SCHMEISER VINEYARD DRILL GENERATION – SERIES '98

ASSEMBLY & PARTS MANUAL



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INTRODUCTION

Your Schmeiser Vineyard Drill is designed to give you many years of dependable service. This manual has been prepared to instruct you in the safe and efficient operation of this machine. Read and study it thoroughly. Follow all instructions carefully.

Should your Vineyard Drill require replacement parts, go to your Schmeiser dealer. Always order genuine Schmeiser replacement parts.

It is important that you complete and send in your Warranty Card because it is not valid unless it is on file at Schmeiser. If you need information not contained in this manual, contact your Schmeiser dealer.

Space has been provided below for you to record the model number and serial number of your drill. Be sure to bring this information with you to your dealer when ordering parts or attachments for your drill.

Thank you for buying a Schmeiser Vineyard Drill/Seeder.

SERIAL NUMBER	 .	 	
MODEL NUMBER			
DATE PURCHASED_		 	
DEALER NAME			

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SAFETY RULES

The safe operation of any machinery is a big concern to farmers and manufacturers. We have designed our Vineyard Drill with many built-in safety features. However, no one should operate this machine before carefully reading this Owner's Manual.

- 1. Never permit anyone to ride on or walk beside the Vineyard Drill when moving.
- 2. Never permit anyone to ride on tractor when Vineyard Drill is being moved.
- 3. Never allow anyone to be near the Vineyard Drill when performing operating functions with Drill or tractor.
- 4. Never load Vineyard Drill without being hooked-up to tractor.
- 5. Extra care should be taken when transporting with seed in the box.
- 6. Never back Vineyard Drill up when openers are in ground.
- 7. Reduce speed of tractor when transporting over uneven or rough terrain. Avoid all chuck holes and washboard areas in road.
- Reduce speed of tractor when transporting over hills or steep slopes.
- 9. Always set Vineyard Drill in field position before lubrication.
- 10. Do NOT lubricate, adjust or repair the Vineyard Drill while it is in operation.
- 11. When in transport, use accessory lights and devices for adequate warning to operators of other vehicles, and use safety chains. Comply with all Federal, State and local laws when traveling on public roads.
- 12. Use "Slow Moving Vehicle" emblem for warning vehicles approaching from rear.
- 13. Do **NOT** permit smoking, sparks, or an open flame where combustible lubricants, or liquids are being used.
- When using treated grain, avoid direct contact with the seed.
- 15. When using compressed air to clean Vineyard Drill, wear safety glasses.
- 16. When transporting, remember the Vineyard Drill may be wider that your tractor and extreme care must be taken to allow for safe clearance.

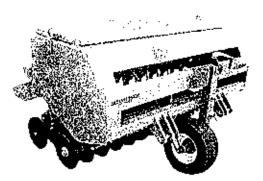
SCHMEISER VINEYARD DRILL SEED RATE CALIBRATION

Note: Seeding rates will vary greatly with variations in sizes of seeds. Although the seeding rates listed in this manual are based on an average seed size, we recommend that you test and adjust your Vineyard Drill using the procedures listed below.

- There are many factors, which will affect seeding rates: Seed treatment, weight of seed, size of seed, surface condition of seed, tire configuration and pressure, and tire slippage. Minor adjustments will probably be needed to compensate for the above factors.
- 2) The rates listed in the seed charts are based in the gauge wheel drive having 20.5 x 8.0 x 10 tire with the recommended tire inflation.
- 3) The large difference in seed size and treatment can cause a wide variation in actual seeding rates. The rate charts are based on average size seed. This may differ from the seed you are using. Use the seed rate charts as a guide only. Set the pounds per planted acre desired at the indicator number and complete the following procedure to calibrate the rate for specific seed.
 - a. Place several pounds of seed over three feeder cups at the outboard end of the Vineyard Drill.
 - b. Pull the seed tubes out of these three drops.
 - c. Raise the drive wheel off the ground using a jack.
 - d. Rotate the tire to see that the drive system is working properly and that the feed cups are free from foreign matter.
 - c. Place a container under the three seed tubes to gather seed as it is metered.
 - f. On 4 ft. wide models rotate the tire 48 times to obtain 1,000 square feet. On 5 ft. wide models rotate the tire 38 times to obtain 1,000 square feet. On 6 ft. models rotate the tire 32 times to obtain 1,000 square feet. Be sure to check the three feeder cups to make sure each cup has plenty of seed coming into it.
 - g. Weigh the seed, which has been metered. Divide by three. This will give you the ounces/pounds metered by each feeder cup. Multiply by the number of cups on your Vineyard Drill to arrive at the total pounds per 1,000 square feet. Now multiply by 43.56 to arrive at the total pounds per planted acre. If this figure is different than desired, set your feed cup adjustment lever accordingly.
- 4) You may want to repeat the calibration procedure if the results of your calibration vary greatly from the suggested settings contained in this manual.

REMEMBER: Tire size and field conditions will also affect seeding rates. Be certain that your Vineyard Drill tires are 20.5 x 8.0 x 10 and that they have the proper inflation. When seeding, check the amount of seed you are using by noting area seeded, amount of seed added to box, and level of seed in seeder box. If you suspect that you are seeding more or less seed than desired, and you have accurately calibrated the Vineyard Drill to your seed, you may need to adjust the seeding rate slightly to compensate for your field conditions.

SEEDING RATES FOR SCHMEISER VINEYARD DRILL 2ND GENERATION – SERIES '98



Rates in Pounds per Planted Acre

October 1998 Sprocket Combination: $12/33 \times 12/33$ Seed Rate Indicator Setting Number Seed POUNDS PER ACRE Barley Bio Max Cover Crop* Clover - Perennial Cover Crop Mix #1* Cover Crop Mix #2* Cover Crop Low Profile* Cover Mate Mix* Crimson/Berseem Insectary Mix* Pearl Millet Ryc Grass - Annual Sorghum Sudan Sudan Brayo Brand Vetch - Common Winter Forage #1*

CAUTION: THESE RATES ARE APPROXIMATE ONLY. PLEASE VERIFY OUTPUT PRIOR TO FIELD USE

THIS CHART APPLIES TO VINEYARD DRILLS MANUFACTURED AFTER JANUARY 1998

^{*} Germain's Seed

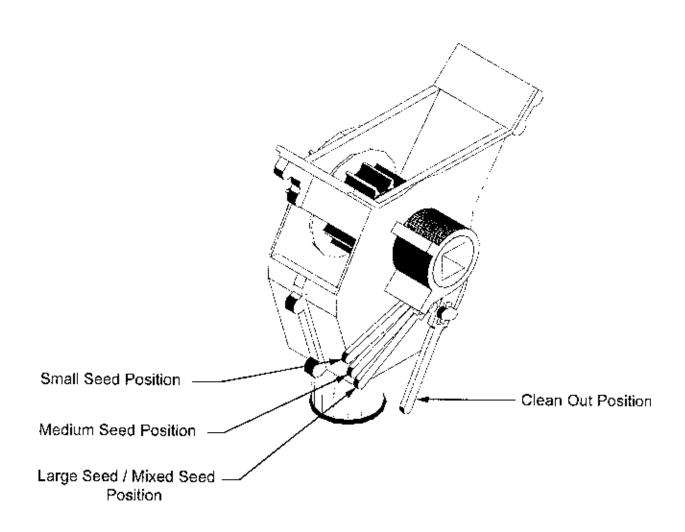
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SEED CUP

IMPORTANT: Be sure to adjust seed cup lever position prior to loading seed in hopper.

WARNING: Closing seed lever with seed in cup may damage or break lever.

It is important to select the correct lever position. The incorrect position may cause a) seed damage b) excessive wear on fluted nylon sprocket or c) cup damage.

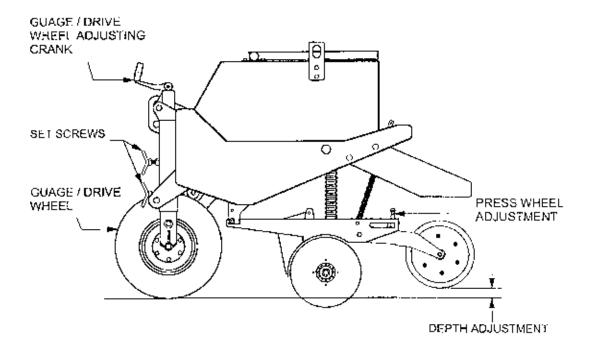


PLANTING DEPTH ADJUSTMENTS

Your Schmeiser Vineyard Drill is designed to run level to the ground when in planting position. Minor adjustments may be required to achieve the desired seed placement.

GAUGE WHEEL/DRIVE WHEEL ADJUSTMENTS

Gauge wheel/drive wheel adjustments are made in order to allow your openers to travel both up and down and follow the contour of the ground. In order to adjust your gauge wheel/drive wheel loosen the two set screws located on the adjusting crank housing. After adjusting the gauge wheel/drive wheel, be certain to tighten up both set screws. By lengthening the adjusting crank, the gauge wheel/drive wheel is lowered causing less opener spring rod extension through the spring rod casting. This in turn causes less downward float on the openers. By shortening the adjusting crank, the gauge wheel is raised causing more spring rod to protrude through the opener spring rod casting, which in turn causes more downward float on the openers. Remove or insert drive chain links if required.

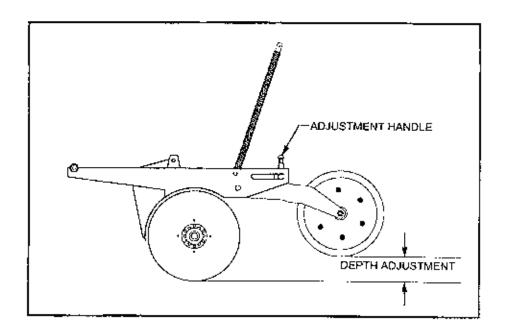


Check the spring rod cross bolts at the top of the spring rods to see that they are extended about 2" above their spring rod casting. This is a general dimension and may vary with the spring rod down-pressure that you require for different soil conditions and planting depths. If you require more downward float on your openers, you may want to increase this dimension. Keep in mind that when this dimension is increased your upward motion is decreased, limiting the vertical travel of the openers for running over rocks and other foreign objects.

IMPORTANT: If your opener's vertical travel is decreased, considerable damage will occur to your openers.

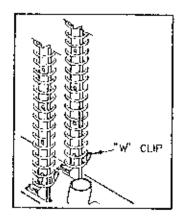
PRESSWHEEL - OPENER LINKAGE DEPTH ADJUSTMENT

The depth of each opener is controlled by the height of the press wheel. For varying the height of the press wheel which automatically changes the seeding depth of the opener, simply pull and move the handle located directly above each press wheel until the seeding depth is correct. A self-locking spring clip holds the knob at your setting to maintain the proper depth.

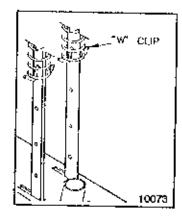


DISK OPENER SPRING PRESSURE SETTING

Each opener spring can be adjusted for down pressure. This is useful when penetrating hard soil and for planting in tractor tire tracks. To adjust the pressure, remove the "W" clip at the bottom of the spring and place it in a higher hole in the spring rod for more pressure, and in a lower hole for less pressure (see below). If too much penetration is achieved at the lowest pressure setting, the "W" clips may be completely removed.



Minimum Pressure

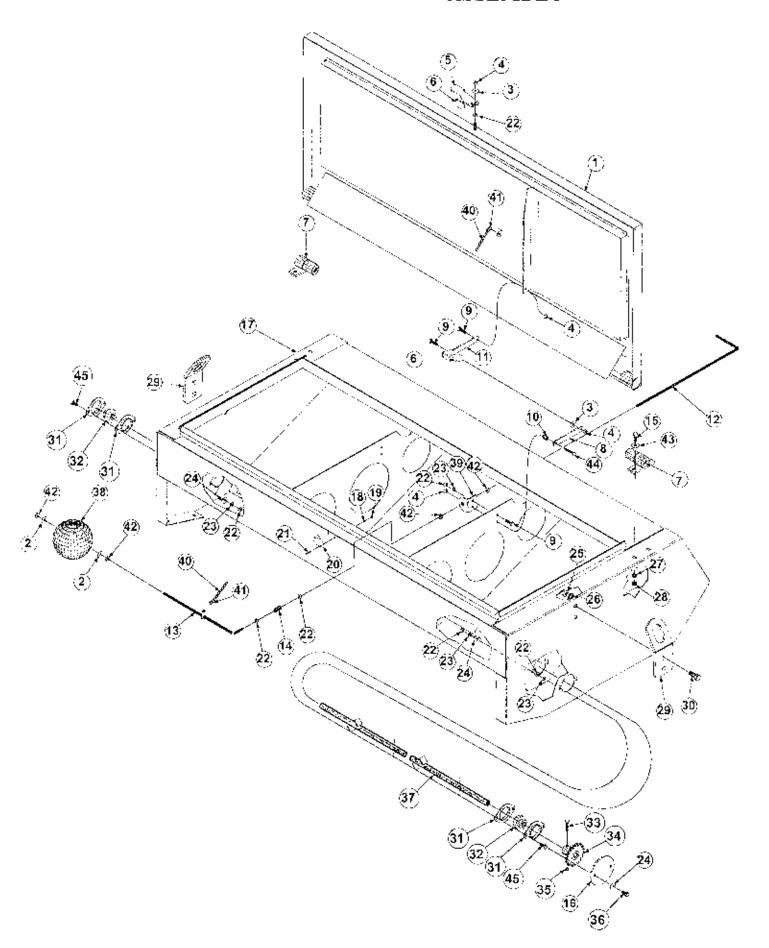


Maximum Pressure

VINEYARD DRILL BOX ASSEMBLY

Ref. No.	Part No.	Description
l.	VD4-C	4' Vineyard Drill Lid Weldment
	VD5-C	5' Vineyard Drill Lid Weldment
	VD6-C	6' Vineyard Drill Lid Weldment
2		Washer, Flat 5/16" SAE
3.		Washer, Wave Spring 5/16"
4.		Nut, Hex Nylock 5/16" - 18
5.	VD-C-07	Lid Latch-Handle
6.	817-033D	Lid Latch Grip
7.	VD-M	Lid Hinge Woldment
8.	VD-C-08	Lid Latch - Lower Arm
9.		Bolt, Hex Head 5/16" - 18 x 1" Long Gr 5 Plated
10.	VD-C-12	Lid Latch Lower Latch Bushing
11.	VD-C-09	Lid Latch - Upper Arm
12.	VD-L-02	Float Indicator - Shaft
13.	VD-1-01	Float Indicator Arm
14.	VD-L-04	Float Indicator - Coupling
15.	4	Bolt, Hex Head 3/8" - 16 x 1" Long Gr 5 Plated
16.	VD-B-10	Sprocket Cover Plate
17.	VD4-B	4' Seedbox
tr.	VDS-B	5' Scedbox
	VD6-B	6' Scedbox
18.	7 DOV D	Washer, Internal Star #10 Plated
19.		Nut, Hex #10-24 Plated
20.	VD-C-10	Rear Lid Latch Hook
20. 21.	V10-C-10	Screw, Round Head #10-24 x 3/4" Long Plated
22.		Nut, Hex 5/16" - 18 Gr 2 Plated
23.		Washer, Lock Spring 5/16" Plated
24.		Washer, Flat 5/16" USS Plated
25.		Nut, Hex 1/2" - 13 Gr 2 Plated
26.		Washer, Lock Spring 1/2" Plated
27.		Washer, Lock Spring 3/8" Plated
28.		Nut, Hex 3/8" - 16" Gr 2 Plated
29.	VD-B-09	Vineyard Drill Lift Hooks
30.	V 19-13-09	Bolt, Hex Head 1/2" - 13 x 1" Long Gr 5
31.		Flangette 47 MST
32.		Bearing 3/4" Bore Fafnir #RA12RRB
33.		Bolt, Hex Head 1/4" - 20 x 1-1/2" Long Gr 5
34.	202-002H	Sprocket, Speed Change 19T
35.	ZUZ-(A)ZF1	Nut, Lock Dimpled 1/4" - 20 Plated
36.		Bolt, Hex 5/16" - 18 x 3/4" Long Gr 5
37.	VD4-G-09	4' Agitator Weldment
37.	VD5-G-09	5' Agitator Weldment
	VD6-G-09	6' Agitator Weldment
38.		Float Indicator - Float
39.	VD I 03	Float Indicator - Shaft Bracket - Weldment
	VD-L-03	Float Indicator - Chain 10 4" Long
40.		S - flook, 1"
4l.		S = 1100k, 1 Lock Collar, 5/16"
42.		3/8" Flat Washer
43.		
44,		Bolt, Flex Head 5/16" x 1 ½"
45.		Bolt, Cairrage 5/16" x ¾" Long Gr 5

VINEYARD DRILL BOX ASSEMBLY

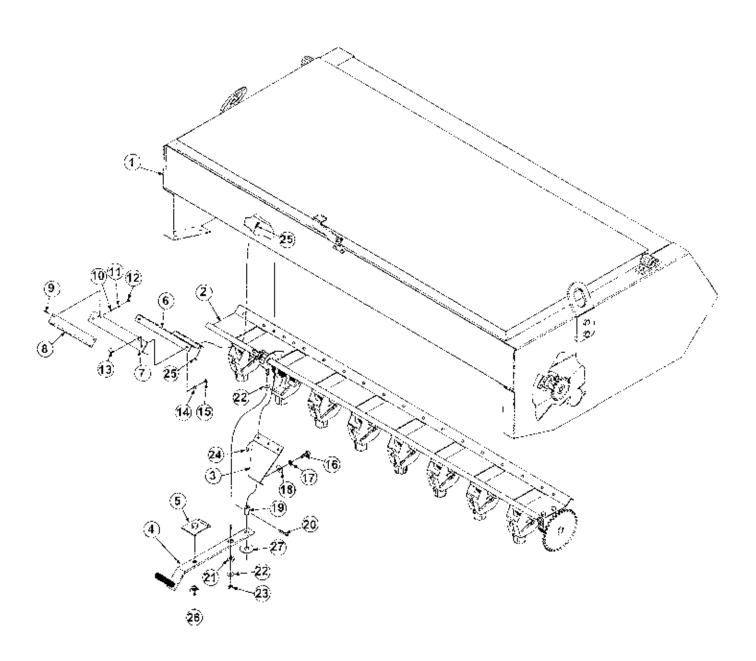


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FEEDER CUP AND DRIVE COMPONENTS

Ref No.	Part No.	DESCRIPTION
1.	VD-B	Box Weldment
2.	VD-K-01	Cup Tray
3.	VD-K-03	Pivot Handle Adjustment Mount
4.	VD-K-02	Seed Rate Adjustment Handle
5.	109-025H	Adjustment Lock Plate
6.	VD-K-04	Gauge Mounting Plate
7.	VD-K-06	Seed Gauge Mount Plate
8.	VD-K-07 -	Seed Rate Indicator Plate
9.		Screw, Round Head #10 x 1/2"
10.		Washer, Flat #10
11.		Washer, Internal Star #10
12.		Nut, Hex #10
13.		Bolt, Hex Flange 1/4" - 20 x 5/8" Long
14.		Washer, Lock Spring 1/4" Plated
15.		Nut, Hex 1/4" - 20 Gr 2 Plated
16.		Bolt, Hex Head 3/8" - 16 x 1"Long
17.		Washer, Lock Spring 3/8" Plated
18.		Washer, Flat 3/8" SAE Plated
19.	109-069D	Adjustment Handle Pivot Bushing
20.		Pin, Cotter 3/16" x 1-1/4" Long Plated
2 1.	308-015D	Seed Adjustment Bearing Ring Pivot
22.		Washer, Flat 5/16" USS Plated
23.		Nut, Nylon Self Locking flex 5/16" - 18
24.		Nut, Hex 1/4" - 20
25.	= 0.7 0	Bolt, Hex Carriage 1/4" - 20 x 3/4" Long
26.	UV = = = 7,	Nut, Wing 1/2" - 13 Plated
27.		Washer, Flat 5/8" USS Plated

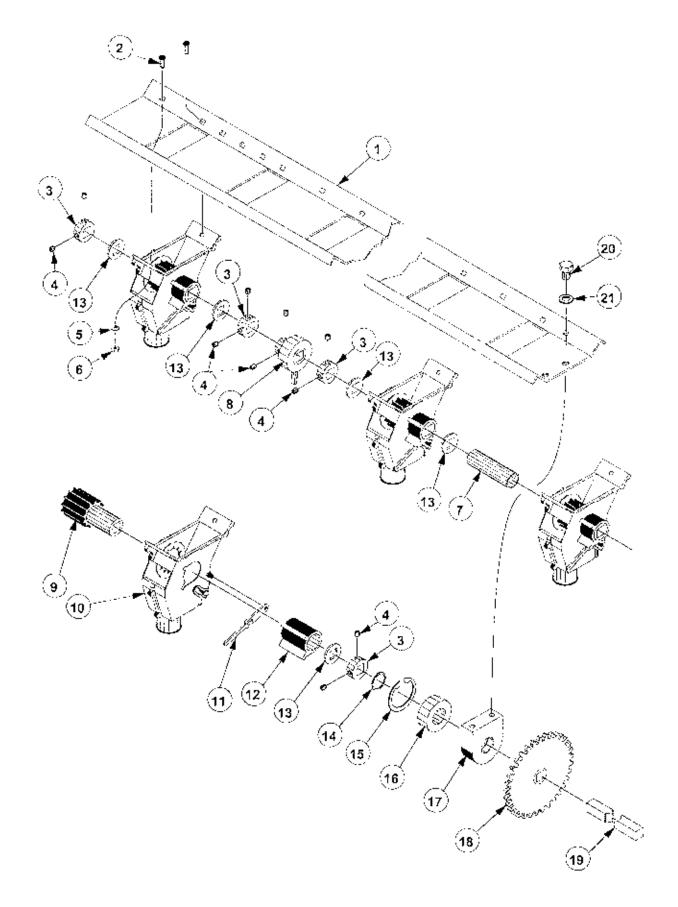
FEEDER CUP AND DRIVE COMPONENTS



FEEDER CUP ASSEMBLY

Ref. No.	Part No.	DESCRIPTION
1.	VD4-K-01	4' Seed Cup Tray
	VD5-K-01	5' Seed Cup Tray
	VD6-K-01	6' Seed Cup Tray
2.		Bolt, Carriage 1/4" - 20 x 3/4" Long
3.	/ 182-022D	Feeder Cup Shaft Locking Collar
4.	801-035C	Screw, Set Knurled Point 5/16" - 18 x 3/8" Long
5.		Washer, Lock 1/4"
6.	803-006C	Nut, Hex 1/4" - 20 Gr 5 Plated
7.113-	4330 -VI)-K-07	Spacer Tube 3-9/16" Long
8.	308-004S	Sprocket Shaft Adjustment Bearing Assembly
9.	890-190C	Powder Metal Sprocket
10.	817-075C	Seed Cup Assembly
11.	817-071C	Seed Cup Adjustment Handle
12.	817-074C	Cup Sleeve
13.	804-031C	Washer, Retaining
14.	800-004C	Ring, Snap External 1-3/16"
15.	800-107C	Ring, Snap Internal 2.165
16.	822-103C	Bearing, 30mm B x 55mm OD
17.	118-336D	Cup Drive Bearing Housing
18.	VD-K-07	Cup Drive Sprocket Weldment
19.	VD4-K-05	4' Seed Cup Shaft
	VD5-K-05	5' Seed Cup Shaft
	VD6-K-05	6' Seed Cup Shaft
20.		Bolt, Hex Head 3/8" - 13 x 3/4" Gr 5
21.		Washer, Lock Spring 1/2" Plated
	176-031V	Cup Drive Housing Assembly
		Includes 1 Each of Items 15 Through 17
	VD-K-08	Drive Sprocket Assembly 33 Tooth
		Includes 1 Each of Items 14 Through 18

FEEDER CUP ASSEMBLY



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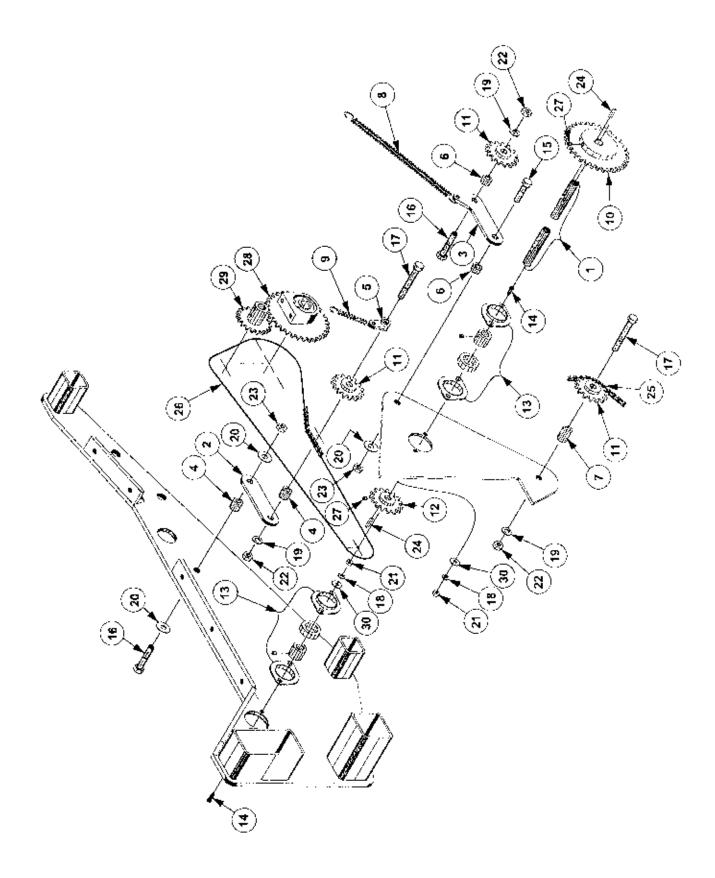
MAIN FRAME, WHEEL LEG, & WALKBOARD ASSEMBLIES

Ref No.	Part No.	DESCRIPTION	QTY.
1.	VD4-A	4' Main Frame	1
	VD5-A	5° Main Frame	1
	VD6-A	6' Main Frame	1
2.	VD-J	Jack Screw	l
3.	VD-E	Wheel Leg	1
4.	VD-D	Wheel Shaft	i
5.	VD4-H	4' Walk Board	1
	VD5-H	5' Walk Board	1
	VD6-H	6' Walk Board]
6.		3/4" Hex Nuts	4
7.		3/4" Lockwashers	4
8.	VD-F-01	Clevis Pin Cat. I & II	2
9.	VD-J-02	Set Screws	2
10.	VD-G-10	Sprocket Key	1
11.	VDB-01	7" Tension Spring	1
12.	VDB-04	Oil Seal	1
13.	VDB-05	Bearing Cone	2
14.	VDB-06	Bearing Cup	2
15.	VDB-07	Hub, 5 Studs	Ł
16.	VDB-08	Castle Nut	Į.
17.	VDB-09	Hub Cap	ĺ
18.	VDB-10	20.5 x 8 x 10 Tire	1
19.	VDB-11	8 x 10 Wheel, 5 on 5]
20.	VDB-12	Lug Nuts	5
21.	VDB-13	12 Tooth Sprocket]
22.		3/4" x 2" Hex Head Gr 5 z/p Bolts	4
23.		1" x 5-1/2" Hex Head Gr 5 z/p Bolts	1
24.		1" x 4" Hex Head Gr 5 z/p Bolts	1
25.	44 F# 107	1" Hex Nuts	2
26.		1/4" x 1-1/2" Cotter Pin)
27.		1/4" x 1-3/4" Lynch Pins	2

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JACK SHAFT, SPROCKET, IDLER & BEARING ASSEMBLIES

Ref No.	Part No.	DESCRIPTION	QTY.
1.	VD4-G-06	4' Jack Shaft	1
	VD5-G-06	5' Jack Shaft	1
	VD6-G-06	6' Jack Shaft	1
2.	VD-G-02	End Plate Tensioner Arm	1
3.	VD-G-01	Center Tensioner Arm & Spring Anchor	1
4.	VD-G-03b	Bushing, 13/16" Long	2
5.	VD-G-03	Bushing, Spring Anchor	1
6.	VD-G-04	Bushing, 1/2" Long	2
7.	VD-G-05	Bushing, 1-1/4" Long	l
8.	VDB-01	7" Tension Spring	ŀ
9.	VDB-02	2-1/2" Tension Spring	1
10.	VDB-33TS	33 Tooth Sprocket	J
11.	VDB-15f	15 Tooth Idlers	3
12.	VDB-12TS	12 Tooth Sprocket	l
13.	VDB-03	Stamped Flange Bearings, 3/4" Bore	2
14.		5/16" x 1" Carriage Square Neck Bolts	4
15.	,	1/2" x 2" Hex Head Gr 5 z/p Bolt	1
16.	/	1/2" x 2-1/2" Hex Head Gr 5 2/p Bolt	2
17.		1/2" x 3-1/2" Hex Head Gr 5 z/p Bolt	2
18.		5/16" Lock Washers	4
19.		1/2" Lock Washers	3
20.		1/2" Flat Washer	3
21.		5/16" Hex Nuts	4
22.		1/2" Hex Nuts	3
23.		1/2" Nylon Locknuts	2
24.	VD-G-10	Sprocket Key	2
25.		#40 Roller Chain 63-1/2" Long	l
26.		#40 Roller Chain 54 1/2" Long	1
27.		Set Screws, 3/16"	2
28.	118-226S	Feeder Cup Bearing Assembly	l
29.		19 Tooth Speed Change Sprocket	1
30.		5/16" Flat Washer	2

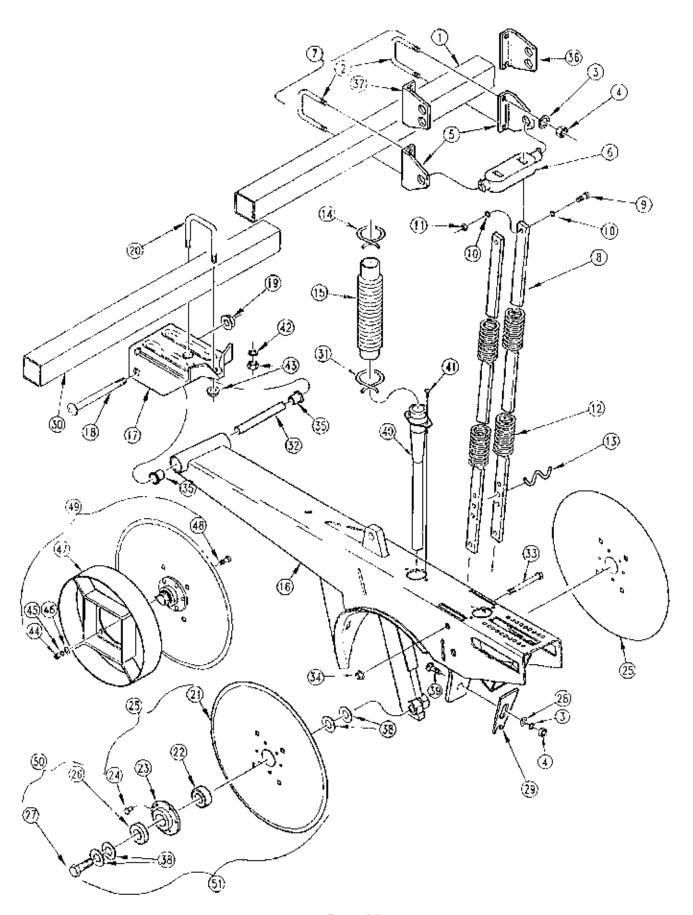


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STRAIGHT ARM DOUBLE DISK OPENER ASSEMBLY

Ref No.	Part No.	DESCRIPTION
1.		Spring Rod Mounting Tube
2.	806-004C	U-Bolt, 3/8" - 16 x 2" x 2-3/4" Long
3.	804-013C	Washer, Lock 3/8"
4.	803-014C	Nut, Hex 3/8" - 16
5.	121-025D	Clip, Spring Rod Casting
6.	812-012C	Triple Spring Rod Casting
7.	121-011A	Spring Casting Mounting Assembly, Includes 1 Each of Item 6, 2 Each of items 2 & 5, 4 Each of Items 3 & 4
8.	121-133D	Straight Arm Opener Spring Rod
9.	802-004C	Bolt, Hex 1/4" - 20 x 3/4" Long
10.	804-006C	Washer, Lock 1/4"
11.	803-006C	Nut, Hex 1/4" - 20
12.	807-118C	Spring Comp 13/16 IDX, 156Wx19.5
13.	107-0271>	Double Disk Bar Wire Clip
١٤	800-009C	Clamp, Hose 1-5/8" #26
15.	816-114C	Seed Hose - 30 Ribs x 7 ½ LG
16.	121-70311	Opener Weldment - Short
17.	142-194D	94 Straight Arm Opener Mount
18.	802-121C	Bolt, Carriage 1/2" - 13 x 5-1/2" Long Gτ 5
19.	803-169C	Nut, Hex FLG. Lock 1/2 - 13 Pit.
20.	806-109C	U-Bolt 1/2" - 13/3/1/32" x 3/7/8"
21.	107-134A	13 ½ Blade Update – ¼ Rivets
22.	188-001C	Bearing AA205DD
23	890-452C	Ribbed Bearing Flange-Plated
24.	800-212C	River, Button Head .203 x 9/16"
25	107-133S	D.D. W/ 205 BRG Assy-Plt Fing
26.	107-111D	DD BRG Flange Dust Cover
27	802-228C	HHCS 5/8-11 x 1 ½ GR5 Nyl
28.	804-012C	Washer Flat 3/8 SAE Plt
29.	107-1131)	D.D. Slotted Scraper
30.		Opener Mounting Tube
31.	800-008C	Clamp Hose 1 ½ No. 24
32	142-198D	Straight Arm Opener Pivot Pipe
33	802-427C	HFS 3/8 - 16 x 3 5/8 SPTHD
34.	803-209C	Nut Flange Lock 3/8 - 16 Plt
35.	817-084C	Parallel Arm Pivot Bushing
36.	121-127D	Offset Spring Rod Clip R.H.
37.	121-1280	Offset Spring Rod Clip L.H.
38.	804-040C	Washer Macii 1,00 x .625 x 18GA
39.	802-015C	RHSNB 3/8 = 16 x 1 GR 5
40.	817-133C	Plastic Opener Seed Tube
41.	801-002C	Screw flex Slt 10 16 x 3/8 P.THD CT
42.	804-015C	Washer Lock Spring 1/4 Plt
43.	803-037C	Nut Hex Whiz ½ -13 Plt
44.	803-008C	Nut Hex 5/16 – 18 Plt
45.	804-009C	Washer Lock Spring 5/16 Pit
46.	804-036C	Washer Flat 5/16 SAE Plt
47.	121-704/1	10 % Depth Band Wimt
43	802-029C	HHCS 7/16 = 14 x 1 ½ GR 5
49.	121-705A	10 ½ Depth Band Bundle
50.	107-1368	Blade Undate Hardware
51.	107-134A	13 % Blade Update – % Rivets

STRAIGHT ARM DOUBLE DISK OPENER ASSEMBLY

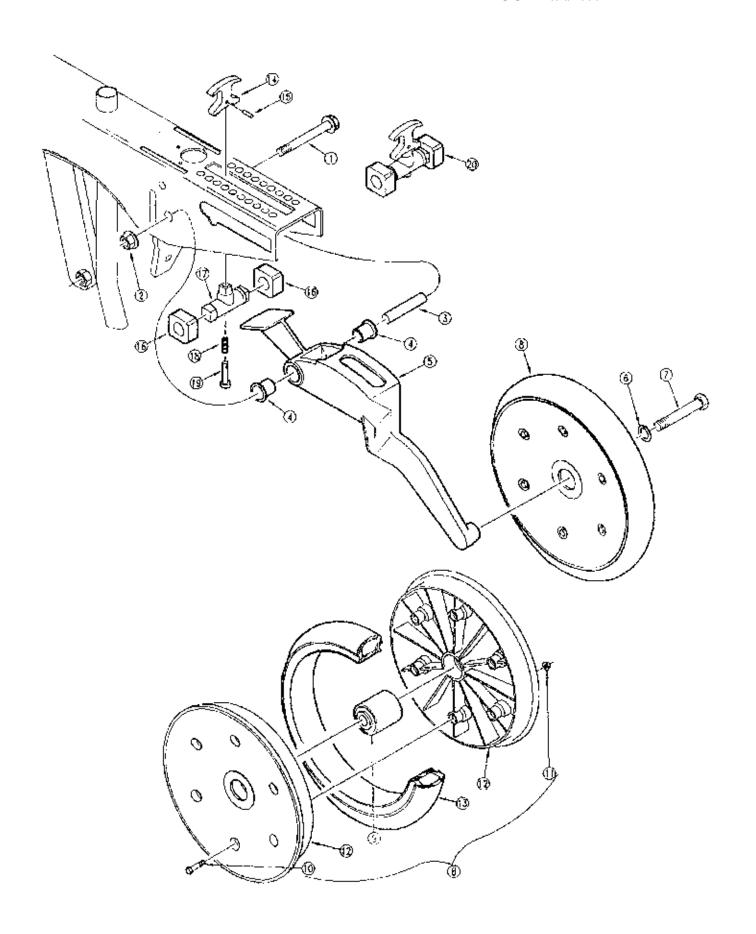


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2" x 13" SMOOTH CROWN PRESS WHEEL

Ref. No.	Part No.	DESCRIPTION
f .	802-421C	HFS ½ - 13 x 3 3/4
2.	803-169C	Nut Hex Fig. Lock 1/2 - 13 Plt.
3.	198-137D	Press Wheel Pivot Tube
4.	817-084C	Parailel Arm Pivot Bushing
5.	199-028D	2 x 13 Press Wheel Arm
6.	804-022C	Washer Lock Spring 5/8 Plt
7.	802-058C	HHCS 5/8 11 x 2 ½ GR5
8.	814-157C	2 x 13 Press Wheel Assembly
9.	822-170C	Bearing Press Wheel Assembly
10.	802-617C	HHFS ¼ -20 x 1 ½ GR 5
11.	803-088C	Nut Hex Lock ¼ - 20 Flg
12.	817-296C	2 x 13 Press Wheel Rim Half
13.	814-159C	2 x 13 Press Wheel Tire
1÷.	817-328C	T Handle Assembly
15.	805-186C	Pin Roll 5/32 x 5/8 Plt
16.	817-132C	Press Wheel Arm Bumper
17.	812-194C	Casting PW Adjustment Trunnion
18.	807-106C	Spring .540 O.D. x 1 ¼ x .054W
19.	805-154C	Pin Clevis 3/8 x 2 1/8 Usable
20.	122-202S	PW Adjustment Trumion Assy

2" x 13" SMOOTH CROWN PRESS WHEEL



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LIMITED WARRANTY

T.G. Schmeiser Co., Inc. P.O. Box 1047, Fresno, California 93714, warrants, to the original Retail Customer, the new Schmeiser equipment identified to be free of defects in material and workmanship. Any part of said equipment that, in Schmeiser's judgement, shows evidence of such defects will be repaired without charge, provided that the failure of part(s) shall have occurred within six (6) months from the date of delivery of said equipment to the Retail Customer. Tires, hoses, Hydraulic components and other trade accessories may be warranted by their respective manufacturers and those warranties, if any, are hereby extended to the Retail Customer. Expendable components such as points, shanks, blades, rings, teeth, and the like are excluded from this warranty.

The Retail Customer must pay the transportation cost to and from the Schmeiser Dealer's service shop for warranty service. Warranty service will be performed by the Schmeiser Dealer from whom the equipment was purchased, in his service shop and during his regularly scheduled days and hours of operation.

All Schmeiser obligations under this warranty shall be terminated if the equipment is modified or altered in ways not approved in writing by Schmeiser, if repair parts other than genuine Schmeiser repair parts have been used, or if the equipment has been subject to misuse, neglect, accident, improper maintenance or improper protection in storage.

Schmeiser reserves the right to make improvements in design or changes in specification at any time without incurring any obligation to owners of equipment previously sold.

No agent or persons has authority to alter, add to or waive above warranties which agreed to be the only warranties, representation or promises, expressed or implied, as to the quality or performance of the products covered and which do not include any implied warranty or merchantability or fitness. In no event will Schmeiser be liable for incidental or consequential damages or injuries, including, but not limited to, loss of crops, loss of profits, rental of substitute equipment or other commercial loss.