAME (2150,2170,C22,C24,C25,F-Series)
5	31104	#14 X 1 1/2 TYPE 25 FHPS ZINC	25	44249	FRAME BRACE (2150/2170)
6	32103	1/4-20 NYLON INS LOCKNUT ZINC	26	25228	CROSS BRACE (2150/2170/S25) 11.25 REV908
7	11927	SHUTOFF SUPPORT- LARGE	27	31106	1/4-20 X 2 1/4" HHCS ZINC
8	31120	1/4-20 X 2" HHCS ZINC	28	12110	IMPELLER 9" Round Dished
9	60300	PIVOT & BRACKET ASSEMBLY (2150/2170)	29	25723	FRAME FOOT
10	12274	GRIP (2150/2170) 7.5" LONG	30	70138	PNEUMATIC DRIVE WHEEL STUD (2150/S25)
11	44251	PIVOT ROD (2150/2170/C22/C24)	31	60333	New Floating GEAR BOX (2150/C22)
12	60298	GAUGE & LEVER ASSEMBLY (2150/C22)	32	12148	AXLE BEARING (2130/2150/2170/S25)
13	60175	UPPER HANDLE SQUARE W/GRIP	33	12152	AXLE BUSHING (2130/2150/2170/S25)
14	24500	AXLE COINED	34	33109	3/16" X 2" COTTER PIN ZINC
15	31100	1/4-20 X 1 1/2 HHMS ZINC	35	60027	WING NUT ASSEMBLY BLACK
16	25223	HANDLE SHAFT SQ (2150)	36	37100	1/4-20 X 1" CARRIAGE BOLT ZINC
17	42256	CONTROL ROD (2150/C24SS)	37	12147	SPACER (PIVOT LINK)
18	31138	#8 X 3/8" PMT #8 HD COARSE BLACK			
19	33108	3/16" X 1" COTTER PIN ZINC			
20	32100	1/4-20 HEX NUT ZINC			

Broadcast Setting Matrix

Calibration Techniques

How to ensure your spreader is properly calibrated

Make sure the drop holes in the bottom of the hopper are fully open when the Rate Control handle is on #30. If not, please adjust control cable or control rod to allow for a full open hopper position at #30.

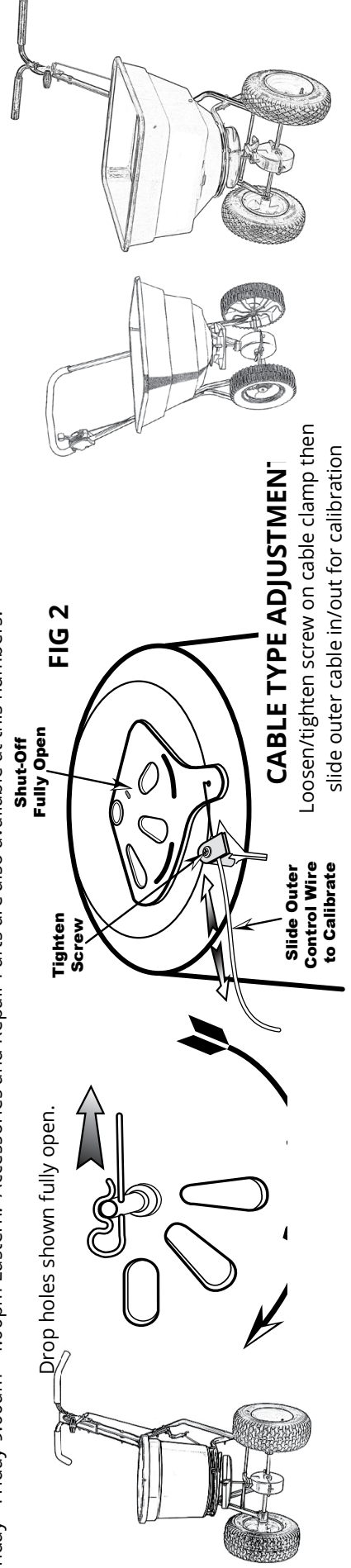
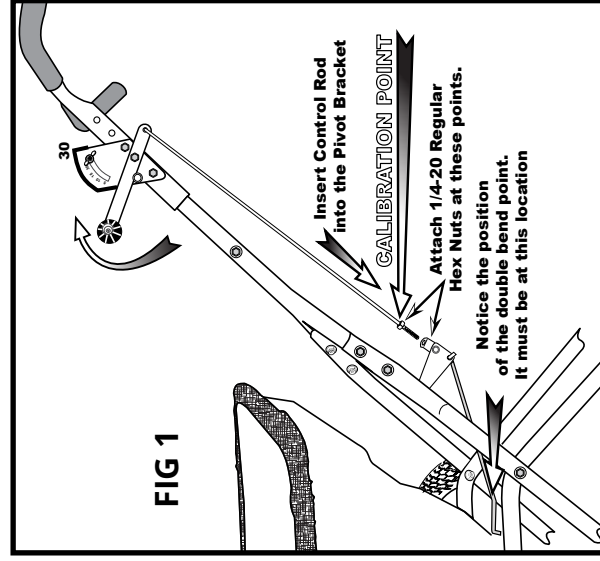
Rod Type Adjustment

1. Open the shut-off so that the drop holes are completely open as illustrated to the right.
2. Review the Control Lever position - if it is set so that the forward edge is at #30, you are calibrated. If not, you need to adjust the control rod at the pivot bracket shown in Fig 1.
 - A. If your shut-off is not able to open fully as in step #1. Loosen the top nut a few turns, then loosen the lower nut so that it allows you to push the shut-off open fully. Next tighten each nut so that they contact the pivot bracket without moving it, and then carefully tighten each nut fully so they do not loosen during use. Recheck adjustment as outlined in #1 above.
 - B. If your shut-off is able to open fully as in step #1, but the Control Lever is not at #30. Loosen the top nut a few turns, then loosen the lower nut so that it allows you to push the Control Lever to #30. Next tighten each nut so that they contact the pivot bracket without moving it. Carefully tighten each nut fully so they do not loosen during use. Recheck adjust as outlined in #1 above.

Cable Type Adjustment

1. Open the Control Lever so that the shut-off and drop holes are completely open as illustrated in Fig 2.
2. Review the Control Lever position so that the indicator is pointed to #30, if it is your calibration is correct. If not you need to adjust the control cable at the cable clamp on the underside of the hopper as shown in Fig 2.
 - A. If your shut-off is not able to open fully as in step #1. Loosen the cable clamp screw slightly so that you can slide the outer cable out so that the shut-off is fully open. Next tighten the cable clamp screw securely. Recheck adjustment as outlined in #1 above.
 - B. If your shut-off is able to open fully as in step #1, but the Control Lever is not at #30. Loosen the cable clamp screw slightly so that you can slide the outer cable in so that the Control Lever opens to #30. Next tighten the cable clamp screw securely. Recheck adjustment as outlined in #1 above.

If you have any questions regarding the operation or assembly of your spreader please call us at 574-848-7491 Monday - Friday 9:00am - 4:00pm Eastern. Accessories and Repair Parts are also available at this numbers.



ESTABLISHING A SETTING RATE

- STEP 1:** Determine the rate by dividing the bag weight by the coverage of the bag listed (Example:(37lbs/10,000square feet = .0037), then multiply by 1,000 (.0037x1000 = 3.7lbs/1,000 square feet). That will give the suggested LBS/1,000 square feet rate.
- STEP 2:** Find the closest LBS/1,000 square feet in Broadcast Setting Matrix below, based on the material particle size. (Example: 2.0 LBS/1,000 square feet = Spreader Setting of 9,11, or 13 based on particle size)

BROADCAST SPREADER SETTING MATRIX

for 2150/2170 models with dished impellers

GRANULAR MATERIAL

PARTICLE SIZES: Fine/Small → (1/16" SAND)

Medium → (3/32")

Large → (1/8" ICE MELT)

LBS. PER 1,000 SQUARE FEET	SETTING	SPREAD WIDTH FT	SPREAD METERS	SETTING	SPREAD WIDTH FT	SPREAD METERS	SETTING	SPREAD WIDTH FT	SPREAD METERS
1 LB.	6	16'	4.9m	10	13.5'	4.1m	11	16'	4.9m
2 LBS.	9	16'	4.9m	11	13.5'	4.1m	13	16'	4.9m
3 LBS.	12	16'	4.9m	13	13.5'	4.1m	14	16'	4.9m
4 LBS.	14	16'	4.9m	14	13.5'	4.1m	17	16'	4.9m
5 LBS.	16	16'	4.9m	16	13.5'	4.1m	19	16'	4.9m
6 LBS.	19	16'	4.9m	17	13.5'	4.1m	21	16'	4.9m
7 LBS.	22	16'	4.9m	20	13.5'	4.1m	22	16'	4.9m
8 LBS.	25	16'	4.9m	21	13.5'	4.1m	24	16'	4.9m
9 LBS.	28	16'	4.9m	23	13.5'	4.1m	26	16'	4.9m
10 LBS.	30	16'	4.9m	25	13.5'	4.1m	30	16'	4.9m

GRASS SEED

LBS. PER 1,000 SQUARE FEET	FINE SETTING	SPREAD WIDTH FT	SPREAD METERS	COARSE SETTING	SPREAD WIDTH FT	SPREAD METERS
2 LBS.	11	8.5'	2.6m	16	11'	3.4m
3 LBS.	16	8.5'	2.6m	18	11'	3.4m
4 LBS.	18	8.5'	2.6m	21	11'	3.4m
5 LBS.	20	8.5'	2.6m	24	11'	3.4m

Calibration: Start by ensuring that your spreader calibration is correct. Make sure the drop are fully open when the Rate Control handle is on #30. If not, please adjust control rod at the pivot to allow for a full open hopper holes with the handle at position at #30.

GRANULAR MATERIAL

PARTICLE SIZES: Fine/Small → (1.5mm SAND)

Medium → (2mm)

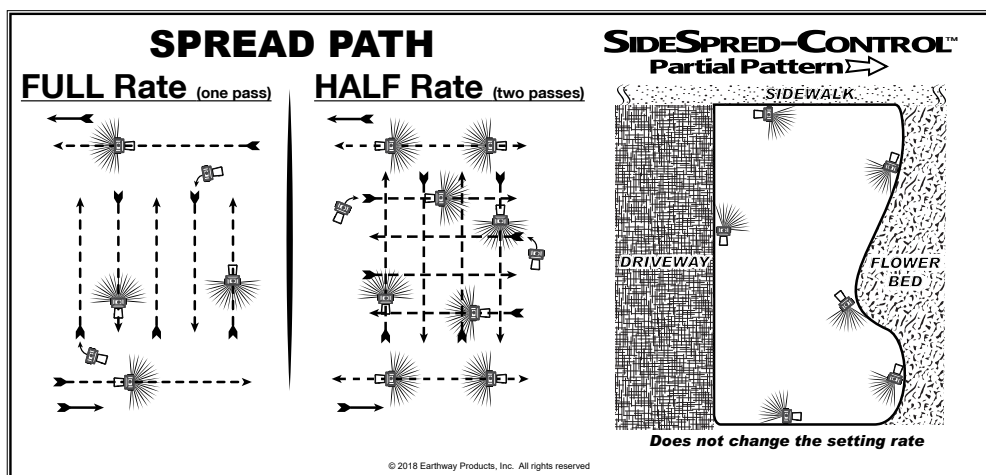
Large → (3mm)

Grams PER Square Metre	SETTING	SPREAD WIDTH FT	SPREAD METRES	SETTING	SPREAD WIDTH FT	SPREAD METRES	SETTING	SPREAD WIDTH FT	SPREAD METRES
5	6	16'	4.9m	10	13.5'	4.1m	11	16'	4.9m
10	9	16'	4.9m	11	13.5'	4.1m	13	16'	4.9m
15	12	16'	4.9m	13	13.5'	4.1m	14	16'	4.9m
20	14	16'	4.9m	14	13.5'	4.1m	17	16'	4.9m
24	16	16'	4.9m	16	13.5'	4.1m	19	16'	4.9m
29	19	16'	4.9m	17	13.5'	4.1m	21	16'	4.9m
34	22	16'	4.9m	20	13.5'	4.1m	22	16'	4.9m
39	25	16'	4.9m	21	13.5'	4.1m	24	16'	4.9m
44	28	16'	4.9m	23	13.5'	4.1m	26	16'	4.9m
49	30	16'	4.9m	25	13.5'	4.1m	30	16'	4.9m

GRASS SEED

Grams PER Square Metre	FINE SETTING	SPREAD WIDTH FT	SPREAD METRES	COARSE SETTING	SPREAD WIDTH FT	SPREAD METRES
10	11	8.5'	2.6m	16	11'	3.4m
15	16	8.5'	2.6m	18	11'	3.4m
20	18	8.5'	2.6m	21	11'	3.4m
25	20	8.5'	2.6m	24	11'	3.4m

Calibration: Start by ensuring that your spreader calibration is correct. Make sure the drop holes are fully open when the Rate Control handle is on #30. If not, please adjust control rod at the pivot to allow for a full open hopper holes with the handle at position at #30.



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, EPI makes no warranty as to the uniformity of coverage actually obtained from the settings listed.

OPERATING INSTRUCTIONS

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

1. 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.
2. Move stop bolt on rate gauge assembly to the proper setting.
3. While pushing spreader forward, pull control lever back to stop bolt.
4. To stop, push lever forward to close flow holes before you stop moving.
5. When finished, empty any remaining material from hopper.
6. Thoroughly wash spreader and allow to dry before storing. A coating of light oil will help prevent corrosion.
7. Keep this manual for future reference

EARTHWAY SIDE SPREAD CONTROL TECHNOLOGY OPERATION

The **EARTHWAY SIDE SPREAD CONTROL TECHNOLOGY** lever is located on the back of the hopper at the bottom. To operate the **EARTHWAY SIDE SPREAD CONTROL TECHNOLOGY**, slide the control lever from the left, to the right. This will activate the **EARTHWAY SIDE SPREAD CONTROL TECHNOLOGY** for a Partial spread pattern and prevent material from being spread to the left side of the spreader. Position the left wheel of your spreader 12"-16" from the sidewalk, flowerbed, or driveway and spread as normal. When you have completed this spreading pass, open the **EARTHWAY SIDE SPREAD CONTROL TECHNOLOGY** by sliding the control lever from right to left, for a **FULL** spread pattern.

RATE SETTING MATRIX

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)

CUSTOMER SERVICE

574.848.7491 | SUPPORT@EARTHWAY.COM | WWW.EARTHWAY.COM

1-YEAR LIMITED WARRANTY

EPI. warrants this product free of defects in original workmanship and materials for a period of 1-year to the end user with the original purchase receipt. If a manufacturing non-conformance is found, EPI. at its discretion will repair or replace the part(s) or product at no charge provided the failure is not the result of incorrect installation, mishandling, misuse, tampering, or normal wear and tear as determined by EPI. EPI. at its discretion may require that the part(s) or product be returned along with the original purchase receipt at owners' expense for examination and compliance with the terms of this warranty. Do not return any product without first receiving authorization from EPI. To seek remedy under this warranty, contact EPI. at 574-848-7491, support@earthway.com or write to EPI. 1009 Maple St., Bristol, Indiana 46507 and describe the nature of the manufacture defect. **SPECIFIC LIMITATIONS:** This warranty covers only the part(s) or product; any labor charges associated with repair or replacement of non-conformances are specifically excluded. Due to the corrosive nature of most fertilizers and ice melt products, EPI. makes no warranty against and specifically excludes part(s) or product degradation or failure due to corrosion or its effects, or the use of powdered materials. Clean and dry your spreader thoroughly after each use, as a preventative measure, coat all metal parts with a light oil or silicon spray.