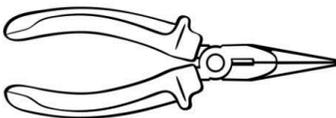


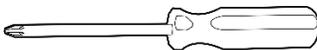


Prior to assembly, you will need the following tools:

Needle nose pliers



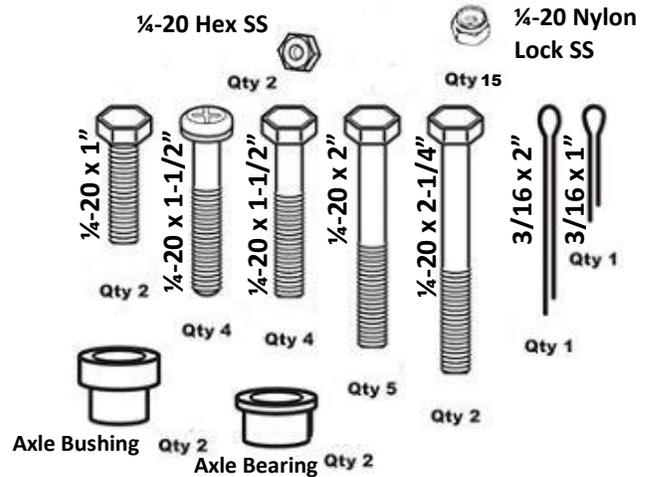
#2 Phillips screwdriver



Adjustable wrench or 1/2" box wrench



### ASSEMBLY HARDWARE



### HELPFUL TIPS

- If your spreader does not spread evenly, check that you assembled your spreader with the gearbox labeled "FRONT" points toward the front of the spreader. The impeller must turn clockwise. Reversing the gearbox will cause the impeller to turn counterclockwise.
- Your spreader is calibrated for three miles per hour. Slower or faster speeds will change the spread patterns.
- Clean and dry your spreader thoroughly after each use. Coat all metal surfaces with light oil or silicon spray to help prevent corrosion. Wash between the shut off plate and bottom of the hopper. Do not use powdered materials.
- Gears are pre-lubricated at the factory. Do not open the gearbox or dirt may enter.
- Spreading fertilizer with an ice melt spreader will burn your lawn. The high output opening is designed for rock salt. No agitator is needed for salt.

IF YOUR SPREADER COMES SEMI ASSEMBLED, SKIP TO STEP #7

### Assembly Steps

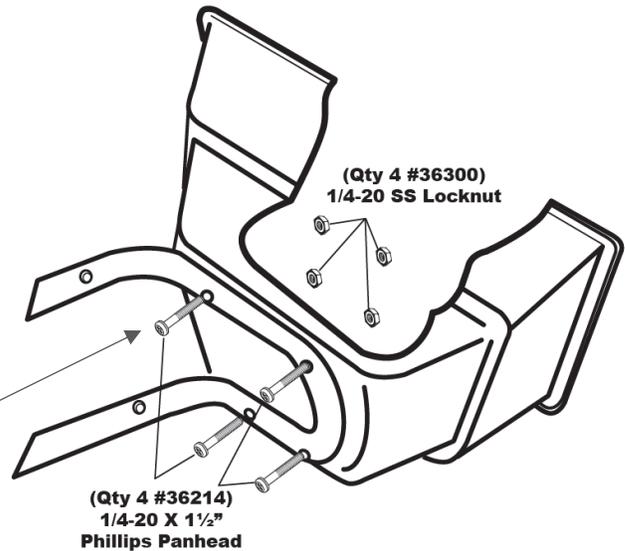
**Step 1:** Remove all components and hardware items from the box. Place the spreader hopper on its side.

**Step 2:** Install frame using (4) ¼-20 x 1½" Pan Head Phillips bolts and (4) ¼-20 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.**

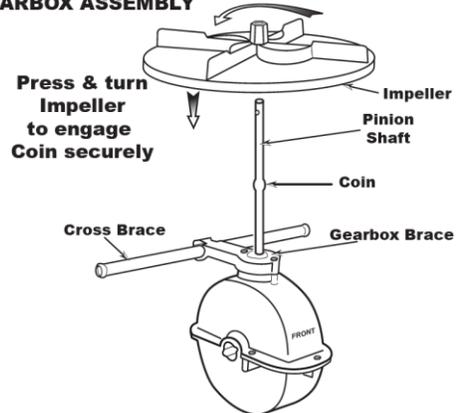
**TIP:** coat stainless steel bolts with wax or grease before tightening to prevent them from seizing.



**Step 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. Press down to secure.

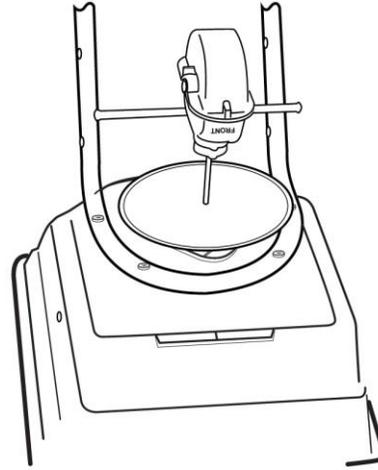
**Next,** insert Cross Brace thru the Gearbox Brace as shown.

#### GEARBOX ASSEMBLY



**Step 4:** Install gearbox 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. The EarthWay logo is on the front of the hopper.



**Step 5: (A)** Install lower handles onto the frame to both sides as shown. Insert 2 1/4" bolt through second hole in lower handle and through first hole in frame and install locknut. **DO NOT TIGHTEN.**

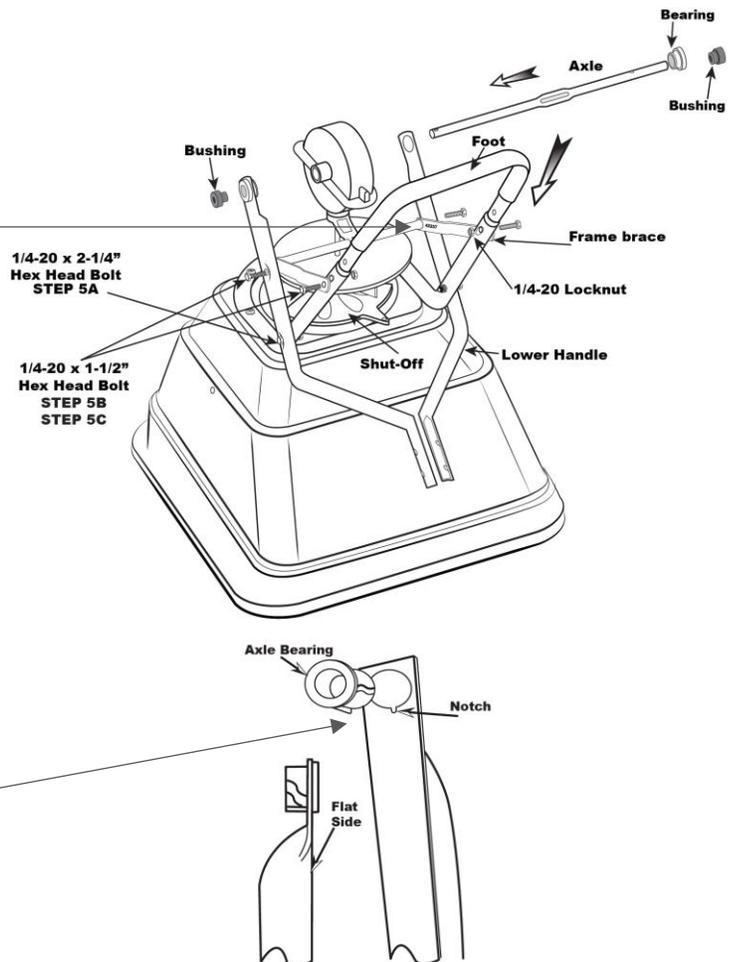
**(B)** Now insert 1 1/2" bolt through first hole in lower handle. Then through frame brace. Next into threaded connector in cross brace. **DO NOT TIGHTEN.**

**NOTE:** Numbers on frame brace must be facing toward gear box as shown.

**(C)** Next insert 1 1/2" bolt through other end of frame brace and through second hole in frame install locknut.

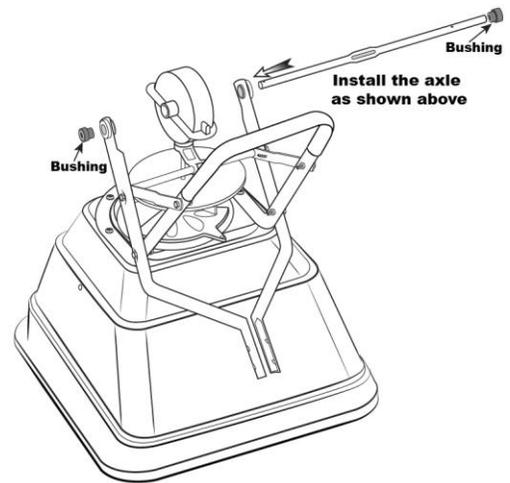
**Step 6:** Install the axle through the axle hole in the lower handle and then through the gearbox and then through the lower handle on the other side as shown.

**NOTE:** Notch on bearings and lower handles. Bearings must go through flat side of lower handle (from the outside to the inside).



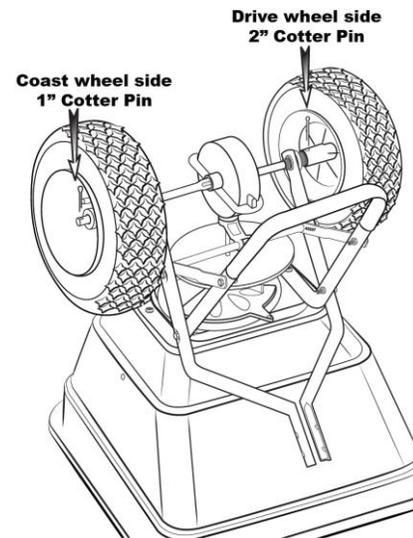
**NOW GO BACK AND TIGHTEN ALL NUTS AND BOLTS STARTING WITH FIRST STEP. DO NOT OVER TIGHTEN.**

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

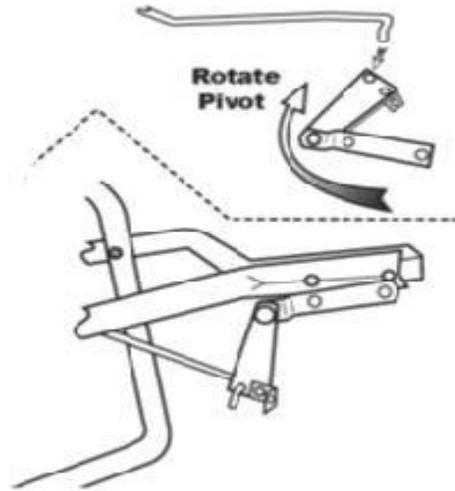


**Step 8:** Install drive wheel onto the axle and align with the cotter pin hole nearest to lower handles as shown. Insert 2" cotter pin through wheel and through axle. Bend with pliers to prevent pin from falling out.

**Step 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.

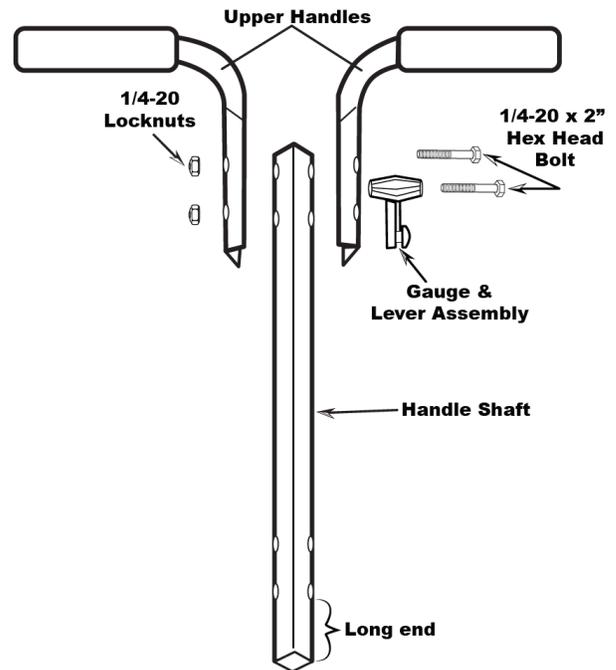


**TURN SPREADER UPRIGHT ON TO WHEELS.**



**Step 10:** 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.

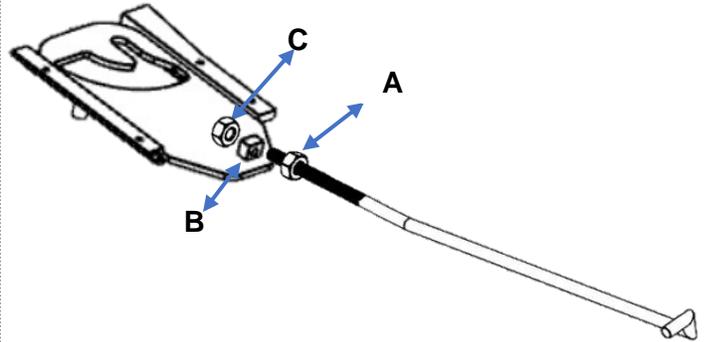
**TIGHTEN ALL HARDWARE NOW**



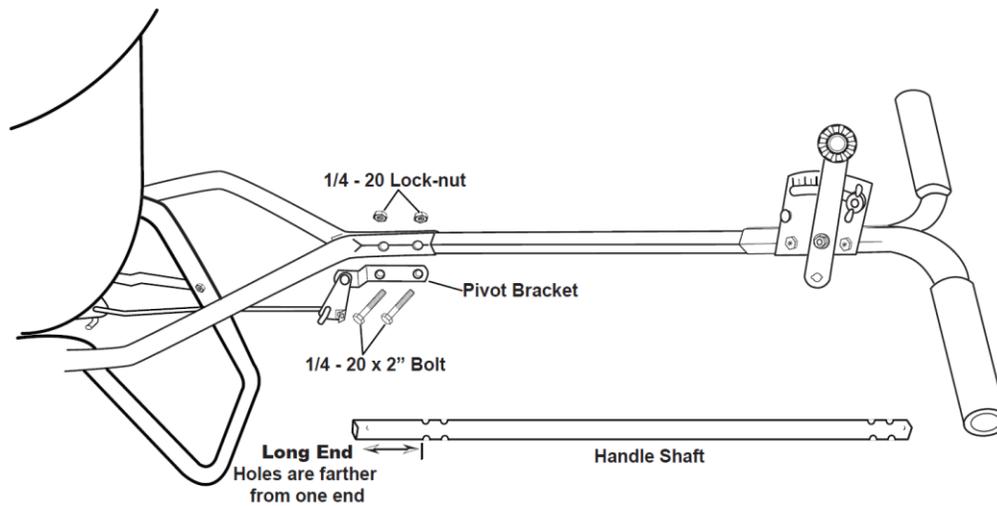
## MODEL # 90399 ASSEMBLY INSTRUCTIONS

**Step 11:**

- A. Thread hex nut onto the end of the pivot rod.
  - B. Insert threaded end of the pivot rod into the shut off plate.
  - C. Thread an additional hex nut on the end of the pivot rod.
- Use a 7/16" wrench to secure the hex nut in place around the shut off plate and pivot rod.  
 \*See Image to the right\*



**Step 11:** 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.**



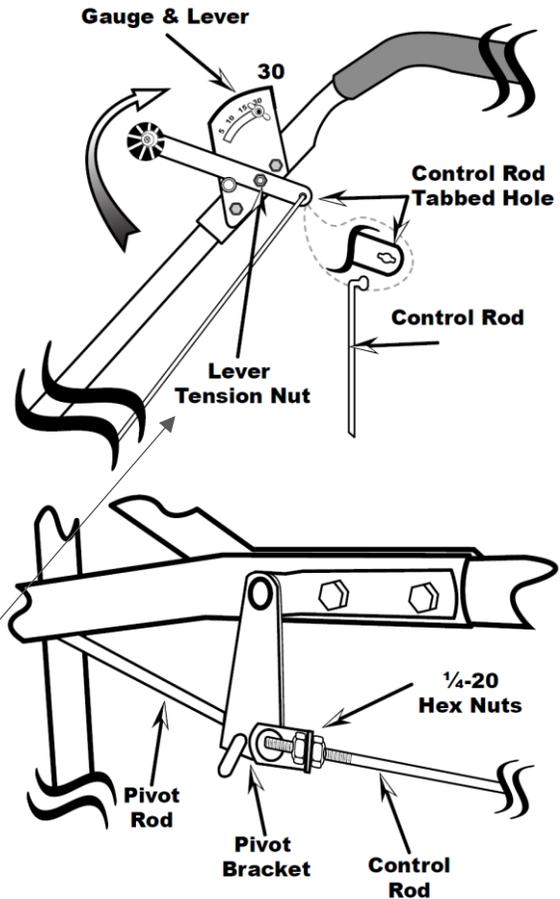
**Step 12:** Install (1) 1/4-20 Hex nut (not a locknut) on to control rod as shown.



**Step 13:** 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.

**Step 14:** 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.

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



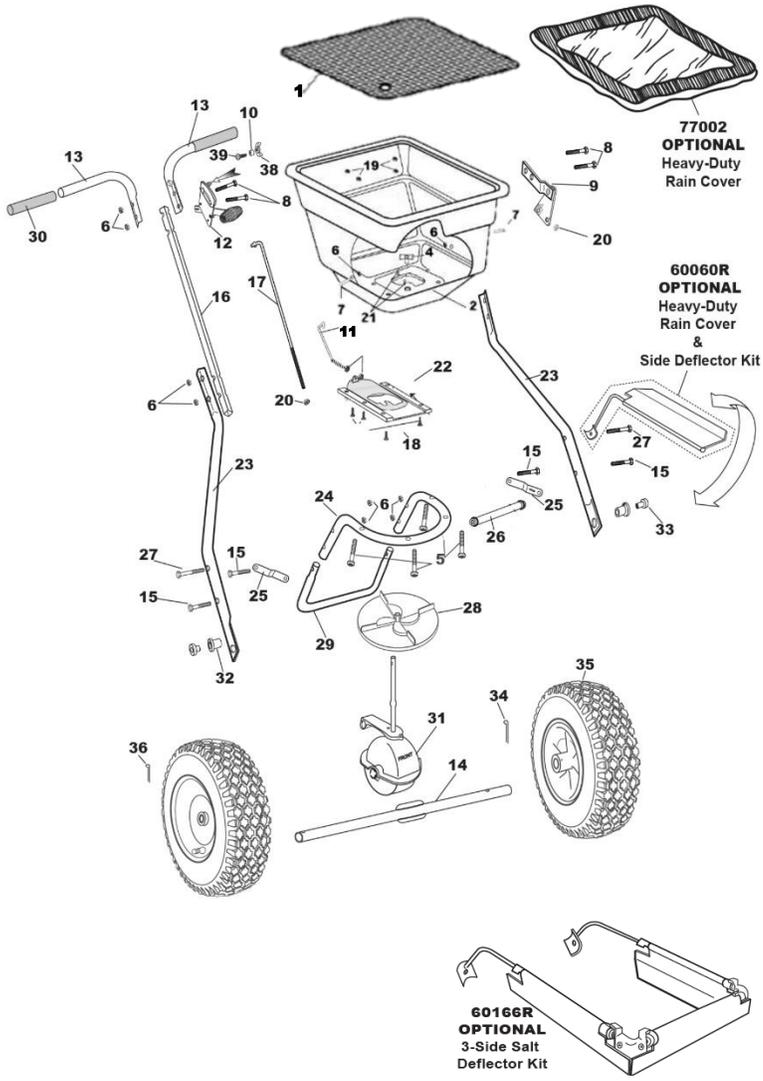
## OPERATING INSTRUCTIONS

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 dry before storing. A coating of light oil will help prevent corrosion.

If you use Rock Salt, remove agitator when in use to prevent damage to the GEARBOX.

## MODEL # 90399 ASSEMBLY INSTRUCTIONS



Parts List		
KEY #	PART #	DESCRIPTION
1	40003	SQUARE SCREEN
2	99342	HOPPER ASSEMBLY 90399
4	12209	HOPPER BUSHING
5	36214	1/4-20 X 1 1/2" PHPMS S.S.
6	32103	1/4-20 NYLON INS LOCKNUT ZINC
7	36210	1/4-20 X 1" HHMS S.S.
8	31120	1/4-20 X 2" HHCS ZINC
9	60300	PIVOT & BRACKET ASSEMBLY
10	12147	SPACER (PIVOT LINK)
11	44251	PIVOT ROD
12	60298	GAUGE & LEVER ASSEMBLY
13	60175	UPPER HANDLE SQUARE W/GRIP ea.
14	24500	AXLE, COINED
15	31100	1/4-20 X 1 1/2" HHMS ZINC
16	25223	HANDLE SHAFT SQ
17	42256	CONTROL ROD
18	31122	#8 X 5/8" PHPS TYPE A BLACK
19	36300	1/4-20 NYLON INSERT LOCKNUT S.S.
20	32100	1/4-20 HEX NUT ZINC
21	36208	#6 X 3/8" TYPE 25 PHPS S.S.
22	12354	SHUT OFF PLATE
23	25222	LOWER HANDLE SQ
24	25108	FRAME
26	25228	CROSS BRACE (2150/2170/S25) 11.25"
27	31106	1/4-20 X 2 1/4" HHCS ZINC
28	12110	IMPELLER 9" Round Dished
29	25723	FRAME Foot
30	12274	GRIP (2150/2170) 7.5" LONG
31	60333	New Floating GEAR BOX
32	12148	AXLE BEARING
33	12152	AXLE BUSHING
34	33109	3/16" X 2" COTTER PIN ZINC
35	70138	PNEUMATIC DRIVE WHEEL STUD
36	33108	3/16" X 1" COTTER PIN ZINC
37	11927	SHUTOFF SUPPORT- LARGE
38	60027	WING NUT ASSEMBLY BLACK
39	37100	1/4-20 X 1" CARRIAGE BOLT ZINC

Your spreader is built with standard hardware (nuts & bolts). These items can be purchased at your local hardware store.

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## **CUSTOMER SERVICE**

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574.848.7941 | [SUPPORT@EARTHWAY.COM](mailto:SUPPORT@EARTHWAY.COM) | [www.EARTHWAY.com](http://www.EARTHWAY.com) | 1009 Maple Street, Bristol, IN 46507

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## **ONE YEAR WARRANTY**

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EarthWay Products, Inc. warrants this product free of defects in original workmanship and materials for a period of one year to the end user with the original purchase receipt. If a manufacturing non-conformance is found, EarthWay Products, Inc. at its discretion will repair or replace the part(s)/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 EarthWay.

EarthWay at its discretion may require that the part(s) or product be returned along with the original purchase receipt for examination and compliance with the terms of this warranty. Do not return any product without first receiving authorization from EarthWay Products, Inc.

To seek remedy under this warranty, contact EarthWay Products, Inc. at 574-848-7491, [support@earthway.com](mailto:support@earthway.com) or write to EarthWay Products, Inc. 1009 Maple Street, Bristol, IN 46507 and describe the nature of the manufacturing 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, EarthWay Products, Inc. makes no warranty against and specifically excludes part(s) or product degradation or failure due to corrosion or its effects.