

# SUPER X298D

## PERMANENT BALL TRAYS

PAGE NUMBER	DESCRIPTION
.....1	Front Air Damper.....
.....2	Back Air Damper.....
.....3	Top Fan Shaft.....
.....4	Top Air Discharge Valve.....
.....5	Damper Assembly.....
.....6	Back Settling Chamber Auger.....
.....7 thru 10	Does Not Apply to This Manual
.....11 & 12	Bottom Fan Shaft.....
.....13 & 14	Counter Shaft.....
.....15 & 16	Eccentric Shaft.....
.....17	Pitman Assembly.....
.....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.....
.....25	Bottom Fan Metal .....
.....26	Air Trunk Assembly .....
.....27 thru 29	Does Not Apply to This Manual
.....30a	Rocker Assembly View .....
.....31 & 32	Does Not Apply to This Manual
.....33	Bottom Shoe Assembly .....

## Top Fan Section

ITEM NO.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
5	3	F01601400	1	1-15/16" X 79" Top Fanshaft
10	3	F92401150	2	1-15/16" Bore Pillow Block Bearing
11		F04303122	1	Adjusting Handle & Crank ( <b>22" Long for back air</b> )
12	1	F04303128	1	Adjusting Handle & Crank ( <b>28" Long for top air</b> )
4	1	F05313000	2	Adjusting handle shaft Bearing
	1	F04001600	1	Hand Crank Handle with wood Knob
16	2	F05006720	1	Back Air Damper with End Castings
17	1	F05003703	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	F05502400	2	High Static Fan Wheel Assembly with 8" Wide Blade
215	26	F05501202	1	Right Side Top Fan Housing Assembly ( Includes 2 Sides & Metal)
215	26	F05501205	1	Left Side Top Fan Housing Assembly( Includes 2 Sides & Metal)
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	F04500001	1	Complete Valve Assembly ( <b>Includes Below</b> )
22	4	F04800002	1	Hinged Gate Weldment 34-3/8"
**		F04600502	1	Gate Board 43-1/8"
**		F92700004	2	Gate Springs
23	4	F04501402	1	#8 Discharge Roll Assemblby with Flanges (Wood is 34-3/8" Long)
25	4	F92460200	2	1" Bearing Insert
186	4	40000038	4	Flangette Stampings For Above
20	4	F01630402	1	Top Valve Shaft 1" x 50"
20	4	F01630401	2	Shaft Extension 1" x 12"
20	4	F01630403	2	Shaft Coupler

## BOTTOM/BACK SETTLING CHAMBER & AUGER

ITEM NO.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
26	5	F01000900	1	Adjusting Lever with Spring Loaded Knob About 6" Long
29	5	F01800880	1	Adjusting Plate ( Mounts to Wood Side)
32	5	F07000720	1	Wood Damper Assembly with End Castings
31	6	F07000350	1	Complete Auger Assembly for Left Hand Discharge( <b>Parts Below</b> )
28	6	F12900317	1	Shaft with Flighting 76-1/2" for Left Hand Discharge Machine
30a	6	F98600005	4	Cleanout Door Latch
37	6	F92460301	2	1-3/16" Flangette Bearing
36	6	40000005	4	Bearing Flangette Stamping (For Above Bearing)
31	6	F07000320	1	Complete Auger Assembly for Right Hand Discharge( <b>Parts Below</b> )
28	6	F12900217	1	Shaft with Flighting 76-1/2" for Right Hand Discharge Machine
30a	6	F98600005	4	Cleanout Door Latch
37	6	F92460301	2	1-3/16" Bearing Insert
36	6	40000005	4	Bearing Flangette Stamping (For Above Bearing)

**Note: Front of the Machine is Where the Screens are Inserted Into the Machine.  
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**Right Hand Discharge Spouts Would Discharge Towards Your Right Hand.**

## **BOTTOM FAN ASSEMBLY**

<b>ITEM NO.</b>	<b>PAGE NO.</b>	<b>PART NUMBER</b>	<b>QTY.</b>	<b>DESCRIPTION</b>
59	12	F01615901	1	Fan Shaft 1-1/2" X 79" <b>(Includes Keys)</b>
71	12	F19803601	2	3/8" X 5" Keys
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 with Set Screws
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	F06002778	1	Bottom Fan Assembly Complete( <b>includes 60,63 &amp; Bolts</b> )
60	12	F01701101	4	Wooden Fan Blades 55-5/8" Long
63	12	F06001000	4	Spider Fan Arms 1-1/2" Bore
<b>All</b>	25	F06002002	1	Bottom Fan Drum Assembly Complete ( <b>Includes Below</b> )
201	25	F06302705	1	Bottom Drum Iron 57-5/8" x 88"
202	25	F06302707	1	Drum Iron 57-5/8" x 26-3/4"
203	25	F06302106	1	Discharge Chute 4"
204	25	F06302708	1	Breast Iron 57-5/8" x 24-1/2"
205	25	F06302706	1	Drum Iron 57-5/8" x 22-3/8"

## COUNTERSHAFT ASSEMBLY

ITEM NO.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
73	14	F01615801	1	Countershaft 1-1/2" X 85-3/4" ( <b>Includes Keys</b> )
84	14	F19803601	2	3/8" X 5" Keys
83	14	F19803700	1	3/8" X 4-1/2" Keys
76	13	F92401080	1	1-1/2" Pillow Block Bearing
74	14	F92441083	1	7475 Pillow Block Bearing Complete w/Bearing
**	14	F92400026	1	1-1/2" Bearing <b><u>Insert Only</u></b> for 7475 Bearing
79	14	F19701600	1	12" Diameter 1-1/2" Bore Stationary Disc with Set Screws
78	14	F19701400	1	12" Diameter 1-1/2" Bore Thrust End Disc
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	F19701600	1	12" Diameter 1-1/2" Bore Stationary Disc with Set Screws
80	13	F19702902	1	12" Diameter 1-1/2" Bore Spring End Disc
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	F01617400	1	Eccentric Shaft 1-1/2" X 78" <b>(Includes Keys)</b>
		F19803601	3	3/8' x 5" Square Keys
		F87300052	4	3/8" x 1-1/4" Woodruff Keys
89	15	F92401080	1	1-1/2" Pillow Block Bearing
87	16	F92441083	1	7475 1-1/2" <b>Pillow Block</b> Bearing Complete w/Bearing
**		F92400026	1	1-1/2" Bearing <b>Insert Only</b> for Above
93	16	F19701600	1	12" Diameter 1-1/2" Bore Stationary Disc with Set Screws
92	16	F19701400	1	12" Diameter 1-1/2" Bore Thrust End Disc
94	16	F19500700	1	1-1/2" Adjusting Nut <b>(Includes Zerk with Plug #24)</b>
**	16	F19806200	1	Zerk with Plug
88	16	F92452090	1	B-34 Thrust Bearing
90	17	F19503501	4	Steel Pitman Complete <b>(Includes Below)</b>
95	17	F92431040	1	Needle Bearing for Pitman
98	17	F92431000	1	Inner Race for Pitman
99	17	F19804704	1	Pitman Bushing
97	17	60265242	1	Pitman Stud Bolt
**	17	70010002	1	Nylon Nut for Stud Bolt
96	17	F19804702	2	Angle Iron Pitman Fasteners
91	15	F19503600	4	1-1/2" Throw Eccentric Assembly 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
		F91180112	1	ATF 112 Variable Shoe Regulator Belt (2-3/4" x 68")
177	15	F01307500	1	19" Flywheel 1-1/2" Bore

## TOP SHOE ASSEMBLY

ITEM NO.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
100	18	F03029800	1	<b>Top Shoe Assembly <u>Complete</u> with Rockers</b>
101	18	F03029701	1	Grain Deflector Door complete w/Door Ends & Metal Deflector
102	18	F03016400	2	Shoe Front Hanger with Top Block <b>(customer to cut to length)</b>
105	18	F03102600	2	Shoe Front Hanger Support Block
103	18	F03016400	2	Shoe Back Hanger with Top Block <b>(customer to cut to length)</b>
104	18	F03101902	2	Wood Cross Hanger Girt 65"
92	18	F03401700	1	Canvas Apron Assembly
106	18	F03151100	1	Right Shoe Side Wood Only
**		F03151100	1	Left Shoe Side Wood Only
107	18	F03123901	1	Wooden Pitman Board
**	18	F03323103	1	Pitman Board Metal Cover
108	20	F03318502	1	Bridge Plate 55-3/16" x 4-3/4"
109	18	F03300703	1	Shoe Bottom Metal 56-1/2" x 46-1/2"
**	18	F03320702	1	Shoe Bottom Metal 56-1/2" x 22"
110	18	F08002406	1	Top Air Discharge Valve Spout <b>(Right Hand Discharge)</b>
**	18	F08002409	1	Top Air Discharge Valve Spout <b>(Left Hand Discharge)</b>
111	18	F03321202	1	Front Grain Deflector Spout with 6" Rubber
130a	18	F08302401	1	Right Side Divided Sand Spout
**	18	F08302402	1	Left Side Divided Sand Spout
127		F03803601	1	Grain Stop Apron
44	30a	F01200203	4	Pinion Gear with 3/4" Bore
45	30a	F01200300	4	4" Long Rack
47	30a	F01608303	2	Tilting Rod 3/4" X 60-1/2"
49	30a	F01801700	4	Escutcheon Plate
52	30a	66276400	2	3/4" Hex Nut

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## TOP SHOE ASSEMBLY CONTINUED

ITEM NO.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
115	18	F03507400	1	Top Rocker Assembly Complete ( <b>Includes Below</b> )
145	30a	F03603600	1	Right Hand Top Wooden Rocker Arm Only 77" Long
**		F03603601	1	Left Hand Top Wooden Rocker Arm Only 77" Long
153	30a	F03800418	2	77" Metal Screenway Liner
156	30a	F03801101	2	77" Metal Rubber Holding Strip
159	30a	F91152006	13	2-1/2" Rubber Seal (In Feet)
144	30a	F03500800	2	Screen Hook Assembly
177	30a	F03505800	1	Rocker Top Pipe Girt #8
176	30a	F03800002	2	Rocker Bottom Cross Brace #8
**	18	F10511820	1	Removeable Blank 54" x 11"
**	18	F10515800	1	Removeable Blank 54" x 6"
175	30a	F90006015	2	Rocker Cups
		F90005100	1	Rocker Adjusting Girt Assembly, Center
195	30a	F90008271	2	Ball Tray Weldment
174	30a	F11302766	2	Ball Tray Support Rail 66"
		F90005473	1	Ball Tray Stop Left Hand
		F90005474	1	Ball Tray Stop Right Hand
194	30a	F80026102	160	White 1-3/8" Balls ( 80 Per Tray)
116	18	F03507401	1	Bottom Rocker Assembly Complete ( <b>Includes Below</b> )
145	30a	F03603602	1	Right Hand Bottom Wooden Rocker Arm Only 60" Long
**		F03603603	1	Left Hand Bottom Wooden Rocker Arm Only 60" Long
153	30a	F03800413	2	60" Metal Screenway Liner
156	30a	F03801100	2	60" Metal Rubber Holding Strip
159	30a	F91152006	11	2-1/2" Rubber Seal (In Feet)
124	18	F03806000	2	Screen Stop
144	30a	F03500800	2	Screen Hook Assembly
177	30a	F03505800	1	Rocker Top Pipe Girt #8
176	30a	F03800002	2	Rocker Bottom Cross Brace #8
175	30a	F90006015	2	Rocker Cups
		F90005100	1	Rocker Adjusting Girt Assembly, Center
195	30a	F90008271	2	Ball Tray Weldment
174	30a	F11302755	2	Ball Tray Support Rail 55"
		F90005473	1	Ball Tray Stop Left Hand
		F90005474	1	Ball Tray Stop Right Hand



194 30a F80026102 160 White 1-3/8" Balls ( 80 Per Tray)

## BOTTOM SHOE ASSEMBLY

ITEM NO.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
424	33	F03029900	1	Bottom Shoe Complete with Rockers <b>(Right Hand Discharge)</b>
**			1	Bottom Shoe Complete with Rockers <b>(Left Hand Discharge)</b>
425	33	F03151001	1	Right Shoe Side
**		F03151002	1	Left Shoe Side
422	33	F03123901	1	Wooden Pitman Board
423	33	F03323103	1	Pitman Board Metal Cover
		F11303842	2	Pitman Support Angle
440	33	F03320412	1	Bottom Shoe Metal 56-1/2" x 42-3/4"
**	33	F03320411	1	Bottom Shoe Metal 56-1/2" x 36"
134	19	ASK	1	Front Grain Deflector Door Assembly Three Part Numbers Needed
132	19	F03016510	2	Shoe Front Hanger with Block <b>(Customer to Cut To Length )</b>
137	19	F03102601	2	Shoe Front Hanger Support Block
133	19	F03016520	3	Shoe Back Hanger with Block <b>(Customer To Cut To Length )</b>
136	19	F03101902	1	Cross Girt Wood Hanger 65"
433	33	F03101720	2	Wood Sand Spout Track
432	33	F03301002	2	Metal Sand Spout Guide
431	33	F08002601	1	Sand Spout <b>(Left Hand Discharge)</b>
**		F08002604	1	Sand Spout <b>(Right Hand Discharge)</b>
441	33	F08308801	1	Straw Spout <b>(Left Hand Discharge)</b>
**		F08308810	1	Straw Spout <b>(Right Hand Discharge)</b>
437	33	F03507402	1	Top Rocker Assembly Complete <b>(Includes Below)</b>
438	33	F03603604	1	Right Hand Top Wooden Rocker Arm Only 77" Long
**		F03603605	1	Left Hand Top Wooden Rocker Arm Only 77" Long
153	30a	F03800418	2	77" Metal Screenway Liner
156	30a	F03801101	2	77" Metal Rubber Holding Strip
159	30a	F91152006	13	2-1/2" Rubber Seal (In Feet)
155		F03806000	2	Screen Stop
144	30a	F03500800	2	Screen Hook Assembly
158		F03803304	1	Top Rocker Front Blank 54" x 16"
141	30a	F03310009	1	Grain Stop Assembly with Rubber
175	30a	F90006015	2	Rocker Cup
		F90005300	1	Rocker Adjusting Girt Assembly Offset
195	30a	F90008271	2	Ball Tray Weldment
174	30a	F11302763	2	Ball Tray Support Rail 63"
		F90005473	1	Ball Tray Stop Left Hand
		F90005474	1	Ball Tray Stop Right Hand

194	30a	F80026102	160	White 1-3/8" Balls ( 80 Per Tray)
429	33	F03502776	1	Top Rocker Telescoping Apron Assembly

### **BOTTOM SHOE ASSEMBLY CONTINUED**

<b>ITEM NO.</b>	<b>PAGE NO.</b>	<b>PART NUMBER</b>	<b>QTY.</b>	<b>DESCRIPTION</b>
146		F03507403	1	Bottom Rocker Assembly Complete, 76" <b>(Parts Listed Below)</b>
145	33	F03603606	1	Right Hand Bottom Wooden Rocker Arm Only (76")
**		F03603607	1	Left Hand Bottom Wooden Rocker Arm Only (76")
153	30a	F03800419	2	76-1/2" Metal Screenway Liner
156	30a	F03801101	2	76" Metal Rubber Holding Strip
159	30a	F91152006	2	2-1/2" Rubber Seal (In Feet)
		F10507110	1	Screen Blank 54" x 10"
		F10515900	1	Screen Blank 54" x 6"
155		F03806000	2	Screen Stop
175	30a	F90006015	2	Rocker Cup
		F90005090	1	Rocker Adjusting Girt Assembly
195	30a	F90008271	2	Ball Tray Weldment
174	30a	F11302773	2	Ball Tray Support Rail 73"
		F90005473	1	Ball Tray Stop Left Hand
		F90005474	1	Ball Tray Stop Right Hand
194	30a	F80026102	160	White 1-3/8" Balls ( 80 Per Tray)
430a	33	F03502779	1	Bottom Rocker Telescoping Apron Assembly
44	30a	F01200203	4	Pinion Gear with 3/4" Bore
45	30a	F01200300	4	4" Long Rack
49	30a	F01801700	4	Escutcheon Plate
47	30a	F01608303	2	Tilting Rod 3/4" X 60-1/2"
52	30a	66276400	2	3/4" Hex Nut

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## MISCELLANEOUS PARTS

ITEM NO.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
182	18	F08316600	2	Hinged Side Spout Diverter
183	23	F08502201	1	Inside Center Discharge Catchall Spout with 8" Lip
184	23	F08502301	1	Outside Center Discharge Catchall Spout with 12" Lip
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" CI Pillow Blocks
180	24	F01400700	1	Idler Sheave with Bushing
185	24	F01805010	1	Belt Tightner Axle with Hardware

## PULLEYS & BELTS

PART NUMBER	QTY.	DESCRIPTION
Not Available	1	1B 3.0 Countershaft Pulley 1-1/2 Bore" (Drives Hopper)
F91162128	1	B-128 Belt (From Countershaft to Hopper)
F91912080	1	1B8.0 SDS Valve Shaft Sheave (Drives Back Auger)
44010510	1	SDS Bushing for Valve Shaft Sheave
43110079	1	1B3.6 Back Auger Sheave
44010313	1	SH Bushing for above
F91162136	1	B-136 Belt (From Top Air Discharge to Bottom Auger Discharge)
F91912184	1	1B18.4 SK Valve Shaft Sheave ( Is Driven by Eccentric Shaft)
44010910	1	SK Bushing for Valve Shaft Sheave
F91162105	1	B-105 Belt (From Eccentric Shaft to Top Air Discharge Valve)
F91922154	1	2B15.4 SK Countershaft Sheave (Is Driven By Top Fan Shaft)
44010918	1	SK Bushing for above
F91922056	1	2B5.6 SDS Top Fan Shaft Pulley (Drives Countershaft)
44010525	1	Bushing SDS 1-15/16" for above
F91162120	2	B-120 Belt (From Countershaft to Top Fan)