

SPYKER

THE SPREADER PEOPLE

spread with confidence

**Spreading Chart
Operation Guide
Service Manual
Parts List**

**For Models:
34, 54, 64**

Model 64 pictured

It's the spread that counts

**P.O. Box 7
140 Mill Street
Urbana, IN
46990 USA**



**1-800-972-6130
Fax: 260-774-3416**

Assembly Instructions

For Quick and Easy Assembly - First Read Entire Procedure
Then Follow Carefully The Step by Step Instructions

Tools you will need:

Flat head Screwdriver
7/16" & 3/8" wrenches
Hammer

Parts you will use:

- Hopper assembly
- Axle/gears/spinner assembly
- Drive pin for installation in axle to engage drive wheel.
- Frame
- (2) support braces
- (2) wheels
- (2) axle bearings
- (2) wheel retainer caps
- (2) handle grips
- Rotary agitator - for use - only if required and necessary - do not install initially
- Top "T" handle section
- Center handle section
- Lower ground prop section
- Rate control wire with lever
- (4) 1 1/2" long bolts
- (6) 1 1/4" long bolts
- (10) 1/4" nuts
- (1) Felt washer
- (1) Cable clip
- (2) 3/8" nuts
- (2) 1 1/8" nuts



Begin Assembly for Model 64

For Models 34 and 54 proceed to step number nine.

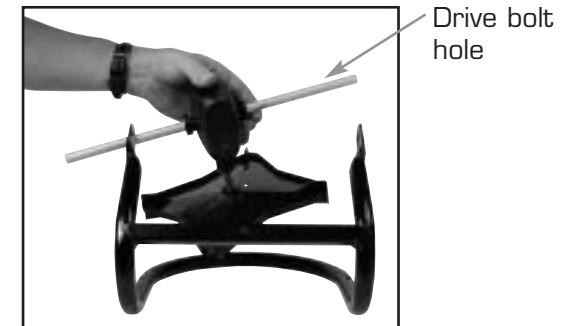
1.

Caution: Tighten nuts only after complete handle assembly has been made. Use caution not to crush the tubing.

2.

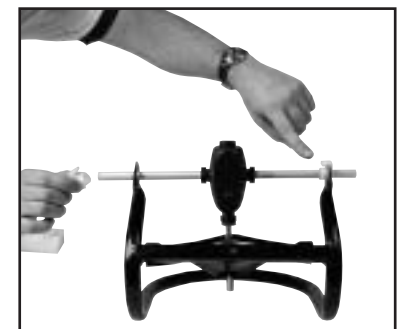
Position the axle/spinner assembly (Part #22 for Models 54 & 64) (Part #47 for Model 34 Only) in the frame (26), exactly as shown.

Frame and axle/spinner assembly must be positioned exactly as shown for clockwise rotation.

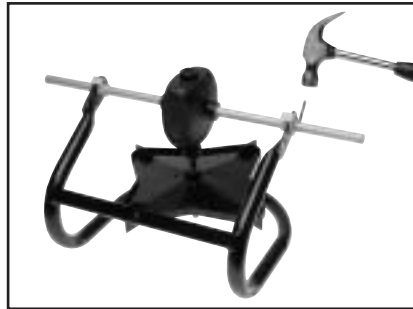


3.

Slide the axle bushings (23) over the axle and into the frame. Bushing flanges must be on the outside of the frame as shown. Arms on the flanges preferably toward the ground when spreader is assembled.



4. After installing axle in frame. Install 1 drive pin (18) into axle for drive wheel.



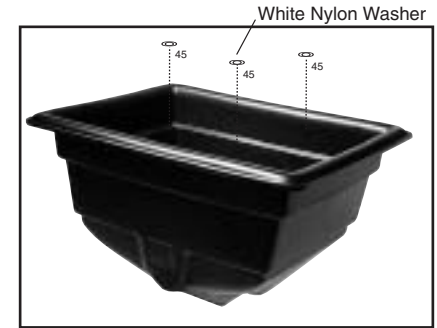
5. Install the wheels. Be sure slotted hub side is next to the frame. (The drive pin will engage the drive wheel.)



6. CAUTION - at this point make certain assembly is correct. Then install wheel retainers (25) by tapping firmly with a hammer **(Once installed, removal is nearly impossible.)**



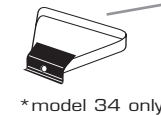
Note: model 54 has a black plastic hopper.



7. Now install hopper to frame. Slide the spinner shaft (12) through the bearing hole in the bottom of the hopper.



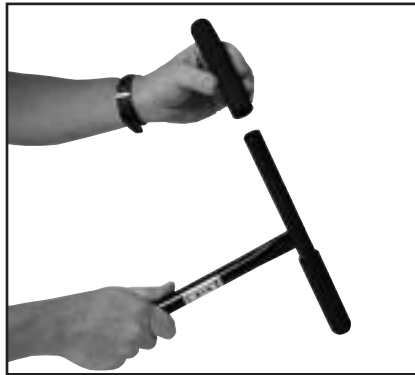
8. Install front center bolt & nuts (2-4) along with the front grab handle (52) (loosely) first. Then install side bolts, and tighten all bolts securely.



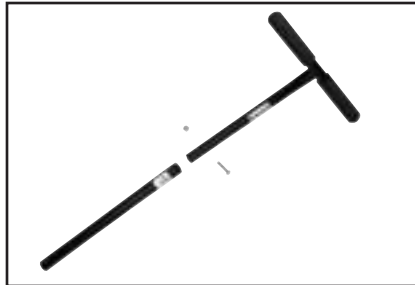
*model 34 only



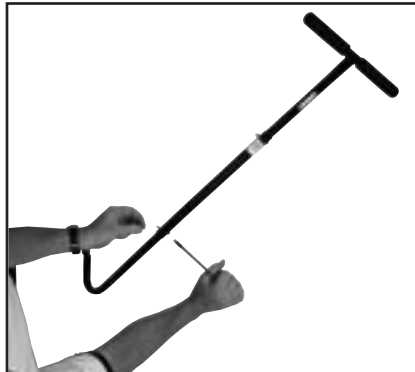
- 9.** Install the handle grips (33) on handle. For easier installation, grips may be lubricated with water only.



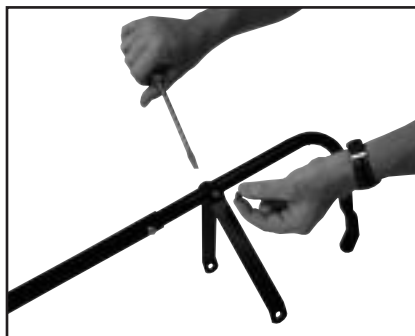
- 10.** Connect T-handle to center section using (1) 1 1/4" bolt and nut.



- 11.** Connect ground prop to center section using (1) 1 1/4" bolt and nut. The flattened side of the ground prop should be on the opposite side as the T-handle labels.



- 12.** Now use the 1 1/2" bolt and install support braces (27) loosely to handle assembly



- 13.** Position the spreader as shown. Join the handle loosely to the cross-bar, using the 1 1/2" bolt.

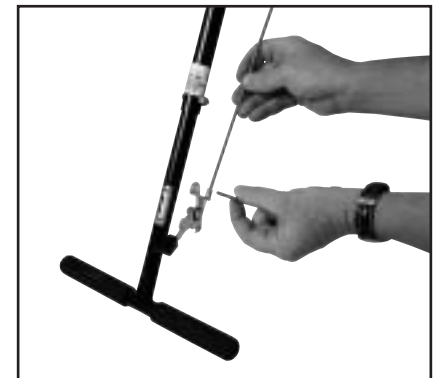


- 14.** Secure the braces (27) loosely to the frame with a 1 1/2" bolt and nut. **Braces must be on the inside of the frame.**

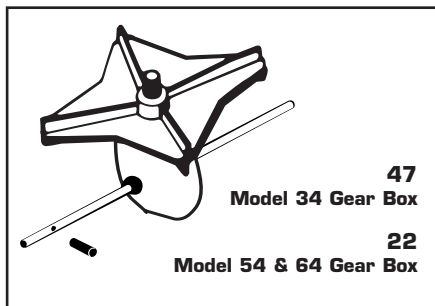
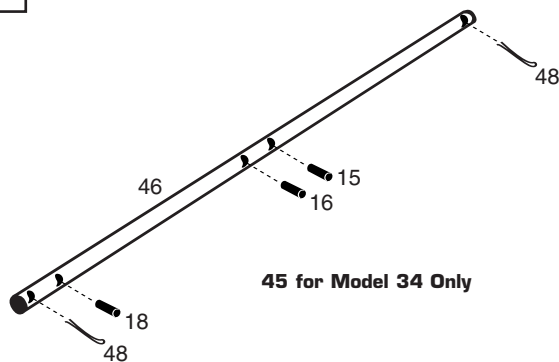


- 15.** Check for proper alignment. Tighten **ALL** nuts and bolts at this time.

- 16.** Attach lever control assembly (34) to the right hand side of T-handle (30) using (2) 3/8" x (1 1/8") bolt and nut. **Tighten securely.**



Exploded View



Item #	Part #	Quantity	Description
1	SL-HP-1205	1	Hopper Only, 304 Stainless Steel
2	SS-90-0011	6	1/4 - 20 X 1 1/4" Bolt
3	SS-90-0012	3	1/4 - 20 X 1 1/2" Bolt
4	SS-91-0004	10	1/4 - 20 Lock Nut
5	SS-94-0007	1	Hopper Bottom Bearings
6	05-94-0068	1	Rate Gate
7	SS-94-0004	2	Rate Gate Guide
8	05-24-1101	1	Rate Gate Linkage
9	SS-94-0006	1	Dial Only
10	05-94-0069	1	Dial Mount
11	SS-94-0012	1	Spinner
12	SS-97-0004	1	Spinner Shaft
13	SS-96-0003	1	Rotary Agitator
14	SS-94-0009	1	Pinion Gear
15	SS-90-0001	2	1/8" x 3/4" Roll Pin/Pinion Gear
16	SS-90-0002	2	1/8" x 7/8" Roll Pin/Bevel Gear/Spinner
17	SS-97-0001	1	Axle
18	SS-90-0010	1	Drive Pin
19	SS-94-0010	1	Bevel Gear
20	SL-HP-1045	1	Gear Box with Bushing (Less Clamp Rings)
21	SS-94-0014	4	Clamp Rings Only
22	SL-HP-1004	1	Spinner Assembly/Axle, Gears, Gear Box, Spinner
23	SS-94-0011	2	Bushings for Axle at Frame
24	SS-95-0003	2	8" x 2.25" Super Duty Hard Rubber Wheel
25	SS-91-0001	2	Push Cap Nuts for Wheel Retention
26	SL-HP-1024	1	Painted Frame
27	SL-HP-1030	2	Support Brace Between Ground Prop & Frame
28	SS-92-0002	2	Felt Washer
29	05-94-0029	1	Bushing Only
30	05-24-1010	1	Top "T" Handle Section
31	SL-HP-1015	1	Center Handle Section
32	SL-HP-1120	1	Bottom Ground Prop Section
33	SS-94-0013	2	Handle Grips
34	05-98-0048-1	1	On/Off Lever Control
35	05-91-0008	2	On/Off Lever Control Nut
36	05-90-0042	2	On/Off Lever Control Bolt
37	05-90-0044	1	Cable Fastener
38	05-24-1105	1	Cable Clamp
39	SS-90-0011	1	Cable Clamp Bolt
40	SS-91-0004	1	Cable Clamp Nut
41	SL-HP-1113	1	Rate Gate Assembly
42	05-90-0054	1	1/4 - 20 X 1-1/2" Hex Head/Frame/Ground Prop
	05-99-0064	1	Manual

Model 54 Only

43	05-53-0500	1	Plastic Hopper
44	05-94-0065	1	Cover, Clear Plastic with Black
45	05-94-0064	3	Washer, Plastic

Model 34 Only

46	SS-97-0006	1	Axle 18 3/4" Long Drilled
47	SL-HP-1044		Axle, Gears, Gear Box, Spinner Assembly
48	99-50-1081	2	Axle, Cotter Pin
49	05-97-0008	1	Impeller Shaft 3/8 x 6 1/2
50	SS-95-0004	1	Pneumatic 8.5 x 3.5
51	05-24-1070	1	Hand Hold

Optional

52	05-92-0000		Extension Hopper
53	05-99-0021		Cover - Model 64 & 34
54	SL-EH-1005		Screen
55	05-94-0065		Cover - Model 54

Notes:

1. A Calibrator is also available to do it yourself.
2. The rate gate is closed by pushing the control lever away from you.
The rate gate is opened by pulling the control lever toward you.
3. Either wheel can be used as the drive wheel.

* Standard fasteners available at most hardware departments.

Parts shipped open account to qualified accounts. All others, cash with order or parts will be shipped C.O.D. at prevailing prices at time of shipment.

SPEED - ACCURACY - FREEDOM FROM STRIPES AND STREAKS are yours - when you use this Spreader.

The spread width ranges from 4 ft. to 12 ft. wide, depending on the volume/density, particle size of the material and the rate of travel.

The spread thins or feathers at the outer edges, eliminating sharp, "Edge of spread" lines which cause stripes and streaks. Extra coverage can be given under trees and other heavy feeding areas without showing "edge of spread" lines.

Gaps and double overlaps are less likely. Small errors in travel are forgiven and do not show.

WARNING: When spreading products containing herbicides, exercise extreme caution with respect to careless spreading and to wind-drift. CONTACT OF SOME PRODUCTS ON SOME PLANTS CAN BE FATAL.

If a dial setting is not found, use the size and weight comparison table found on the back page.

Determine a dial setting on the low side. If the setting proves to be too low, cover the area more than one time. A higher setting can be used when a proven dial setting is established.

REMEMBER - Published dial settings can be approximate only. The operation of the spreader, the condition of the material (damp or dry or over-pulverized) and weather conditions, are all contributing factors.

For these reasons, it's often a good idea to spread the area 2 times - at one-half rate - in cross directions (SEE INFORMATION ON ONE-HALF RATE DIAL SETTINGS ON REFERENCE CHART ON THE BACK PAGE. SPREADING AT ONE-HALF RATE DIAL SETTINGS IS HIGHLY RECOMMENDED UNDER DAMP & HUMID CONDITIONS.

BECOME FAMILIAR WITH THE OPERATION OF THE SPREADER BEFORE YOU PUT MATERIAL IN THE HOPPER.

Practice walking with the spreader, opening and closing the rate gate at the appropriate times.

Travel at a constant speed and operate the spreader lever position.

Remember: Open the rate gate **after the spreader is in motion** at operating speed (about 3 mph., or at a brisk walking pace).

Close the rate gate while spreader is **still at operational speed.**

Rotary Agitator

Use the rotary agitator only if needed. Free-flowing, lump-free materials will not require the agitator. The rotary agitator is easily installed or removed. Note the clockwise rotation & sweep. Place felt washer around spinner shaft before inserting agitator. - See page #8.

OIL BEARINGS AND ALL MOVING PARTS

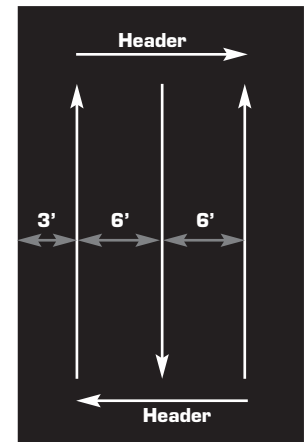
Make certain the spreader is running freely!

Now You are Ready to Put Material in the Hopper

- Make certain the *rate gate is in closed position.*
- As insurance against spill damage and spill loss, put material in the hopper with the spreader on a walk, driveway, paper, plastic, etc.
- The spreader will be easier to use if you only half-fill the hopper. Later on you can fill the hopper if you so choose.
- Or for added capacity, the inverted bag in the hopper can serve as a capacity extension. Also, an extension hopper, complete with filtering and pulverizing screen, is available from the manufacturer.

Now You are Ready to Spread

- Spread header strips at the ends of the area **OPPOSITE** the direction of spreading. This will provide a "turn-around" area, an area to re-align the spreader for the return spread.
- Example is for 6 ft. wide spread: Make the first spreading pass at one-half the spread width from the edge of the spreading area or in this case approximately 3 feet or one big step.
- Additional spreading passes will be at the full spread width or approximately 6 feet apart.
- **TAKE A SIGHTING AT THE FAR END.** Keep your eye on the sighting as you spread. You will not need to wonder where you are or where you have been. Continue until spreading is completed.
- Left over fertilizer can be spread under trees and other high feeding areas without showing "edge of spread" lines.



NOTE: With the rotary agitator installed, the rate gate closed (not spreading) and with material in the hopper, the spreader will push harder than normal. (This is because the agitator is stirring the material and it has no place to go.)

RECOMMENDATION: When not spreading and the spreader is being pushed some distance, tip the spreader so only the idle wheel is on the ground.

Cleaning the Spreader is Part of the Spreading Job.

IMMEDIATELY AFTER USE - CLEAN AND OIL THE SPREADER

- **Method #1** - Wipe spreader thoroughly with an oily cloth. Oil all bearings and bearing areas.
- **Method #2** - Wash, rinse, and dry the spreader. Note: Drying takes time. (Moisture trapped in bearing areas is slow to go.) Immediately after drying - oil all bearings and moving parts. Make certain all operations are thorough.

Note: Good "Dry Cleaning" is preferable to poor "Wet Cleaning".

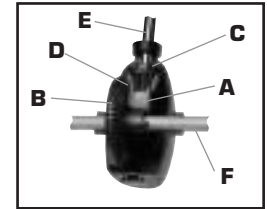
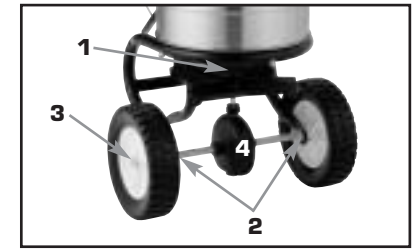
- It is virtually impossible to have rust and corrosion on a clean, dry, oiled surface.
- Again - just before using - oil all bearings and moving parts.
- In storage, ideally the spreader should be hung by the handle. In any case, do not pile weight on the spreader, as excess weight over a period of time can distort the tires.

CONDITION Spreader pushes hard:

LOOK FOR Dry bushings and corroded shafts.

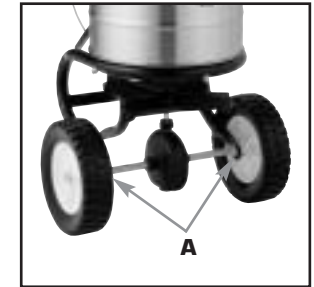
PROCEDURE . . . Oil these points:

1. Bearing in hopper bottom.
2. Axle bearings.
3. Idle wheel bushing.
4. Bushing in gear box: a. Spinner shaft below gear; b. Hub end bevel gear; c. Hub end of spinner gear; d. Gears; e. Spinner shaft at gear box; f. Axle shaft at gear box.



LOOK FOR Corrosion on axle at frame bushings - (A)

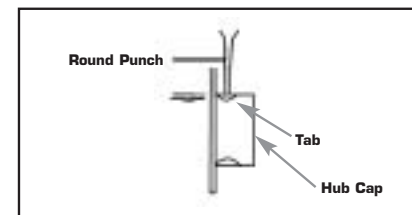
PROCEDURE . . . Note: If bushings are corroded, the corrosion must be removed, preferably by filing or scraping. The axle must be moved endways, out of the axle bearing area. Remove one wheel & open gear box to permit sliding of axle. Gear box holding rings are removed by prying - replaced by forcing. Wheel holding push caps are removed & replaced as shown.



To remove hubcap, place chisel point on lock tab. Strike sharply with hammer.



To re-use hubcap, place round punch in lock tab opening. Strike lightly. Deform each tab 1/32".



Grass Seed Spreading Chart

Did You Know?

Dial settings are approximate only. Spreading at one half rate in cross directions is usually recommended.

Manufacturer and Product	Manufacturer's Bag Rate	Micro-Dial Settings		Spread Width (In feet based on brisk walking)
	Lbs. per 1000 Sq. Ft.	Full Rate Once over	Half rate Twice over	
Bent Grass or Red Top	0.5#	1.25		4
	1#	2.0		4
	2#	2.5		4
Park, Merion, Delta, or Kentucky Bluegrass	0.5#	2.5		4
	1#	3.0		4
	2#	3.5		4
Hulled Bermuda	2#	2.75	2.25	6
	3#	3.0	2.5	6
	4#	3.25	2.75	6
Mixtures including coarse seeds	2#	6.0		6
	4#	7.0		6
	6#	7.0		6
Rye Grasses or Tall Fescue	2#	6.0		6
	4#	7.0		6
	6#	7.75		6
Dichondra	4 oz.	1.9		8
	8 oz.	2.1		8
	12 oz.	2.5		8
Pensacola Bahia	4#	4.5	3.75	7
	5#	4.75	4.0	7
	6#	5.0	4.25	7

THERE'S MORE TO A SPREADER THAN MEETS THE EYE — LOTS MORE

Spreadability - Dial-a-matic regulator ensures exact spread rate. Accuway® Spread Pattern Equalizer assures exact placement of the spread pattern - Bull's Eye - dead to the center of the spreader. All products - All spreading conditions. Skewing is eliminated.

Durability - Series 22 spreaders will survive use and abuse. Welded steel construction is double braced, finished in baked on epoxy enamel. Generous use of highest quality stainless steel. Guaranteed metal gears.

Reliability - You can count on. Accuway® spread control system is so innovative, it's patented. Is so successful it's used on all Spyker series 22 spreaders. Is so simple.

A complicated problem is solved with a fundamental solution.

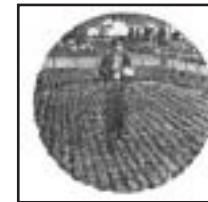
(Newton's law of motion: To every action there is always an opposed and equal reaction.)

Serviceability - 24 hour replacement parts service available direct from the factory. Series 22 spreaders shipped set up except hand hold/bump bar and push handle or tractor pull bar.

Broadcast Spreading



Broadcast spreading is as old as early man. In the early days of agriculture, field seeding was accomplished with hand cast broadcast. The hand cast method of seeding was a limited factor in growing field crops that were hand seeded.



Mechanized casting came into being in 1868 when Samuel Speicher invented the Hand Crank "Cyclone" Seeder.

The seed sower was a breakthrough in field seeding. It was hailed as a major advancement in agricultural implements.



Paul Speicher put the hand crank seeder on wheels in 1955.

This development ushered in a new era in spreading and spreading products. New products and product forms adapted to broadcast spreading were developed.



In 1988 a new dimension was added to broadcast spreading - SPREAD PATTERN CONTROL - a dead center spread pattern equalizer.

Spyker's Accuway® spread pattern equalizer solves a complicated problem with a fundamental patented solution.

Granule Size - Dial Setting Guide

Dial settings are approximate only.

Product	Lbs. per 1000 Sq. Ft.	Full Rate	Half Rate
Fine Pellets	1	3.6	3.1
	2	4.0	3.5
	3	4.2	3.7
Mixed Fine Pellets	2	3.7	3.2
	4	4.7	4.1
	6	5.2	4.5
Small Pellets	2	3	2.2
	4	4.2	3.7
	6	4.5	4
Nitrogen Pellets Med.	1	3.5	3
	2	4.2	3.7
	3	4.7	4
Med. Pellets & Granules	2	3.5	3
	4	4.2	3.8
	6	5.2	4.5
Med. Pellets	2	3.5	3
	4	4.2	3.8
	6	5.2	4.5
Large Heavy Pellets	2	3.8	3.3
	4	4.8	4.1
	6	5.9	4.9

179 SERIES



FEATURES & BENEFITS

"ACCUWAY" Spread Pattern Equalizer ENSURES spreading dead center of the spreader. (Indicated with "22" in model number)

20 SERIES



Gears are unconditionally guaranteed ENSURES trouble free operation.

90 SERIES



Dial-A-Matic spread rate control ENSURES spreading at exact spread rates.

Optional BORDER PATROL spread pattern cut-off prevents spreading on drive-ways, flower beds, etc.

70 SERIES



Extension hoppers available for all round hopper spreaders. Adds 20 lbs. to capacity.

Shipped Set-Up. Saves time and labor ENSURES proper assembly. (except #64)

MODEL 298
Mulch Spreader



Stainless steel frames ensure longer spreader life, easier maintenance and present a quality image.

MODEL 299
Mulch Spreader



High grade plastic non-corroding wheels with nylon bearings, no lubrication required, ENSURES trouble free maintenance.

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