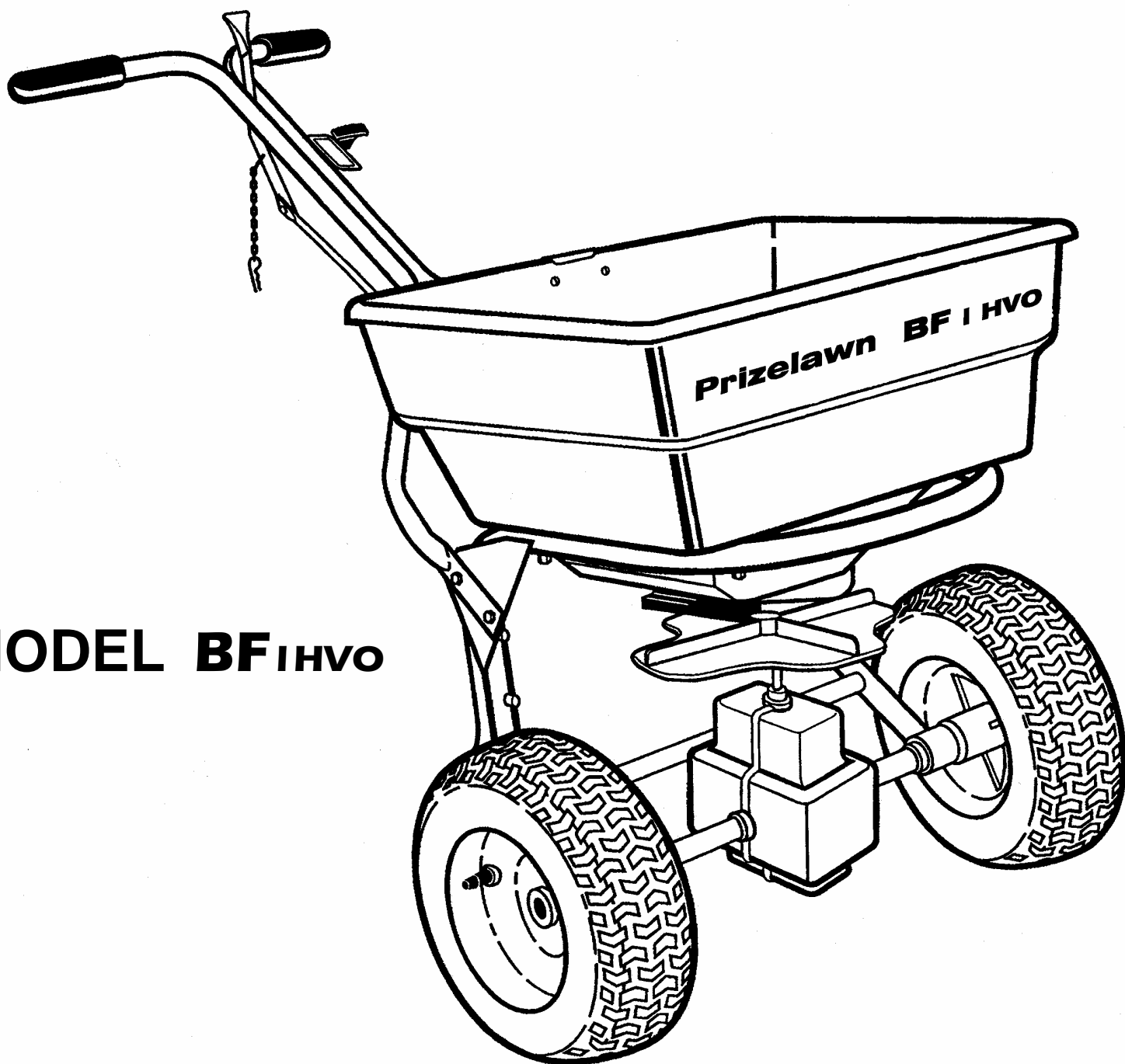


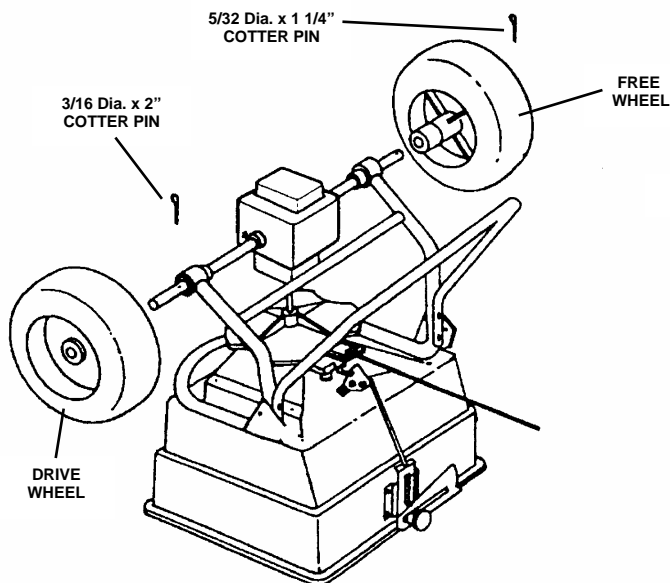
Prizelawn® BF1HVO
COMMERCIAL BROADCAST SPREADER



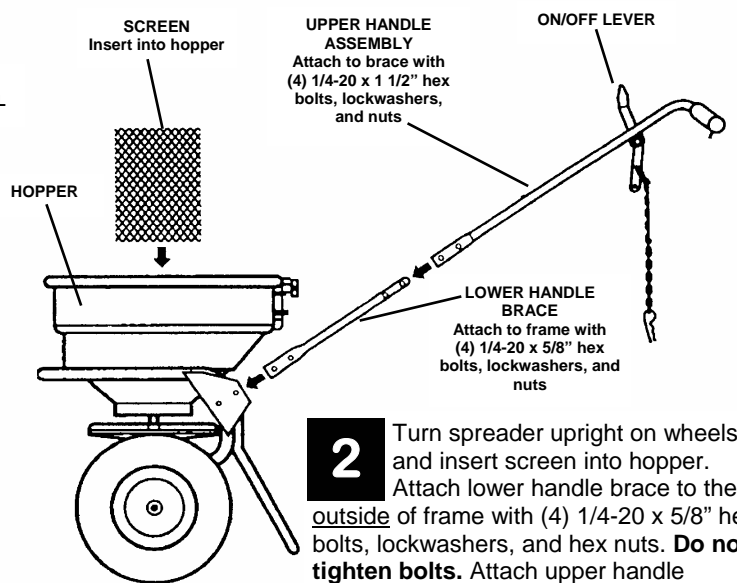
MODEL BF1HVO

OWNER'S MANUAL

ASSEMBLY

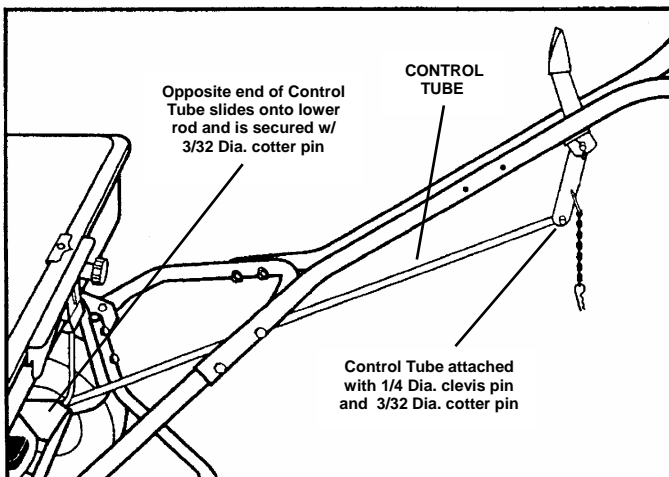


1 Remove spreader and components from carton and place spreader upside down. Slide drive and free wheels on axle as shown with the longer portion of wheel hub facing the frame. Secure free wheel with a 5/32 Dia. x 1 1/4" cotter pin. Attach drive wheel to axle with 3/16" Dia. x 2" cotter pin.

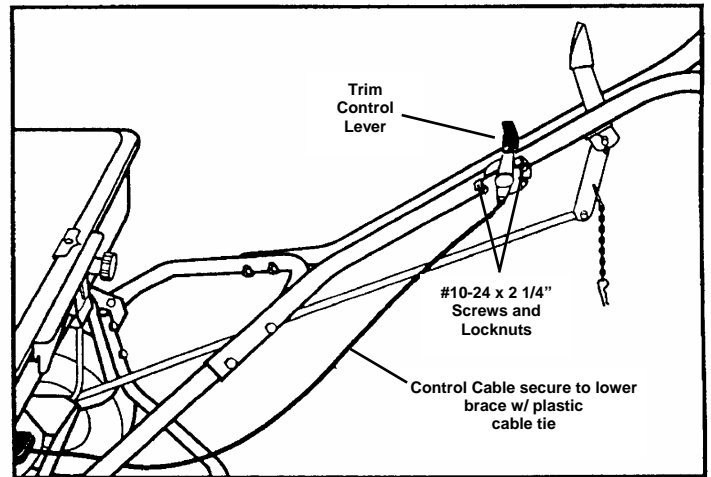


2 Turn spreader upright on wheels and insert screen into hopper. Attach lower handle brace to the outside of frame with (4) 1/4-20 x 5/8" hex bolts, lockwashers, and hex nuts. **Do not tighten bolts.** Attach upper handle

assembly to brace (make sure on/off lever is positioned as shown) using (4) 1/4-20 x 1 1/2" hex bolts, lockwashers, and nuts. Tighten securely. Install handle grips onto upper handle.



3 Install on/off control tube to control lever using 1/4 Dia. clevis pin and 3/32 Dia. x 5/8" cotter pin. Remove tape holding the lower rod to the pivot lever and slide opposite end of control tube onto lower control rod. Secure with a 3/32 Dia. cotter pin.



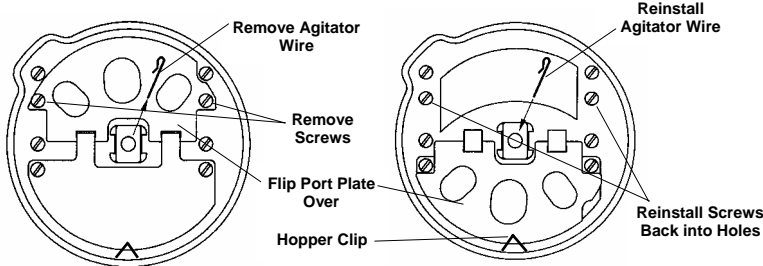
4 Attach trim control lever to the upper handle using (2) #10-24 x 2 1/4" screws and locknuts. Secure control cable to lower brace with the plastic cable tie. **TIGHTEN ALL NUTS AND BOLTS LEFT LOOSE IN STEP #2.**

5 To check spreader for complete shutoff, pull the on/off control lever back to the "OFF" position. Determine if the port holes are completely closed. If they are not, loosen the brace/frame bolts and push down on the handle and front of spreader. Re-tighten bolts and check shutoff.

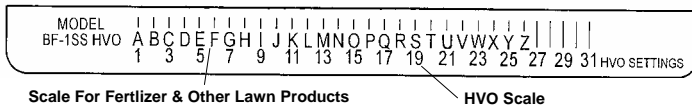
OPERATION

This spreader is designed to apply normal lawn products or it can be easily converted to apply high volumes of pelletized mulch, sand, ice melt, limestone, and other **FREE FLOWING** products.

1 This spreader is factory set to apply normal lawn products. To convert to the **HVO** mode, slide the agitator wire out of the impeller shaft and remove the (2) screws securing the port plate inside the hopper. Flip the port plate over and lock under the clip in the hopper as shown. Reinstall the screws into their original holes and slide the agitator wire back into the impeller shaft.



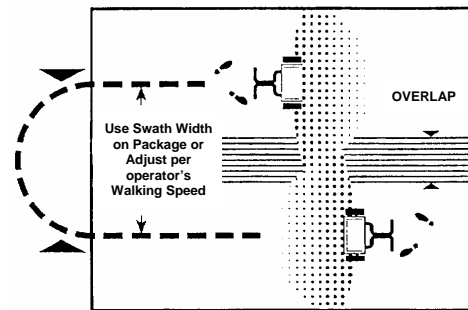
2 Check the product package for the rate setting (letter), pattern setting, (number), and recommended swath width. Loosen the rate control knob and slide the rate plate to the proper rate setting. **NOTE: the rate plate scale is split into two sections.** The "A thru Z" scale is for fertilizers and other standard lawn products. The #1 thru #31 scale is for the **HVO** mode.



5 The setting and swath width on the product label are recommended starting points. Always check the delivery rate and pattern on a small area before treating a large area. Actual delivery rates can vary due to weather condition, operating variables, and condition of the products being applied. See "**HOW TO DETERMINE SETTING AND SWATH WIDTH**" for details.

6 For fertilizer and other turf products, push spreader at 2 1/2 m.p.h. (18 feet in 5 seconds). **Some HVO products require a reduced speed to obtain the proper spread pattern and delivery rate.** Apply header strips at each end of area to be treated then space trips across the area as shown.

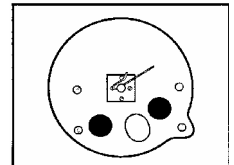
7 To keep material off walks, flower beds, borders, etc., the pattern can be narrowed by pulling the trim control lever on the handle to the "ON" position. The pattern will end just beyond the right wheel.



3 The trim control is remotely operated at the handle. This adjusts the pattern on the RH. side. The auxiliary slide is set at the hopper and adjusts the pattern on the LH. side. The pattern control to center the pattern from left to right is described below. See "**PATTERN ADJUSTMENT**" for further details.

4 Before filling hopper, make sure on/off control lever is in the "OFF" position. For fertilizer and other lawn products, make sure screen is in the hopper. For large partical HVO products, remove the screen. Fill hopper. Start spreader moving before opening ports, close ports before stopping spreader. Always push spreader. **DO NOT PULL.** Hold handle so top of spreader is level.

8 A narrow band of product can be applied by closing the trim control and the auxiliary shut-off slide leaving only the center port open as shown.

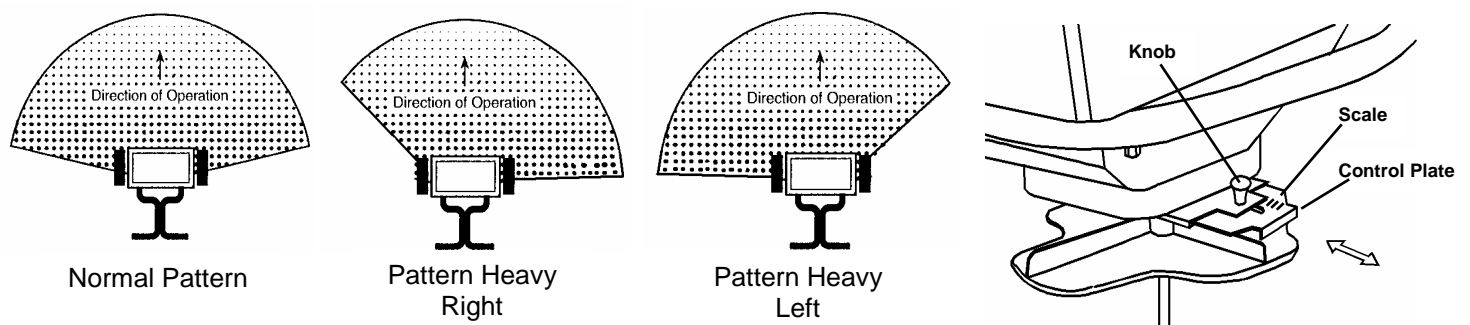


9 Empty the spreader after each use. Return leftover material to its original container.

10 When transporting the spreader from location to location, make sure the on/off control lever is locked in the "OFF" position securing the lever with the hitch pin.

PATTERN ADJUSTMENT

Normal spreading of material requires no adjustment unless otherwise stated on the package. In those cases where the spread pattern has shifted, the pattern can be adjusted. If the pattern is heavier to the left (as viewed from the operating position), loosen the knob and move the control plate in toward the hopper. If it is heavy to the right, move the control plate out away from the hopper. Tighten knob after each adjustment is made. A scale is stamped into the control plate to provide



HOW TO DETERMINE SPREADER SETTINGS AND SPREAD WIDTH

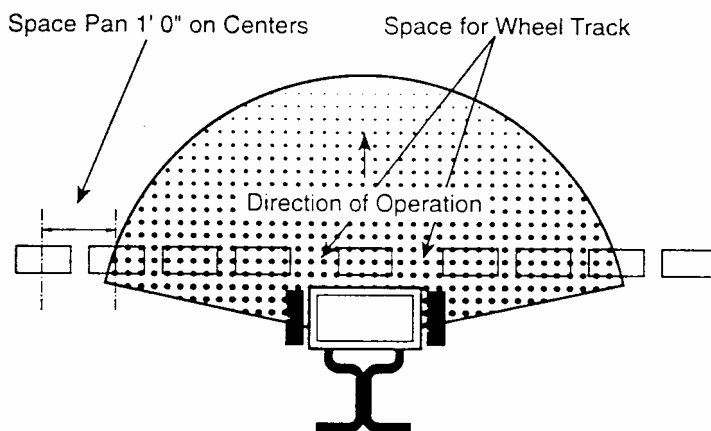
Two major factors should be considered when determining correct spreader settings of any product:

1. The product application rate, or the amount of material applied per 1,000 square feet.
2. The effective pattern width, or the actual width in which material is applied. Label settings are a guide and can be affected by numerous factors

EFFECTIVE PATTERN WIDTH

A simple visual pattern test can be made by operating spreader over a non-turf area and evaluating the pattern. A more accurate method is to place a row of common, disposable, aluminum cake pans approximately 1 foot on centers. Set the rate plate at a middle setting and make 3 or 4 passes in the same direction as shown. Pour the material collected from each pan into individual bottles of the same size. Set them side by side in order, and visually inspect their volume. If the pattern is not centered (example: volume in bottle #2 left not equal to bottle #2 right) adjust the pattern control as described in the "PATTERN ADJUSTMENT" section.

Once the pattern is uniform, the effective pattern width can be determined. The effective pattern



width is the distance out from the spreader to a point where the amount of material is 1/2 the average amount in the center pans. This distance is multiplied by 2 to achieve the total effective pattern width.

APPLICATION RATE

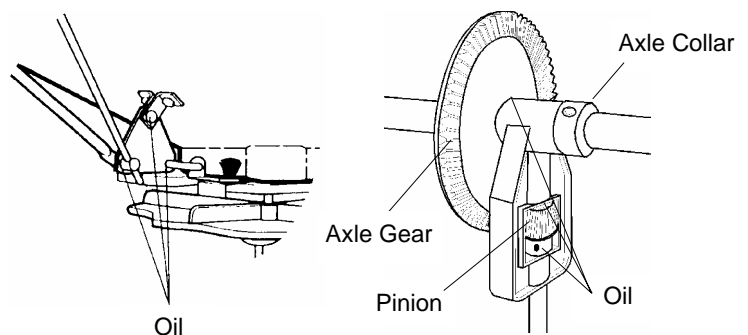
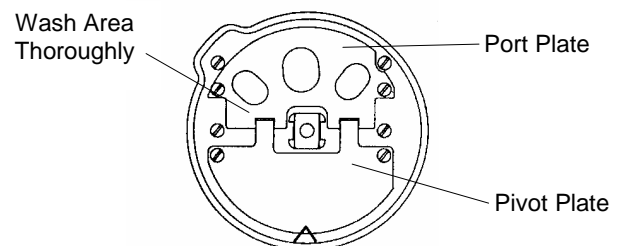
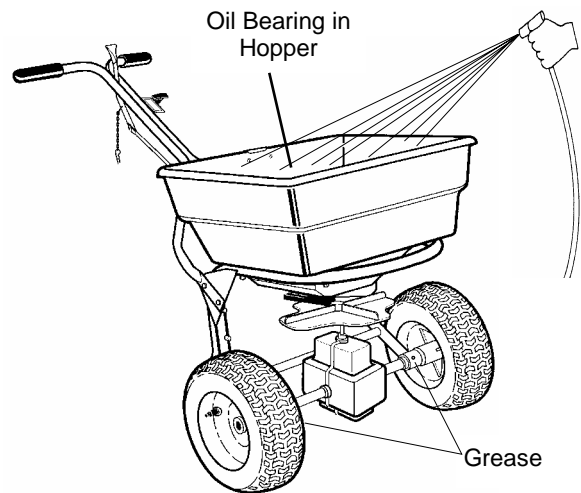
Knowing the effective pattern width (for example, 10 feet), measure a distance equal to 100 square feet (10' x 10' swath width). Determine the product coverage in pounds / 100 sq. ft. by taking the weight of product and dividing it by the recommended square foot coverage (add two zeroes to the weight of the bag).

EXAMPLE: Product Weight: 25 lbs.
Sq. Ft. Coverage: 5000 sq. ft.
 $2500 \text{ lbs.} \div 5000 \text{ sq. ft.}$
 $= .5 \text{ lbs.} / 100 \text{ sq. ft.}$

Weigh out between 15 to 20 lbs. of material and spread over the 100 sq. ft. area. Weigh remaining material left in hopper and adjust rate setting as required. Repeat test until application rate is correct.

MAINTENANCE

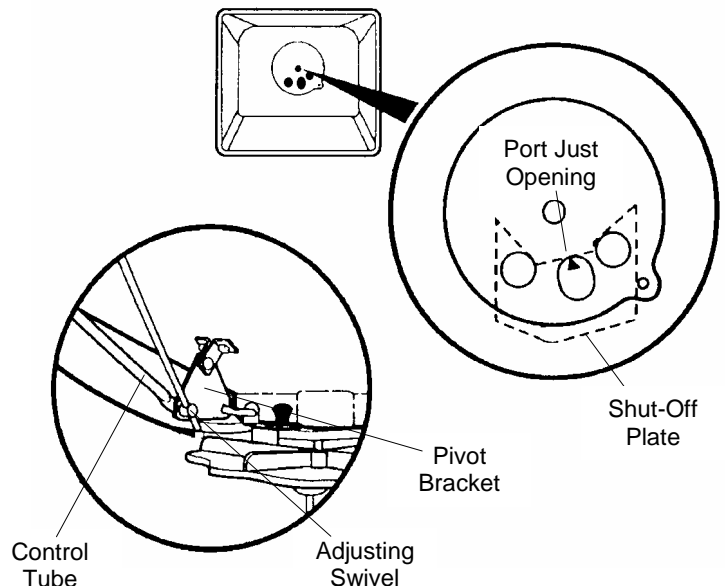
- 1** Never store material in spreader. Return unused product to its original container.
- 2** Wash spreader thoroughly after each use. Make sure the port and pivot plate inside the hopper are clear of particles that could prevent the port plate from being flipped over easily. Allow spreader to dry completely in the sun or heated area.
- 3** Grease the axle bearings in the frame. Oil the impeller shaft bearing in hopper, and pivot points on the shut-off linkage and spring in the housing behind the rate plate.
- 4** Remove the gear cover and wash the gears thoroughly and oil all bearing areas as shown. Re-install gear cover.
- 5** Gear mesh should be checked on a regular basis during high use periods. Clearance between the axle gear and pinion gear should be minimal, but not tight. If adjustment is necessary, loosen the axle collar set screw and hold the gears together. Slide axle collar against the gear support and tighten axle collar set screw. Spin drive wheel. Gears should run freely and smoothly.
- 6** Impeller surface should be cleaned periodically to remove build-up of product. Build-up can cause the spread pattern to change.
- 7** Tire pressure should be 20-25 lbs.



CALIBRATION INSTRUCTIONS

The **BFi.hvo** spreader was factory calibrated, however calibration should be checked occasionally to assure optimum performance.

- 1** Make sure the spreader is in the fertilizer mode (three hole port). Pull the on/off lever to the closed position. Loosen the rate control knob and set the rate control plate to setting "A". Retighten knob.
- 2** Flip on/off control lever forward to the "ON" position. Check the center port hole. It should be just open as shown. If adjustment is necessary, continue to step #3.
- 3** Remove cotter pin from the adjusting swivel and slide off control tube. Slide swivel out of hole in pivot bracket. **NOTE SIDE OF PIVOT BRACKET FROM WHICH IT WAS REMOVED.** Thread swivel up or down on lower rod as required. Install swivel back into pivot bracket facing the same way it was removed. Check calibration and repeat unit it is correct. Reinstall control tube and secure with cotter pin.








RATE SETTING CONVERSION

The following provides approximate **Prizelawn BF_{1SS HVO}**, **BF_I**, and **CBR_{III}** settings for those units listed.

Prizelawn BF_{1HVO} Setting	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	
PrizeLAWN CBR_{II} Setting	—	—	2	—	2.5	—	3	3.5	—	4	—	4.5	5	5.5	6	6.5	7	8	9.5	10	11	12	13	14	15	—	
Lesco #029600 Setting	A	—	B	C	D	—	E	F	—	G	H	I	—	J	K	L	—	M	N	O	—	P	Q	R	—	S	
Scotts R8A/SR-1 Setting	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	—	V	W	—	X	Y	Z	
Earthway 2200/2400 Setting	5	—	—	—	—	10	—	—	—	—	15	—	—	—	—	20	—	—	—	—	—	25	—	—	—	—	30
Spyker 76/78-2 Setting	—	—	3	—	—	—	4	—	—	5	—	—	6	—	—	7	—	—	8	—	—	—	9	—	—	10	

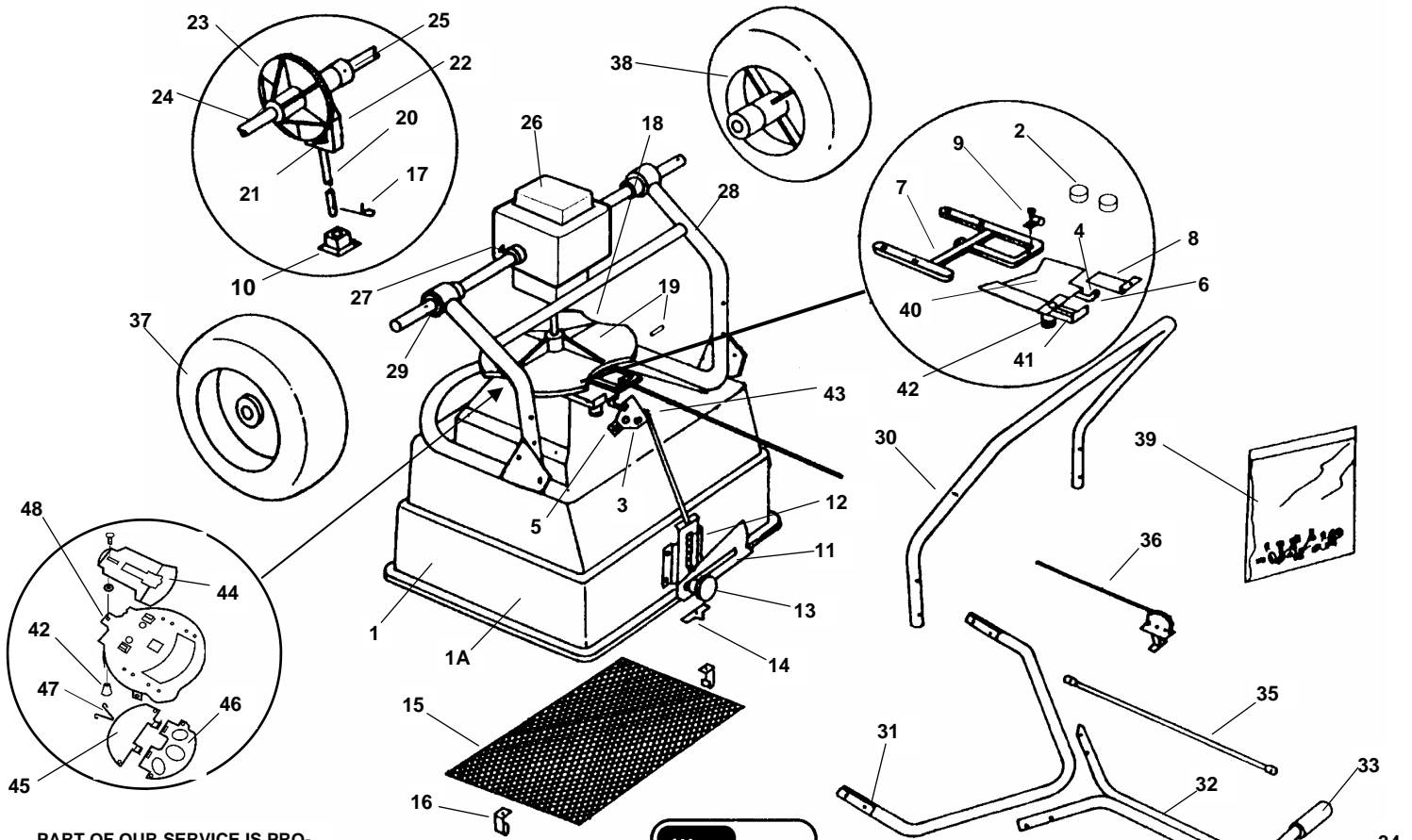
The following provides approximate **Prizelawn BF_{1SS HVO}**, **BF_I**, and **CBR_{III}** settings when only the product weight, square foot coverage, and visual inspection of material is available.

FERTILIZER PARTICLE SIZE	BAG RATE Pounds of fertilizer used per 1,000 sq. ft. of coverage	APPROX. SETTING	SPREAD WIDTH (IN FEET)
Large, heavy particles 	5	J	12
	10	K	12
	15	L	12
Medium- mixed particles 	5	G	10
	10	H	10
	15	I	10
Small particles (nitrogen) 	1	D	10
	2	F	10
	3	J	10
Mixed size particles -some fines 	5	I	8
	10	J	8
	15	K	8
Light weight particles 	5	F	6
	10	G	To
	15	H	8

The conversions should be used as guidelines for establishing proper rate settings for the particular product being applied. Steps for obtaining the most accurate settings are outlined in the "How to Determine Spreader Settings and Spread Width" section of this manual.

These settings are approximate and may vary due to physical characteristics of the product. Walking speed, wear, condition of the turf and humidity, may cause actual rate setting to deviate. No expressed nor implied warranty or guarantee is provided as to coverage or uniformity indicated by these rate settings.

PARTS LIST MODEL BFiHVO



PART OF OUR SERVICE IS PROVIDING REPLACEMENT PARTS, Parts may be obtained through your local distributor. Be sure to give the:

1. SPREADER MODEL NUMBER
2. SPREADER NAME
3. PART NUMBER
4. NAME OF PART AS SHOWN

IF YOUR LOCAL DISTRIBUTOR CANNOT SUPPLY

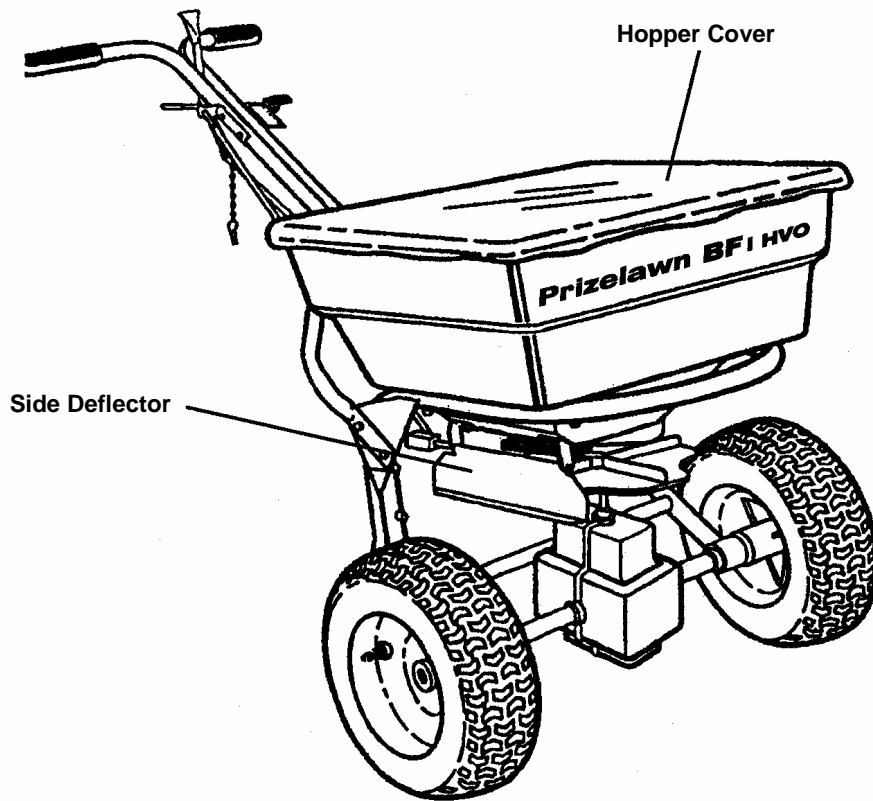


PSB Company
 555 West Goodale Street
 P.O. Box 1089
 Columbus, Ohio 43216-1089
 (614) 228-5781 EXT. 655

*Parts in hopper ass'y
 **Parts in impeller ass'y
 *** Parts in shut-off plate ass'y

#	BFiHVO	DESCRIPTION	#	BFiHVO	DESCRIPTION	#	BFiHVO	DESCRIPTION
1	15095	Hopper*	16	14864	Screen Clip (2)	32	14907	Upper Handle
1A	15094	Hopper Assembly	17	14865	Agitator	33	14870	Handle Grips
2	14879	Hopper Hole Plug (2)*	18	15102	Impeller Assembly	34	14047	Handle Lever Assembly
3	15096-1	Pivot Lever Assembly*	19	15071	Impeller w/ Roll Pin**	35	14916	Control Tube
4	14846	Shut-Off Plate Link*	20	14867-3	Impeller Shaft**	36	14859	On/Off Control w/ Clamp
5	14848	Reinforcing Plate*	21	14833	Pinion Gear w/ Roll Pin**	37	14856	Drive Wheel w/ Cotter Pin
6	15098	Shut-Off Plate Assembly*	22	14834	Gear Support**	38	14857	Free Wheel w/ Cotter Pin
7	14836-1	Shut-Off Plate Guide*	23	14832	Axle Gear w/ Roll Pin**	39	14912-1	Fastener Package
8	15100	Aux. Shut-Off Plate-LH.	24	14860	Axle	40	15089	Shut-Off Plate***
9	15107	Bracket W/ Clamp	25	14971	Axle Collar (3)	41	15099	Aux. Shut-Off Plate-RH***
10	14312-1	Impeller Bearing Ass'y*	26	14837	Gear Cover (2)	42	14001	Knob w/ Carriage Bolt***
11	15915	Rate Control Plate*	27	14868	Gear Cover Clamps (3)	43	14913	Adjusting Swivel
12	14885-1	Spring Housing Assembly*	28	14898	Frame Ass'y. w/ Bearings	44	15090	Deflector Plate*
13	12704	Rate Knob w/ Washer*	29	14855	Axle Bearings (4)	45	15091	Pivot Plate*
14	12708	Pointer W/ Screw & Nut*	30	14904	Leg w/ Tube Caps	46	15092	Port Plate*
15	14863	Hopper Screen	31	14905	Lower Handle Brace	47	15105	Port Plate Retainer Spring*
						48	15093	Hopper Bottom Plate*

OPTIONAL ACCESSORIES



#14872

Hopper Cover

#14889

Side Deflector

PART OF OUR SERVICE IS PROVIDING REPLACEMENT PARTS. Parts may be Obtained through you local distributor. Be sure to give the:

1. SPREADER MODEL NUMBER
2. SPREADER NAME
3. PART NUMBER
4. NAME OF PART SHOWN

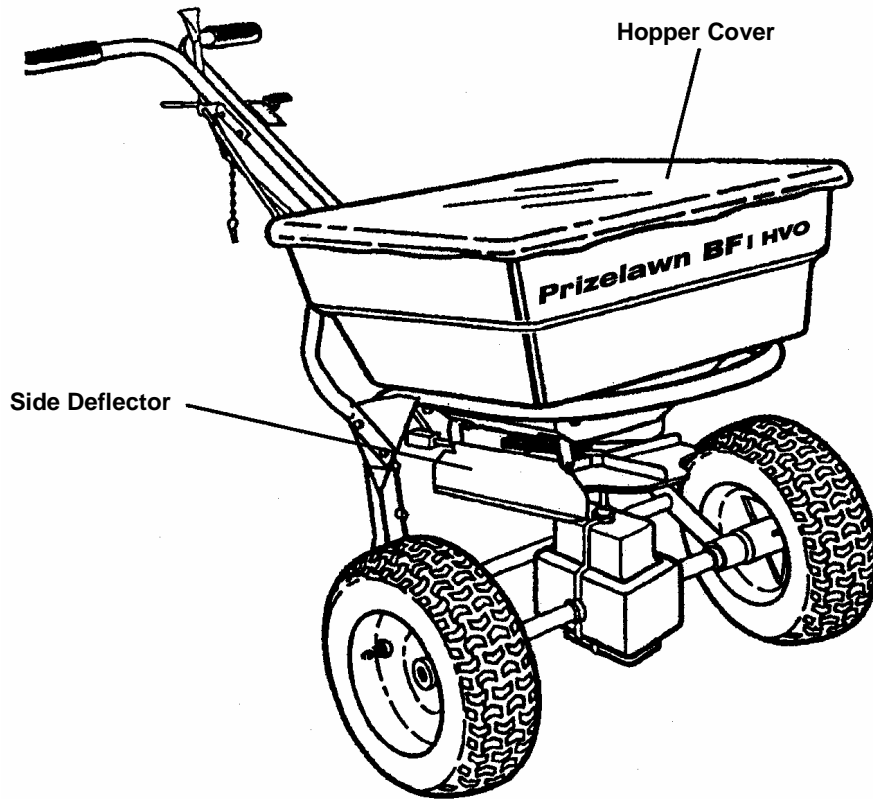
IF YOUR LOCAL DISTRIBUTOR CANNOT SUPPLY PARTS OR ACCESSORIES, PLEASE CONTACT:



PSB Company
555 West Goodale Street
P.O. Box 1089
Columbus, Ohio 43216-1089
(614) 228-5781 EXT. 2655

Manufacturers of millions of quality lawn spreaders since 1946

OPTIONAL ACCESSORIES



#14872-1 Hopper Cover
#14889 Side Deflector

WARRANTY