MODEL #: 190811

INSTRUCTION MANUAL

SMITH® SB80ST Heavy-Duty Fertilizer and Salt Spreader
(190811)

Do not return this product to the store.
For help, information, or parts contact:

THE FOUNTAINHEAD GROUP
Craftsmanship, Innovation, Commitment
www.thefountainheadgroup.com
(800) 311-9903 | info@thefgi.com
23 Garden St. New York Mills, NY, 13417

⚠ WARNING

Read and fully understand manual before using this product.

Failure to follow instructions could result in death or serious injury.

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IMPORTANT SAFETY INSTRUCTIONS

- Read and understand the entire instruction manual before using this spreader.
- Follow all instructions and precautions in the instruction manual when using this spreader.

⚠ ***WARNING:*** ***RISK OF PERSONAL INJURY DUE TO CONTACT WITH ROTATING COMPONENTS.***

- Keep hands and feet away from wheels, belts, and pulleys when spreader is in motion.
- Never modify or alter the spreader from original condition.
- Use only replacement parts from original manufacturer. Other replacement parts are not compatible with this spreader.

⚠ ***WARNING:*** ***RISK OF PERSONAL INJURY AND/OR PROPERTY DAMAGE DUE TO CHEMICAL EXPOSURE.***

- Read and follow all instructions and precautions on chemical manufacturer's label of chemicals used in this spreader.
- Use only chemicals indicated for broadcast spreading applications. Some chemicals may create a toxic or other hazardous conditions when broadcast spread.
- Always refer to chemical manufacturer's instructions and/or the chemical Safety Data Sheet (SDS) for proper mixture and safe application.
- Use the appropriate Personal Protective Equipment (PPE) as recommended by the chemical manufacturer and/or refer to the chemical Safety Data Sheet (SDS) of the chemical being used. This includes at least goggles, gloves, and protective clothing. Failure to use appropriate PPE could result in chemical exposure through skin contact, eye contact, inhalation, or other means.
- Keep the spreader and all chemicals out of the reach of children and pets.
- Never store chemicals in the spreader.
- Store or dispose of any unused chemicals as instructed by the chemical manufacturer due to the potential for environmental damage from a spill or leak, and/or refer to the disposal criteria referenced in the SDS.
- Clean spreader after each use to avoid unintended chemical exposure and prevent contamination of subsequent applications.

⚠ ***WARNING:*** ***RISK OF ENVIRONMENTAL CONTAMINATION AND HARM TO AQUATIC LIFE.***

- Follow all local regulations for broadcast applications of fertilizers and other chemicals.
- Avoid overapplication, which can lead to nutrient runoff.
- Maintain buffer zones around bodies of water.
- Use the deflector shield along the boundaries of the application area to prevent broadcasting chemical onto roads, sidewalks, driveways, gutters, storm drains, or other non-targeted areas where the chemical could wash away.

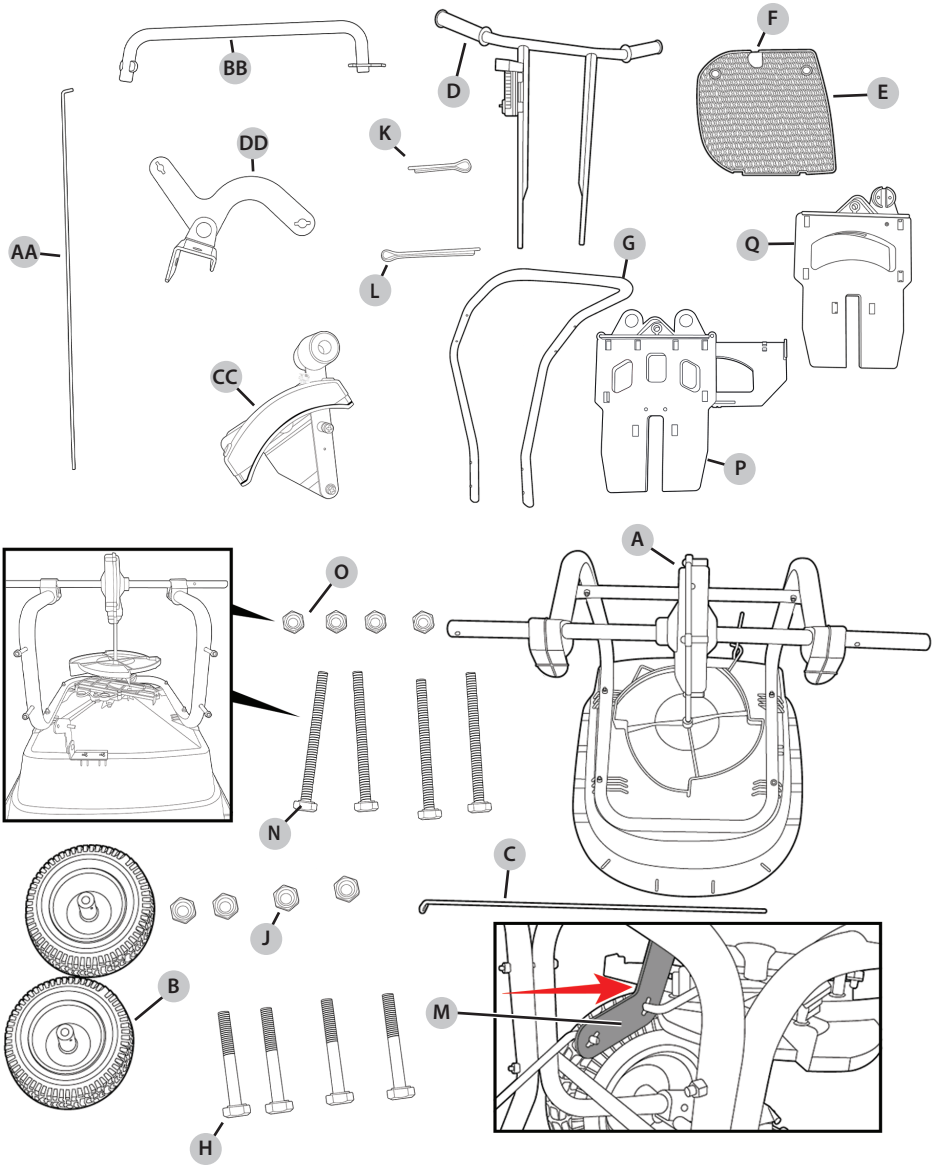
SAVE THESE INSTRUCTIONS FOR FUTURE USE.

PACKAGE CONTENTS - PARTS FOR ASSEMBLY

Item	Description
A	Hopper Body & Frame
B	Pneumatic Wheels
C	Control Rod
D	Handle Bar
E	Debris Screen
F	Debris Screen Lock
G	Back Stand
H	4 x M6 x 45 bolts
J	4 x M6 lock nuts
K	Small Cotter Pin
L	Large Cotter Pin
M	Pivot Bracket
N	4 x M6 x 65 bolts
O	4 x M6 lock nuts
P	Summer Material Plate
Q	Winter Material Plate

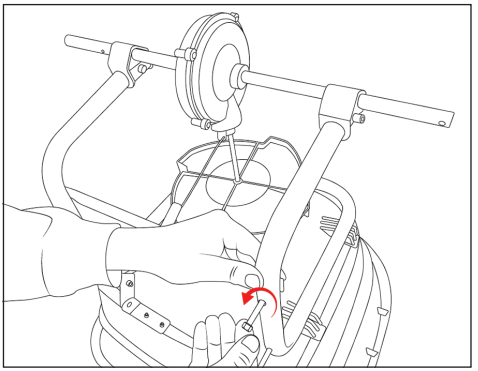
Border Control Spare Parts	
Item	**Description**
AA	Remote Control Rod
BB	Pivot Rod with R Pin
CC	Gauge Assembly
DD	Pivot Bracket

Prior to assembly, ensure all parts are accounted for.

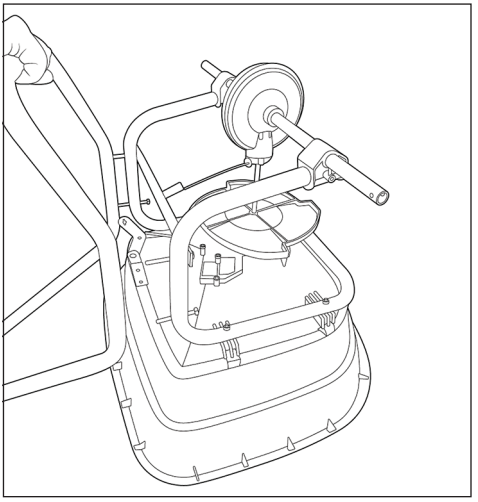


ASSEMBLY

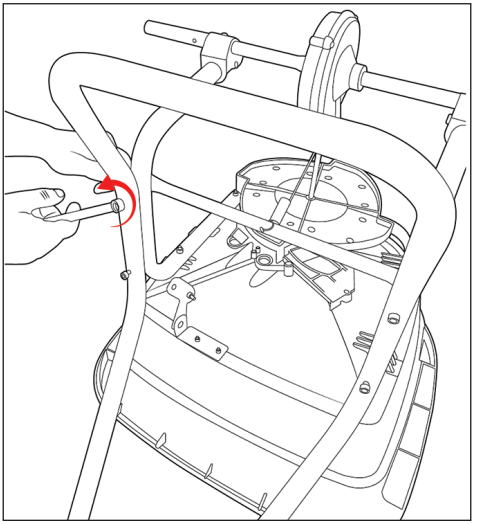
1. Place the Hopper body (A) on the table so that the gearbox is pointing upwards. Take the bolts out of the main frame (A) - you will use these to attach the back stand to the hopper body and main frame (A). Remove the nuts from the bolt ends.



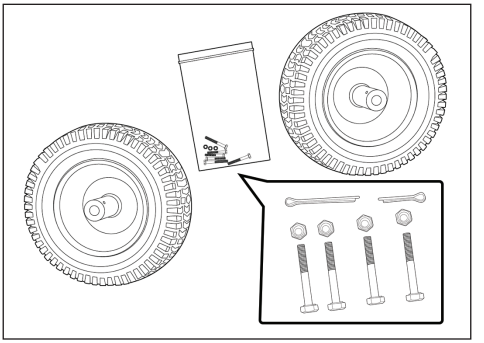
2. Take the back stand (G) and align it with the holes on the main frame (S). Place the four bolts through the holes available.



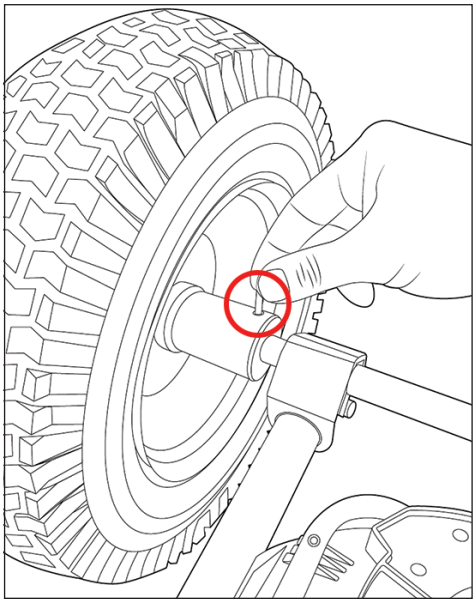
3. Use a wrench to tighten the lock nuts. The back stand (G) should now be securely attached to the hopper body and frame (A).



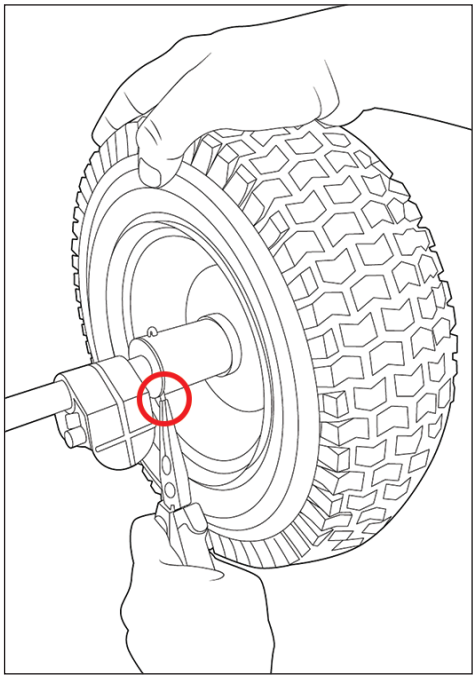
4. Take the pneumatic wheels (B) and slide them over the axles on each side of the main frame (A). You will also need the two cotter pins (K & L) that sit inside the parts bag.



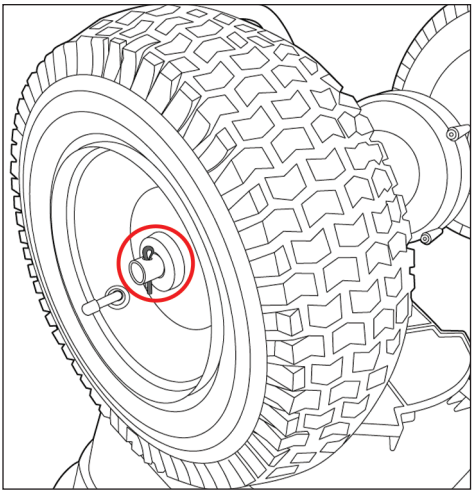
5. Align the hole on the inside of the pneumatic wheel (B) with the hole on the axle. Take the large cotter pin (L) and thread it through the two holes.



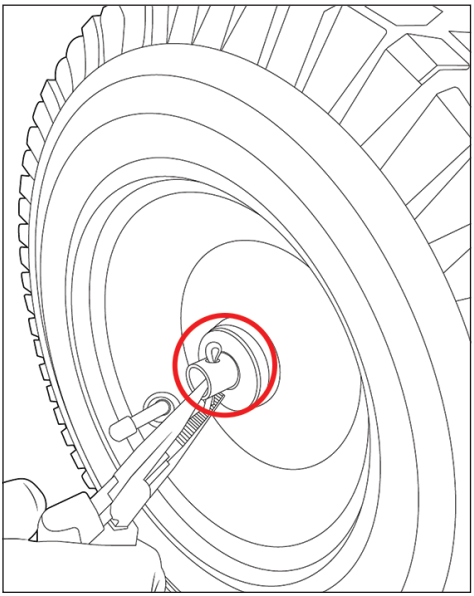
6. After threading the cotter pin (L) through the two holes, use a pair of pliers to pull apart the two ends of the cotter pin (L). The wheel will then be secured in place..



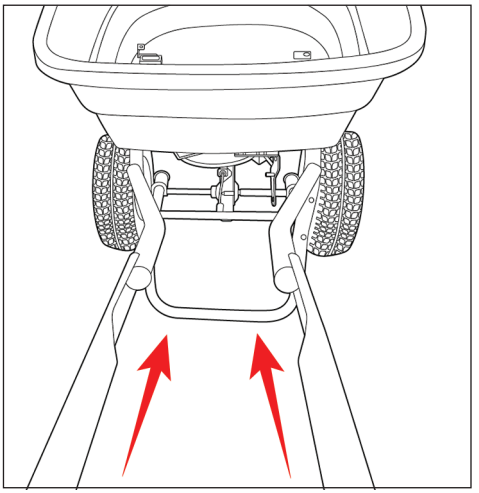
7. Take the small cotter pin (K) and place it through the hole on the outside of the other wheel.



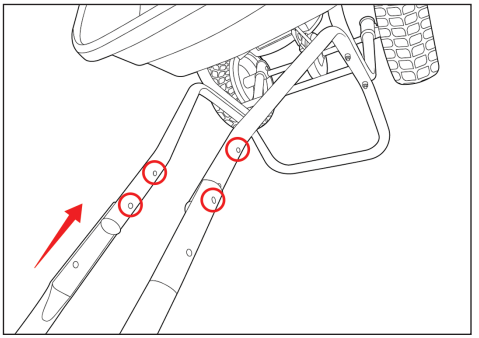
8. Once in position, use the same pliers to split the ends of the cotter pin (K) to hold the wheel in place.



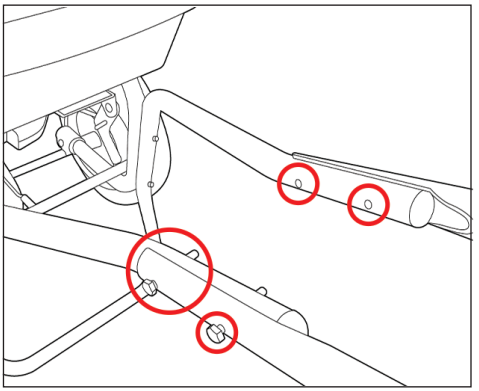
9. Turn the hopper body and main frame (A) over so that the spreader sits on its wheels and back stand. Take the handle bar (D) and slide it down the two ends of the back stand (G).



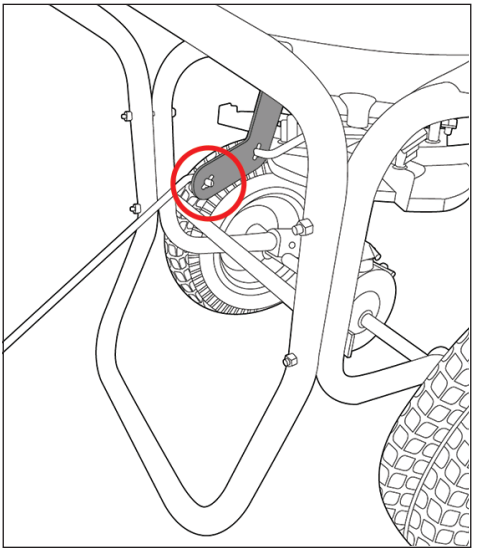
10. Align the holes on the handle bar (D) and on the back stand (G).



11. Thread the four remaining bolts (H) through the holes on the handle bar (D) and the back stand (G).

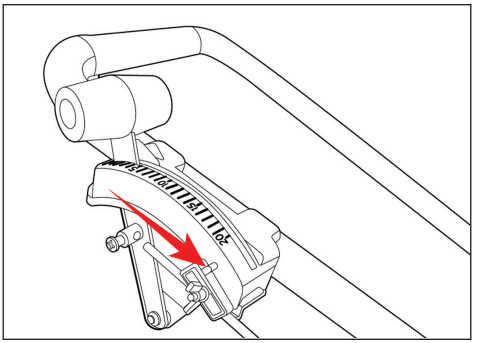


12. Take the bent end of the control rod (C) and thread it through the hole at the back of the pivot bracket (M). It should lock into place.

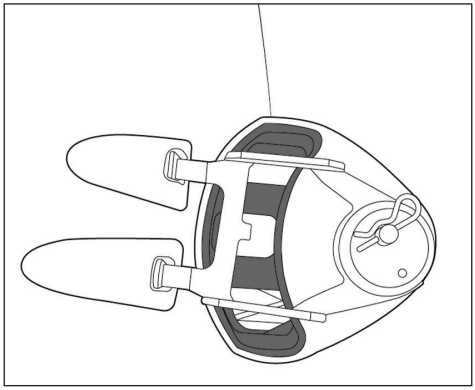


CALIBRATION AND FINAL ASSEMBLY

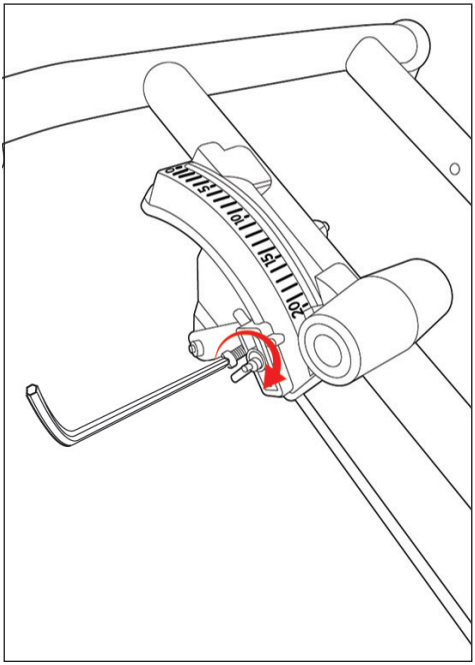
1. Take the other end of the control rod (C) and align it with the hole on the on/off mechanism on the handle (D). Push the on/off lever all the way to 20 and then hand tighten the screw.



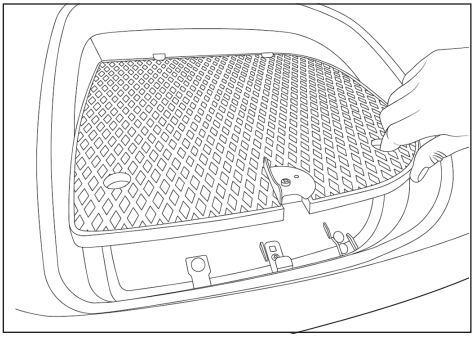
2. Make sure the slider at the bottom of the hopper is fully open. You should see the entirety of the holes or hole on the slide system.



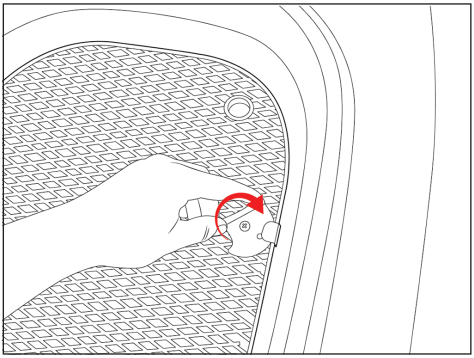
3. If the application hole is fully open and the lever is set at 20, tighten the Hex screw so that the control rod (C) is secure. You are now correctly calibrated.



4. To fit the Debris Screen (E) to the hopper, place the side which doesnt have the Debris Screen Lock (F) on in the brackets provided on the far side of the hopper.

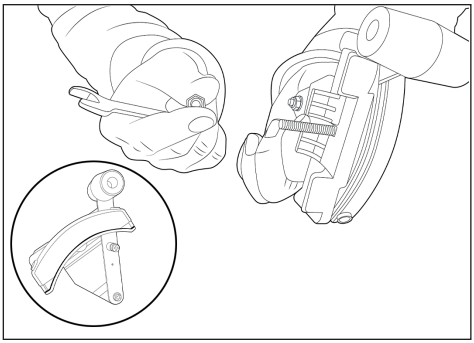


5. Lock the Debris Screen (E) in place by turning the Debris Screen Lock anti-clockwise (F).



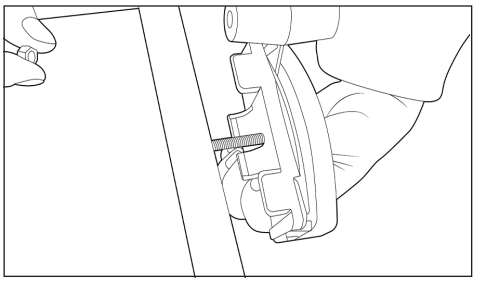
REMOTE BORDER CONTROL ASSEMBLY

1. Obtain the gauge assembly.

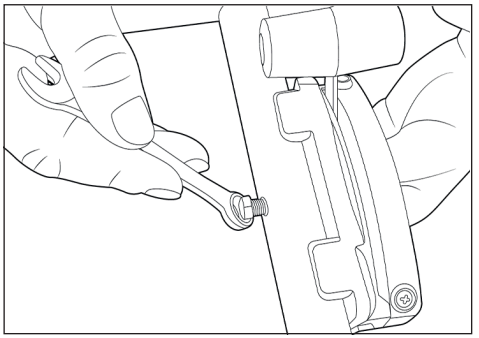


2. Place the gauge assembly on the (D) outside of the tube and locate the bolt through the tube.

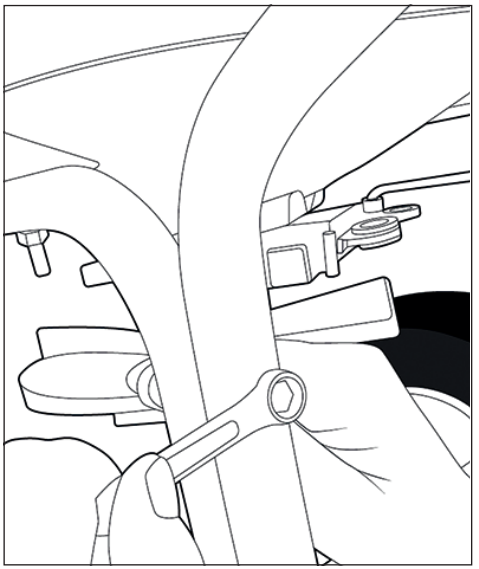
NOTICE: *Empty all contents of the box into a flat surface and count parts to make sure they are all there.*



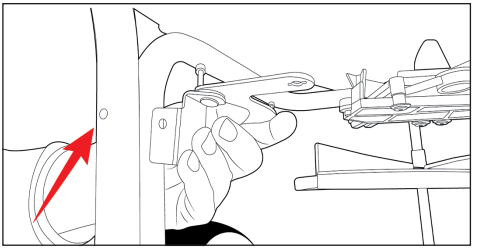
3. Tighten lock nut onto bolt to secure gauge assembly in place.



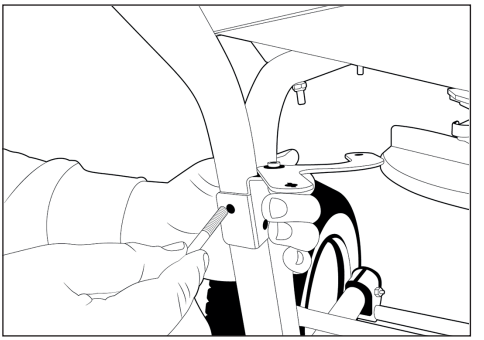
4. Loosen the two bolts holding the left side of the back stand (G) to the main frame (A), removing completely the upper bolt.



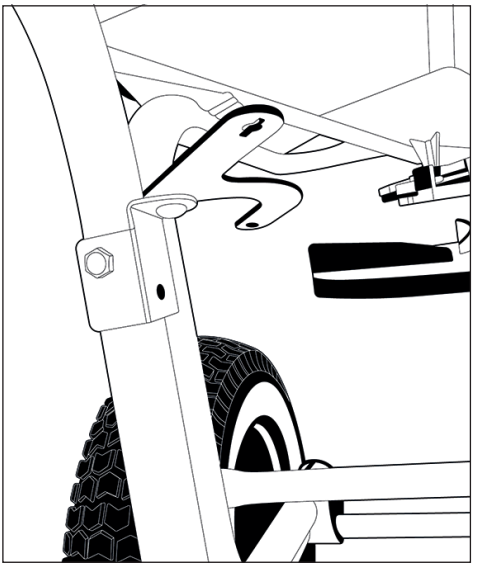
5. Insert the pivot bracket (DD) on the back stand (G).



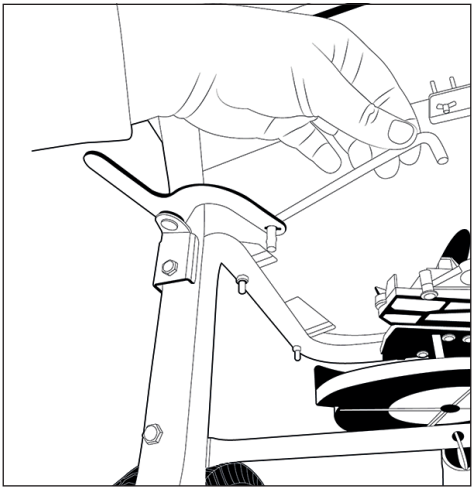
6. Re-install the bolt and tighten the lock nut. Re-tighten the lower bolt and nut.



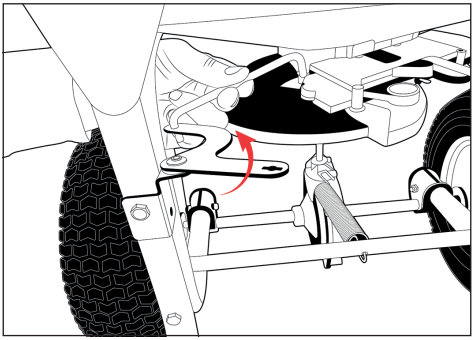
7. The pivot bracket (DD) should now be securely in place as shown.



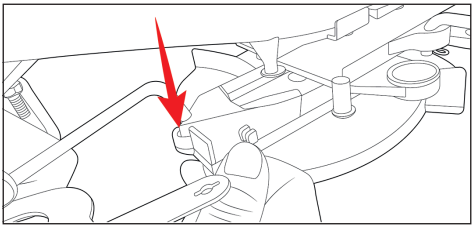
8A. Locate the pivot rod (BB) end through the hole in the pivot bracket (DD), as shown.



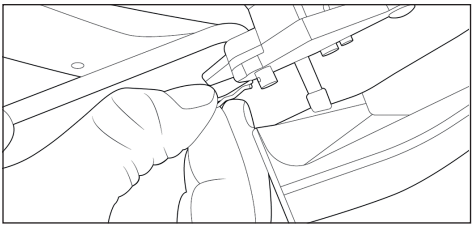
8B. Push the pivot (DD) as far in as possible to allow you to connect the rod (BB) into the the bracket and border control.



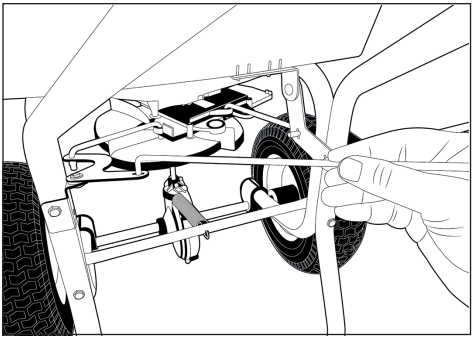
9. Place the free end of the pivot rod (BB) through the available hole on the end of the border control slider.



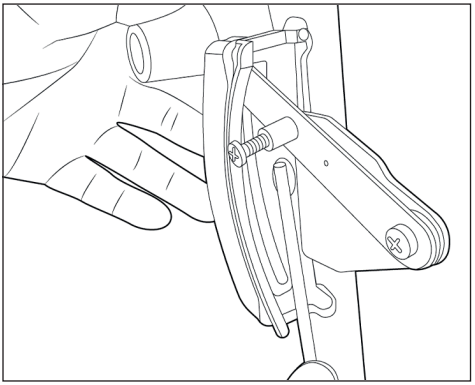
10. Secure the end of the pivot rod (BB) in place with the R pin as shown.



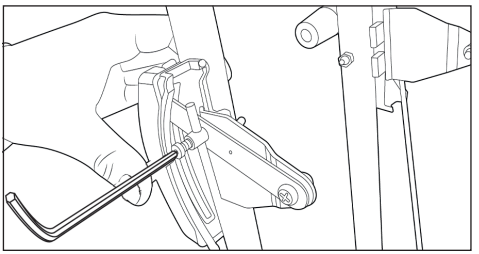
11. Locate the remote control rod (AA) L shaped end and place into the free hole in the pivot bracket (DD).



12A. Place the other end of the remote control rod (AA) through the adjuster screw assembly on the underside of the gauge assembly (CC).

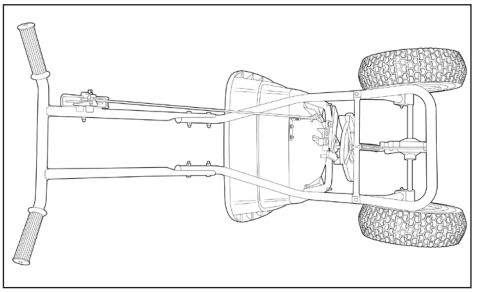


12B. Put the gauge assembly lever (CC) in the off position. The border control sliding plate needs to also be in the off (disengaged) position. With the plate being pushed in, tighten the adjuster Hex screw as shown to secure the remote control rod (AA) to the gauge assembly (CC).

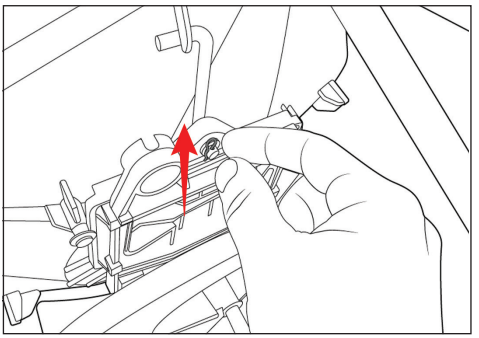


MATERIAL PLATE REMOVAL AND INSTALLATION

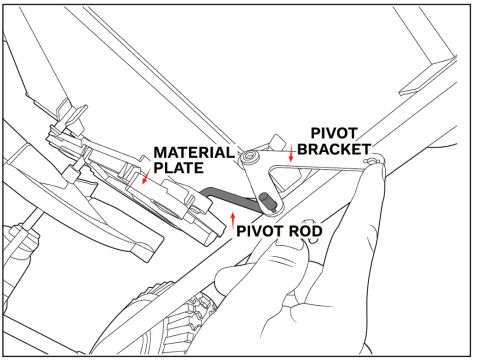
1. Place the finished unit onto a table so that the back of the spreader is easily accessible.



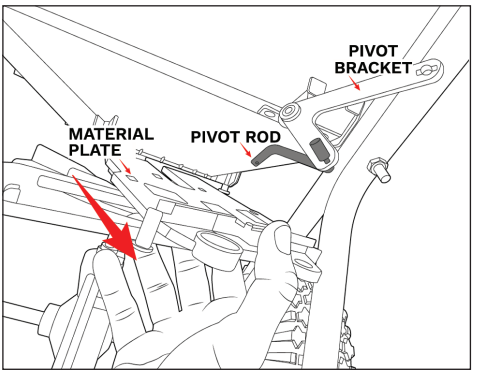
2. Locate the R-pin that helps hold the material plate in place on the underside of the material plate. Remove the R-pin.



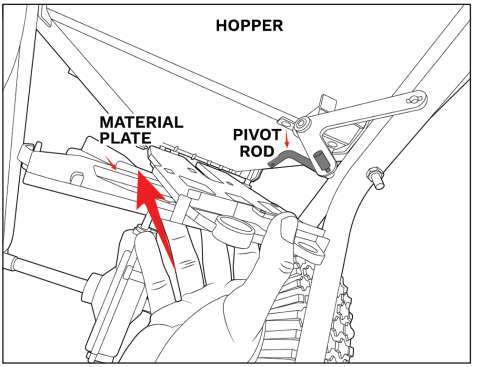
3. Push the top of the pivot bracket (M) so the material plate is pushed back and the pivot rod is loosened.



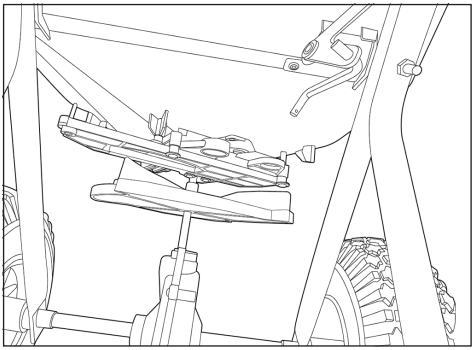
4. Remove the pivot rod by pushing the tip through the hole at the top of the material plate. When the pivot rod is removed, remove the material plate.



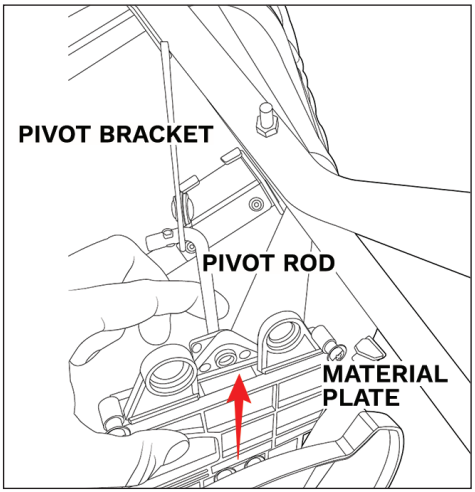
5. When you have removed the material plate you no longer wish to use, find the alternative material plate and push it into the grooves on the bottom of the hopper.



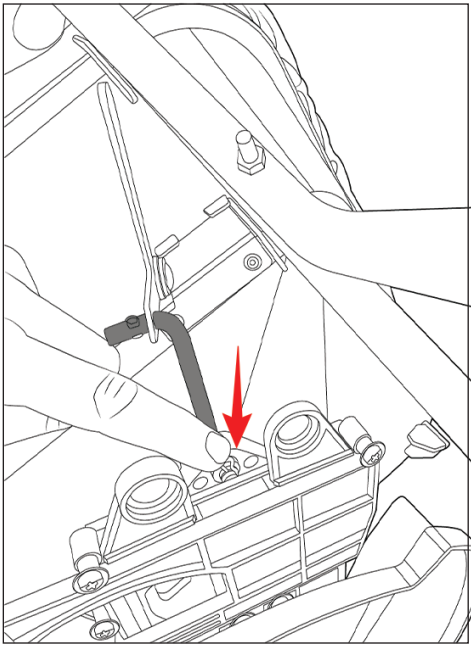
6. The material plate should be secure and sit level underneath the hopper. It should slide smoothly in and out of the grooves.



7. Pull the material plate out slightly to allow space to insert the pivot rod back into the pivot bracket and material plate.



8. Push the bottom end of the pivot rod into the hole at the top of the material plate and secure with the R-pin.



MATERIAL PLATE ADJUSTMENT

The SMITH® SB80ST includes both a Summer Fertilizer & Seed material plate as well as a Winter Ice Melt & Salt material plate. These plates are specifically engineered to control the material flow and application of the materials, ensuring the correct and even application as determined by the material being spread. The Slider Adjusters included on the Summer Fertilizer & Seed plate are used to balance the spread pattern by restricting the flow of material from the hopper on either side.

Different materials will spread differently, and these adjusters will help even your spread pattern. See the following page for details.

Left hand slider adjuster

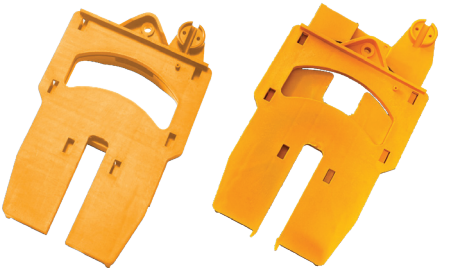
Right hand slider adjuster

LHS (*Left hand slider adjuster*) is recommended to be engaged when spreading large sized granular materials to provide a more uniform distribution on the left and right side of the spread pattern.

RHS (*Right hand slider adjuster*), is used with very light materials (e.g. grass seed). Engaging the RHS (Right hand slider adjuster) will help balance the spread pattern and application for light materials.

Summer Fertilizer & Seed plate

⚠ ***NOTICE:*** *Do not spread Fertilizer or Seed materials with the orange-colored single-hole Ice Melt & Salt material plate. Overapplication may occur.*



Winter Ice Melt & Salt plate
Sidewalk slider engaged for reduced spread width on right

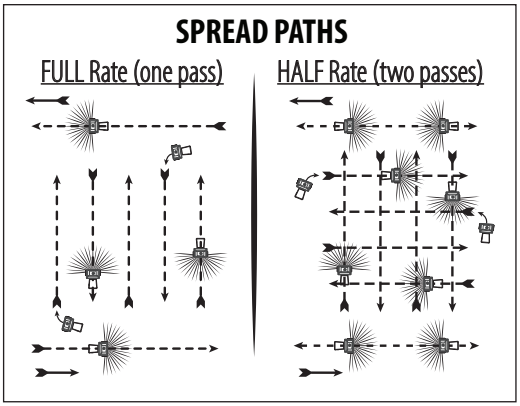
APPLICATION

Walking Patterns for the optimum application (For Fertilizer Only)

There are two methods of effective spreading, Full Rate (Single Pass over the area at the setting for the full amount) and Half Rate (Double pass over the area in a crossing pattern at 50% of the full amount - details below).

Walk at a steady pace of approximately 3mph holding the spreader level.

Tipping forward or back will affect your application.



Full Rate - one pass

Cover the area as shown making the next pass at the edge of your spread pattern or where the fertilizer thrown begins to feather.

Half Rate - 2 passes

Use ½ the application rate (lbs. per 1,000) suggested on the back of your fertilizer bag. You cover the area using the cross path method.

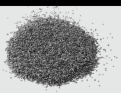
Half rate is defined by reducing the pounds per thousand square feet by 50%. This does NOT correlate to a 50% reduction on the gauge indicator. Refer to the chart below for the proper half rate setting.

Rate Setting Guide					
Grams/SQ Meter	Lbs. Per 1,000SF	SMITH®	Scotts®	EarthWay®	LESCO®
10	2	9	3	13	5
15	3	10	3.5	14	6
20	4	12	4.5	16	8
25	5	13	5.5	17	9.5
30	6	13.5	6	18	10
35	7	14	7	19	10.5
40	8	15	8	20	11
45	9	16	9	22	13
50	10	20	10	23	14

Review the coverage and weight of the bag to help determine the correct setting. For a 25 lb. bag that covers 5,000 Square Feet (SF), the calculation is 25/5 = 5 lbs. per 1,000 Square Feet, setting of 13. HALF Rate would be 1/2 of the 5 lbs. rate (2.5 lbs.) or a Setting of 9

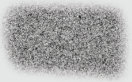
SMITH®

SLIDE-SYSTEM TECHNOLOGY **SETTINGS**

PRODUCT		SUMMER Shut-Off	SLIDER ADJUSTER SETTINGS	
	POWDERED OR MICRO GRANULAR FERTILIZER		NO ADJUSTMENT OF EITHER SLIDER RECOMENDED	
	MEDIUM GRANULAR FERTILIZER		NO ADJUSTMENT OF EITHER SLIDER RECOMENDED	
	LARGE GRANULAR FERTILIZER		ADJUSTMENT OF THE LEFT SLIDER RECOMENDED 6-7 CLICKS	
	GRASS SEED OR VERY LIGHT MATERIALS		ADJUSTMENT OF THE RIGHT SLIDER RECOMENDED 3-4 CLICKS	
	PELLETED MATERIALS		ADJUSTMENT OF THE LEFT SLIDER RECOMENDED (SELECT CLOSED)	
	LARGE GRANULAR ICE MELTS		ADJUSTMENT OF THE LEFT SLIDER RECOMENDED (SELECT CLOSED)	

WINTER Shut-Off (Orange color)

Please note this chart is a guide only. Due to variations in the spreading characteristics of materials, accurate calibration should be carried out by the operator for each different material being applied.

	SHARP/COARSE SAND		FULL OR REDUCED WIDTH SLIDER OPTION RECOMENDED	
	FLOWABLE SAND / SOIL MIX		FULL SLIDER WIDTH USE RECOMENDED	
	COARSE MARINE SALT		FULL OR REDUCED WIDTH SLIDER OPTION RECOMENDED	
	ROCK SALT		FULL SLIDER WIDTH USE RECOMENDED	
	GRIT MATERIALS		FULL SLIDER WIDTH USE RECOMENDED	

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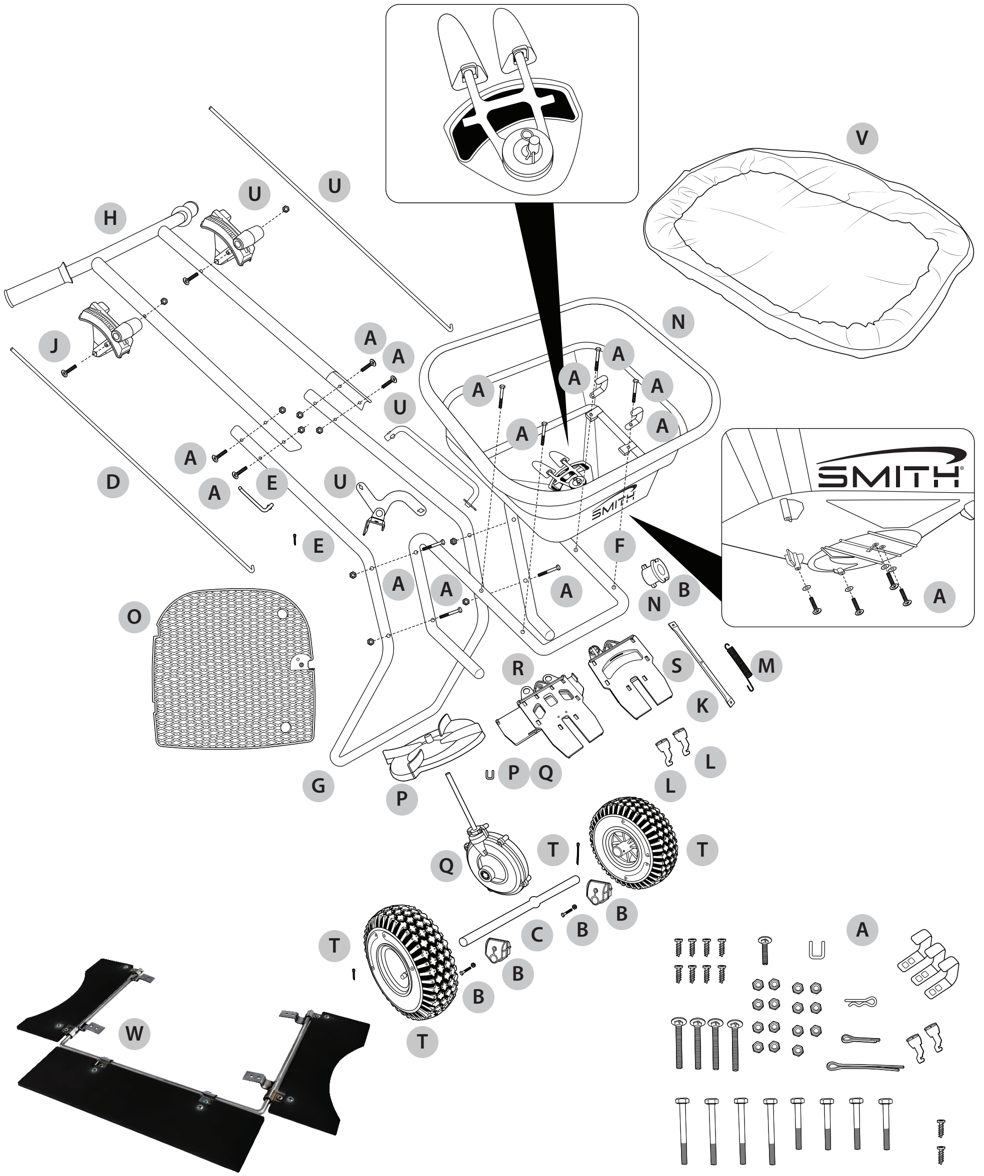
The Fountainhead Group, Inc. is not responsible for misapplication due to incorrect use or incorrect calibration of SMITH® Spreaders. For calibration information please refer to "How to Calibrate" section of the manual prior to initial use.

SPARE PARTS

Item	Part Number	Description
A	186241	Hardware Pack, CRP035, 80/80ST/80SL
B	186242	Bushing Pack, CRP036, 80/80ST/80SL
C	186243	Pipe Axle, CR3006, 80/80ST/80SL
D	186244	Upper Rod, CR3008, SB-80ST
E	186245	Lower Rod + R pin, CRP030, 80/80ST/80SL
F	186246	Hopper Support SS, CR3010-SS, 80/ST/SL
G	186247	Back Frame SS, CR3011-SS, SB-80ST
H	186248	Handle SS, CR3012-SS, SB-80ST
J	186249	Control Unit, CRP006, SB-80/ST
K	186250	Cross Member, CR3024, SB-80ST
L	186251	Spider Agitator, CRP008, 80/80ST/80SL
M	186252	Gearbox Spring, CRP3026, SB-80ST
N	186253	SB80ST Hopper, CRP037, 80/80ST/80SL
O	186254	Debris Screen, CRP009, 80ST/80SL
P	186255	Impeller + U Pin, CRP031, 80/80ST/80SL
Q	186256	Gearbox + U Pin, CRP032, 80/80ST/80SL
R	186291	Summer Plate, CRP9004, SB-65
S	186258	Winter Plate, C2001, 80/80ST/80SL/65
T	186259	Large Pneumatic Wheel, CRP047, 80/80ST/80SL
U	186260	Border Control Kit, CRP040, SB-80ST
V	186261	Raincover, C3050, SB-80ST
Optional Accessories		
W	N/A	3 - Side Winter Deflector Kit

SEE EXPLODED VIEW DRAWING ON NEXT PAGE.



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WARRANTY

1-Year Limited Warranty

This limited warranty gives you, the original product purchaser, specific legal rights. You may also have other rights, which vary from state to state.

The Fountainhead Group, Inc. (FGI) warrants to the original product purchaser, that each product will be free from defects in material and workmanship, under normal use and conditions, for a period of one (1) year from the date of purchase. FGI makes no other express warranties, and all implied warranties, including fitness and merchantability, are limited to one (1) year from the date of purchase.

If the product fails to function as intended, call our customer support at +1-800-311-9903 or email info@thefgi.com. Within the warranty period, FGI will repair or replace any part found to be defective upon our examination. FGI reserves the right to require the return of the defective product with the proof of purchase to establish a claim under this warranty. The warranty period is not extended if we repair or replace the product. All shipping expenses will be covered by the customer.

This limited warranty does not cover any damage or defect resulting from transportation, storage, maintenance, improper use, negligence, accident, normal wear, alterations, or operation or any other activity or action which is not in accordance with the instruction manual. Any parts that are deemed wearable parts are not part of the limited warranty.

In no event shall FGI be liable for any incidental, special, consequential or punitive damages, or for any attorney fees, expenses, losses or delays alleged to be as a consequence of any damage to, failure of, or inadequate product training, but not limited to, any claims for loss of profits.

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