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TurfEx®

Walk-Behind Broadcast Spreader

TS-50 & TS-70

Owner's Manual and Installation Instructions

Original Instructions

⚠ CAUTION

Read this document before operating or servicing the spreader.

This document supersedes all editions with an earlier date.

TABLE OF CONTENTS

PREFACE

This manual has been prepared to acquaint you with the safety information, operation, and maintenance of your new walk-behind spreader. Please read this manual carefully and follow all recommendations. This will help ensure profitable and trouble-free operation of your walk-behind spreader. Keep this manual accessible. It is a handy reference in case minor service is required.

When service is necessary, bring your walk-behind spreader to your distributor. They know your spreader best and are interested in your complete satisfaction.

Register your spreader online at *www.turfexproducts.com*

OWNER'S INFORMATION

Owner's Name: _____

Date Purchased: _____

Outlet Name: _____ Phone: _____

Outlet Address: _____

Spreader Type (Model):_____ Weight: _____lb/kg

Spreader Serial Number:_____

SAFETY DEFINITIONS

⚠ WARNING

Indicates a potentially hazardous situation that, if not avoided, could result in death or serious personal injury.

⚠ CAUTION

Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTE: Indicates a situation or action that can lead to damage to your spreader and vehicle or other property. Other useful information can also be described.

LABELS

Please become familiar with the labels on the spreader.

NOTE: If labels are missing or cannot be read, see your sales outlet.

SAFETY PRECAUTIONS

Improper installation and operation could cause personal injury and/or equipment and property damage. Read and understand labels and this Owner's Manual before installing, operating, or making adjustments.

⚠ WARNING

- **Always make sure personnel are clear of areas of danger when using equipment.**
- **Before working with the spreader, secure all loose-fitting clothing and unrestrained hair.**
- **Do not climb into or ride on spreader.**
- **Never attempt to lift a unit with material in it.**
- **Always inspect unit for defects and replace any broken, missing, or worn parts immediately.**
- **Always check areas to be spread to be sure no hazardous conditions or substances are in the area.**

⚠ CAUTION

- **Do not operate a spreader in need of maintenance.**
- **Before operating the spreader, reassemble any parts or hardware removed for cleaning or adjusting.**
- **Before operating the spreader, remove materials such as cleaning rags, brushes, and hand tools from the spreader.**
- **Never use wet materials or materials with foreign debris with this spreader. This unit is designed to handle dry, clean, free-flowing material.**

⚠ CAUTION

DO NOT leave unused material in hopper for long periods of time. Fertilizers are hygroscopic and will attract atmospheric moisture and harden up. Empty and clean after each use.

⚠ CAUTION

DO NOT use rock salt or powdered materials in this spreader, as it will damage gearbox and can void warranty. Use only granular materials.

NOTE: Lubricate grease fittings after each use. Use a good quality multipurpose grease.

PERSONAL SAFETY

- Wear only snug-fitting clothing while working on your spreader.
- Do not wear jewelry or a necktie, and secure long hair.
- Wear safety goggles to protect your eyes from dirt and dust.

LOADING YOUR SPREADER

⚠ WARNING

Do not overload spreader. Use chart below to calculate weight of material. Weights of material are an average for dry materials.

Material Weights

⚠ CAUTION

Read and adhere to fertilizer manufacturer's material package labeling including Safety Data Sheet requirements.

Material	Density (lb/ft^3)
Fertilizer	See product information on bag or bulk material.
Seed	See product information on bag or bulk material.
Rock Salt	80–90

Material densities are approximate and are based on dry, loose material. It is the responsibility of the operator to know the weight of the material to be spread.

⚠ WARNING

Never use wet materials, or materials with foreign debris with the spreader. The unit is designed to handle dry, clean, free-flowing material.

⚠ CAUTION

DO NOT leave unused material in hopper. Material can freeze or solidify, causing unit to not work properly. Empty and clean after each use.

ASSEMBLY INSTRUCTIONS

⚠ WARNING

Use safety glasses and gloves when inflating and installing the tires. Use manual pump only to inflate. Refer to the tire sidewall for manufacturer's recommended pressure. Do not exceed the maximum inflation pressure.

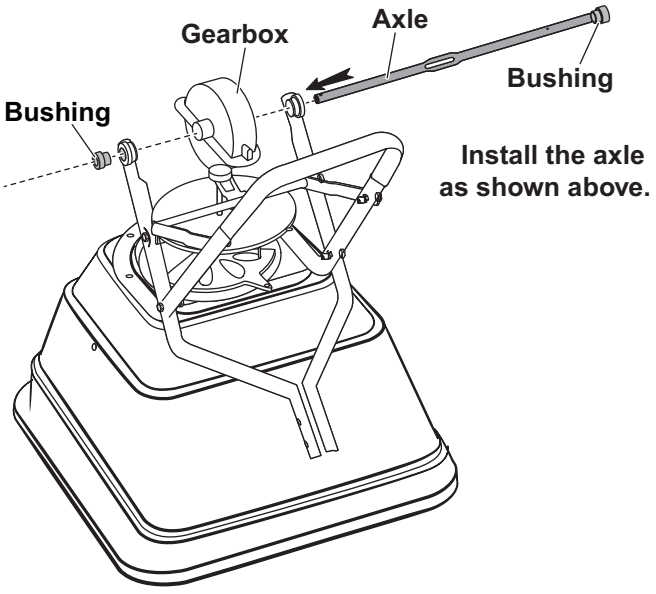
Tires are not fully inflated when shipped. Inflate tires with a manual pump.

Attach the Wheels

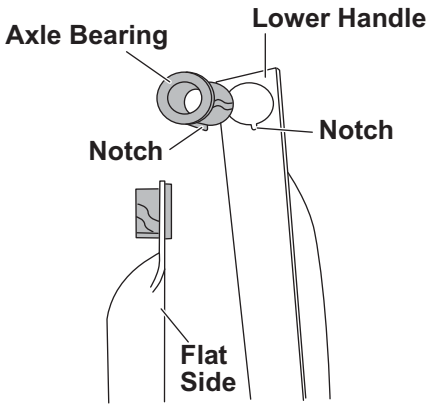
1. Remove the spreader and parts from the carton and arrange on the floor.

2. Remove and discard the insert plugs from each side of the axle shaft.

3. Insert the axle through the axle hole in the lower handle, then through the gearbox, and through the lower handle on the other side of the spreader as shown.



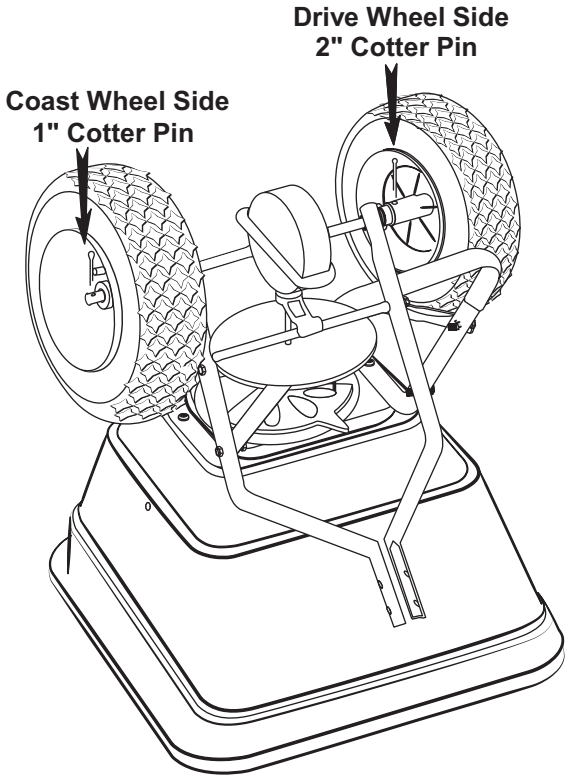
NOTE: Align the notches on the bearing and the lower handle. Bearings must go through flat side of lower handle (from the outside to the inside).



4. Slide the axle bushing over the axle and into the axle bearing on both sides as shown.

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

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



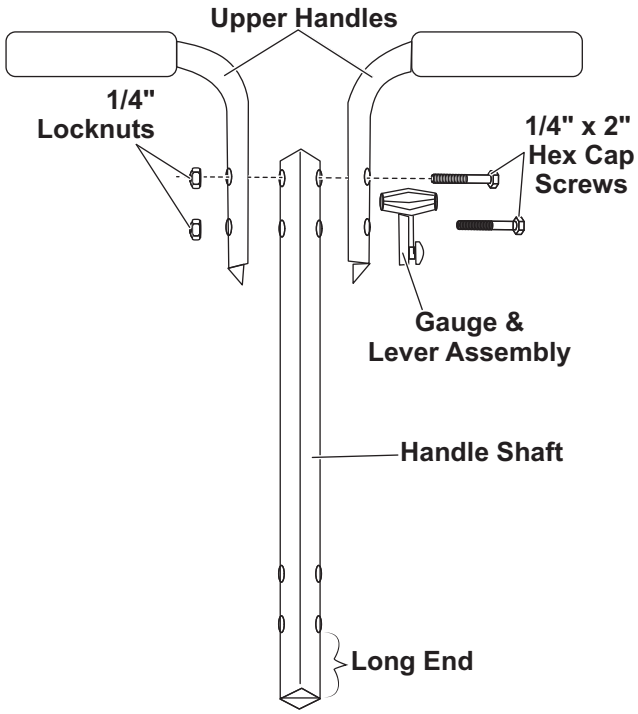
7. Turn the spreader over and onto the wheels.

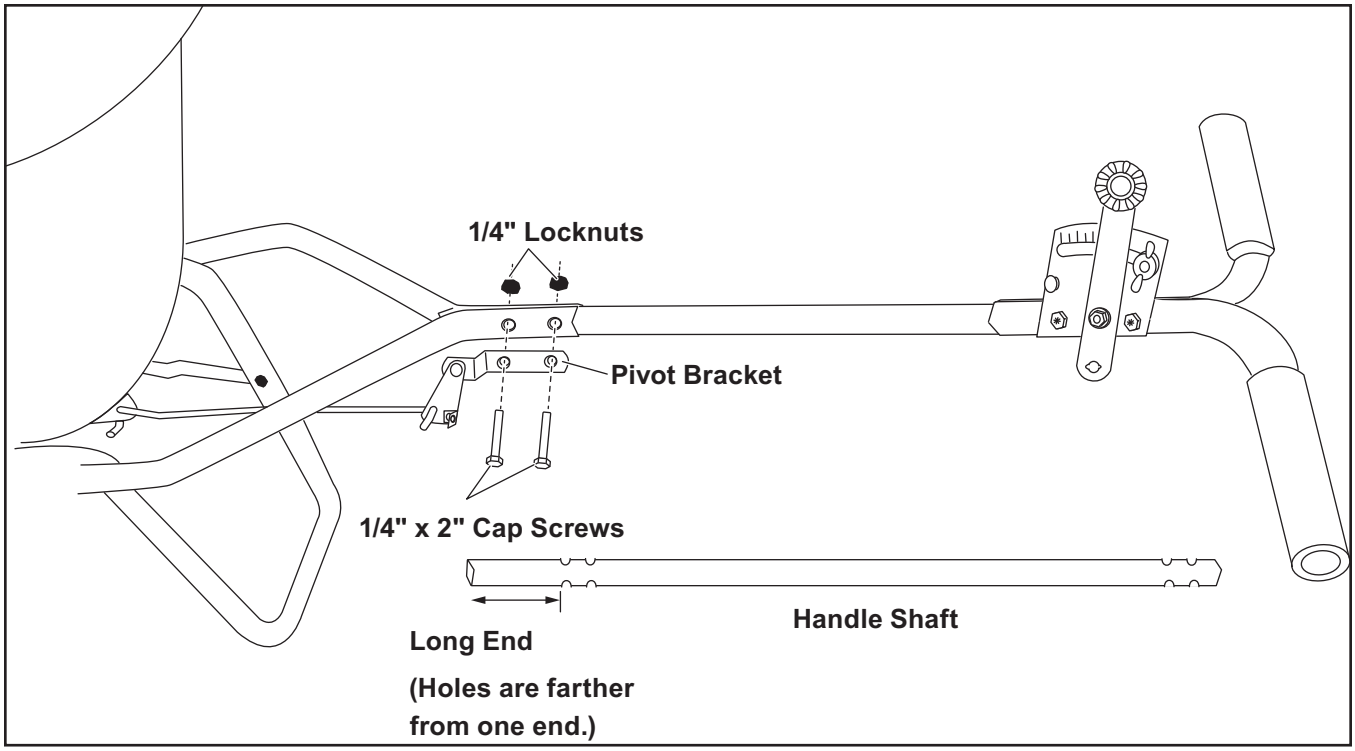
Handle Assembly

1. Remove the pre-installed cap screws where the handle attaches to the lower handles and pivot bracket assembly. Insert the handle and re-install the two 1/4" x 2" cap screws.

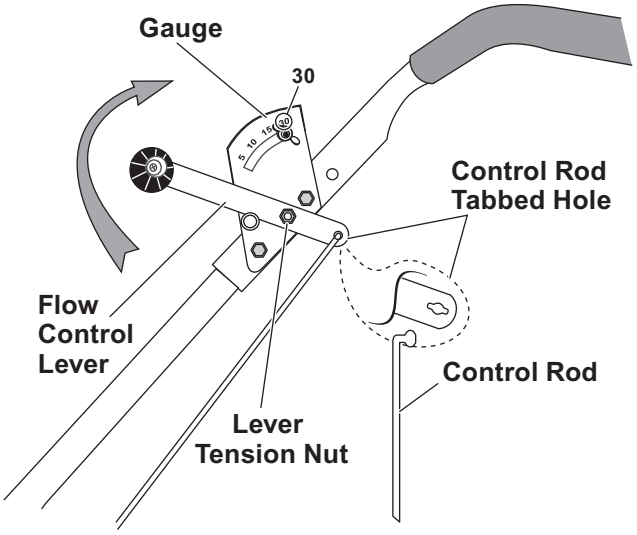
NOTE: It may require some torsion to get the handle aligned to the frame.

2. The control rod and hex nuts are pre-attached to the gauge and flow control lever. Remove one 1/4" hex nut from the control rod. Insert the shaft into the pivot bracket, re-install the hex nut, and tighten the fasteners.





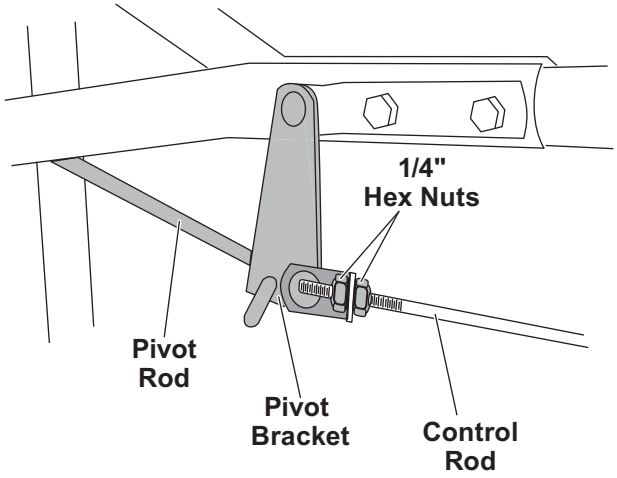
3. Insert the flattened end of the control rod into the lever on the gauge as shown. Turn it to lock in place. Push the lever forward to setting "0." Align the control rod with the hole in the pivot bracket. Pull the lever backward to insert the control rod through the hole in the pivot bracket. Install a 1/4" hex nut on the control rod.



4. Pull the lever back to setting "30" as shown. Push the pivot bracket forward so that the shut-off plate in the hopper is in the full open position.

NOTE: Setting 30 on the flow control lever must place the shut-off plate in the "FULL OPEN" position to be properly calibrated.

5. Tighten the 1/4" hex nuts against the pivot bracket to prevent change in calibration.



6. Adjust the tension on the flow control lever by tightening or loosening the tension nut as shown.

7. **USING HAND TOOLS ONLY,** tighten all fasteners on the spreader frame.

8. Insert the agitator to the pinion shaft on the inside of the hopper.

NOTE: Make note of the position of the flat side of the agitator. The pin should be installed as shown.

9. Install the debris screen into the hopper. Insert the pre-installed 1/4" x 1" stainless steel cap screws through the holes in the side wall of the hopper. Secure with 1/4" stainless steel locknuts. **TIGHTEN WITH HAND TOOLS ONLY.**

INSTALLING OPTIONAL DEFLECTOR KIT

Assemble the Deflector

1. Locate all parts listed in Figure 1.
2. Install the spacer onto the front deflector assembly.
3. Place the front deflector assembly into the deflector corner slots from the bottom as shown below.
4. Install and tighten the #10 x 5/8" pan head Phillips screw in the deflector corner. This completes the deflector assembly.

NOTE: The lower edges of the deflector taper to the inside of the assembly and spreader as shown in Figure 2 below.

Installing Deflector on Spreader

Remove the bolt from the lower handle and frame as shown in Figure 3 from each side of spreader. Slide the deflector assembly from front of the spreader to the back, resting the left and right bracket assembly arms over the holes in the lower handle. Reinstall the bolts and nuts.

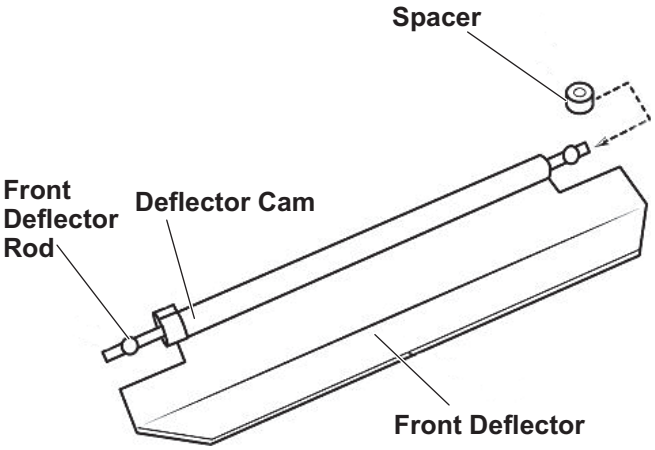


FIGURE 1

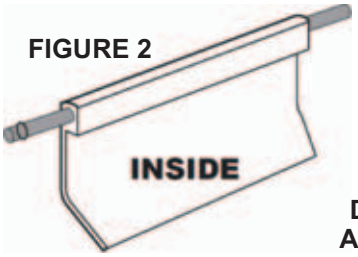
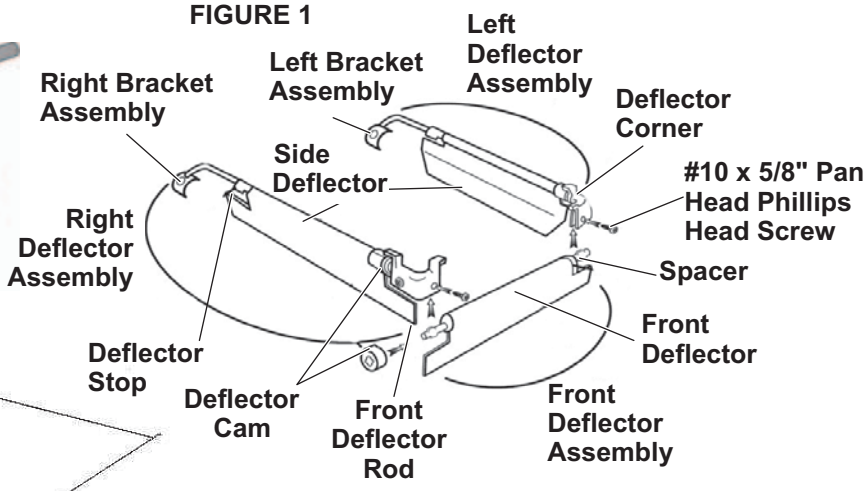


FIGURE 2



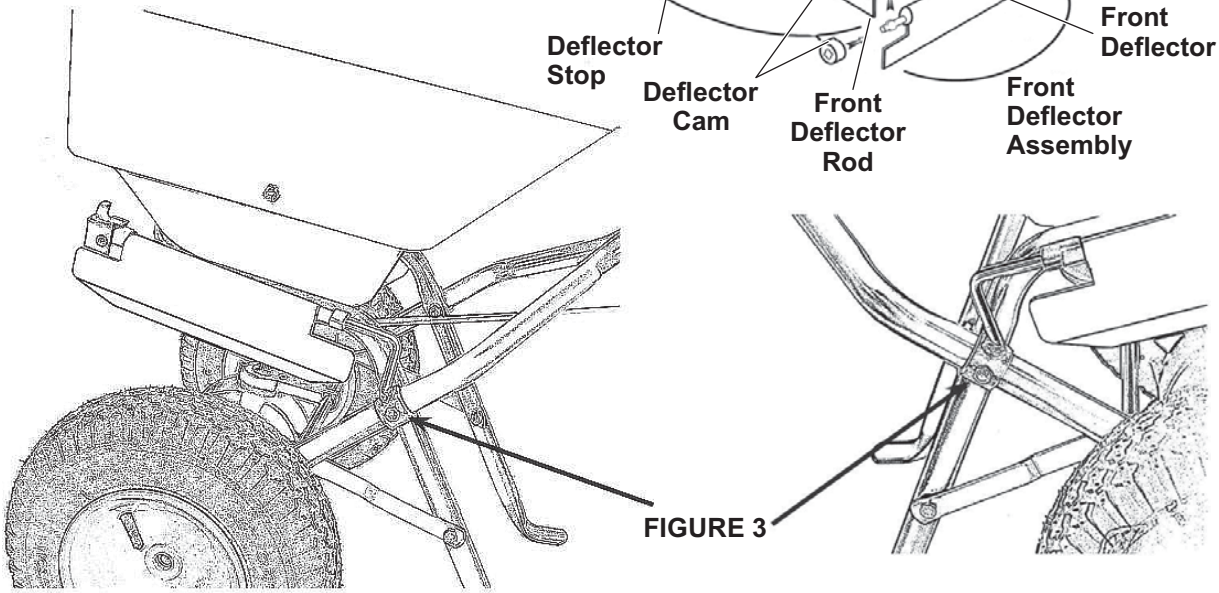


FIGURE 3

OPERATING INSTRUCTIONS

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

2. Obtain the proper setting for the material to be used from the Broadcast Spreader Setting Matrix section of this manual, or from our website under the Product Info > Owner's Manuals section.

3. Move the stop bolt on the rate gauge assembly to the proper setting.

4. While pushing the spreader forward, pull the control lever back to the stop bolt.

5. To stop spreading, push the lever forward to close the flow holes before you stop moving.

6. When finished, empty any remaining material from the hopper.

7. Thoroughly wash the spreader and allow it to dry before storing. A coating of light oil will help prevent corrosion.

8. If you use rock salt, remove the agitator to prevent damage to the gearbox.

DEFLECTOR-FREE CONTROL OPERATION

The deflector-free control feature is a new innovation that eliminates the need to use a side deflector. Side deflectors can adversely affect your application rate, and prevent material from being spread into flower beds, on sidewalks, or driveways.

The deflector-free control maintains the correct application rate while it is activated, giving you excellent results in seeding or spreading while controlling the spread pattern on the left side of the spreader.

The deflector-free control lever is located on the back of the hopper at the bottom.

To operate, slide the control lever from the left to the right. This will activate the deflector-free control for a partial spread pattern and will prevent material from being spread to the left side of the spreader.

Position the left wheel of your spreader 12"–16" from the sidewalk, flower bed, or driveway, and spread as normal. When you have completed this spreading pass, open the deflector-free control by sliding the control lever from right to left, for a full-spread pattern.

SETTING A RATE, CALIBRATION, AND SPREAD PATH

NOTE: The settings furnished in the 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 these conditions, TrynEx® International, LLC, makes no warranty as to the uniformity of coverage actually obtained from the settings listed.

ESTABLISHING A SETTING RATE

1. Divide the bag weight by the listed coverage of the bag to give the suggested rate in lb/1,000 ft^2.

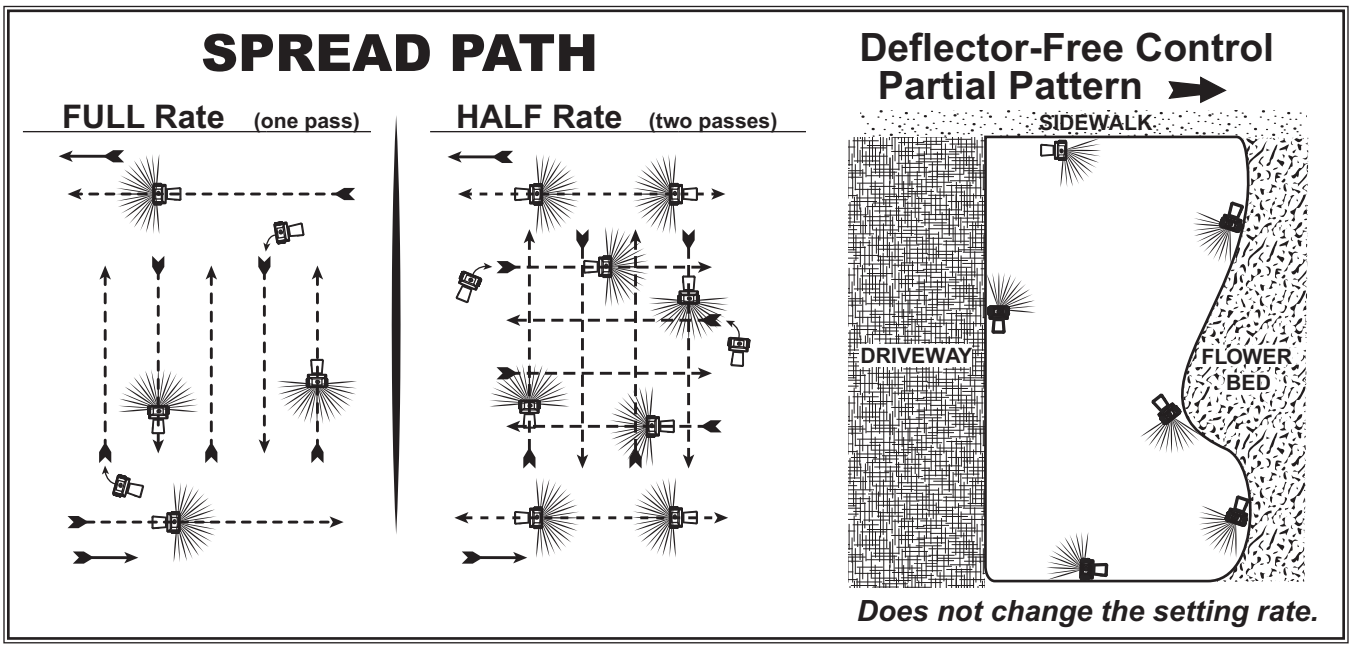
   Example: 37 lb/10,000 ft^2 = .0037
   Then multiply by 1,000: .0037 x 1,000 = 3.7 lb/1,000 ft^2

2. Find the closest lb/1,000 ft^2 in the Broadcast Setting Matrix below, based on the material particle size.

   Example: 2 lb/1,000 ft^2 = Spreader Setting of 10, 13, or 18 based on particle size.
   Then multiply by 1,000: .0037 x 1,000 = 3.7 lb/1,000 ft^2

Calibration

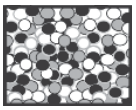
Start by ensuring that the spreader calibration is correct. Make sure that the drop holes are fully open when the rate control lever is on 30. If not, adjust the control rod at the pivot bracket to allow for fully-open hopper holes with the control lever at position 30.

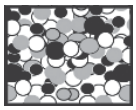


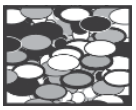
BROADCAST SPREADER SETTING MATRIX

Granular Material

PARTICLE SIZES:

Fine/Small → 1/16" (1.5 mm) (SAND) 

Medium → 3/32" (2 mm) 

Large → 1/8" (3 mm) (ICE MELT) 

lb/1,000 ft²	Setting	Spread Width (ft)	Setting	Spread Width (ft)	Setting	Spread Width (ft)
1	7	9'	9	12'	14	15'
2	10	9'	13	12'	18	15'
3	13	9'	16	12'	23	15'
4	14	9'	20	12'	27	15'
5	16	9'	22	12'	30	15'
6	18	9'	25	12'	23 x 2 pass	15'
7	20	9'	27	12'	25 x 2 pass	15'
8	22	9'	28	12'	27 x 2 pass	15'
9	24	9'	30	12'	28 x 2 pass	15'
10	26	9'	22 x 2 pass	12'	30 x 2 pass	15'
g/m²	**Setting**	**Spread Width (m)**	**Setting**	**Spread Width (m)**	**Setting**	**Spread Width (m)**
5	7	5.5 m	9	7.3 m	14	11 m
10	10	5.5 m	13	7.3 m	18	11 m
15	13	5.5 m	16	7.3 m	23	11 m
20	14	5.5 m	20	7.3 m	27	11 m
24	16	5.5 m	22	7.3 m	30	11 m
29	18	5.5 m	25	7.3 m	23 x 2 pass	11 m
34	20	5.5 m	27	7.3 m	25 x 2 pass	11 m
39	22	5.5 m	28	7.3 m	27 x 2 pass	11 m
44	24	5.5 m	30	7.3 m	28 x 2 pass	11 m
49	26	5.5 m	22 x 2 pass	7.3 m	30 x 2 pass	11 m

Grass Seed

lb/1,000 ft²	Fine Setting	Spread Width (ft)	Coarse Setting	Spread Width (ft)
2	14	8'	22	14'
3	16	8'	25	14'
4	18	8'	28	14'
5	20	8'	30	14'
g/m²	**Fine Setting**	**Spread Width (m)**	**Coarse Setting**	**Spread Width (m)**
10	14	2.4 m	22	4.3 m
15	16	2.4 m	25	4.3 m
20	18	2.4 m	28	4.3 m
25	20	2.4 m	30	4.3 m

HELPFUL HINTS:

- If your spreader does not spread evenly, be sure that the FRONT on the gearbox points to the front of the spreader. The impeller must turn clockwise. Reversing the gearbox will cause the impeller to turn counterclockwise. Clean the impeller after each use. Some fertilizer may become stuck on the impeller blades and cause uneven spreading.
- Your spreader is designed to be pushed at 3 mph, 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. To prevent rust, coat all metal surfaces, and inside tubes where possible, with a light oil or multi-use lubricant. Wash between the shut-off plate and bottom of the hopper.
- Gears are permanently lubricated at the factory. Do not open the gearbox or dirt may enter the gearbox.
- If you must use rock salt, remove the agitator to prevent damage to the gearbox and remove salt from the hopper on a daily basis. Rock salt will reconstitute back into a solid block overnight with humidity and will damage the spreader.

SPREADING TIPS

- Use care when operating spreader near pedestrians.
- Calculate spread pattern when near vegetation.
- For a wider pass, increase walking pace.
- For a heavier pass, walk slower.

ACCESSORIES AND SERVICE PARTS

Accessories and spare parts may be ordered direct from the authorized dealer. Provide the following information when placing an order:

- Model Number
- Part Number
- Part Description

For questions regarding the operation or assembly of your spreader, or to order accessories and repair parts, please contact your authorized dealer.

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