Broadcast Setting Matrix

Ev-N-Spred® 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 outline in #1 above.

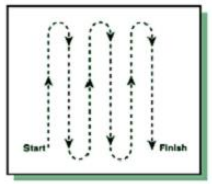
Cable Type Adjustment

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 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.

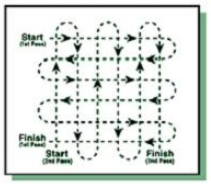
If you have any questions regarding the operation or assembly of your spreader please call us at 800-294-0671 or 574-848-7491 Monday - Friday 9:00am - 4:00pm Eastern. Accessories and Repair Parts are also available at these numbers.

OPTIMUM SPREADING PATTERN

FULL RATE SETTINGS



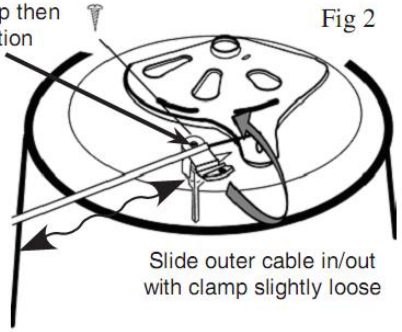
HALF RATE SETTINGS



Cable Type Adjustment

Loosen/tighten screw on cable clamp then slide outer cable in/out for calibration

Fig 2



Slide outer cable in/out with clamp slightly loose

Drop holes shown fully open.

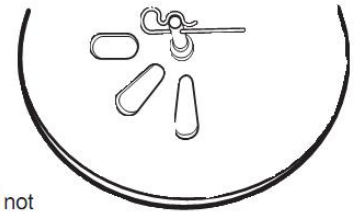
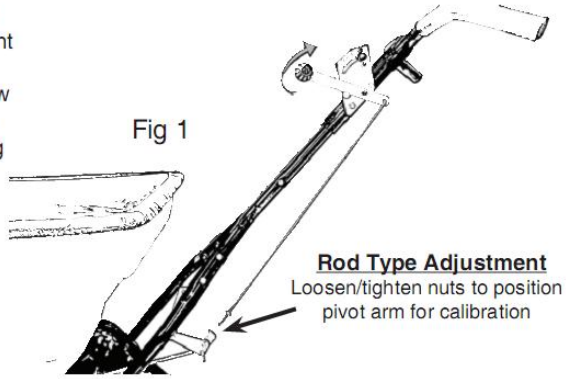


Fig 1



Rod Type Adjustment

Loosen/tighten nuts to position pivot arm for calibration

Pt. #53192

Establishing a Setting Rate

Step 1: Use ***Chart 1*** to estimate the number of LBS/1,000 square feet of coverage (Example: 20LB bag with 10,000 square foot coverage = 2.0LBS/1,000 square feet)

Step 2: Find the closest LBS/1,000 square feet in ***Chart 2*** that you estimated using ***Chart 1*** (Example: 2.0LBS/1,000 square feet = Spreader Setting of 13)

Chart 1

Bag Weight	Bag Sq Ft Coverage: 5,000	10,000	15,000
	LBS/1,000 Sq Ft		
5 LBS.	1.0	0.5	0.3
10 LBS.	2.0	1.0	0.7
15 LBS.	3.0	1.5	1.0
18 LBS.	3.6	1.8	1.2
20 LBS.	4.0	2.0	1.3
25 LBS.	5.0	2.5	1.7
30 LBS.	6.0	3.0	2.0
35 LBS.	7.0	3.5	2.3
40 LBS.	8.0	4.0	2.7
45 LBS.	9.0	4.5	3.0
50 LBS.	10.0	5.0	3.3

Chart 2

LBS/1,000 Sq Ft	Spreader Setting
1.0 LBS.	11
2.0 LBS.	13
3.0 LBS.	14
4.0 LBS.	16
5.0 LBS.	17
6.0 LBS.	18
7.0 LBS.	19
8.0 LBS.	20
9.0 LBS.	22
10.0 LBS.	23

Spread Widths for Different Particle Sizes

Particle Size		Spread Width in Feet
	Small/Fine (Sand)	5 ~ 7ft.
	Medium (Half BB)	7 ~ 9ft.
	Large (Full BB)	9 ~ 12ft.

Grass Seed

LBS/1,000 Sq Ft	Spreader Setting
2 LBS.	13
3 LBS.	14
4 LBS.	16
5 LBS.	17

Spread Width for Different Size Grass Seed

Seed Size	Spread Width in Feet
Fine 	5 ~ 7ft.
Coarse 	7 ~ 10ft.

METRIC RATE SETTING

Determining a Setting Rate

Use chart below to determine the ***Setting Rate*** based on Grams/Square Meter of coverage as directed on the bag.

Spread Widths are determined by the particle size and density. Below will give approximate spread widths.

Setting Rates

Grams per Square Meter	Spreader Setting
5 grams	11
10 grams	13
15 grams	14
20 grams	16
25 grams	17
30 grams	18
35 grams	19
40 grams	20
45 grams	22
50 grams	23

Spread Widths for Different Particle Sizes

Particle Size		Spread Width in Meters
	Small/Fine (Sand)	1.5 ~ 2.1m
	Medium (Half BB)	2.1 ~ 2.7m
	Large (Full BB)	2.7 ~ 3.7m

Spread Width for Different Size Grass Seed

Seed Size	Spread Width in Meters
Fine 	1.5 ~ 2.1m
Coarse 	2.1 ~ 3.1m