

# SUPER 29D WITH BRUSHES

PAGE NUMBER	DESCRIPTION
.....1	Front Air Damper.....
.....2	Back Air Damper.....
.....3	Top Fan Shaft.....
.....4	Top Air Discharge Valve.....
.....5 & 6	Does Not Apply to This Manual
.....7	Brush Adjusting System.....
.....8	Tilting Rod Assembly.....
.....9	Rope Sheave Assembly.....
.....10	Brush Carrier Assembly.....
.....11 & 12	Bottom Fan Shaft.....
.....13 & 14	Counter Shaft.....
.....15 & 16	Eccentric Shaft.....
.....17	Does Not Apply to This Manual
.....18	Top Shoe Assembly.....
.....19	Bottom Shoe Assembly.....
.....20	Bridge Plate.....
.....21	Screen Hooks.....
.....22	Telescoping Aprons.....
.....23	Catchall Spouts.....
.....24	Adjustable Belt Take-Ups.....
.....25A	Bottom Fan Metal .....
.....26	Air Trunk Assembly .....
....27 thru 29	Does Not Apply to This Manual
.....30	Rocker Assembly View .....
.....31 & 32	Does Not Apply to This Manual
.....33	Bottom Shoe Assembly .....

## TOP FAN ASSEMBLY

ITEM NO.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
3		F01101802	1	3/4" Back Damper Flange Bearing
5	3	F01604400	1	1-15/16" X 65" Top Fan Shaft
		Not Available		Old Style A Frame Housing
10	3	F92400024	2	1-15/16" Bearing Insert <b>(For Above A Frame Housing)</b>
11	2	F04303136	1	Adjusting handle & Crank (36" Long for back air)
4	1	F05313000	2	Adjusting handle shaft Bearing
	1	F04001600	1	Hand Crank Handle with wood Knob
16	2	F05002200	1	Back Air Damper with End Castings
17	1	F05002200	1	Front Air Damper with End Castings
	1	F01013500	2	Valve Control Assy Complete <b>( Includes 1 Each Below)</b>
1	1	F01005500	1	Universal Joint
9	1	F01805800	1	6" Threaded Screw Shaft with 5/8" Shank
13	1	F04313500	1	Swivel Plate (bolts to wood side)
**	1	F04313100	1	Plain Pivot Nut
14	1	F04314800	1	Swivel Arm Pivot Lever
**	1	F04313200	1	Threaded Pivot Nut
18	3	F05502300	2	High Static Fan Wheel Assembly with 6" Wide Blade
215	26	F05501201	1	Right Side Top Fan Housing Assembly <b>( Includes 2 Sides &amp; Metal)</b>
215	26	F05501204	1	Left Side Top Fan Housing Assembly <b>( Includes 2 Sides &amp; Metal)</b>
15	1	F05003900	2	Top Fan Bleeder Inlet Slide Assembly

**\*\*Refers to the previous listing number. May give parts within that assembly, right side-left side numbers, or numbers for parts that are specific to RH or LH machines.**

**Note: Front of the Machine is Where the Screens are Inserted Into the Machine. Discharge Spouts are Determined by Standing at the Front and Facing the Machine. Right Hand Discharge Spouts Would Discharge Towards Your Right Hand.**

## TOP AIR DISCHARGE ASSEMBLY

ITEM NO.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
21	All 4	F04500000	1	Complete Valve Assembly <b>(Includes Below)</b>
22	4	F04800010	1	Hinged Gate Weldment, 25-7/8"
**		F04600510	1	Gate Board 2.5" x 31.25"
**		F92700004	2	Gate Springs
23	4	F04501401	1	#9 Discharge Roll Assembly with Flanges (Wood Is 25-7/8")
		F01100000	2	5-1/4" Cast Flange Bearing 1" Bore
<b>Note: if new unit is built, the bearings below will be used</b>				
25	4	40000038	4	1" Bore Flangette Stampings <b>(New Style)</b>
186	4	F92460200	2	1" Bearing <b>(New Style)</b>
	2	F11303814	2	Bearing Standoff Bracket
20	4	F01614500	1	Top Valve Shaft 1" X 44-1/2"

## BRUSH ADJUSTING SYSTEM

ITEM NO.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
42	7	F01000900	4	Adjustments Handle with Spring (about 6" long)
		F01200203	8	Pionion Gear 3/4" Bore
**	9	F01000200	12	Rope Sheave Assembly Complete <b>(Includes 1 Each Below)</b>
46	9	F01401300	1	Rope Sheave Only - 3"
50	9	F01802401	1	Rope Sheave Axle with Hardware
40	9	F01101500	1	Rope Sheave Bracket Only
41	9	F01104300	4	One Hole Plate with 1-5/8" Bore
51	9	Not Available	2	Straight Jack Plate
**	9	Not Available	1	Right Hand Beveled Jack Plate
**	9	Not Available	1	Left Hand Beveled Jack Plate
		F97700003	65	Wirelon Plastic Coated Cable (In Feet)
48	10	F01605805	4	Brush Carrier Shaft 1" X 52-5/8" <b>(Machined down to 3/4" on ends)</b>
	10	F10002120	8	49-1/2" Black Course Brushes
	10	F10002110	8	49-1/2" White Fine Brushes <b>(Used on Wire Mesh Screens)</b>
54	10	F09500200	4	NEW STYLE Brush Carrier Assy 18" <b>( Includes 2 Rollers &amp; Axles )</b>
53	10	F09501300	8	Brush Carrier Roller for 1" Shaft
56	10	F09802401	8	Carrier Roller Axle with Hardware
55	10	F09800100	4	2 Piece Cable Clamps

## BOTTOM FAN ASSEMBLY

ITEM NO.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
59	12	F01612410	1	Fan Shaft 1-1/2" X 62-1/2" <b>(Includes Keys)</b>
71	12	F19803601	2	3/8" X 5" Keys
		<b>Not Available</b>	2	6715 Bridgetree Housing
		F92400022	2	Bearing <b>Insert Only</b> For Above
<b>Note: If Housing is Bad, Please Use Item 72 &amp; 62 as Replacement</b>				
72	11	F92401080	2	1-1/2" Pillow Block Bearing
62	11	F02707300	2	Bridgetree Mounting Angle for Bearing
68	11	F19701600	1	12" Diameter 1-1/2" Bore Stationary Disc
69	11	F19702901	1	12" Diameter 1-1/2" Bore Spring End Disc
70	11	F92700007	1	10" Heavy Duty Spring
67	11	F19700800	1	Hand Nut for 1-1/2" Shaft
		F91180034	1	ATF 34 Variable Air Regulator Belt( 2-7/8" x 108")
61	12	F97700052	2	Tapered Fan Entry Cones
**	12	F06002781	1	Bottom Fan Assembly Complete( <b>includes 60,63 &amp; Bolts</b> )
60	12	F01701100	4	Wooden Fan Blades
63	12	F06001000	3	Spider Fan Arms
201	25 A	F06302020	1	Bottom Drum Iron 45-5/8" x 80"
203	25 A	F06302120	1	Discharge Chute 45-5/8" x 4"
204	25 A	F06304303	1	Breast Iron 45-5/8" x 27-1/4"

## COUNTERSHAFT ASSEMBLY

ITEM NO.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
73	14	F01612800	1	Countershaft 1-1/2" X 70-3/4" ( <b>Includes Keys</b> )
84	14	F19803601	2	3/8" X 5" Keys
83	14	F19805600	2	3/8" X 4-1/4" Keys
		F87300052	1	Woodruff Key 1-1/4"
		<b>Not Available</b>	1	6714 Halfmoon Housing
		F92400022	1	Bearing <b>Insert Only</b> For Above
		F92053126	1	6714 Conversion Kit Complete with Bearing
74	14	F92441082	1	7475 Halfmoon Housing Complete w/Bearing
**	14	F92400026	1	1-1/2" <b>Bearing Only</b> for 7475 Bearing
79	14	F19701600	1	12" Diameter 1-1/2" Bore Stationary Disc ( <b>Bottom Fan Drive Side</b> )
78	14	F19701400	1	12" Diameter 1-1/2" Bore Thrust End Disc ( <b>Bottom Fan Drive Side</b> )
75	14	F92452090	1	B-34 Thrust Bearing
77	14	F19500700	1	1-1/2" Adjusting Nut ( <b>Includes Zerk with Plug #24</b> )
24	16	F19806200	1	Zerk with Plug for Adjusting Nut
79	13	F19701100	1	9" Diameter 1-1/2" Bore Stationary Disc ( <b>Eccentric Variable Side</b> )
80	13	F19700900	1	9" Diameter 1-1/2" Bore Spring End Disc ( <b>Eccentric Variable Side</b> )
82	13	F92700007	1	10" Heavy Duty Spring
81	13	F19700800	1	Hand Nut for 1-1/2" Shaft

## ECCENTRIC SHAFT ASSEMBLY

ITEM NO.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
85	16	F01615010	1	Eccentric Shaft 1-1/2" X 66-1/2" <b>(Includes Keys)</b>
		F87300052	4	3/8" x 1-1/4" Woodruff Keys
83	14	F19805600	2	3/8" x 4-1/4" Keys
		F19803601	1	3/8" x 5" Key
86	15	Not Available	1	6714 1-1/2" Halfmoon Flange Bearing Complete
**		F92400022	1	1-1/2" Bearing <b>Insert Only</b> for Above
		F92053126	1	6714 Conversion Kit Complete
87	16	F92441082	1	7475 1-1/2" Halfmoon Bearing Complete w/Bearing
**		F92400026	1	1-1/2" Halfmoon Bearing <b>Insert Only</b> for Above
93	16	F19701100	1	9" Diameter 1-1/2" Bore Stationary Disc
92	16	F19701000	1	9" Diameter 1-1/2" Bore Thrust End Disc
94	16	F19500700	1	1-1/2" Adjusting Nut
88	16	F92452090	1	B-34 Thrust Bearing
		F91180017	1	ATF 17 Variable Speed Shoe Regulator Belt (1-11/16" x 79")
		F19600001	1	Wood Pitman Arm Right Hand Bottom Shoe
		F19600002	1	Wood Pitman Arm Left Hand Bottom Shoe
		F19600101	1	Wood Pitman Arm Right Hand Top Shoe
		F19600102	1	Wood Pitman Arm Left Hand Top Shoe
		F92400038	4	Bearing Insert Only <b>(Old Style )</b>
91	15	F19503600	4	<b>NEW STYLE</b> 1-1/2" Throw Eccentric Assy Complete <b>(Includes Below)</b>
**		F92400053	1	Bearing Insert for Eccentric Assembly
**		F19804004	1	1-1/2" Bore 1/2" Throw Eccentric Hub
**		F19703000	1	Eccentric Housing for Assembly

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 Right Hand Discharge Spouts Would Discharge Towards Your Right Hand.**

## TOP SHOE ASSEMBLY

ITEM NO.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
100	18	F03000003	1	<b>Top Shoe Assembly <u>Complete</u> with Rockers</b>
101	18	F03014010	1	Front Grain Deflector Door complete w/Door Ends & Metal Deflector
188	18	F03322802	2	Grain Door Ends
102	18	F03007400	2	Front Shoe Hanger with Top Block
103	18	F03016510	2	Back Shoe Hanger with Top Block <b>(customer to cut to length)</b>
105	18	F03102600	2	Shoe Hanger Support Block
104	18	F03101901	2	Wood Cross Hanger Girt 53" long
92	18	F03401600	1	Canvas Apron Assembly
106	18	F03100201	1	Wooden Shoe Side, Right Hand
**		F03100202	1	Wooden Shoe Side, Left Hand
107	18	F03120202	1	Wooden Pitman Board 45-1/8" x 7-1/2"
108	20	F03318510	1	Bridge Plate 43-3/16" x 4-3/4"
109	18	F03300710	1	Shoe Bottom Metal 44-1/2" x 20"
**	18	F03320810	1	Shoe Bottom Metal 44-1/2" x 28"
110	18	F08300501	1	Top Air Discharge Valve Spout <b>(Right Hand Discharge)</b>
**	18	F08300502	1	Top Air Discharge Valve Spout <b>(Left Hand Discharge)</b>
111	18	F03321200	1	Front Grain Deflector Spout with 6" Rubber
130	18	F08302301	1	Right Side Divided Sand Spout
**	18	F08302302	1	Left Side Divided Sand Spout
127		F03803600	1	Grain Stop Apron
44	8	F01200203	4	Pinion Gear with 3/4" Bore
45	8	F01200300	4	4" Long Rack
47	8	F01608320	2	Tilting Rod 3/4" X 48-1/2"
49	8	F01801700	4	Escutcheon Plate
52	8	66276400	2	3/4" Hex Nut

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## TOP SHOE ASSEMBLY CONTINUED

ITEM NO.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
115	18	F03500000	1	Top Rocker Assembly Complete <b>(Parts Listed Below)</b>
145	30	F03600000	1	Right Hand Top Wooden Rocker Arm Only 60" Long
**		F03600100	1	Left Hand Top Wooden Rocker Arm Only 60" Long
153	30	F03800413	2	60" Metal Screenway Liner
156	30	F03801100	2	60" Metal Rubber Holding Strip
159	30	F03900100	2	60" Rubber Seal 2-1/2" Wide
144	21 / 30	F03500800	2	Screen Hook Assembly
	30	F03800001	2	Rocker Bottom Cross Brace
	30	F03505805	1	Rocker Top Pipe Girt
		F90005301	1	Rocker Adjusting Pipe Girt
175	30	F03500600	2	Rocker Cups - <b>(Brush Screen Cleaning)</b>
				<b>Or</b>
**	30	F03505900	2	Rocker Cups - <b>(Ball Tray Screen Cleaning)</b>
116	18	F03500100	1	Bottom Rocker Assembly Complete <b>(Parts Listed Below)</b>
145	30	F03600000	1	Right Hand Top Wooden Rocker Arm Only 60" Long
**		F03600100	1	Left Hand Top Wooden Rocker Arm Only 60" Long
153	30	F03800413	2	60" Metal Screenway Liner
156	30	F03801100	2	60" Metal Rubber Holding Strip
159	30	F03900100	2	60" Rubber Seal 2-1/2" Wide
124		F03806000	2	Screen Stop
144	21 / 30	F03500800	2	Screen Hook Assembly
176	30	F03800001	2	Rocker Bottom Cross Brace
177	30	F03505805	1	Rocker Top Pipe Girt
		F90005301	1	Rocker Adjusting Girt
175	30	F03500600	2	Rocker Cups - <b>(Brush Screen Cleaning)</b>
				<b>Or</b>
**	30	F03505900	2	Rocker Cups - <b>(Ball Tray Screen Cleaning)</b>

## BOTTOM SHOE ASSEMBLY

ITEM NO.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
131	19	F03000106	1	Bottom Shoe Complete with Rockers <b>(Right Hand Discharge)</b>
**			1	Bottom Shoe Complete with Rockers <b>(Left Hand Discharge)</b>
138	19	F03101401	1	Wooden Shoe Side Right Hand
**	19	F03101402	1	Wooden Shoe Side Left Hand
139	19	F03120202	1	Wooden Pitman Board
142	19	F03300810	2	Bottom Shoe Metal 44-1/2" x 28"
132	19	F03016510	2	Front Hanger with Block , Both Sides
137	19	F03102601	2	Shoeside Hanger Support Block
133	19	F03016520	3	Back Shoe Hanger with Block
136	19	F03101901	1	Cross Girt Wood Hanger 53"
432	33	F03101710	2	Wood Sand Spout Track
433	33	F03301001	2	Metal Sand Spout Guide
431	33	F08002502	1	Sand Spout <b>(Left Hand Discharge)</b>
**		F08002501	1	Sand Spout <b>(Right Hand Discharge)</b>
441	33	F08302002	1	Straw Spout <b>(Left Hand Discharge)</b>
**		F08302001	1	Straw Spout <b>(Right Hand Discharge)</b>
44	8	F01200203	4	Pinion Gear with 3/4" Bore
45	8	F01200300	4	4" Long Rack
49	8	F01801700	4	Escutcheon Plate
47	8	F01608320	2	Tilting Rod 3/4" X 48-1/2"
52	8	66276400	2	3/4" Hex Nut
145		F03500200	1	Top Rocker Assembly Complete <b>(Parts Listed Below)</b>
145	30	F03600200	1	Right Hand Top Wooden Rocker Arm Only 65" Long
**		F03600300	1	Left Hand Top Wooden Rocker Arm Only 65" Long
153	30	F03800413	2	60" Metal Screenway Liner
156	30	F03801100	2	60" Metal Rubber Holding Strip
159	30	F91152006	10	60" Rubber Seal 2-1/2" Wide(In Feet)
124		F03801000	2	Screen Stop
144	21 / 30	F03500800	2	Screen Hook Assembly
176	30	F03800001	2	Rocker Bottom Cross Brace #9
177	30	F03505805	1	Rocker Top Pipe Girt #9
		F90005301	1	Rocker Adjusting Girt
141	30	F03310008	1	Grain Stop Assembly with Rubber
175	30	F03500600	2	Rocker Cups - <b>(Brush Screen Cleaning)</b>
				<b>Or</b>
**	30	F03505900	2	Rocker Cups - <b>(Ball Tray Screen Cleaning)</b>

## BOTTOM SHOE ASSEMBLY CONTINUED

ITEM NO.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
435	33	F03500300	1	Bottom Rocker Assembly Complete <b>(Parts List Below)</b>
145	30	F03600400	1	Right Hand Bottom Wooden Rocker Arm Only
**		F03600500	1	Left Hand Bottom Wooden Rocker Arm Only
153	30	F03800413	2	60" Metal Screenway Liner
156	30	F03801100	2	60" Metal Rubber Holding Strip
159	30	F91152006	10	60" Rubber Seal 2-1/2" Wide (In Feet)
		F03806000	2	Screen Stop
144	21 / 30	F03500800	2	Screen Hook Assembly
176	30	F03800001	2	Rocker Bottom Cross Brace
		F90005304	1	Rocker Adjusting Girt
141	30	F03310009	1	Grain Stop Assembly with Rubber
175	30	F03500600	2	Rocker Cups - <b>(Brush Screen Cleaning)</b>
				<b>Or</b>
**	30	F03505900	2	Rocker Cups - <b>(Ball Tray Screen Cleaning)</b>

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## MISCELLANEOUS PARTS

ITEM NO.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
182	18	F08000000	2	Hinged Side Spout Diverter
183	23	F08501276	1	Front Inside Catchall Spout with 7-1/2" Lip, Left Hand Discharge
183	23	F08501275	1	Front Inside Catchall Spout with 7-1/2" Lip, Right Hand Discharge
184	23	F08501277	1	Front Outside Catchall Spout with 9-1/2" Lip, Right Hand Discharge
184	23	F08501278	1	Front Outside Catchall Spout with 9-1/2" Lip, Left Hand Discharge
181	23	F01800100	2	Right Side 3 Position Catchall Holder
**	23	F01800200	2	Left Side 3 Position Catchall Holder
193	All 24	F01002803	1	Belt Idler Assembly Complete 5-1/2" <b>(Includes Below)</b>
178	24	F01100100	1	Idler Pivot Lever
191	24	F01806202	1	5-1/2" Belt Take Up Shaft
179	24	F01103300	1	1" Cast Iron Pillow Block
180	24	F01400700	1	Idler Sheave with Bushing
185	24	F01805010	1	Belt Tightner Axle with Hardware

## PULLEYS & BELTS

ITEM NO.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
167		F91162112	1	B-112 Belt (to Brush Drive)
		F01303510	1	3-4 Combination Pulley 1-1/2" Bore
		F91162096	1	B-96 Belt (to Top Air Discharge)
170		F91912080	1	1B8.0 SDS Valve Shaft Sheave ( Is Driven by Eccentric Shaft)
**		44010510	1	SDS Bushing for Valve Shaft Sheave
174		<b>Obsolete</b>	1	1B 3.0 Countershaft Pulley 1-1/2 Bore" (Drives Hopper)
167		F91162112	1	B-112 Belt ( to Hopper)
172		43120255	1	2B12.4 SK Countershaft Sheave (Is Driven By Top Fan Shaft)
**		44010918	1	SK Bushing for above
173		43120115	1	2B5.4 SDS Top Fan Shaft Pulley (Drives Countershaft)
**		44010525	1	Bushing SDS 1-15/16" for above
166		F91162120	2	B-120 Belt (From Countershaft to Top Fan)

**Note: The Original Drive From the Top Fan to the Countershaft was a 3 Groove Fixed Bore Pulley. Change this to a 2 Groove Pulley and Bushing**

**The Following Are the Ball Tray Kit Parts That were Installed on the Super 29D Cleaners in the Past**

Old Style Ball Trays with 1" Square Turkey Wire That Came Out With the Screens. Ball Trays were not attached to the Screens.

F90005062	4	Ball Tray Weldment for 1 Piece Screens
F80026101	432	Black 1-3/8" Balls ( 108 Per Tray)
		or
F90005063	4	Ball Tray Weldment for 2 Piece Screens (For Bottom 26" Section)
F90005069	4	Ball Tray Weldment for 2 Piece Screens (For Top 34" Section)
F80026101	432	Black 1-3/8" Balls ( 54 Per Tray)
F11301707	8	Ball Tray Support Rail 24"
F11301708	8	Ball Tray Support Rail 31"
F90005101	2	Rocker Adjusting Girt Assembly Center
F90005301	2	Rocker Adjusting Girt Assembly Offset

**New Style Permanent** Ball Trays with That Stayed in the Machine When the Screens Were Removed. Became available in 1994

F92053515		Ball Tray Kit Complete ( <b>Includes Below</b> )
F90008272	8	Permanent Ball Tray Weldment
F80026101	640	Black 1-3/8" Balls ( 80 Per Tray)
F11308889	4	Right Hand Ball Tray Rail w/ End Stop
F11308890	4	Left Hand Ball Tray Rail w/ End Stop
F90008258	4	Right Hand Ball Tray Rail w/ Screen Hook Holder Bracket
F90008259	4	Left Hand Ball Tray Rail w/ Screen Hook Holder Bracket
F03500800	8	Screens Hook Assembly Screws and Bolts