

#### **BROADCAST SPREADER**





# PARTS LIST FOR shindaiwa R\$60



KEY	DESCRIPTION	PART #	KEY	DESCRIPTION	PART #	
1	Hopper Assembly	P15862-1	17	Pinion Gear**	P14833	
1A	Hopper*	P15270	18	Screen Clips (2)	P14022	
2	Shutoff Plate*	P14454-1	P14454-1 19 Hop		P14603-04	
3	Shutoff Plate Guides (2)*	P15377	7 20 Handle Brace W/ Plug– LH.		P15852-03	
4	Rate Cam & Chute Assembly*	P14455-1	P14455-1 21 Handle Brace W/ Plug		P15853-03	
5	Impeller Shaft Bearing*	P14312-1	2-1 22 Handle Tube		P15283-03	
6	Frame Assembly	P15859-03	23	Handle Grips (2)	P15264	
7	Drive & Free Turning Wheels (2)	P15863	24	T-Handle Assembly	P13634-2	
8	Axle Bushings (2)	P15860	25	Control Knob & Wire Ass'y.	P15882	
9	Axle Collar	P14063	P14063 26 Control Knob Spring		P14462	
10	Axle Gear	P15027	27	Wire Retaining Clip	P13643-1	
11	Gear Cover Clamps (3)	P14868-1	28	Hopper Plug	P15271	
12	Gear Cover (2)	P15012	29	Agitator	33117	
13	Impeller Assembly	P15857	30	Axle	P15858-07	
14	Impeller**	P14625	31 Parts Package		P15864	
15	Impeller Shaft**	P15856-07	32	Hopper Cover	P14606-1	
16	Gear Support**	P15028	33	Hopper Label	P16234	

\* Parts included in the Hopper Assembly

\*\* Parts included in the Impeller Assembly

### **ASSEMBLY INSTRUCTIONS**

**1.** Remove components from carton and place spreader upside down on a padded surface. Install LH. & RH. handle braces to frame as shown using four (4)  $1/4-20 \times 2 \frac{1}{4}$ " hex bolts and nuts but do not tighten.



**3.** Turn spreader upright and install handle tube between braces with the identification "Dot" toward the hopper assembly.

Secure with (2)  $1/4-20 \times 1 \frac{1}{2}$ " hex bolts and nuts. Tighten handle brace nuts installed in step 1.

**NOTE:** When installing the bolts, slide your finder inside the end of the handle shaft and press the control wire to the top of the handle shaft and hold, then install the bolts and release the control wire.

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**2.** Slide wheels onto end of axle with the hub facing toward frame. Wheels are identical to ease assembly. Align the hole in the wheel hub and the hole in the axle as shown. Secure drive wheel to axle with 3/16 dia x 2" cotter pin. Insert 1/8 dia x 1 <sup>1</sup>/<sub>4</sub>" cotter pin in the hole near the end of axle to retain free turning wheel.



### **ASSEMBLY INSTRUCTIONS**, continued

4. Feed control knob/wire through the T-handle until spring touches the round hole.
CAUTION: <u>Do Not Compress Spring At This</u> <u>Time</u>. Feed wire through the square handle tube. Be sure wire passes above the bolts in the handle brace. Secure T-handle to the tube with 1/4-20 x 2 ¼" hex bolts, washers, and hex nuts as shown.

Remove caution label and push the thumb release toward the center and push down knob and shut-off spring until knob latches.



**5.** Slide wire retaining clip onto wire as shown. Insert wire through hole shut-off plate. Slide wire retaining clip over shut-off plate and wire until the clip locks into place.

**6.** Slide handle grips onto handle. Soapy water will ease installation. (Do not use petroleum based products.) Insert screen into hopper by sliding it under the screen clips.



#### SPREADER OPERATION

**1.** Check the product package for the rate setting, and recommended swath width. Turn the spreader off by pushing the control knob in. Rotate the rate cam to the proper setting.

**2.** Always fill the spreader on the driveway or sidewalk-not on the lawn. Make sure spreader is in the "OFF" position. Empty after each use.

**3.** Start spreader moving, then open spreader by pushing the thumb release to the "ON" position. Always push spreader, never pull. Push knob down to close spreader.

**4.** Hold handle so top of spreader is level. Tipping the spreader too far can cause uneven spreading.

**5.** The settings and swath widths 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 rate can vary due to weather conditions, operating variables, and condition of the product being applied. See "HOW TO DETERMINE SPREADER SETTING AND SWATH WIDTH" for details.

**6.** Push spreader 3-1/2 m.p.h. (26 feet in 5 seconds) for full 8' to 10' spread pattern when applying fertilizer products. Apply header strips at each end of area to be treated then space trips across the area as shown.

**7.** Push spreader at 2-1/2 mph (18 feet in 5 seconds) to reduce width of spread when applying ice melt products to sidewalks.

**8.** Empty spreader after each use. Return leftover material to its original container.

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### 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 the 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 cam 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. 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 the 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: **5,000 sq. ft**. 2500 lbs. ÷ 5,000 sq. ft. = .**5 lbs**. / **100 sq. ft**. Weigh 15 to 20lbs. 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.

# **RATE SETTING CONVERSION**

The following provides approximate **Shindaiwa RS60** settings for those units listed.

Brand/Model	Setting Rate																
shindaiwa RS60	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Prizelawn® CBR IV/BF1 CBR III	G	н	J	к	м	N	N1⁄2	o	<b>P</b> ½	Q	R	s	т	υ	v	x	z
EarthWay.	11	13	15	17	19	21	23	25	26	27	28	29	_	30	_	-	—
LESCO #029600	E	F	G	н	I	J	к	L	-	—	м	N	0	—	Р	R	S
Scotts R8A/SR-1	I	J	L	м	0	Р	-	Q	-	S	т	U	-	v	w	x	z
Scotts Speedy Green	-	-	2	-	3	-	4	-	5	-	6	-	7	-	8	-	-

The following provides approximate **Shindaiwa RS60** settings when only the product weight, square foot coverage, and visual inspection of the material is available.

FERTILIZER		<b>BAG RATE</b> Pounds of fertilizer used per 1,000 sq. ft. of coverage	APPROXIMATE SETTING	SPREAD WIDTH (IN FEET)		
Large, heavy particles		5 10 15	6 9 11	12 12 12		
Medium, mixed particles		5 10 15	5 7 9	10 10 10		
Small particles (Nitrogen)		1 2 3	2 4 5	10 10 10		
Mixed size particles Some fines		5 10 15	6 9 11	8 8 8		
Lightweight particles		5 10 15	4 5 6	6 To 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.

![](_page_6_Picture_10.jpeg)

# **MAINTENANCE INSTRUCTIONS**

**1.** Never store unused material in spreader. Return unused product to its original container.

**2.** Wash spreader thoroughly after each use and dry completely in sun or heated area.

**3.** Oil the axle bearings, impeller shaft bearing in hopper, control knob in T-handle.

**4.** Remove gear cover and wash gears thoroughly. Oil all bearing areas and face of gear teeth. 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 axle collar set screw and hold 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 PSI.

![](_page_7_Figure_8.jpeg)

# shindaiwa LIMITED WARRANTY

Shindaiwa manufactures its products to superior quality standards of quality to ensure customers obtain the highest level of satisfaction. In keeping with this goal, Shindaiwa warrants the unit to the original purchaser as follows:

#### **Warranty Period**

Two years from the delivery date to the original purchaser for consumer and commercial applications, 90 days for rental applications.

#### Warranty Administration

Within the covered warranty period, Shindaiwa will, at their option, repair or replace any defect in material or workmanship, without charge for parts or labor, if this product is presented at an authorizes Shindaiwa dealer.

#### Warranty Exclusions and Limitations

Shindaiwa Inc. assumes no responsibility for damages, loss, or injury resulting from:

- Normal wear and tear.
- Misuse or neglect.
- Modification to or removal of original component parts.

The warranty is limited to the terms stated herein. Shindaiwa disclaims all liability for incidental or consequential damages. Some states do not allow the exclusion of incidental or consequential damages, so these limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which may vary from state to state. Shindaiwa reserves the right to change the design or specifications of this product without obligation to modify previously manufactured products.

#### **Owner's Responsibilities**

The owner of the unit must demonstrate reasonable care in the use, maintenance, and storage of this Shindaiwa product. If a warrantable failure should occur, the owner must deliver the product to an authorized Shindaiwa servicing dealer for correction. All residual chemicals must be removed from the hopper prior to delivery.

### Unidentified chemicals left in tank can pose a serious health threat to anyone servicing the unit and unaware of its presence!

To obtain warranty service, proof of purchase must be presented to the authorized Shindaiwa servicing dealer when the product is presented for repairs.

Proof of purchase must include date of purchase and the name and address of the selling dealer.

![](_page_7_Picture_26.jpeg)

# **CONTACT INFORMATION**

![](_page_9_Picture_1.jpeg)

Shindaiwa® PRODUCT REG	ISTRATION CARD : TARJETA	DE REGISTRO	: CARTE D'ENREGISTREI	MENT DU PRODUIT			
Mail form to: ECHO Inc., Product Registration, PO Box 1139, Lake Zurich IL 60047.	Enviar formulario a: ECHO Inc., Product Registration PO Box 1139, Lake Zurich IL 60	n, 047.	Poster le formulaire à l'adresse suivante: ECHO Inc., Product Registration, PO Box 1139, Lake Zurich IL 60047.				
Please Print : Por Favor Enscriba Con Letra De Molde : I	En Lettre Carré S.V.P.	Confidential: Information provided will not be shared or sold					
Purchaser's Name : Nombre del Compredor : Nom de l'ad	cheteur	Primary use of tool: Professional Homeowner Rental Equip. Uso primario de la herramienta: Profesional Dueño de casa Alquiler Usage principal: Professionnel Residential Location					
Address : Dirección : Adresse		offers by e-mail?       Yes       No         ¿Desea usted recibir información periódica y ofertas especiales por correo electronico sobre el producto Shindaiwa?       Yes       No         Souhaitez-vous recevoir périodiquement de l'information sur les produits       Shindaiwa et les offres spéciales par courrier électronique ?       Oui       Non         Did you visit the Shindaiwa website before purchasing your product?       Yes       No         Visitó usted la pagina web Shindaiwa antes de comprar su producto?       Sí       No         Visitó usted la pagina web Shindaiwa avant de procurer votre produit?       Oui       No         What factor(s) most influenced your purchase?       Performance       Price       Dealer         Reliability       Prior Experience       Quality					
City : Ciudad : Ville State : Estado : Province	Zip Code : Código Postal : Code Postal						
E-Mail Address : Dirección De Correo Electrónico : Cour	rier Électronique						
Phone Number : Número De Teléfono : Téléphone D	ate of Purchase : Fecha de la Compra : late de l'achat						
Where Purchased : Nombre del Almacén donde fue Comp	rado : Lieu d'achat	¿Qué factor(es) in Funcionamiento Confiabilidad	Idenció más en su compra?     Precio Distribu     Experiencia Anterior Calidad     Marca Garantí	idor ia			
Model Number : Numero del Modelo : No. de modéle		Quel facteur (facte Performance Fiabilité	eurs) vous a influencé le plus?	and			
Registering your purchase enables us to contact you in the unlikely eve ownership in the event of loss. El registrar su compra nos permité esta como el aviso de tiempo de servicio o la revocación del producto y vent L'enregistrement de votre achat nous permettra de vous contacter dans d'entretien ou de rappel du produit et véntier que vous étes le propriétai	nt of a service update or product recall and verifies your ar en contacto con used en caso de cualquier evento ficación de propiedad en caso de robo o péridia. : le cas improbable de modifications des instructions ire en cas de vol ou de perte.	Ami/Famille	Marque Garant www.shindaiwa-usa.com	e X7571120102 02-2012			

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