

**SERVICE MANUAL**  
**AND**  
**PARTS CATALOG**  
**FOR YOUR**  
**SUPER X29D**



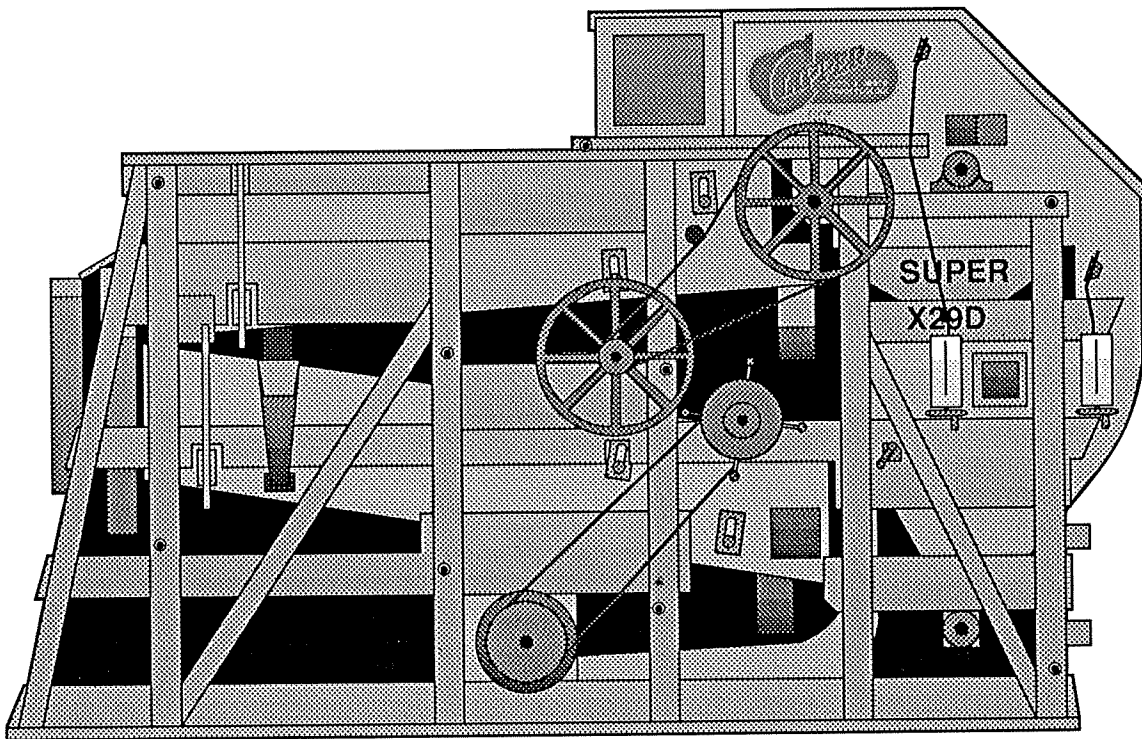
*Grain, Seed and Bean Cleaners*

1440 SOUTH ADAMS STREET BLUFFTON, INDIANA 46714 (800) 248-8318  
Updated April 30, 2021

[www.atferrell.com](http://www.atferrell.com)



## Super X29D



## Operating Instructions

Clipper a Division of  
A T Ferrell Company  
1440 South Adams Street  
Bluffton, Indiana USA 46714

1-260/824-3400 Phone  
1-260/824-5463 Fax  
1-800/248-8318  
clipper@atferrell.com  
www.atferrell.com

# SUPER X29D WITH BRUSHES

## Top Fan Section

ITEM NO.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
3		F01101802	1	3/4" Back Damper Flange Bearing
5	3	F01600200	1	1-15/16" X 63" Top Fanshaft
10	3	F92401150	2	1-15/16" Bore Pillow Block Bearing
11	2	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>
**	1	F04001600	1	Hand Crank Handle with wood Knob
4	1	F05313000	2	Adjusting Handle Shaft Bearing
16	2	F05006710	1	Back Air Damper with End Castings
17	1	F05003704	1	Front Air Damper with End Castings
	1	F01013500	2	Valve Control Assembly Complete <b>See attached picture</b>
18	3	F05502300	2	High Static Fan Wheel Assembly with 6" Wide Blade
215	26	F05501201	1	Right Side Top Fan Housing Assembly ( Includes 2 Sides & Metal)
215	26	F05501204	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 right hand or left hand machines.**

## TOP AIR DISCHARGE ASSEMBLY

ITEM NO.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
21	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")
25	4	40000038	4	1" Bore Flangette Stampings
186	4	F92460200	2	1" Bearing Insert
20	4	F01616100	1	Top Valve Shaft 1" X 58" <b>(ALL OLDER MACHINES)</b> or
20	4	F01630404	1	Top Valve Shaft 1" x 38" <b>(NEWER MACHINES MID 80'S ON)</b>
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	F07000351	1	Complete Auger Assembly / Left Hand Discharge <b>(Parts Below)</b>
28	6	F12900319	1	Shaft with Flighting 64-1/2" for Left Hand Discharge Machine
30	6	F98600005	3	Cleanout Door Latch
37	6	F92460301	2	1-3/16" Bearing Insert
36	6	40000005	4	Bearing Flangette Stamping (For Above Bearing)
31	6	F07000321	1	Complete Auger Assembly / Right Hand Discharge <b>(Parts Below)</b>
28	6	F12900219	1	Shaft with Flighting 64-1/2" for Right Hand Discharge Machine
30	6	F98600005	3	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.  
Discharge Spouts are Determined by Standing at the Front and Facing the Machine.  
Right Hand Discharge Spouts Would Discharge Towards Your Right Hand.**



## BRUSH ADJUSTING SYSTEM

ITEM NO.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
38	7	F01004901	4	Brush Adjust / Idler Side (Left Hand Side)
**	7	F01004902	4	Brush Adjust / Idler Side (Right Hand Side)(Includes 1 Each Below)
43	7	F01106300	1	Idler Arm Support
43A	7	F82080060	1	Shoulder Bolt for Brush Adjusters (Both Sides)
39		<b>Not Available</b>	4	Brush Adjust/ Control Side (Left Hand Side)
**	7	F01003002	4	Brush Adjust/ Control Side (Right Hand Side)(Includes 1 Each Below)
42	7	F01105400	1	Adjustments Handle with Spring, About 12" Long
42A	7	F82080060	1	Shoulder Bolt for Brush Adjusters (Both Sides)
		F01000200	16	Rope Sheave Assembly Complete <b>See attached picture</b>
		F97700063	70 f	Heavy duty Wirelon cable ( <b>in feet</b> )
		F01104300	8	One Hole Plate with 1-5/8" Bore
		F11807001	2	Straight Jack Plate
		F11807002	1	Right Hand Beveled Jack Plate
		F11807003	1	Left Hand Beveled Jack Plate
		F09500200	4	Brush Carrier Assembly 18" with Rollers ( <b>Brushes not included</b> ) <b>See attached picture</b>

## BOTTOM FAN ASSEMBLY

ITEM NO.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
		F01615900	1	Fan Shaft 1-1/2" X 67" (Includes Keys) See attached picture 11
		F06002679	1	Bottom Fan Assembly Complete See attached picture 12
All	25	F06002001	1	Bottom Fan Drum Assembly Complete ( Includes Below)
201	25	F06302701	1	Bottom Drum Iron 45-5/8" x 88"
202	25	F06302730	1	Drum Iron 45-5/8" x 26-3/4"
203	25	F06302106	1	Discharge Chute 4"
204	25	F06302740	1	Breast Iron 45-5/8" x 24-1/2"
205	25	F06302720	1	Drum Iron 45-5/8" x 22-3/8"

## COUNTERSHAFT ASSEMBLY

ITEM NO.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
		F01615800	1	Countershaft 1-1/2" X 73-3/4" ( Includes Keys) See attached picture 13 & 14
<b><u>NOTE: On very early Super X298D's (1955-1958?) w/ 9" discs on the Countershaft. (On the Eccentric Drive Side)</u></b>				
		F19700900	1	9" Diameter 1-1/2" Bore Spring End Disc
		F19701100	1	9" Diameter 1-1/2" Bore Stationary Disc with Set Screws

## ECCENTRIC SHAFT ASSEMBLY

ITEM NO.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
		F01617300	1	Eccentric Shaft 1-1/2" X 66" <b>(Includes Keys)</b> <b>See attached picture 15 &amp; 16</b>
		F19503501	4	Steel Pitman Complete <b>(Includes Below)</b> <b>See attached picture 15A</b>
		F19503600	4	1-1/2" Throw Eccentric Assembly Complete <b>(Includes Below)</b> <b>See attached picture 15B</b>
				<b><u>NOTE: On very early Super X298D's (1955-1958?) with 9" discs on the Eccentric Shaft Assembly</u></b>
		F19500700	1	1-1/2" Adjusting Nut
		F19701000	1	9" Diameter 1-1/2" Bore Thrust End Disc
		F19701100	1	9" Diameter 1-1/2" Bore Stationary Disc with Set Screws
		F91189841	1	9841 Variable Speed Belt 1-1/2" x 56"

## TOP SHOE ASSEMBLY

ITEM NO.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
		F03013303	1	Top Shoe Assembly <u>Complete</u> with Rockers <b>See attached drawing</b>

PART NUMBER	QTY.	DESCRIPTION
F03502100	1	Top Rocker Assembly Complete <b>See attached drawing</b>
F03502200	1	Bottom Rocker Assembly Complete <b>See attached drawing</b>

**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 SHOE ASSEMBLY

ITEM NO.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
		F03013206	1	Bottom Shoe Complete with Rockers <b>(Right Hand Discharge)</b>
**			1	Bottom Shoe Complete with Rockers <b>(Left Hand Discharge)</b> <b>See attached drawings</b>
		F03501900	1	Top Rocker Assembly Complete <b>See attached drawing</b>
		F03502000	1	Bottom Rocker Assembly Complete, 76" Arms <b>See attached Drawings</b>
<hr/>				
<b><u>NOTE: On some early Super X29D's (1955-1965?) Bottom Rocker was only 60" Long</u></b>				
		F03503500	1	Right Hand Bottom Rocker Arm Assembly (60")
		F03503501	1	Left Hand Bottom Rocker Arm Assembly (60")
		F03601501	1	Right Hand Bottom Wooden Rocker Arm Only (60")
		F03601503	1	Left Hand Bottom Wooden Rocker Arm Only (60")
		F03800413	2	60" Metal Screenway Liner
		F03801100	2	60" Metal Rubber Holding Strip
		F03900100	2	60" Rubber Seal 2-1/2" Wide
		F03500800	2	Screen Hook Assembly
132	19	F03016510	2	Shoe Front Hanger with Block <b>(Customer Cut to Length)</b>
137	19	F03102601	2	Shoe Front Hanger Support Block
133	19	F03016520	3	Shoe Back Hanger with Block <b>(Customer Cut to Length)</b>
136	19	F03101901	1	Cross Girt Wood Hanger 53" Long
431	33	F08002600	1	Sand Spout <b>(Left Hand Discharge)</b>
**		F08002603	1	Sand Spout <b>(Right Hand Discharge)</b>
441	33	F08308820	1	Straw Spout <b>(Left Hand Discharge)</b>
**		F08308840	1	Straw Spout <b>(Right Hand Discharge)</b>

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## MISCELLANEOUS PARTS

ITEM NO.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
182	18	F08316600	2	Hinged Side Spout Diverter
183	23	F08502200	1	Inside Center Discharge Catchall Spout with Hardware (8" Lip)
184	23	F08502300	1	Outside Center Discharge Catchall Spout with Hardware (12" Lip)
181	23	F01800100	2	Right Side 3 Position Catchall Holder
**	23	F01800200	2	Left Side 3 Position Catchall Holder
		F01002803	1	Belt Idler Assembly Complete 5-1/2" <b>See attached picture</b>

## PULLEYS & BELTS

ITEM NO.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
174		Not Available	1	1B 3.0 Countershaft Pulley 1-1/2 Bore" (Drives Hopper)
167		F91162128	1	B-128 Belt (From Countershaft to Hopper)
		F01303510	1	3-4 Combination Pulley 1-1/2" Bore
167		F91162128	1	B-128 Drive (From Eccentric Shaft to Brush Drive)
169		F91912080	1	1B8.0 SDS Valve Shaft Sheave (Drives Back Auger)
**		F44010510	1	SDS Bushing for Valve Shaft Sheave
175		43110079	1	1B3.6 Back Auger Sheave
**		44010313	1	SH Bushing for above
168		F91162136	1	B-136 Belt (From Top Air Discharge to Bottom Auger Discharge)
170		F91912184	1	1B18.4 SK Valve Shaft Sheave ( Is Driven by Eccentric Shaft)
**		44010910	1	SK Bushing for Valve Shaft Sheave
165		F91162105	1	B-105 Belt (From Eccentric Shaft to Top Air Discharge Valve)

## PULLEYS & BELTS

ITEM NO.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
172		F91922154	1	2B15.4 SK Countershaft Sheave (Is Driven By Top Fan Shaft)
**		44010918	1	SK Bushing for above
173		F91922056	1	2B5.6 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)

### The Following Are the Ball Tray Kit Parts That were Installed on the Super X29D Cleaners in the Past

Old Style Ball Trays with 1" Square Turkey Wire That Come out With the Screens. ( **Trays do not Hook to the Screens**)

F90005062	4	Ball Tray Weldment for 1 Piece Screens
F80026101	432	Black 1-3/8" Balls ( 144 Per Tray)
<b>or</b>		
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 ( 72 Per Tray)
F11301707	2	Ball Tray Support Rail 24"
F11301708	8	Ball Tray Support Rail 31"
F11301709	2	Ball Tray Support Rail 41"
F11301710	4	Ball Tray Support Rail 23"
F90005090	1	Rocker Adjusting Girt Assembly
F90005100	1	Rocker Adjusting Girt Assembly Center
F90005300	2	Rocker Adjusting Girt Assembly Offset

**New Style Permanent** Ball Trays with That Stayed in the Machine When the Screens Were Removed. Started to be Used in 1994

F92053517		Complete Reto Fit Ball Tray Kit (Includes Parts Below)
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

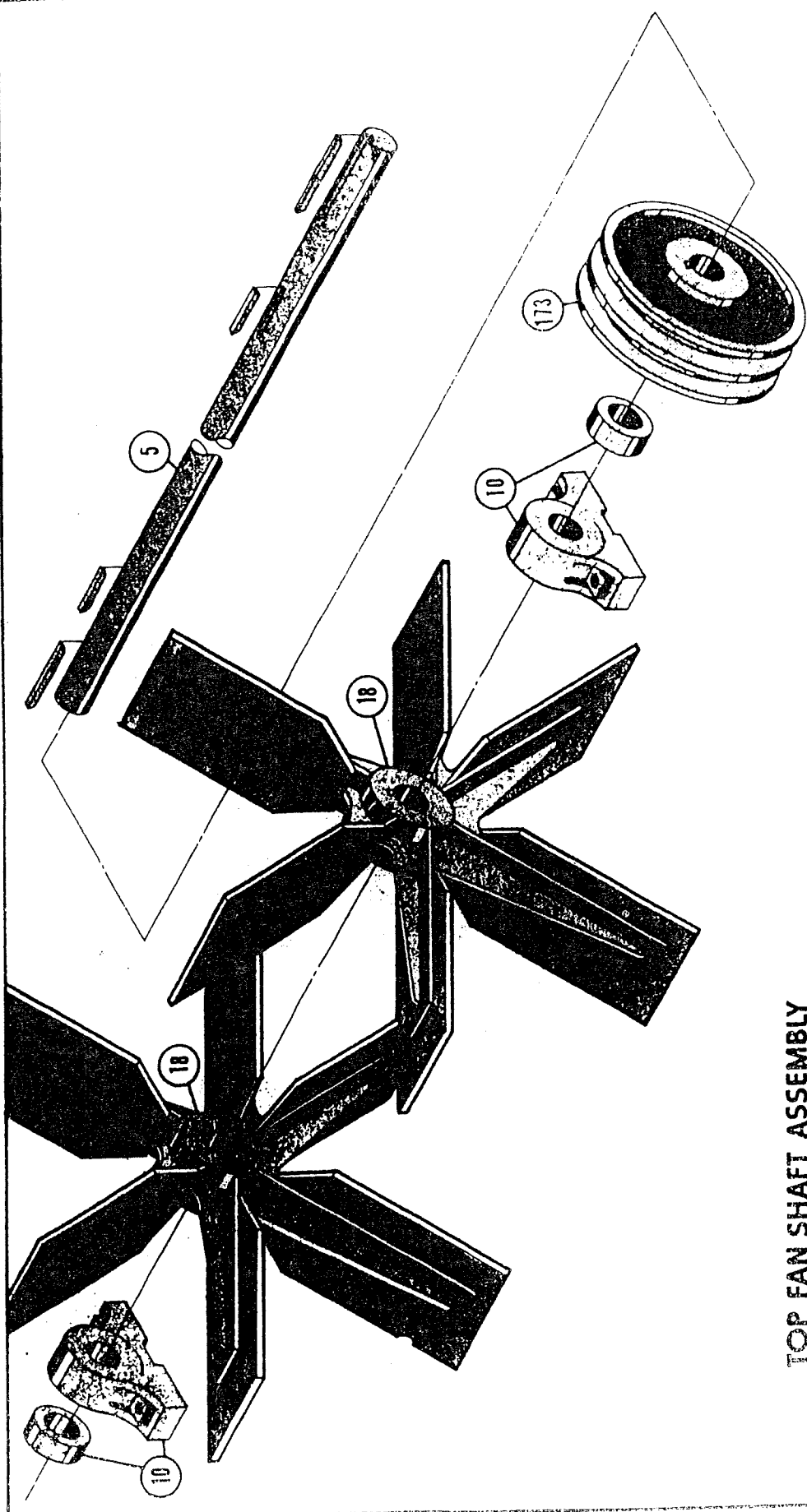
## Screws And Other Hardware







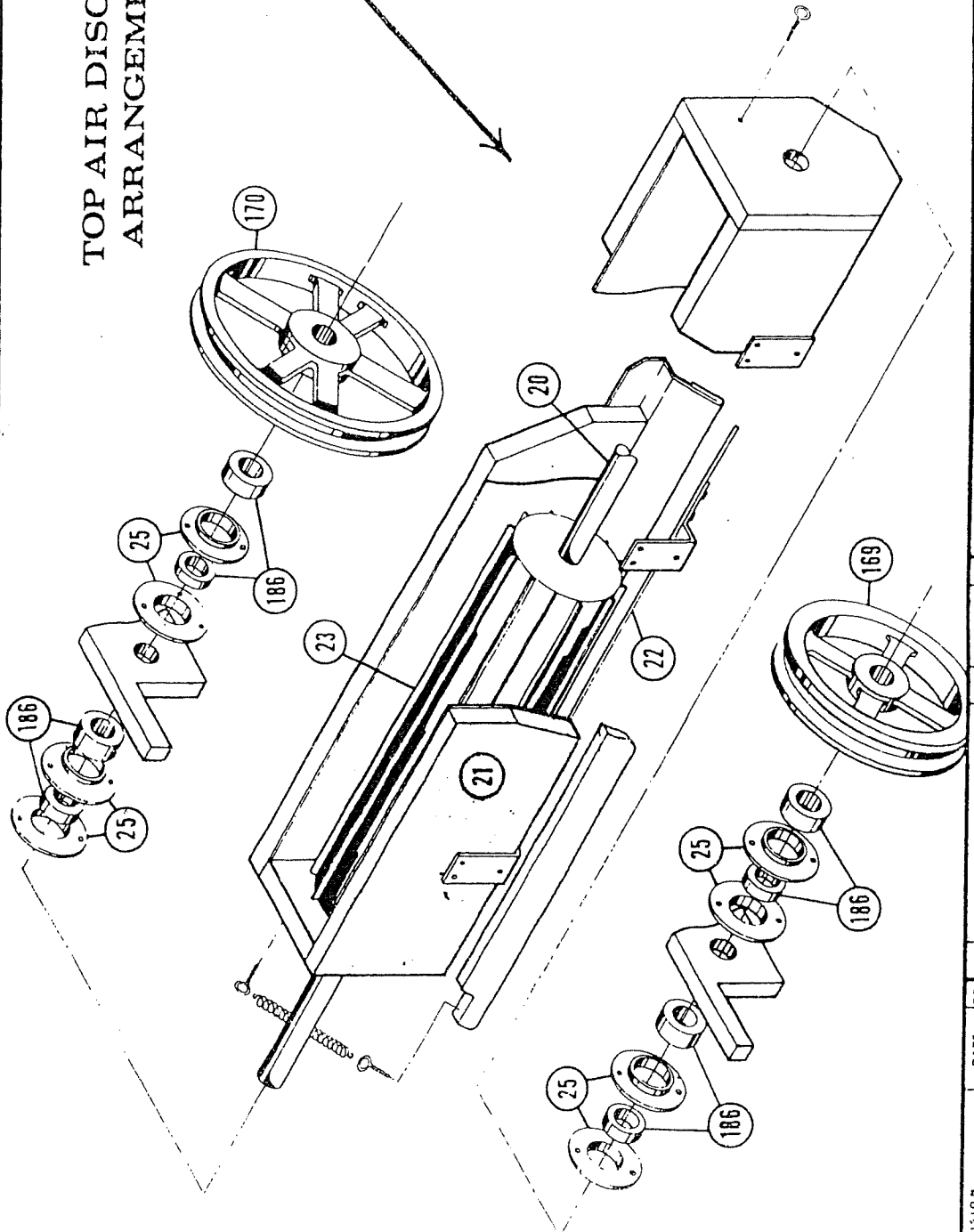
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### TOP FAN SHAFT ASSEMBLY

BYM		REVISION	DATE	DR	MACH NO.	
					FERRELL - ROSS	
					SAGINAW, MICH.	
					DWG NO	
					top fan shaf assembly	
					DWG. BY	DATE
					JDS	12-28-77
					SCALE	

TOP AIR DISCHARGE  
ARRANGEMENT



FERRELL - ROSS  
SAGINAW, MICH.  
MACH. NO.  
DWG. NO.

- top air discharge arrangement

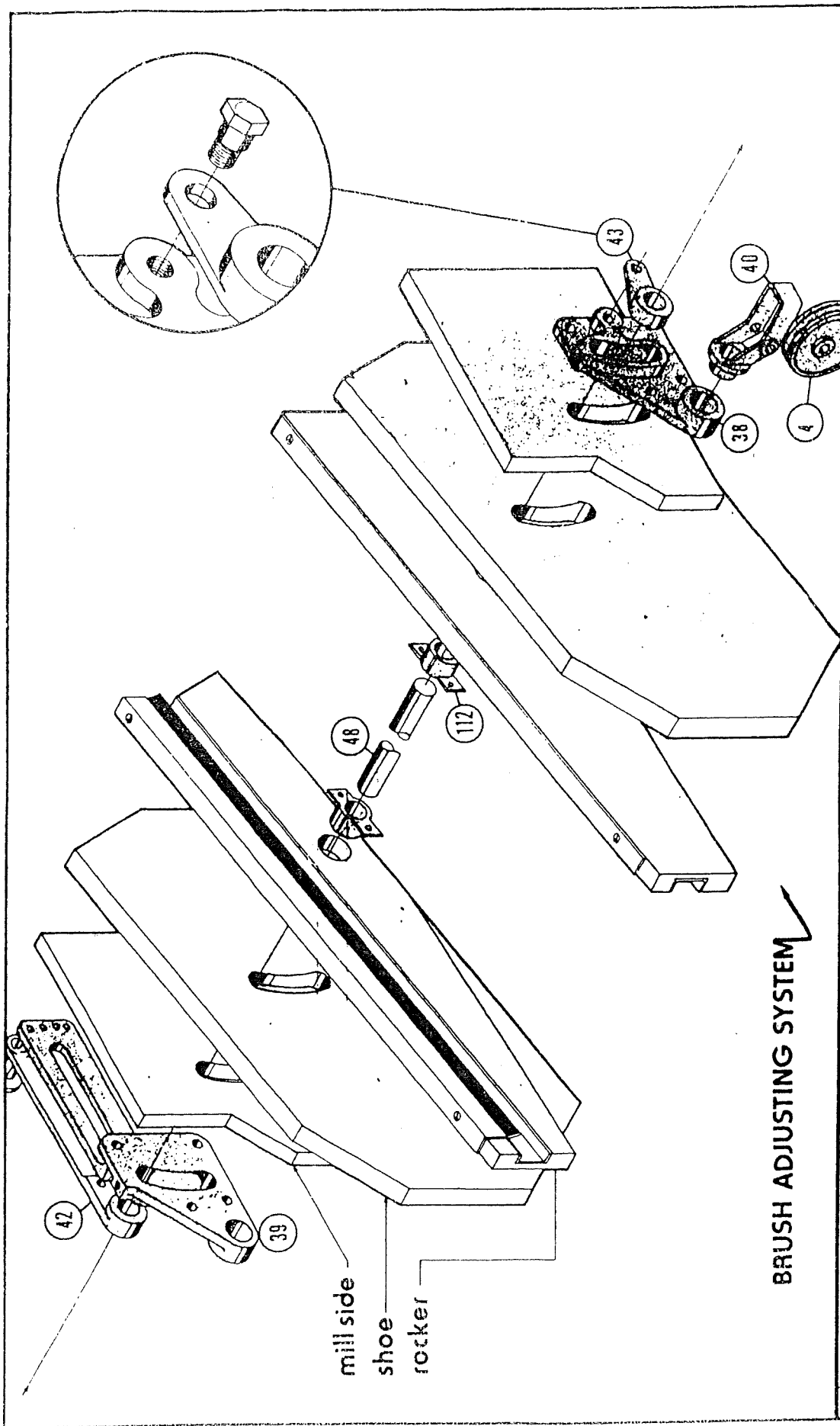
DATE 12-30-77  
DWN. BY J.D.S. SCALE

REV.	DATE	BY	DESCRIPTION





RE OF PRINTING SUPPLY CO. DETROIT, MICH.

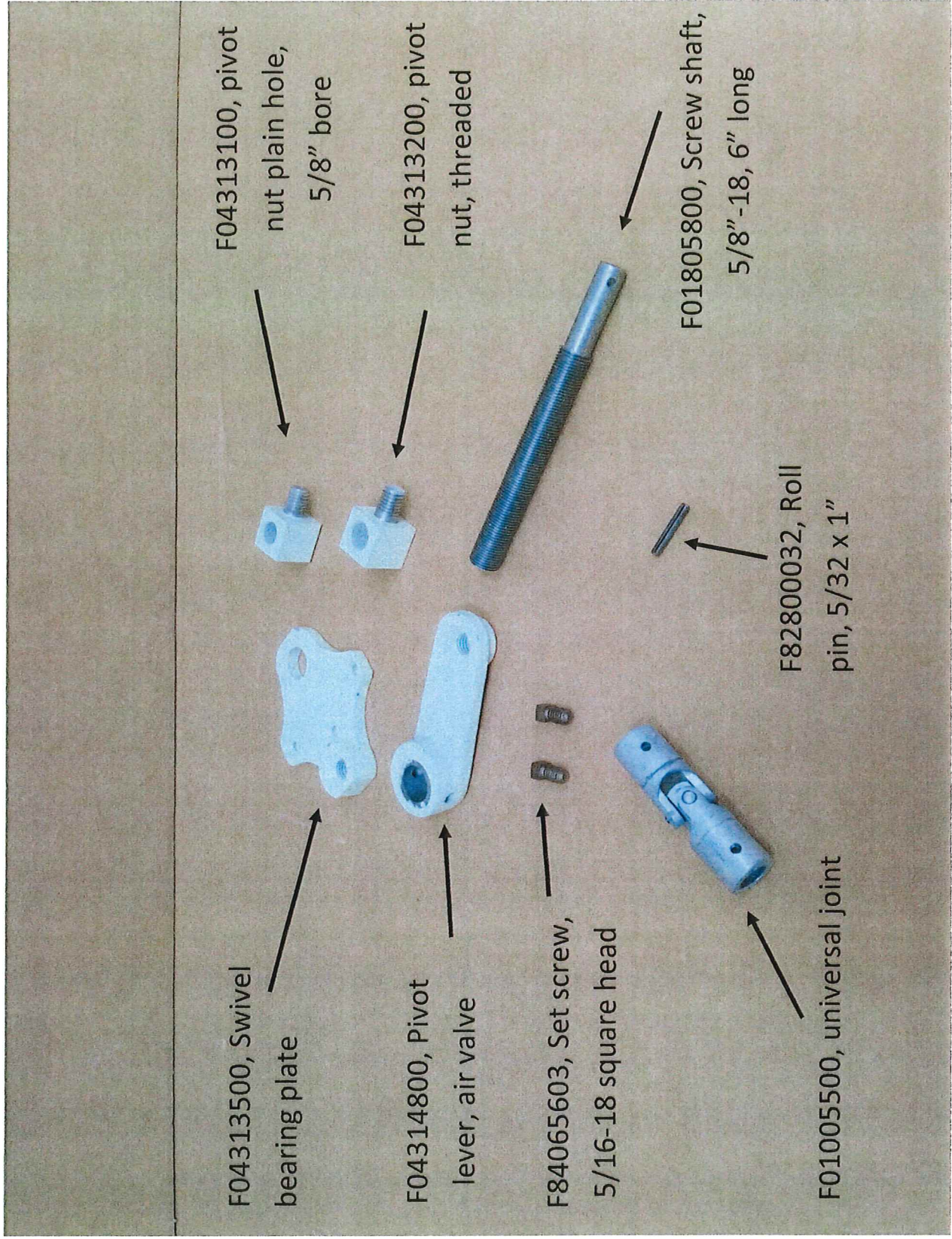


mill side  
 shoe  
 rocker

BRUSH ADJUSTING SYSTEM

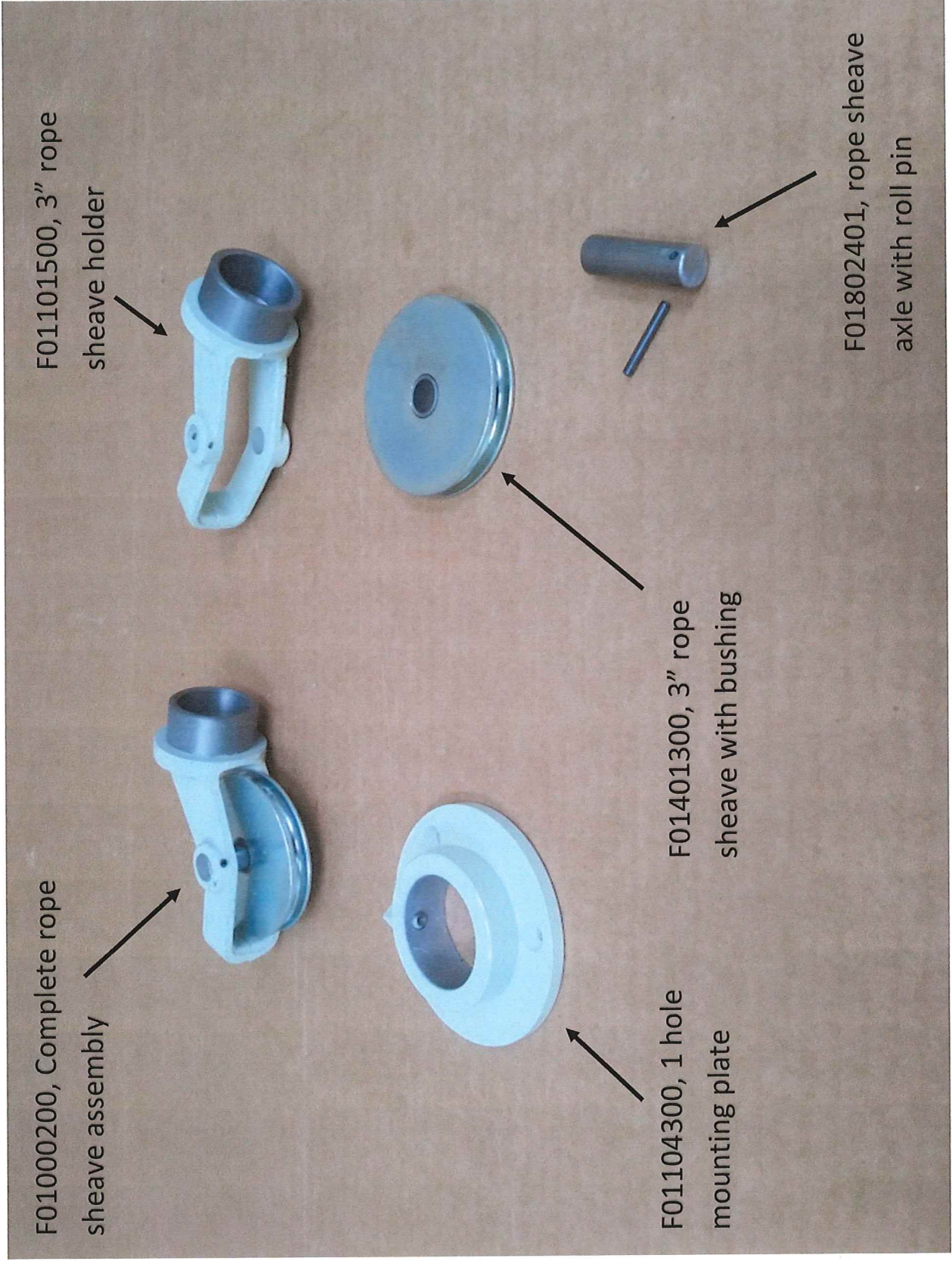
SYN		REVISION		DATE	DR.	FERRELL - ROSS		MACH NO.
						SAGINAW, MICH.		
						brush adjusting system		DWG NO.
						DATE		
						SCALE		
						DRN. BY		





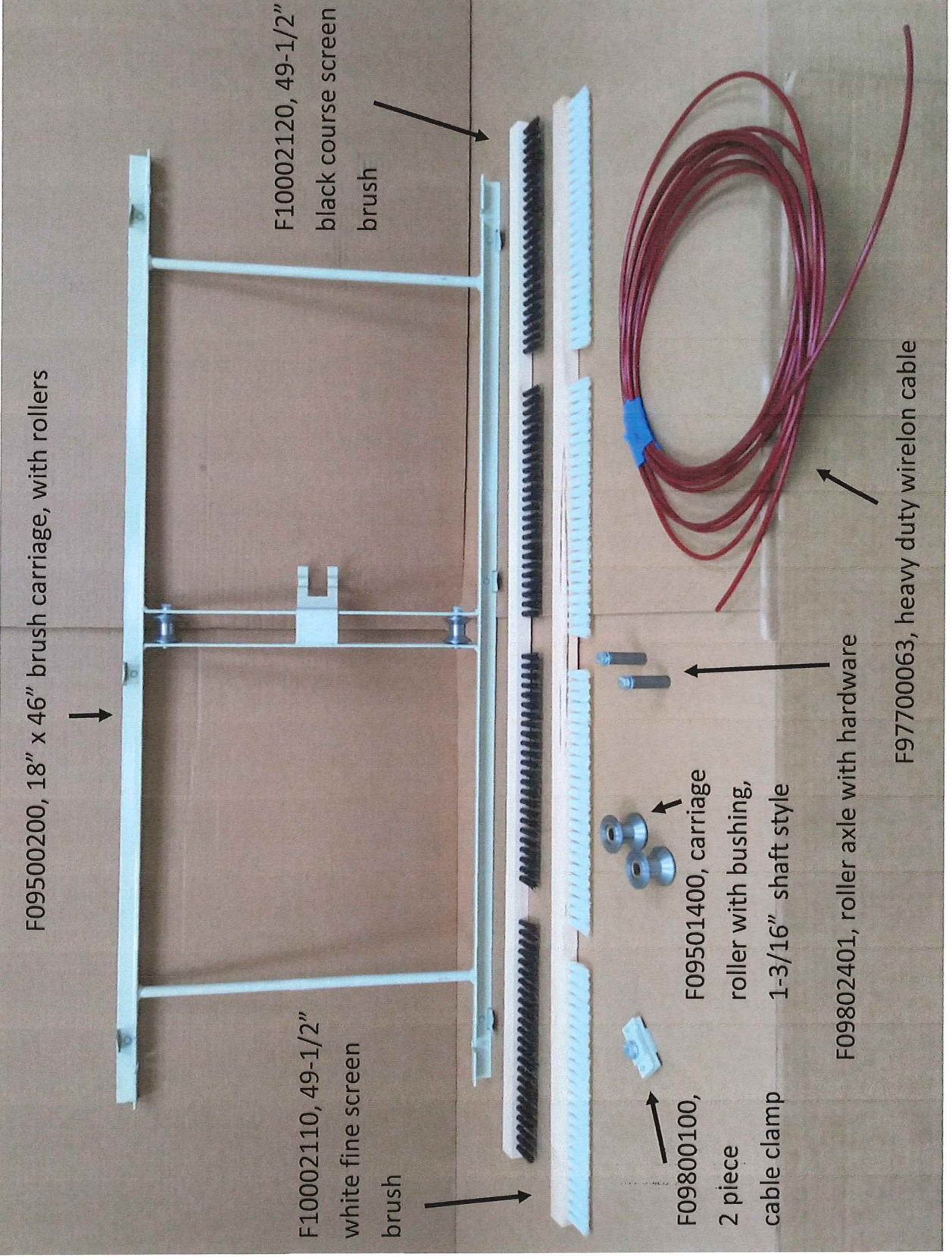
# F01013500, Gate valve adjusting assembly, ALL





## 3" Rope sheave assembly





F09500200, 18" x 46" brush carriage, with rollers

F10002120, 49-1/2" black course screen brush

F10002110, 49-1/2" white fine screen brush

F09800100, 2 piece cable clamp

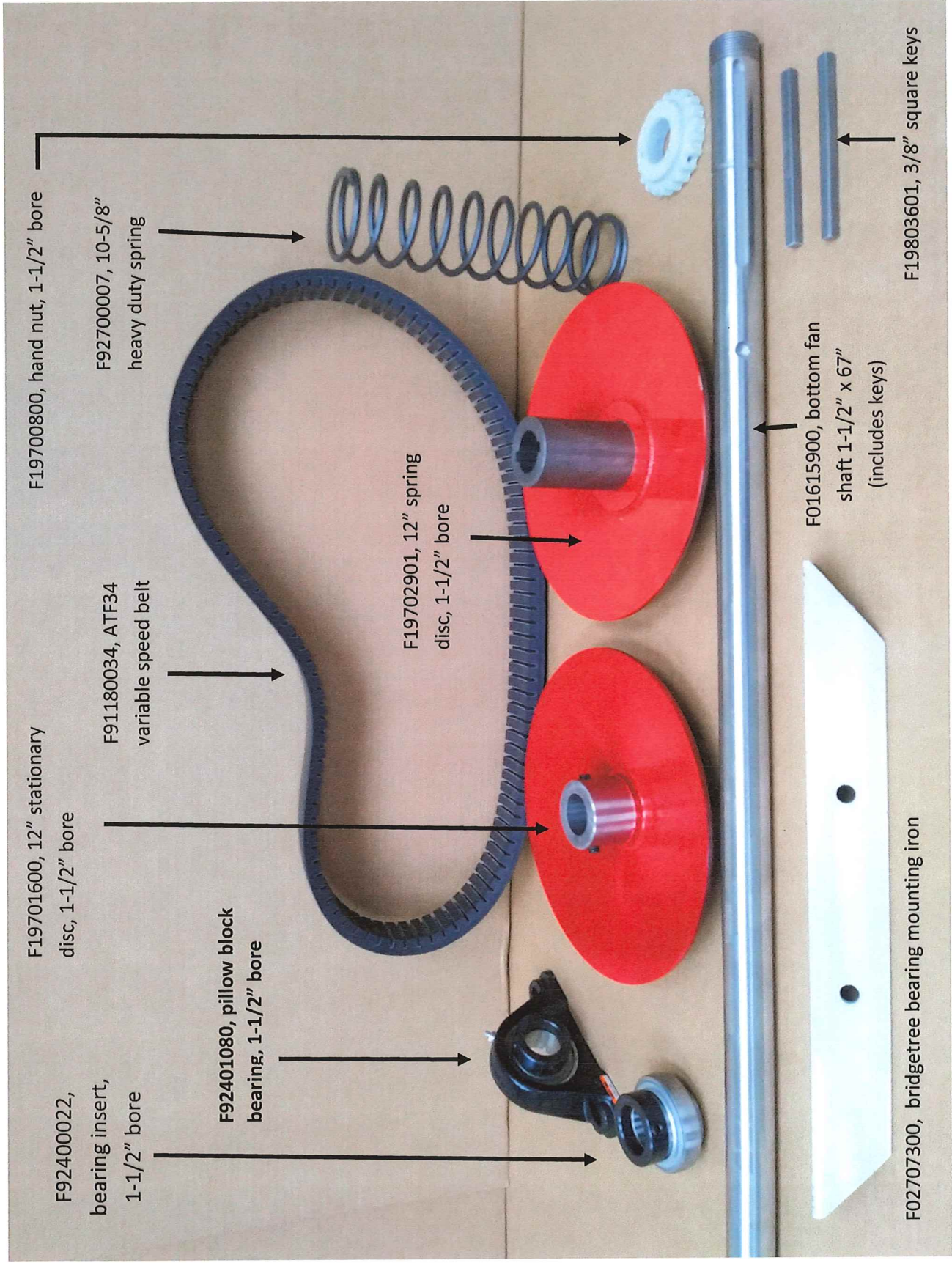
F09501400, carriage roller with bushing, 1-3/16" shaft style

F09802401, roller axle with hardware

F97700063, heavy duty wirelon cable

# Brush carriage, with accessories, page 10



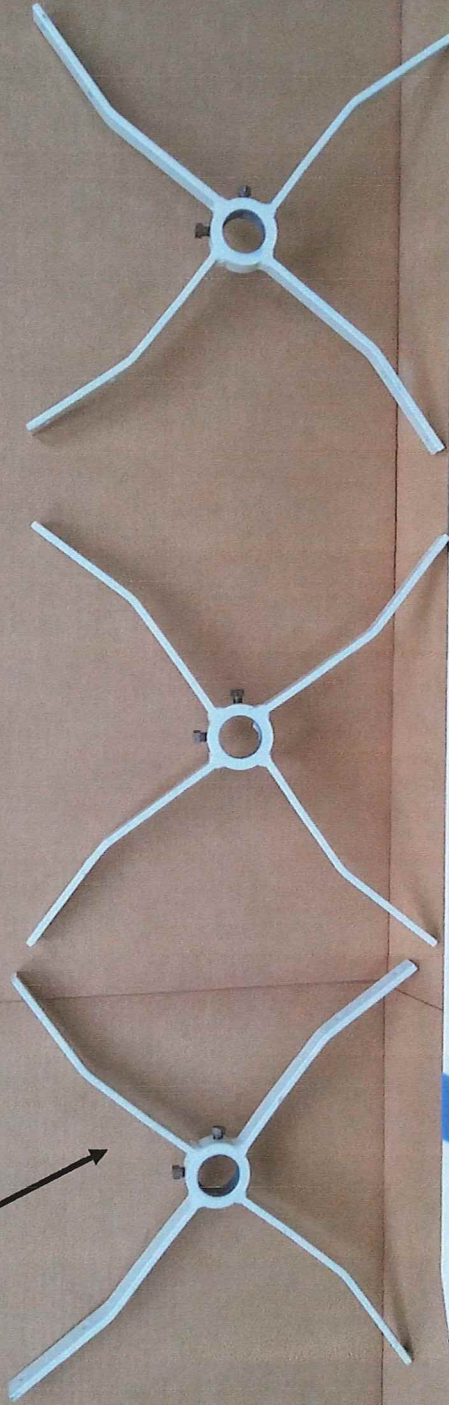


# Bottom fan shaft, page 11

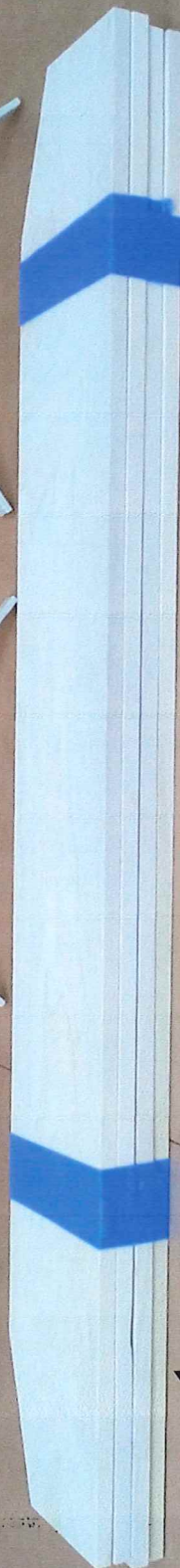


F06002679, complete bottom fan assembly

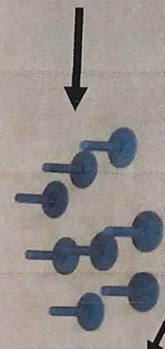
3 pieces, F06001000, bottom fan spider, 1-1/2" bore



4 pieces, F01701100, bottom fan blade, 43-5/8" long



24 pieces, F82021407, elevator bolt, 1/4-20 x 1-1/4"



24 pieces, 66443300, 1/4" lock washer

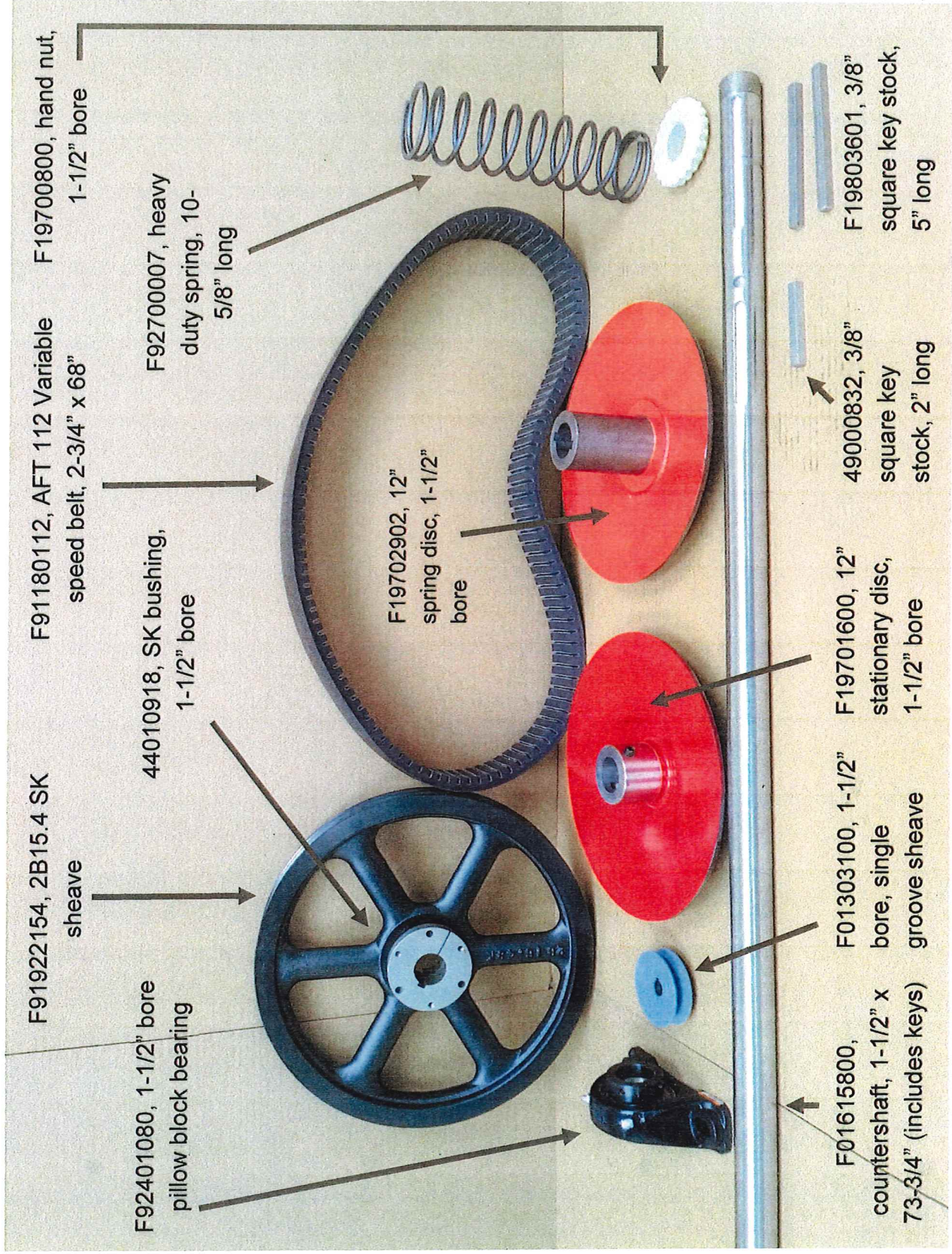


24 pieces, 66083300, 1/4-20 hex



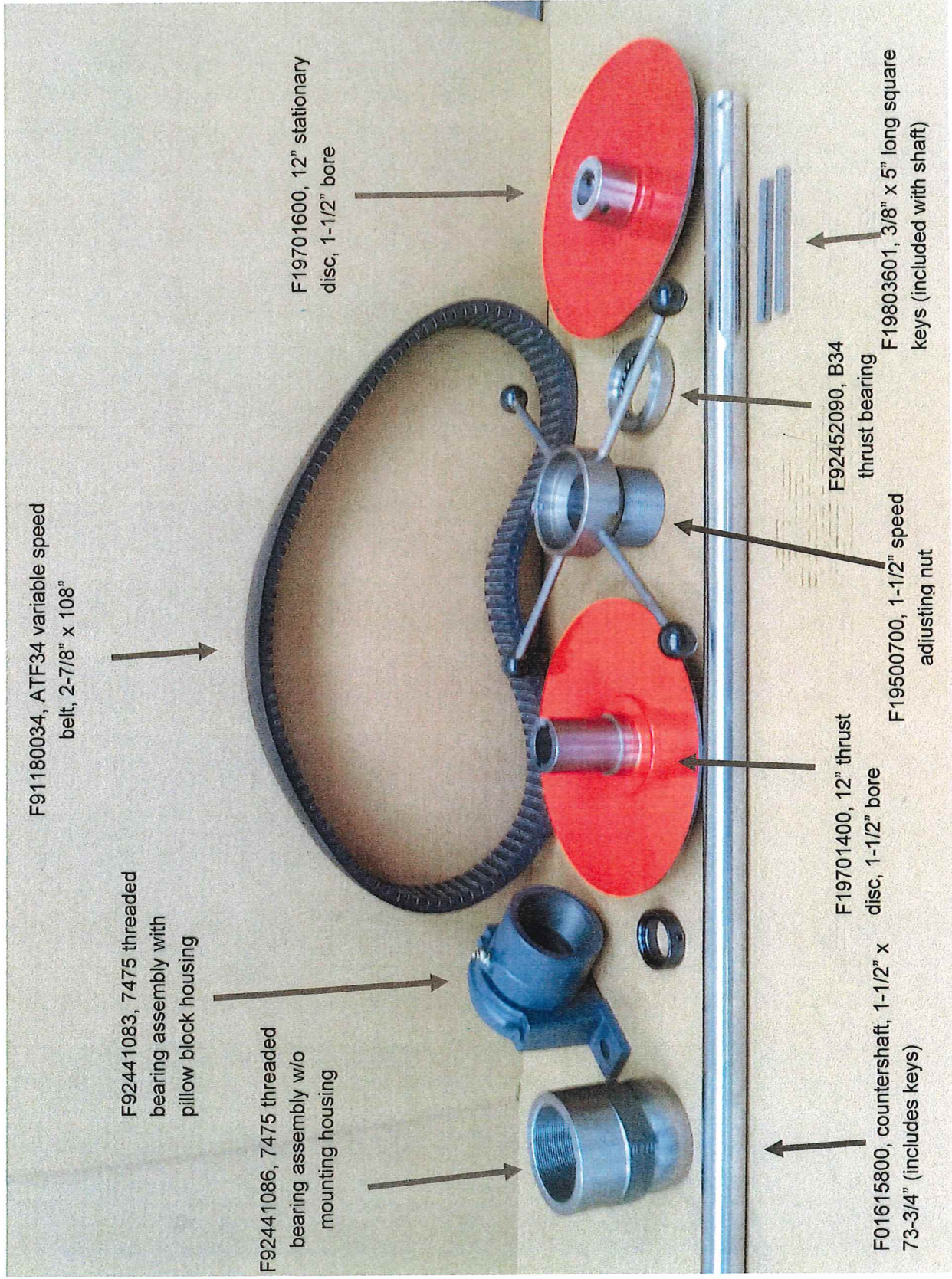
bottom fan assembly, 1-1/2" bore, 9 wide, page 12





Countershaft assembly, page 13





F91180034, ATF34 variable speed belt, 2-7/8" x 108"

F92441083, 7475 threaded bearing assembly with pillow block housing

F92441086, 7475 threaded bearing assembly w/o mounting housing

F19701600, 12" stationary disc, 1-1/2" bore

F19701400, 12" thrust disc, 1-1/2" bore

F01615800, countershaft, 1-1/2" x 73-3/4" (includes keys)

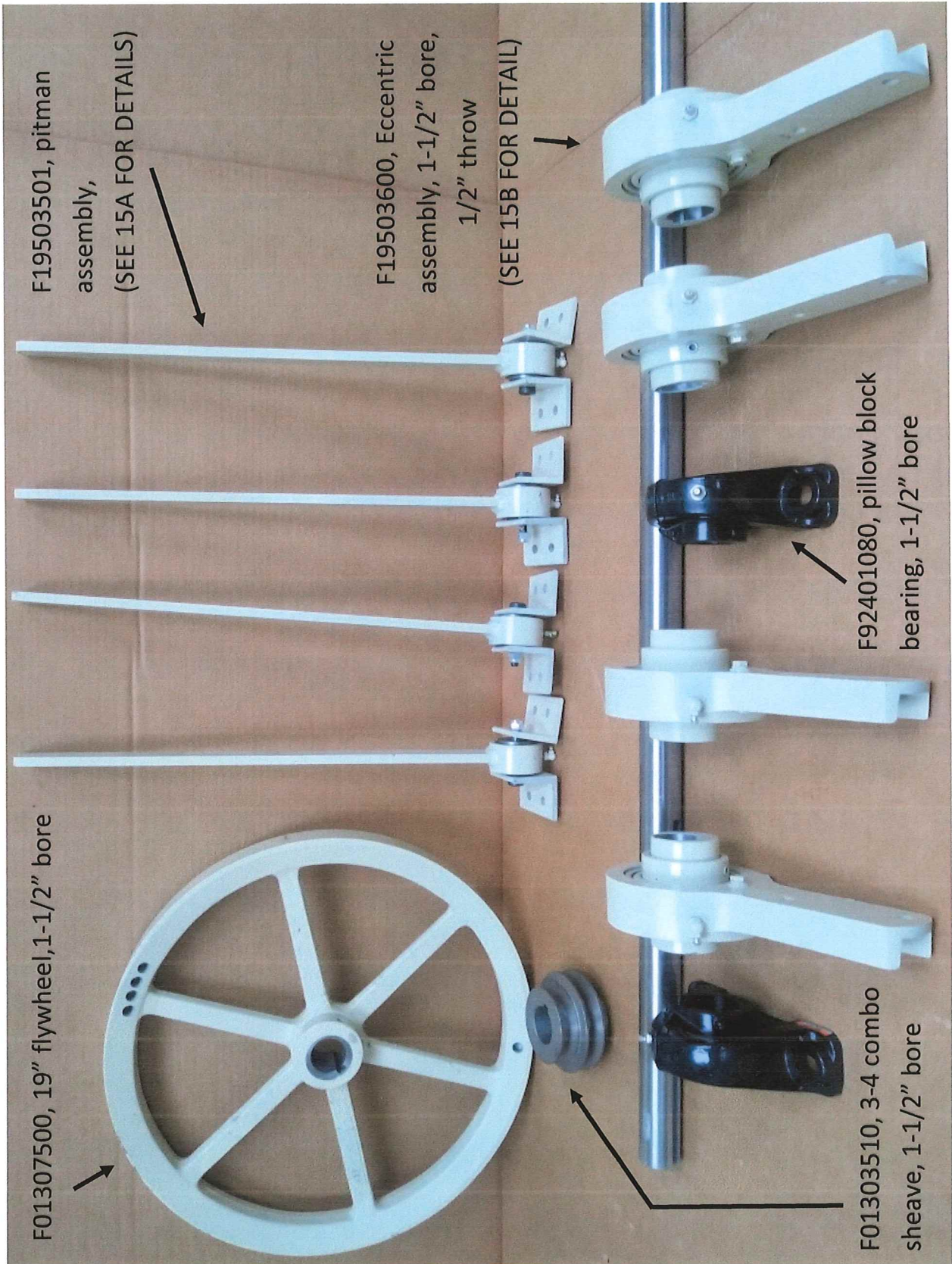
F92452090, B34 thrust bearing

F19500700, 1-1/2" speed adjusting nut

F19803601, 3/8" x 5" long square keys (included with shaft)

# Countershaft assembly page 14





F01307500, 19" flywheel, 1-1/2" bore

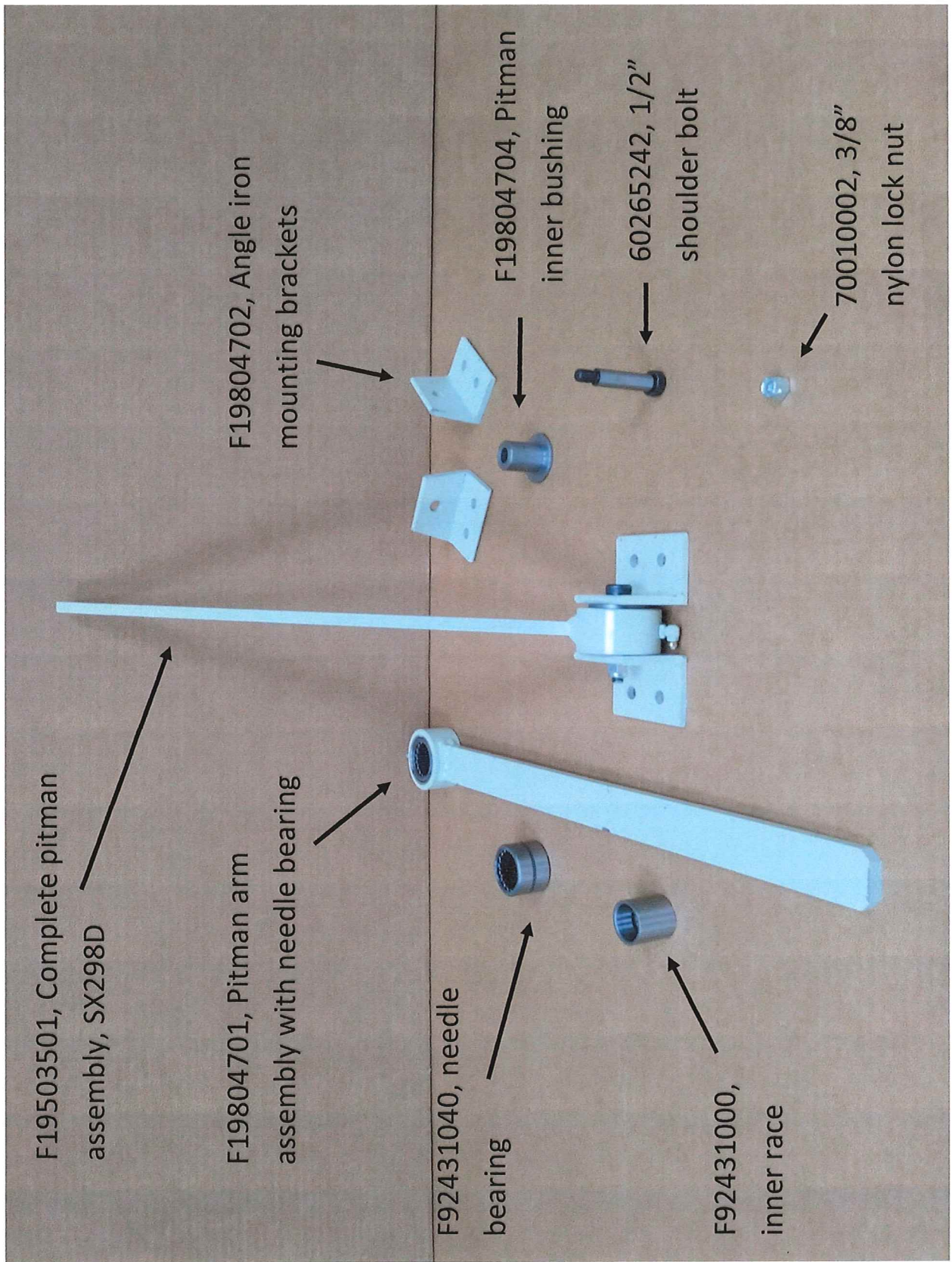
F19503501, pitman assembly, (SEE 15A FOR DETAILS)

F19503600, Eccentric assembly, 1-1/2" bore, 1/2" throw (SEE 15B FOR DETAIL)

F92401080, pillow block bearing, 1-1/2" bore

F01303510, 3-4 combo sheave, 1-1/2" bore





F19503501, Complete pitman assembly, SX298D

F19804701, Pitman arm assembly with needle bearing

F92431040, needle bearing

F92431000, inner race

F19804702, Angle iron mounting brackets

F19804704, Pitman inner bushing

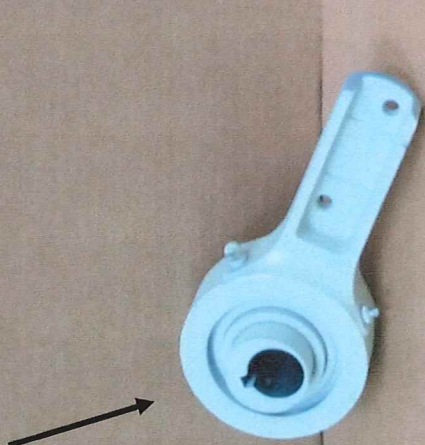
60265242, 1/2" shoulder bolt

70010002, 3/8" nylon lock nut

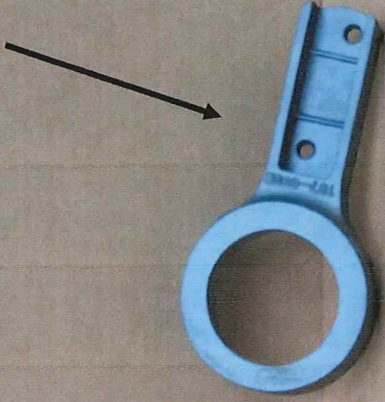
# Pitman assembly



F19503600, Complete eccentric assembly, 1-1/2" bore, 1/2" throw



F19703000, Eccentric housing



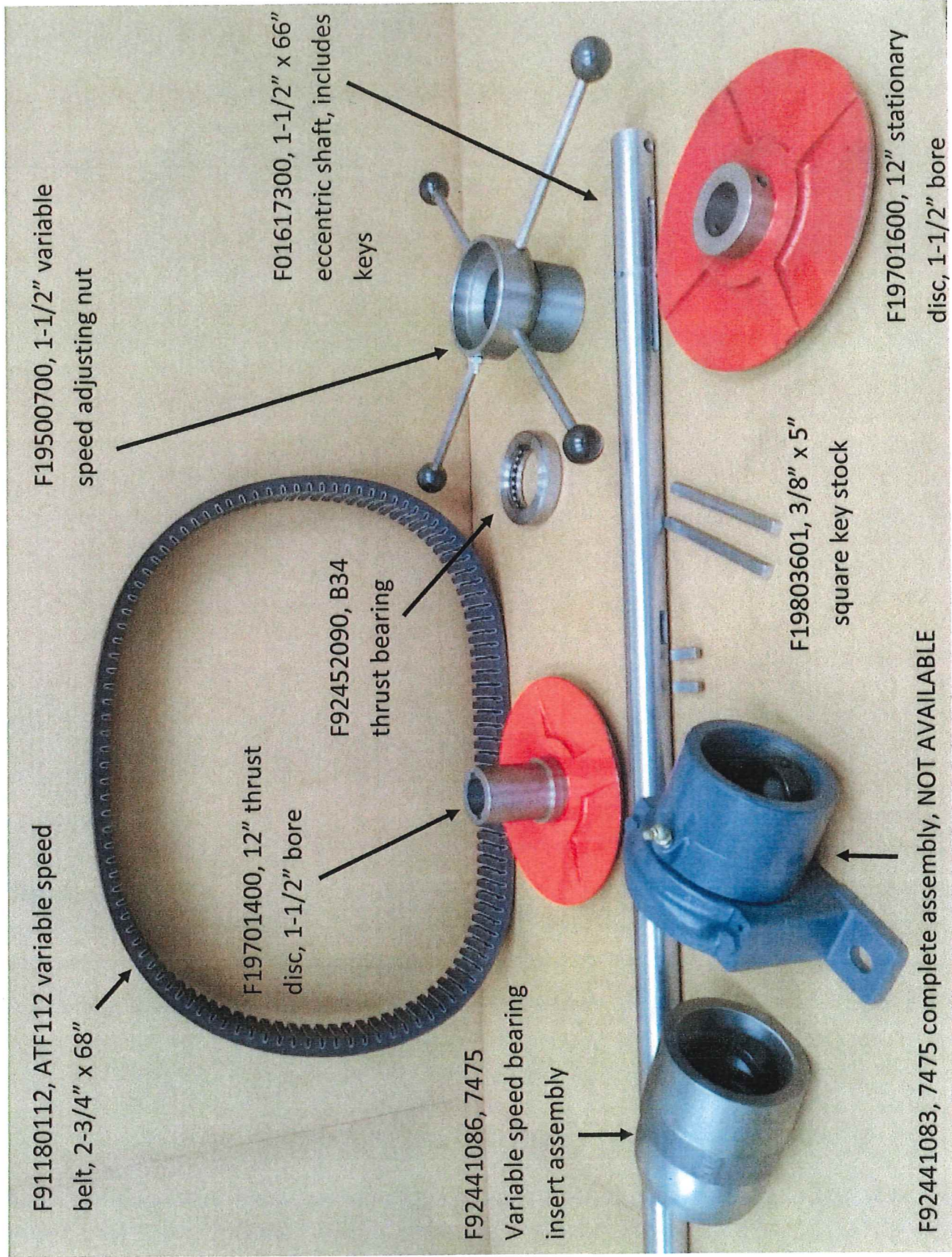
F92400053, Bearing insert



F19804004, Eccentric hub, 1-1/2" bore, 1/2" throw







F91180112, ATF112 variable speed belt, 2-3/4" x 68"

F19500700, 1-1/2" variable speed adjusting nut

F19701400, 12" thrust disc, 1-1/2" bore

F92452090, B34 thrust bearing

F01617300, 1-1/2" x 66" eccentric shaft, includes keys

F92441086, 7475 Variable speed bearing insert assembly

F92441083, 7475 complete assembly, NOT AVAILABLE

F19803601, 3/8" x 5" square key stock

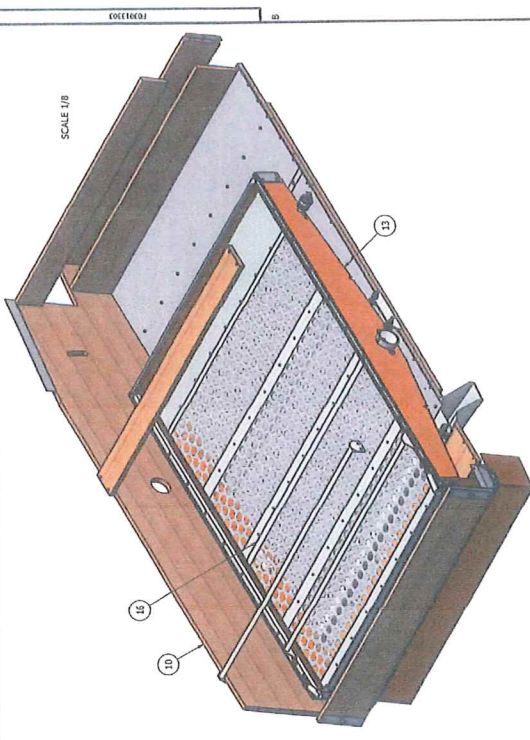
F19701600, 12" stationary disc, 1-1/2" bore

Eccentric shaft assembly, 12" discs, Super X29D, page 16

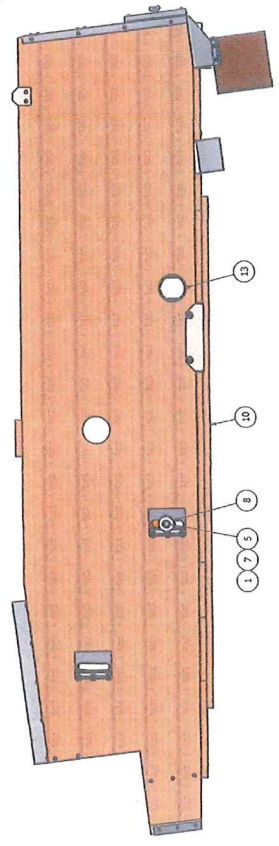


REVISED: 10/14/10 BY: [Redacted] FOR: [Redacted]  
 PROJECT: [Redacted]

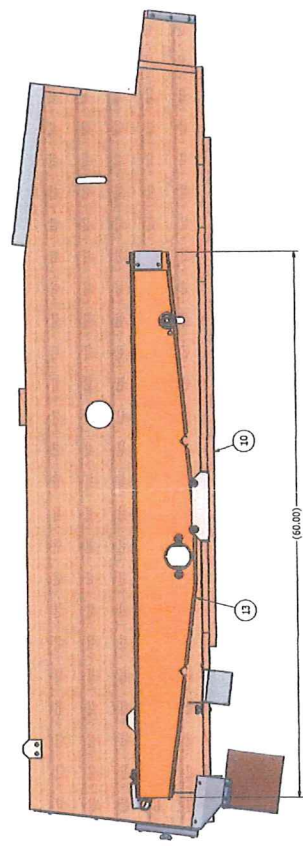
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1	100001	WAS GROUP DRAWING, ADD SHEETS 2 & 3	10/14/10	[Redacted]
2				



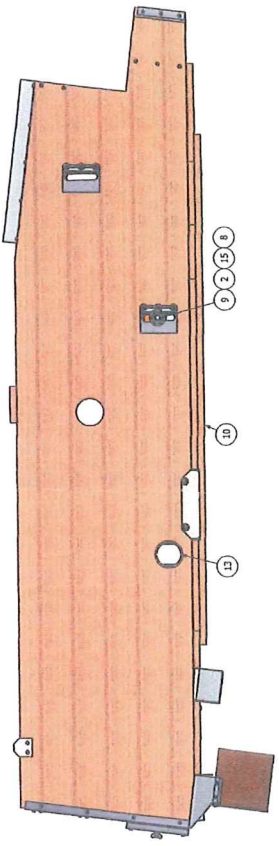
SCALE 1/8"



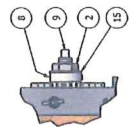
STEP 1: LEFT SIDE VIEW, BOTTOM ROCKER INSTALLATION



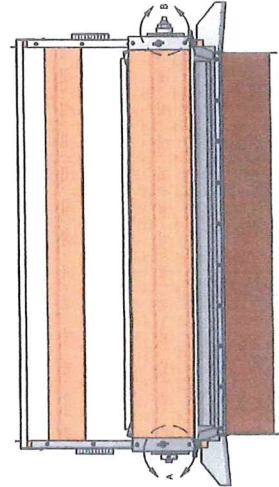
RIGHT SIDE CUTAWAY



STEP 1: RIGHT SIDE VIEW, BOTTOM ROCKER INSTALLATION



DETAIL A  
SCALE 0.31:1



DETAIL B  
SCALE 0.31:1

ITEM	SALES ORDER	DESCRIPTION
16	2	SCREEN ASSY, HMG PERP NYL, 60" X 49"
15	2	WASHER, RT, 7/8" X 1.315" X 0.062
14	2	ROCKER ASSY, BOTTOM, TOP SHOE, SIZ20
13	1	ROCKER ASSY, TOP, TOP SHOE, SIZ20
12	1	ROCKER ASSY, TOP, TOP SHOE, SIZ20
11	1	APRON ASSY, 1.25" X 48.50", SEED #9
10	1	SHOE ASSY, TOP ROLLER, SIZ20
9	2	SHAFT, ROCKER, RT, 1.25" X 48.50"
8	2	SHAFT, ROCKER, LT, 1.25" X 48.50"
7	2	WASHER, LOCK HELICAL, 3/8"
6	2	WASHER, FLAT, 3/8" X 1.00"
5	2	WASHER, FLAT, 3/8" X 1.00"
4	2	NUT, WING, 3/8" X 1.00"
3	2	WASHER, FLAT, 3/8" X 1.00"
2	2	IMCS, 3/8" X 1.00"

**Division of**  
**ARMCO**  
 1405 S. 140th St.  
 Tulsa, Oklahoma 74119  
 Tel: 918-437-2000  
 Fax: 918-437-2001  
 E-mail: [Redacted]

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DATE: 10/14/10  
 DRAWN BY: [Redacted]  
 CHECKED BY: [Redacted]  
 APPROVED BY: [Redacted]

TELEPHONE: 918-437-2000  
 FAX: 918-437-2001  
 E-MAIL: [Redacted]

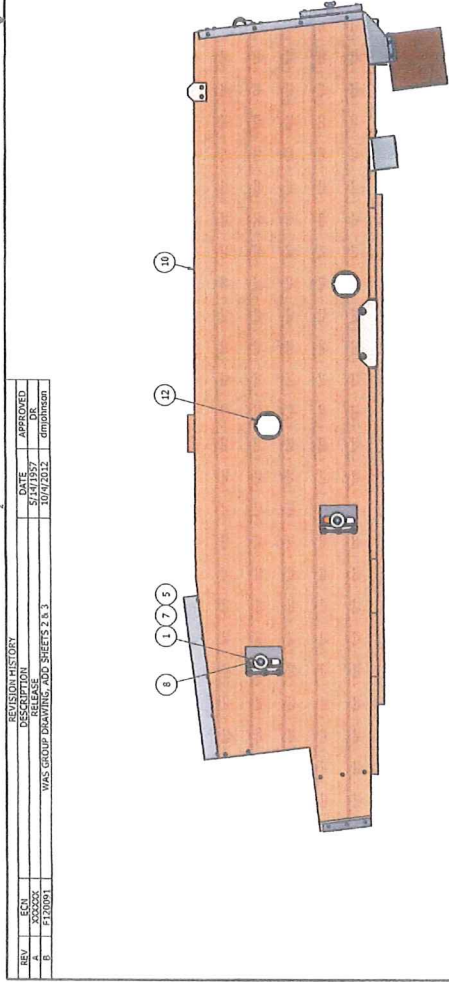
NO MANUFACTURING INFORMATION TO BE PLACED ON THIS DRAWING

CAD CHANGES: 1 OF 3  
 PART NUMBER: F03013303  
 SHEET: B

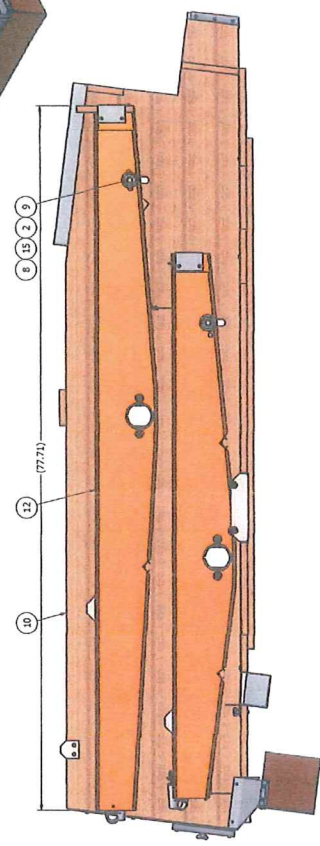
NOTES:  
 1. NOT SCALE FROM DRAWING  
 2. ONE PIECE REQUIRED PER F0140029H; CLEANER ASSY, RH W/BRUSHES, SIZ20.

Approved for Construction  
 Approved for Installation  
 Approved for Release

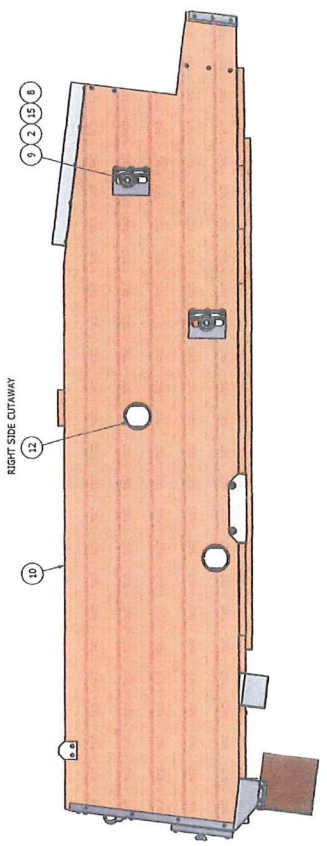
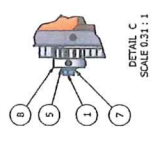
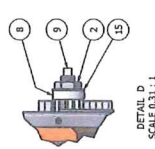
REV	BY	DATE	DESCRIPTION
1	FL/00001	5/14/1997	WAS GROUP DRAWING ADD SHEETS 2 & 3
2	FL/00001	10/4/2012	amendations



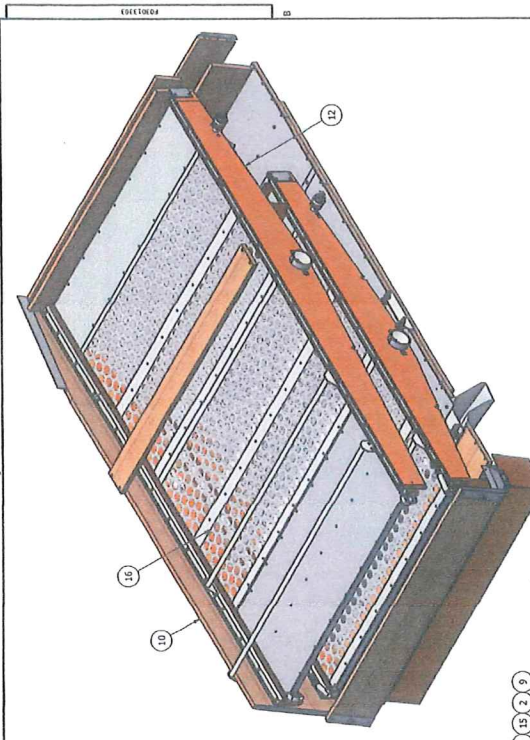
STEP 2: LEFT SIDE VIEW, TOP ROCKER INSTALLATION



STEP 2: RIGHT SIDE VIEW, TOP ROCKER INSTALLATION



STEP 2: RIGHT SIDE VIEW, TOP ROCKER INSTALLATION



SCALE 1/8

ITEM	PART NUMBER	QTY	DESCRIPTION
15	154420000	2	SCREEN ASSY, MIG REF-INTL 40" X 49"
16	154420000	2	WASHER, FLT 250 X 1750 X .062
17	154420000	2	STUD, DOWEL 1/4"-Ø X 2.50"
18	154420000	1	ROCKER ASSY, BOTTOM, TOP SHOE, SZ320
19	154420000	1	ROCKER ASSY, TOP, TOP SHOE, SZ320
1	154420000	1	APPLY ASSY, 1.25 X 1.5 X .062 SZ320
2	154420000	2	SHIRT, ROCKER TILT, 25 X 48.5" #9
3	154420000	4	PINION, BRUSH ADJ, 13 TOOTH W/SET SCREWS
4	154420000	2	WASHER, LOCK-MECHAN 3/8"
5	154420000	2	WASHER, FLAT 3/8" NARROW TYPE A
6	154420000	2	NUT, HEAVY HEX, 3/4" X 1.00"
7	154420000	2	NUT, HEAVY HEX, 3/4" X 1.00"
8	154420000	2	IMCS, 3/8"-16 X 1.00"

AT FERRELL COMPANY  
 1400 S. 42ND ST.  
 BOSTON, MA 02118  
 TEL: 617-252-1000  
 FAX: 617-252-1000  
 WWW.ATFERRELL.COM

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UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE IN INCHES.  
 DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS.  
 DIMENSIONS IN PARENTHESES ARE TO BE USED ONLY IF NECESSARY.  
 DIMENSIONS IN PARENTHESES ARE TO BE USED ONLY IF NECESSARY.

DRAWING NO. 154420000  
 SHEET NO. 2 OF 3  
 TITLE: SHOE ASSY, RH TOP ROCKERS, SZ320  
 DATE: 10/4/2012  
 DRAWN BY: [Name]  
 CHECKED BY: [Name]  
 CAD CHANGES: 0.16:4  
 PART NUMBER: F03013303

NOTE:  
 1. DO NOT SCALE FROM DRAWING.  
 2. ONE PIECE REQUIRED PER FH-10029H; CLEANER ASSY, RH W/BRUSHES, SZ320.





© 2013 A.T. Ferrel Company  
 Part # 13303107  
 13303107

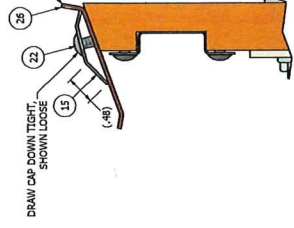
REV	BY	DATE	APPROVED
A	DR	5/7/13	DR
B	DR	4/17/13	DR
C	DR	4/17/13	DR

REV	DESCRIPTION
A	WAS C-SIZE GROUP DRAWINGS, P/3063307, #1001
B	WAS C-SIZE GROUP DRAWINGS, P/3063307, #1001 WAS FIRST DRAWING, P/3063307, #1001
C	ROTARY ROCKER CLIPS 30, DES

2

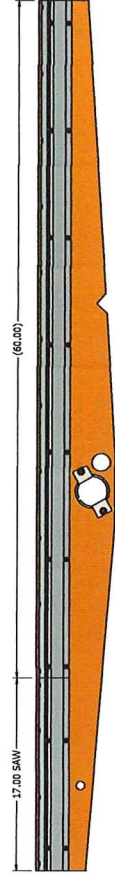
2

POSITION BELTING & CAP SO THAT  
 3/8" OF BELTING IS FLUSH WITH  
 OUTSIDE OF ROCKER, AS SHOWN TYP



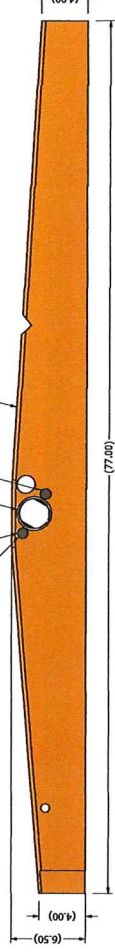
DRAW CAP DOWN TIGHT,  
 SHOWN LOOSE

DETAIL B  
 SCALE 1:1

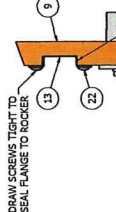


STEP 2: RIGHT ROCKER SIDE ASSEMBLY, LEFT SIDE VIEW  
 TYPICAL ASSEMBLY FOR LEFT ROCKER SIDE

COUNTERSINK ELEVATOR  
 BOLTS  $\nabla$  .13"-TYP



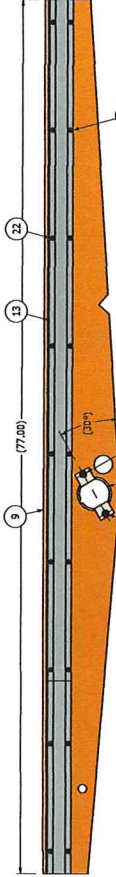
STEP 3: RIGHT ROCKER SIDE ASSEMBLY, LEFT SIDE VIEW  
 TYPICAL ASSEMBLY FOR LEFT ROCKER SIDE



DRAW SCREWS TIGHT TO  
 SEAL FLANGE TO ROCKER

POSITION BELTING & CAP  
 SO GROOVE BOTTOM

DETAIL A  
 SCALE 1:2



STEP 4: RIGHT ROCKER SIDE ASSEMBLY, LEFT SIDE VIEW  
 TYPICAL ASSEMBLY FOR LEFT ROCKER SIDE



NOTES:  
 1. DO NOT SCALE FROM DRAWING  
 2. ONE PIECE REQUIRED PER P/3063307, SHOE ASSY, TOP W/ ROCKERS, S/29D

ITEM	PART NUMBER	QTY	DESCRIPTION
26	P/1152006	13,167 A	BELTING, 3 PLY F50V5 2.50 X 79.00"
25	P/6005101	1	GIRT W/DMT, ROCKER ADJUSTMENT, CENTERED, #9
24	P/4412122	4	SM5, F.L.T. X HD #8 X 3/4"
23	P/3453403	4	SM5, PAN X HD #8 X 3/4"
22	P/3453402	8	SM5, PAN X HD #8 X 3/4"
21	P/3453401	8	SM5, PAN X HD #8 X 3/4"
20	P/3453401	4	SM5, FLAT CROSS HEAD #10 X 1.50"
19	P/2021407	4	BOLT, ELEV. 1/4-20 X 1.50"
18	P/3066000	2	ANGLE, SCREEN STOP, ROCKER
17	P/3063500	1	BOTTOM METAL ASSY, TOP RKR, TOP SHOE, S/29D
16	P/3063300	1	BLANK ASSY, TOP/BTM ROCKER, BTM SHOE, S/29D
15	P/3061100	2	CAP, RUBBER HOLDING, ROCKER, 60.00"
14	P/3061100	2	RUBBER HOLDING, ROCKER, 60.00"
13	P/3060011	2	LINER W/DMT, SCREENWAY ROCKER, 77.00"
12	P/3060011	1	BRACE, BOTTOM, ROCKER, #9
11	P/3061600	1	BOARD, REAR CROSS, TOP ROCKER, TOP SHOE, S/29D
10	P/3061402	1	SIDE, LH, TOP ROCKER, TOP SHOE, S/29D/S/29D
9	P/3061400	1	SIDE, RH, TOP ROCKER, TOP SHOE, S/29D/S/29D
8	P/3059805	1	GIRT W/DMT, PIPE, ROCKER #9
7	P/3059800	2	SCREEN STOP ASSY, SCREENWAY ROCKER
6	70510231	3	SCW, DECK FL THD #6 X 2.00"
5	70510231	3	SCW, DECK FL THD #6 X 2.00"
4	65783300	4	NUT, HEX SERRE LOCK 1/4-20
3	65782600	6	NUT, HEX SERRE LOCK 1/4-20
2	65782226	6	SM5, F.L.T. X HD #8 X 1.50"
1	60282626	6	BOLT, CARR 1/4-24 X 1.50"

RESEARCHER: DRP  
 DATE: 4/17/13  
 DRAWN BY: DR  
 CHECKED BY: DR  
 APPROVED BY: DR

REVISION HISTORY:  
 REV A: WAS C-SIZE GROUP DRAWINGS, P/3063307, #1001  
 REV B: WAS C-SIZE GROUP DRAWINGS, P/3063307, #1001 WAS FIRST DRAWING, P/3063307, #1001  
 REV C: ROTARY ROCKER CLIPS 30, DES

ITEM	PART NUMBER	QTY	DESCRIPTION
1	60282626	6	BOLT, CARR 1/4-24 X 1.50"
2	65782226	6	SM5, F.L.T. X HD #8 X 1.50"
3	65782600	6	NUT, HEX SERRE LOCK 1/4-20
4	65783300	4	NUT, HEX SERRE LOCK 1/4-20
5	70510231	3	SCW, DECK FL THD #6 X 2.00"
6	70510231	3	SCW, DECK FL THD #6 X 2.00"
7	P/3059800	2	SCREEN STOP ASSY, SCREENWAY ROCKER
8	P/3059805	1	GIRT W/DMT, PIPE, ROCKER #9
9	P/3061400	1	SIDE, RH, TOP ROCKER, TOP SHOE, S/29D/S/29D
10	P/3061402	1	SIDE, LH, TOP ROCKER, TOP SHOE, S/29D/S/29D
11	P/3061600	1	BOARD, REAR CROSS, TOP ROCKER, TOP SHOE, S/29D
12	P/3060011	2	LINER W/DMT, SCREENWAY ROCKER, 77.00"
13	P/3060011	2	RUBBER HOLDING, ROCKER, 60.00"
14	P/3061100	2	RUBBER HOLDING, ROCKER, 60.00"
15	P/3061100	2	CAP, RUBBER HOLDING, ROCKER, 60.00"
16	P/3063300	1	BLANK ASSY, TOP/BTM ROCKER, BTM SHOE, S/29D
17	P/3063500	1	BOTTOM METAL ASSY, TOP RKR, TOP SHOE, S/29D
18	P/3066000	2	ANGLE, SCREEN STOP, ROCKER
19	P/2021407	4	BOLT, ELEV. 1/4-20 X 1.50"
20	P/3453401	8	SM5, PAN X HD #8 X 3/4"
21	P/3453401	8	SM5, PAN X HD #8 X 3/4"
22	P/3453402	8	SM5, PAN X HD #8 X 3/4"
23	P/3453403	4	SM5, PAN X HD #8 X 3/4"
24	P/4412122	4	SM5, F.L.T. X HD #8 X 3/4"
25	P/6005101	1	GIRT W/DMT, ROCKER ADJUSTMENT, CENTERED, #9
26	P/1152006	13,167 A	BELTING, 3 PLY F50V5 2.50 X 79.00"

RESEARCHER: DRP  
 DATE: 4/17/13  
 DRAWN BY: DR  
 CHECKED BY: DR  
 APPROVED BY: DR

REVISION HISTORY:  
 REV A: WAS C-SIZE GROUP DRAWINGS, P/3063307, #1001  
 REV B: WAS C-SIZE GROUP DRAWINGS, P/3063307, #1001 WAS FIRST DRAWING, P/3063307, #1001  
 REV C: ROTARY ROCKER CLIPS 30, DES

RESEARCHER: DRP  
 DATE: 4/17/13  
 DRAWN BY: DR  
 CHECKED BY: DR  
 APPROVED BY: DR

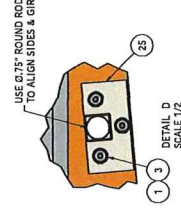
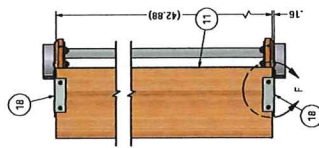
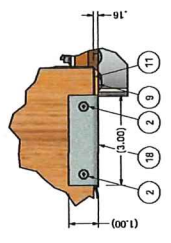
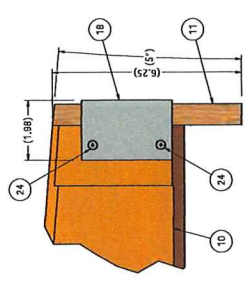
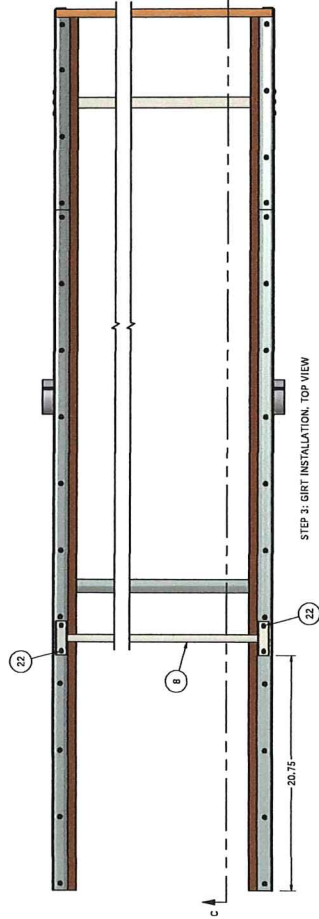
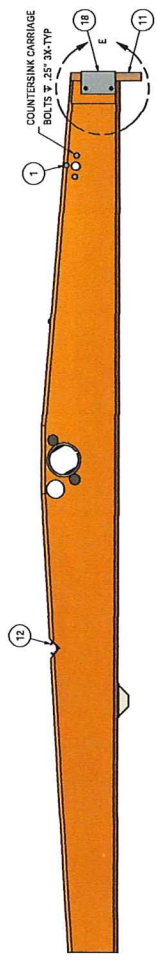
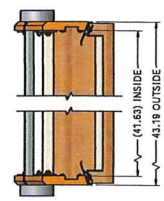
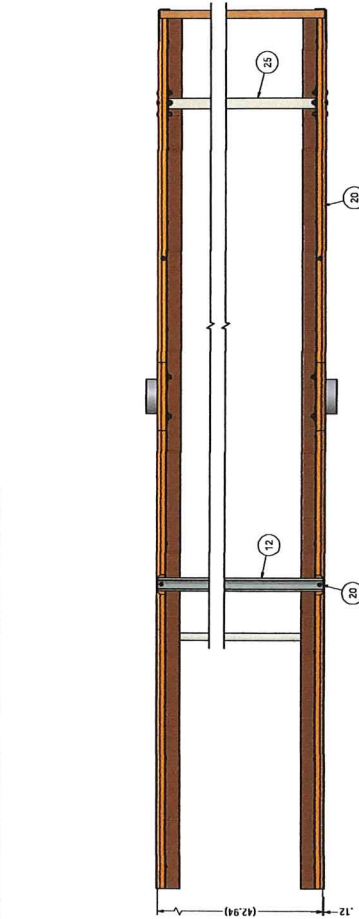
REVISION HISTORY:  
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 REV B: WAS C-SIZE GROUP DRAWINGS, P/3063307, #1001 WAS FIRST DRAWING, P/3063307, #1001  
 REV C: ROTARY ROCKER CLIPS 30, DES

REV	DESCRIPTION	DATE	BY	CHKD	APPD
A	WAS C-SIZE GROUP DRAWINGS, P/3063307, #1001	5/7/13	DR	DR	DR
B	WAS C-SIZE GROUP DRAWINGS, P/3063307, #1001 WAS FIRST DRAWING, P/3063307, #1001	4/17/13	DR	DR	DR
C	ROTARY ROCKER CLIPS 30, DES	4/17/13	DR	DR	DR

CAD CHANGES: 0.19.1  
 1 OF 3  
 PART NUMBER: P/3062100



REV	ECN	DESCRIPTION	DATE	APPROVED
A	XXXX	WAS C-SIZE GROUP DRAWING. FOR ROTATION - 60°	5/9/1957	DR
B	XXXX	WAS C-SIZE GROUP DRAWING. FOR ROTATION - 60°	5/9/1957	DR
C	F130552	ROTATE ROCKERS CLIPS 30 DEG	4/5/2013	COMPLETION



ITEM PART NUMBER	CITY	DESCRIPTION
25	F90003101	13.167" R BELTING, 3 PLY FSKYS 2.50 X 78.00"
26	F90003101	1 GIRTY W/DMT. ROCKER ADJUSTMENT, CENTERED, #8
24	F84274122	4 SMS. F.L.T. X HD #8 X 3/4"
23	F84254403	4 SMS. PAN X HD #10 X 3/4"
22	F84254402	8 SMS. PAN X HD #8 X 3/4"
21	F84241001	8 SMS. PAN X HD #10 X 1/2"
20	F84241002	8 SMS. PAN X HD #8 X 1/2"
19	F84241407	4 SMS. FLAT CROSS HEAD #10 X 1.50"
18	F84241407	4 ROLL. ELEV. 1/4-20 X 1.25"
17	F03805000	2 ANGLE. SCREEN STOP. ROCKER
16	F03803500	1 BOTTOM METAL ASSY. TOP RKR. TOP SHOE. SIZ29D
15	F03803300	1 BLANK ASSY. TOP/RTM. ROCKER. RTM SHOE. SIZ29D
14	F03807100	2 CAP RUBBER HOLDING. ROCKER. 60.00"
13	F03806100	2 UNAS. W/DMT. SCREENWAY. ROCKER. 71.00"
12	F03806001	1 BRAG. BOTTOM. ROCKER. #8
11	F038071600	1 BOARD. REAR CROSS. TOP ROCKER. TOP SHOE. SIZ29D
10	F038071402	1 SIDE. LH. TOP ROCKER. TOP SHOE. SIZ29D/SIZ288D
9	F038071400	1 SIDE. RH. TOP ROCKER. TOP SHOE. SIZ29D/SIZ288D
8	F035058005	1 GIRTY W/DMT. PIPE. ROCKER #8
7	F035058000	2 SCREEN. HIGH ASSY. TRAP. #8
6	107010321	3 SOW. DECK F.L. HD #6 X 2.00"
5	165783300	4 NUT. HEX SERR. LOCK. 1/4-20
4	165782600	6 NUT. HEX SERR. LOCK. 10-24
3	165852226	4 SMS. F.L.T. X HD #8 X 1.25"
2	165852226	4 SMS. F.L.T. X HD #8 X 1.25"
1	165852226	4 SMS. F.L.T. X HD #8 X 1.25"

**AT FERRER COMPANY**  
 48714 S. USA  
 BLUFFTON, INDIANA  
 P.O. BOX 100  
 P.A.N. 2058245413  
 TEL: 317.237.1212

**REVISIONS CHECKED BY:** [ ]  
**DATE:** [ ]  
**BY:** [ ]  
**DATE:** [ ]

**ITEM PART NUMBER:** ROCKERS ASSY. TOP. TOP SHOE. SIZ29D  
**CITY:** BLUFFTON, INDIANA  
**DESCRIPTION:** ROCKERS ASSY. TOP. TOP SHOE. SIZ29D

**SCALE:** 1/2  
**SHEET:** 2 OF 3  
**POST NUMBER:** F03502100  
**CAD CHANGES:** [ ]

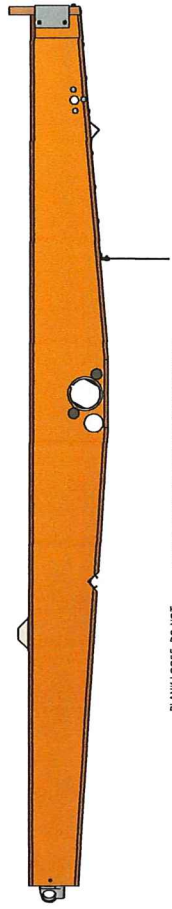
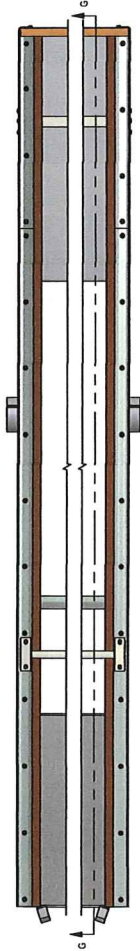
NOTES:  
 1. DO NOT SCALE FROM DRAWING.  
 2. ONE PIECE REQUIRED PER FOOT (30.00) OF SHOE ASSY. TOP W/ ROCKERS. SIZ29D.

REV	DATE	DESCRIPTION	APPROVED
A	5/27/16	WAS C-SIDE GROUP DRAWING. FORBETTING WAS FIRST REV. FORBETTING T. FRODOSON	DR
B	4/15/2013	ROTATE ROCKER CURPS 30 DEG.	DR
C	F130892		DR

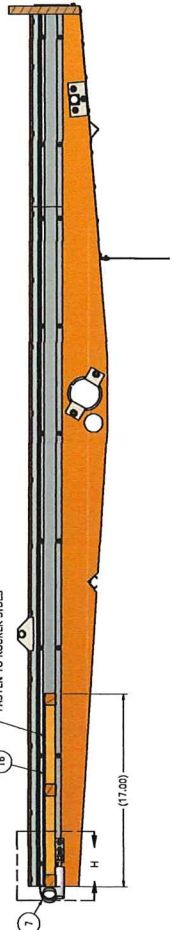
REVISION HISTORY

REV	DATE	DESCRIPTION	APPROVED
A	5/27/16	WAS C-SIDE GROUP DRAWING. FORBETTING WAS FIRST REV. FORBETTING T. FRODOSON	DR
B	4/15/2013	ROTATE ROCKER CURPS 30 DEG.	DR
C	F130892		DR

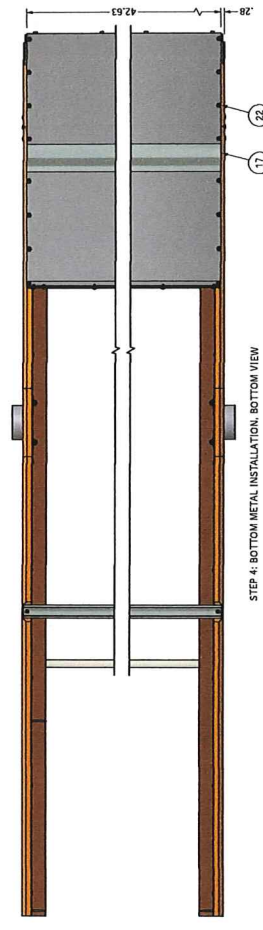
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A	5/27/16	WAS C-SIDE GROUP DRAWING. FORBETTING WAS FIRST REV. FORBETTING T. FRODOSON	DR
B	4/15/2013	ROTATE ROCKER CURPS 30 DEG.	DR
C	F130892		DR



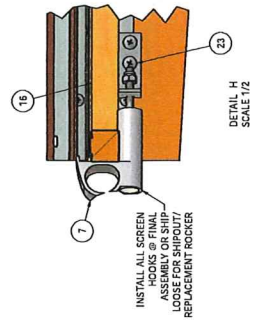
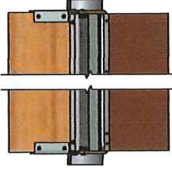
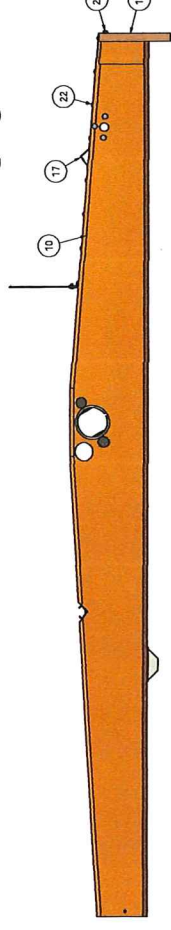
STEP 5: COMPLETE ASSEMBLY, RIGHT SIDE VIEW



SECTION G-G



STEP 4: BOTTOM METAL INSTALLATION, BOTTOM VIEW



ITEM PART NUMBER	QTY	CITY	DESCRIPTION
26	13,167	R	BELTING, 3 PLY FSWS 2.50 X 78.00"
25	FRODOSON101		GIRT W/DMT. ROCKER ADJUSTMENT, CENTERED, #8
24	F8427122		SMS, FLT X HD #8 X 3/4"
23	F8452403		SMS, PAN X HD #10 X 3/4"
22	F8452403		SMS, PAN X HD #8 X 3/4"
21	F8422107		SMS, FLT CROSS HEAD #10 X 1.50"
20	F8422107		BOLT, ELEV 1/4-20 X 1.25"
19	F8422107		ANGLE, SCREEN STOP, ROCKER
18	F03800000		BOTTOM METAL ASSY, TOP RNR, TOP SHOE, S29D
17	F03800000		BLANK ASSY, TOP/RTM ROCKER, RTM SHOE, S29D
16	F03800000		CAP RUBBER HOLDING ROCKER, 60.00"
15	F03800000		LINEAR W/DMT, SCREENWAY ROCKER, 71.00"
14	F03800000		BRACE, BOTTOM ROCKER, #8
13	F03800000		BOARD, REAR CROSS, TOP ROCKER, TOP SHOE, S29D
12	F03800000		SIDE, LH, TOP ROCKER, TOP SHOE, S29D/S298D
11	F03800000		SIDE, RH, TOP ROCKER, TOP SHOE, S29D/S298D
10	F03800000		GIRT W/DMT, PIPE, ROCKER #8
9	F03800000		CAP RUBBER HOLDING ROCKER, 60.00"
8	F03800000		CAP RUBBER HOLDING ROCKER, 60.00"
7	F03800000		SCREW, DECK FLT HD #6 X 2.00"
6	165783000		NUT, HEX SERR LOCK 1/4-20
5	165783000		NUT, HEX SERR LOCK 1/4-20
4	165783000		NUT, HEX SERR LOCK 1/4-20
3	165783000		NUT, HEX SERR LOCK 1/4-20
2	165783000		NUT, HEX SERR LOCK 1/4-20
1	165783000		NUT, HEX SERR LOCK 1/4-20

**AT FERRELL COMPANY**  
 4874 - USA  
 BLUFFTON, INDIANA  
 P.O. BOX 100  
 P.O. BOX 100  
 P.O. BOX 100

ITEM PART NUMBER: F03800000  
 QTY: 1  
 CITY: BLUFFTON, INDIANA  
 DESCRIPTION: ROCKER ASSY, TOP, TOP SHOE, S29D

REVISION HISTORY: 1. 05/27/16 2. 04/15/13 3. F130892

CAD CHANGES: 1 OF 3

FIGURE NUMBER: F03800000

SCALE: 1:1

DATE: 05/27/16

BY: DR

CHKD: DR

APP: DR

DATE: 05/27/16

BY: DR

CHKD: DR

APP: DR

DATE: 05/27/16

BY: DR

CHKD: DR

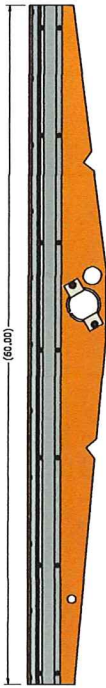
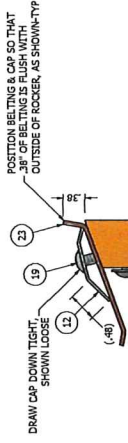
APP: DR

NOTES:  
 1. DO NOT SCALE FROM DRAWING.  
 2. ONE PIECE REQUIRED PER FOOT (33.00 FT): SHOE ASSY, TOP W/ ROCKERS, S29D.

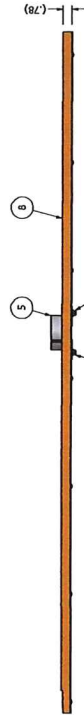
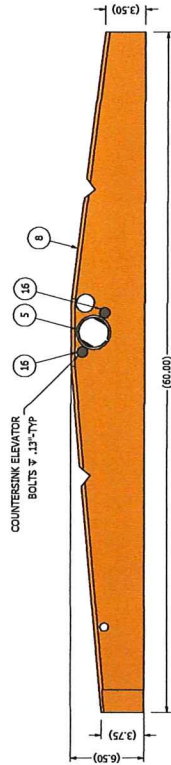


REV.	ECO.	DATE	APPROVED
A	1	8/17/2012	ambison
B	1	8/17/2012	ambison
C	1	4/5/2013	ambison

REVISION HISTORY
DESCRIPTION
REDRAWN CAD WAS C-SIDE GROUP DRAWINGS
ROTATE ROCKER CURS 30 DEG



STEP 2: RIGHT ROCKER SIDE ASSEMBLY, LEFT SIDE VIEW  
TYPICAL ASSEMBLY FOR LEFT ROCKER SIDE



STEP 1: RIGHT ROCKER SIDE ASSEMBLY, LEFT SIDE VIEW  
TYPICAL ASSEMBLY FOR LEFT ROCKER SIDE

ITEM	PART NUMBER	QTY.	DESCRIPTION
23	F0152026	10.333	R. BELTING, 3 PLY, 550S, 2.50' X 62.00"
24	F0421122	4	SKS, PAN X HD, #8 X 3/4"
25	F0421122	4	SKS, PAN X HD, #8 X 3/4"
26	F0421122	4	SKS, PAN X HD, #8 X 3/4"
19	F03453402	56	SKS, PAN X HD, #8 X 3/4"
18	F03453402	4	SKS, PAN X HD, #8 X 3/4"
17	F03440301	4	SKS, FLAT CROSS HEAD #10 X 1.50"
16	F02021507	4	BOLT, ELEV 1/4-20 X 1.25"
15	F03005015	2	HOLES W/DRIFT, GRAIN STOP B/W ROCKER, S0290/S0290D
14	F03005015	2	HOLES W/DRIFT, GRAIN STOP B/W ROCKER, S0290/S0290D
13	F03005015	2	HOLES W/DRIFT, GRAIN STOP B/W ROCKER, S0290/S0290D
12	F03005015	2	HOLES W/DRIFT, GRAIN STOP B/W ROCKER, S0290/S0290D
11	F03005015	2	HOLES W/DRIFT, GRAIN STOP B/W ROCKER, S0290/S0290D
10	F03000001	2	BRACE, BOTTOM, ROCKER, #9
9	F03014003	1	SIDE, LH, B/W ROCKER, TOP SHOE, S0290/S0290D
8	F03014003	1	SIDE, RH, B/W ROCKER, TOP SHOE, S0290/S0290D
7	F03005000	2	SCREEN HOOD ASSY, STANDARD
6	F03005000	2	SCREEN HOOD ASSY, STANDARD
5	F03010008	2	CUP W/DRIFT, ROCKER, HEAVY DUTY BRUSH
4	F03010008	2	CUP W/DRIFT, ROCKER, HEAVY DUTY BRUSH
3	66782600	4	NUT, HEX SER, LOCK, 1/4-20
2	66782600	4	NUT, HEX SER, LOCK, 1/4-20
1	62020208	4	BOLT, CARB 10-24 X 1.25"

**REVISIONS**

NO.	DATE	DESCRIPTION
1	8/17/2012	ambison
2	4/5/2013	ambison

**DESCRIPTION**

ROCKER ASSY, BOTTOM, TOP SHOE, S0290

**APPROVED**

A.T. FERRELL COMPANY  
 10000 W. STATE ST.  
 BLUFFTON, INDIANA 47424  
 TEL: 317-844-4000  
 FAX: 317-844-4000

**REVISIONS**

NO.	DATE	DESCRIPTION
1	8/17/2012	ambison
2	4/5/2013	ambison

**DESCRIPTION**

ROCKER ASSY, BOTTOM, TOP SHOE, S0290

**APPROVED**

A.T. FERRELL COMPANY  
 10000 W. STATE ST.  
 BLUFFTON, INDIANA 47424  
 TEL: 317-844-4000  
 FAX: 317-844-4000

**REVISIONS**

NO.	DATE	DESCRIPTION
1	8/17/2012	ambison
2	4/5/2013	ambison

**DESCRIPTION**

ROCKER ASSY, BOTTOM, TOP SHOE, S0290

**APPROVED**

A.T. FERRELL COMPANY  
 10000 W. STATE ST.  
 BLUFFTON, INDIANA 47424  
 TEL: 317-844-4000  
 FAX: 317-844-4000

NOTES:  
 1. ONE PIECE FROM DRAWING.  
 2. ONE PIECE REQUIRED PER F03013303, SHOE ASSY, TOP W/ROCKERS, S0290.

REV.	DATE	DESCRIPTION
1	8/17/2012	ambison
2	4/5/2013	ambison

NO.	DATE	DESCRIPTION
1	8/17/2012	ambison
2	4/5/2013	ambison

NO.	DATE	DESCRIPTION
1	8/17/2012	ambison
2	4/5/2013	ambison

NO.	DATE	DESCRIPTION
1	8/17/2012	ambison
2	4/5/2013	ambison

NO.	DATE	DESCRIPTION
1	8/17/2012	ambison
2	4/5/2013	ambison

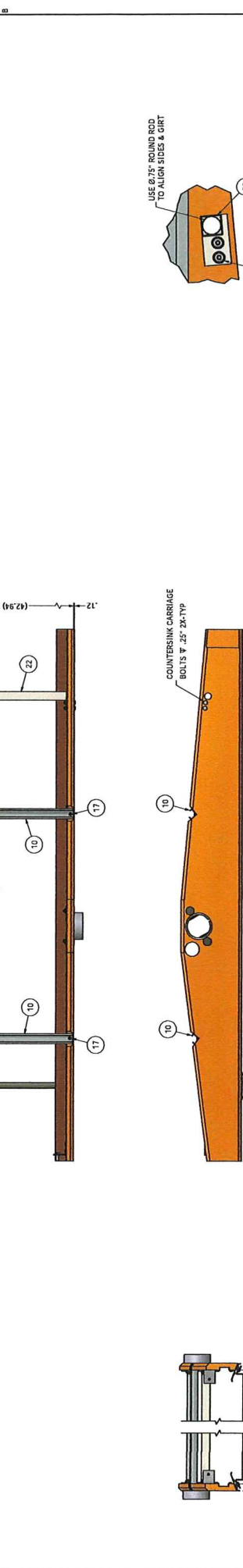
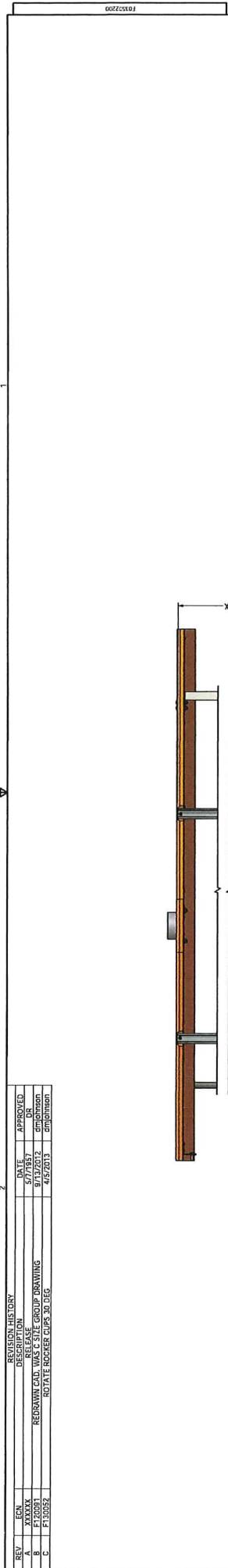
NO.	DATE	DESCRIPTION
1	8/17/2012	ambison
2	4/5/2013	ambison

NO.	DATE	DESCRIPTION
1	8/17/2012	ambison
2	4/5/2013	ambison

NO.	DATE	DESCRIPTION
1	8/17/2012	ambison
2	4/5/2013	ambison

NO.	DATE	DESCRIPTION
1	8/17/2012	ambison
2	4/5/2013	ambison

REVISION HISTORY		
REV	DESCRIPTION	DATE
A	REDRAWN CAD WAS C/SITE GROUP DRAWING	8/13/2012
B	ROTATE ROCKER CUPS 30 DEG	4/5/2013
C		



ITEM	QTY	DESCRIPTION
1	10	10-332 10 BELTING 3 X 1/2 356S 2.60 X 62.00"
2	8	8-3865 1/2 10-332 10 BELTING 3 X 1/2 356S 2.60 X 62.00"
3	8	8-3865 1/2 10-332 10 BELTING 3 X 1/2 356S 2.60 X 62.00"
4	4	4-3865 1/2 10-332 10 BELTING 3 X 1/2 356S 2.60 X 62.00"
5	4	4-3865 1/2 10-332 10 BELTING 3 X 1/2 356S 2.60 X 62.00"
6	4	4-3865 1/2 10-332 10 BELTING 3 X 1/2 356S 2.60 X 62.00"
7	4	4-3865 1/2 10-332 10 BELTING 3 X 1/2 356S 2.60 X 62.00"
8	4	4-3865 1/2 10-332 10 BELTING 3 X 1/2 356S 2.60 X 62.00"
9	4	4-3865 1/2 10-332 10 BELTING 3 X 1/2 356S 2.60 X 62.00"
10	4	4-3865 1/2 10-332 10 BELTING 3 X 1/2 356S 2.60 X 62.00"
11	4	4-3865 1/2 10-332 10 BELTING 3 X 1/2 356S 2.60 X 62.00"
12	4	4-3865 1/2 10-332 10 BELTING 3 X 1/2 356S 2.60 X 62.00"
13	4	4-3865 1/2 10-332 10 BELTING 3 X 1/2 356S 2.60 X 62.00"
14	4	4-3865 1/2 10-332 10 BELTING 3 X 1/2 356S 2.60 X 62.00"
15	4	4-3865 1/2 10-332 10 BELTING 3 X 1/2 356S 2.60 X 62.00"
16	4	4-3865 1/2 10-332 10 BELTING 3 X 1/2 356S 2.60 X 62.00"
17	4	4-3865 1/2 10-332 10 BELTING 3 X 1/2 356S 2.60 X 62.00"
18	4	4-3865 1/2 10-332 10 BELTING 3 X 1/2 356S 2.60 X 62.00"
19	4	4-3865 1/2 10-332 10 BELTING 3 X 1/2 356S 2.60 X 62.00"
20	4	4-3865 1/2 10-332 10 BELTING 3 X 1/2 356S 2.60 X 62.00"
21	4	4-3865 1/2 10-332 10 BELTING 3 X 1/2 356S 2.60 X 62.00"
22	4	4-3865 1/2 10-332 10 BELTING 3 X 1/2 356S 2.60 X 62.00"

NOTES:  
 1. SEE PART SCALE FROM DRAWING.  
 2. ONE PIECE REQUIRED PER F03013303; SHOE ASSY, TOP W/ROCKERS, SX28D.

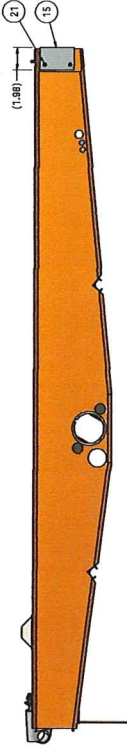
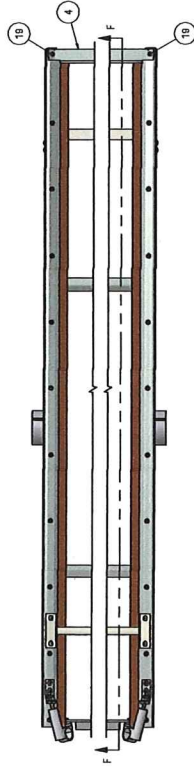
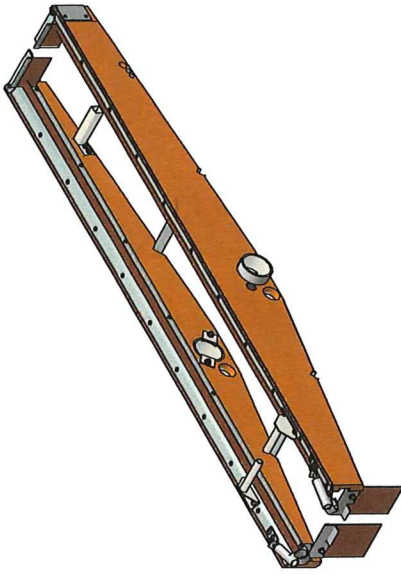
THE COMPANY OF  
**A. J. FERRELL COMPANY**  
 4500 WILSON ROAD  
 BLUFFTON, INDIANA 46032-9201  
 TEL: 317-835-1111 FAX: 317-835-1111  
 WWW.AJFERRELL.COM

DRAWING OF  
**ROCKER ASSY, BOTTOM, TOP SHOE, SX28D**  
 SHEET: 2 OF 3  
 DATE: 05/01/13  
 PART NUMBER: F0302200  
 CAD CHANGES:

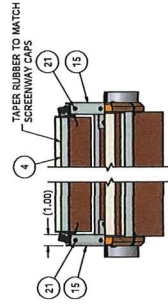
401077-1-10 Rev. 01 01/11/2013 14:48:00 (10/11/2013) 14:48:00 (10/11/2013)

REV	ENGR	DATE	APPROVED
A	F120251	8/17/2013	CHD
B	F120251	8/17/2013	CHD
C	F120252	4/15/2013	CHD

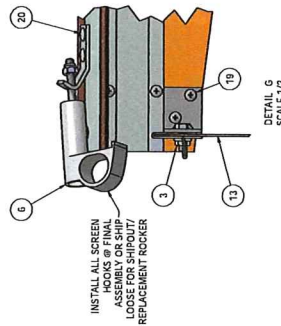
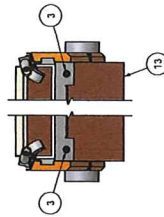
REVISION HISTORY	DESCRIPTION
A	REDRAWN CAD, WAS SIZE GROUP DRAWING
B	ROTATE ROCKER CUPS 30 DEG



STEP 5: COMPLETE ASSEMBLY, RIGHT SIDE VIEW

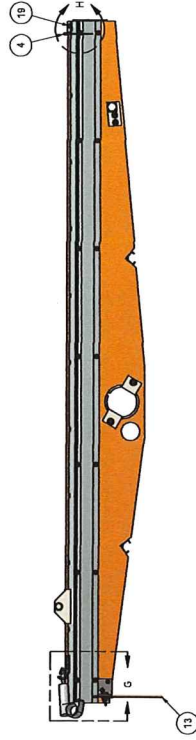


TAPER RUBBER TO MATCH SCREENWAY CAPS

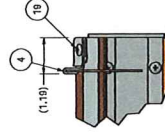


INSTALL ALL SCREEN HOODS @ FINAL ASSEMBLY OR SHIP LOOSE FOR SHIPOUT/ REPLACEMENT ROCKER

DETAIL G SCALE 1/2



SECTION F-F



DETAIL H SCALE 1/2

ITEM	PART NUMBER	QTY	DESCRIPTION
23	F91152006	10.328	IN BELTING, 3 PLY FSXFS 2.50 X 62.00"
22	F9225591	8	GIRL W/LDMT. ROCKER ADJUSTMENT, #9
21	F9225592	8	GIRL W/LDMT. ROCKER ADJUSTMENT, #10
20	F84454403	4	SMS. PAN X HD, #10 X 3/4"
19	F84454402	56	SMS. PAN X HD, #8 X 3/4"
18	F84450102	4	SMS. PAN X HD, #10 X 1"
17	F84440001	4	SMS. FLAT CROSS HEAD #10 X 1.50"
16	F82221407	4	BOLT, ELEV 1/4-20 X 1.25"
15	F70300600	2	ANGLE, SCREEN STOP, ROCKERS
14	F70300600	2	ANGLE, SCREEN STOP, ROCKERS
13	F70301000	1	GRANLS TOP ASSY, STM ROCKER, TOP SHOE, SX2BD
12	F70301100	2	CAP, RUBBER-HOLDING ROCKER, 60.00"
11	F70300413	2	LINER, SCREENWAY, ROCKER, 60.00"
10	F70300001	2	BRACE, BOTTOM, ROCKER, #9
9	F70301403	1	SIDE, LH, STM ROCKER, TOP SHOE, SX2BD/SX28BD
8	F70301401	1	SIDE, RH, STM ROCKER, TOP SHOE, SX2BD/SX28BD
7	F70300600	2	SCREEN ROCKER, STD
6	F70300600	2	SCREEN ROCKER, STD
5	F70300600	2	SCREEN ROCKER, STD
4	F70310008	1	GRAIN STOP ASSY, ROCKER, 2.50" X #9
3	66783300	6	NUT, HEX SERR LOCK, 1/4-20
2	65782600	4	NUT, HEX SERR LOCK, 1/4-20
1	60282626	4	BOLT, CARB 10-24 X 1.25"

**ATTENTION:** This drawing is the A.T. Firm's Company Inc. and must be returned immediately upon receipt. No part of this drawing is to be reproduced, stored in a retrieval system, or transmitted in any form or by any means, without prior written consent from A.T. Firm's Company, Inc.

**ATT FIRM'S COMPANY**  
 48714 - USA  
 BLUFFTON, INDIANA  
 P.O. BOX 258  
 P.A.S. 258-844-6463  
 PHONE: 317-327-1072  
 FAX: 317-327-1072

ROCKER ASSY, BOTTOM, TOP SHOE, SX2BD

DATE: 01/11/2013  
 DRAWN BY: NONE  
 CHECKED BY: NONE  
 APPROVED BY: NONE  
 SCALE: 0.181

CAD CHANGES: 3 OF 3

PART NUMBER: F03502200

FILE: C

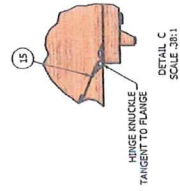
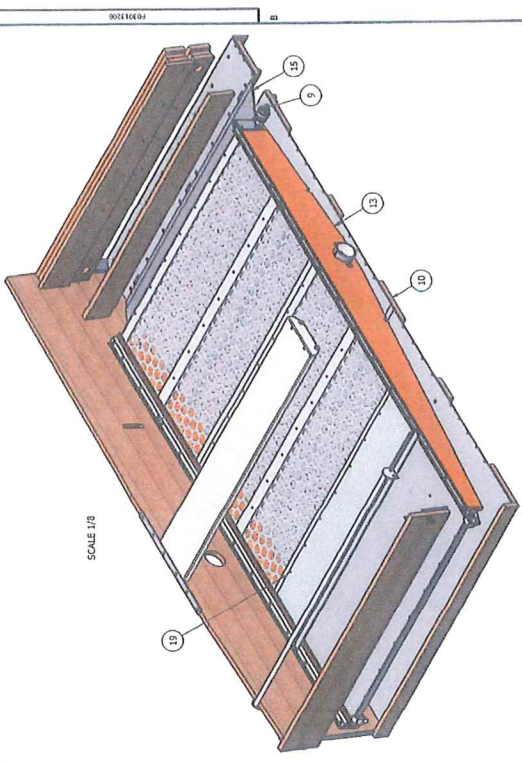
NOTES:  
 1. ONE SET SCALE FIRM DRAWING.  
 2. ONE PIECE REQUIRED PER F03013003, SHOE ASSY, TOP W/ROCKERS, SX2BD.



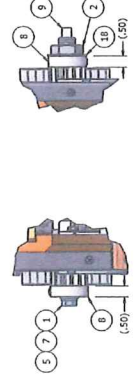
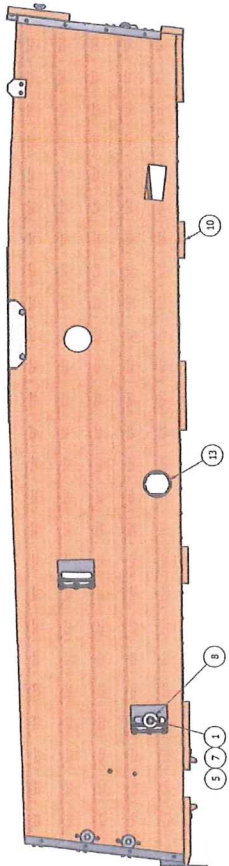
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REVISION HISTORY		DATE	APPROVED
REV	DESCRIPTION		
1	WAS GROUP DRAWING, ADD SHEETS 2 & 3	5/27/1957	AMPHIBION
2		9/17/2012	

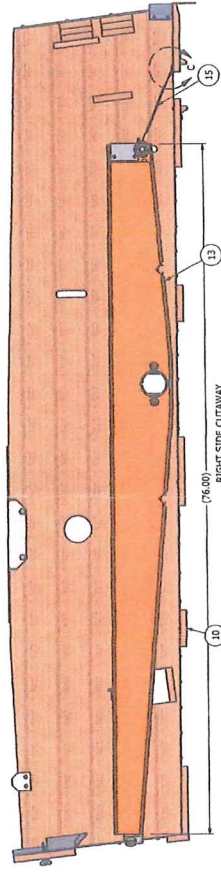
SCALE 1/8"



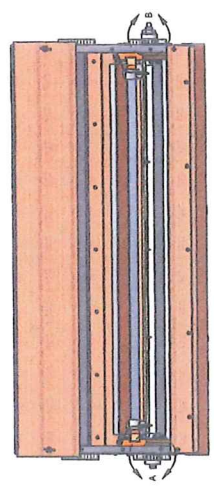
STEP 1: LEFT SIDE VIEW, LOWER ROCKER INSTALLATION



DETAIL A  
SCALE 0.375:1



STEP 2: RIGHT SIDE VIEW, BOTTOM ROCKER INSTALLATION



ITEM	SALES ORDER	DESCRIPTION	QTY
18	FR4621034	2 SCREEN ASSY, MFG PERF METL, 60" X 49"	2
19	FR2071401	2 WASHER, FLT, 7/8" X 1.750" X .062"	2
17	FR2071401	2 STUD, DOWEL, 1/4"-26 X 2.50"	2
16	FR3395840	1 SPOUT, RUB STRAW, 2.5"	1
15	FR3395840	1 SPOUT, RUB STRAW, 2.5"	1
14	FR3395840	1 SPOUT, RUB STRAW, 2.5"	1
13	FR3395840	1 SPOUT, RUB STRAW, 2.5"	1
12	FR3395840	1 SPOUT, RUB STRAW, 2.5"	1
11	FR3395840	1 SPOUT, RUB STRAW, 2.5"	1
10	FR3395840	1 SPOUT, RUB STRAW, 2.5"	1
9	FR3395840	1 SPOUT, RUB STRAW, 2.5"	1
8	FR3395840	1 SPOUT, RUB STRAW, 2.5"	1
7	FR3395840	1 SPOUT, RUB STRAW, 2.5"	1
6	FR3395840	1 SPOUT, RUB STRAW, 2.5"	1
5	FR3395840	1 SPOUT, RUB STRAW, 2.5"	1
4	FR3395840	1 SPOUT, RUB STRAW, 2.5"	1
3	FR3395840	1 SPOUT, RUB STRAW, 2.5"	1
2	FR3395840	1 SPOUT, RUB STRAW, 2.5"	1
1	FR3395840	1 SPOUT, RUB STRAW, 2.5"	1

NOTES:  
 1. NOT SCALE BUSH FINISHING.  
 2. ONE PIECE REQUIRED PER F14400294; CLEANER ASSY, RH W/BRUSHES, SC29D.  
 3. \*LINE ITEM ON SALES ORDER, NOT INCLUDED IN BILL OF MATERIAL.

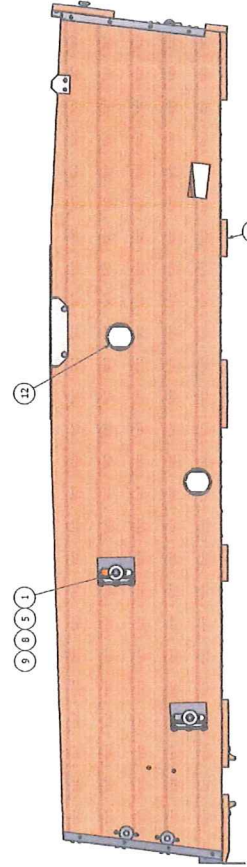
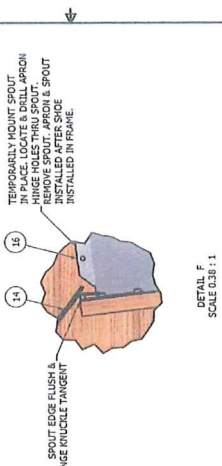
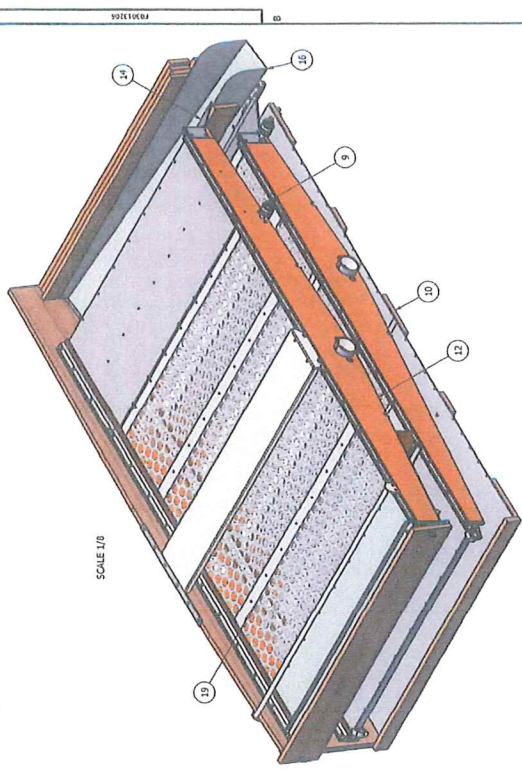
THIS DRAWING IS THE PROPERTY OF THE A. T. FRANK COMPANY, INC.  
 A T. FRANK COMPANY  
 11401 E. ADAMS ST.  
 FORT COLLINS, CO 80526  
 970.226.3100 FAX 970.226.3105  
 WWW.A.T.FRANK.COM PART NO. 4319/1001

REGIONAL SALES OFFICE: 800.542.4545  
 TEL: 970.226.3100 FAX: 970.226.3105  
 WWW.A.T.FRANK.COM

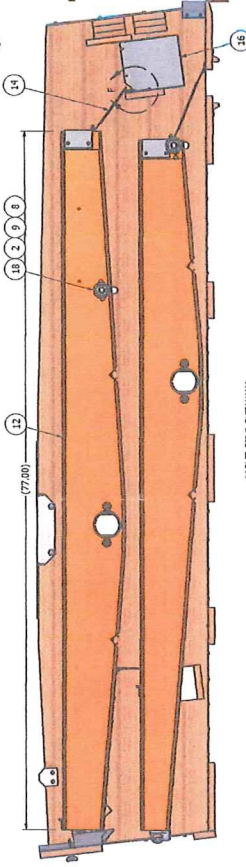
TITLE: ROCKER ASSY, RH BOTTOM W/ROCKERS, SC29D  
 PART NO.: F14400294  
 REV: 1 OF 3  
 DATE: 05/21/13  
 DRAWN BY: [blank]  
 CHECKED BY: [blank]  
 APPROVED BY: [blank]  
 CAD: [blank]

PROJECT: 2021-10-15 10:00 AM 10:00 AM  
 DRAWING: 2021-10-15 10:00 AM 10:00 AM  
 SHEET: 2 OF 3

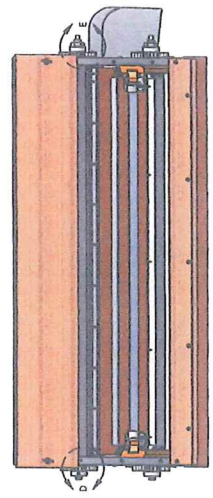
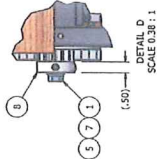
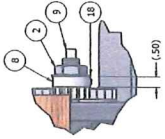
REV	BY	DATE	DESCRIPTION	APPROVED
A	2021/10/15	2021/10/15	WAS GROUP DRAWING, ADD SHEETS 2 & 3	DR
B	2021/10/15	2021/10/15	CONSIDERED	CONSIDERED



STEP 2: LEFT SIDE VIEW, UPPER ROCKER INSTALLATION



RIGHT SIDE CUTAWAY



STEP 2: RIGHT SIDE VIEW, UPPER ROCKER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION
19	SALES ORDER	1	SCREEN ASSY, HEG PERF MTL, 607 X #9
18	F24621024	2	WASHER, FLAT, 7/8 X 1.75 X .052
17	F20271401	2	FLUID, DOWEL, 1/4 X 3 X 2.5"
16	F03089540	1	SPROUT, RH STRAW, 2.5"
15	F03027280	1	APRON ASSY, TEE BRUSHES, 811L SHOE, S23D
14	F03027280	1	APRON ASSY, TEE BRUSHES, 811L SHOE, S23D
13	F03027280	1	ROCKER ASSY, TOP, BOTTOM SHOE, S23D
12	F03027280	1	ROCKER ASSY, TOP, BOTTOM SHOE, S23D
11	F03027280	1	APRON ASSY, 1.25 X 46.50, SEED #9
10	F03013200	1	SHOE ASSY, BOTTOM RH, S23D
9	F01600320	2	SMPT, ROCKER TELT, 7.5 X 46.5
8	F01600320	2	SMPT, ROCKER TELT, 7.5 X 46.5
7	66444000	2	WASHER, LOCK-HEX, 1/8 X 1.75 X .052
6	66444000	2	WASHER, LOCK-HEX, 1/8 X 1.75 X .052
5	66444000	2	WASHER, FLAT, 3/8 X 1.75 X .052
4	66444000	2	WASHER, FLAT, 3/8 X 1.75 X .052
3	66444000	2	WASHER, FLAT, 3/8 X 1.75 X .052
2	66444000	2	WASHER, FLAT, 3/8 X 1.75 X .052
1	66444000	2	WASHER, FLAT, 3/8 X 1.75 X .052

DIVISION OF  
 A. T. PERIN COMPANY, INC.  
 1400 S. WINDYBUSH ST.  
 BILLOPOTON, INDIANA 46106  
 TEL: 317-846-3400 FAX: 317-846-3402  
 WWW.ATPERIN.COM

REVISION	DATE	DESCRIPTION
1	2021/10/15	WAS GROUP DRAWING, ADD SHEETS 2 & 3

NO.	DESCRIPTION	DATE
1	NO MANUAL	2021/10/15

NO.	DESCRIPTION	DATE
1	NO MANUAL	2021/10/15

NO.	DESCRIPTION	DATE
1	NO MANUAL	2021/10/15

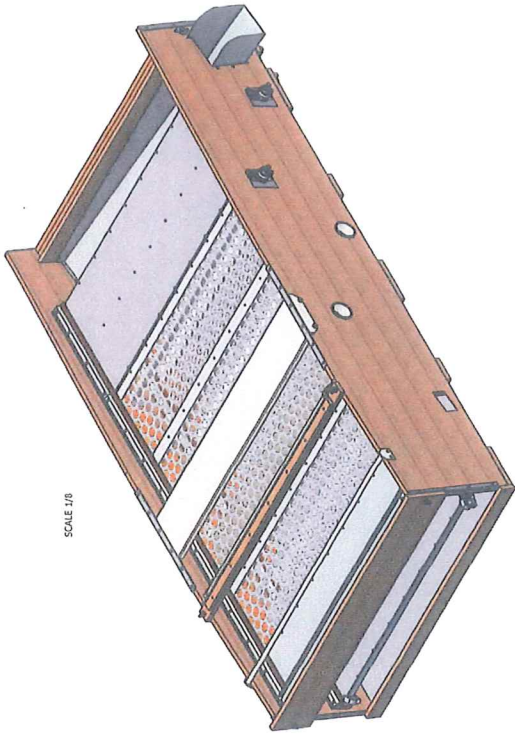
NOTES:  
 1. DO NOT SCALE FROM DRAWING.  
 2. ONE PIECE REQUIRED PER FH-R0204; CLEANER ASSY, RH W/BRUSHES, S23D.  
 3. \* LINE ITEM ON SALES ORDER, NOT INCLUDED IN BILL OF MATERIAL.



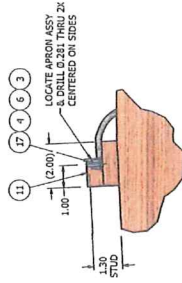
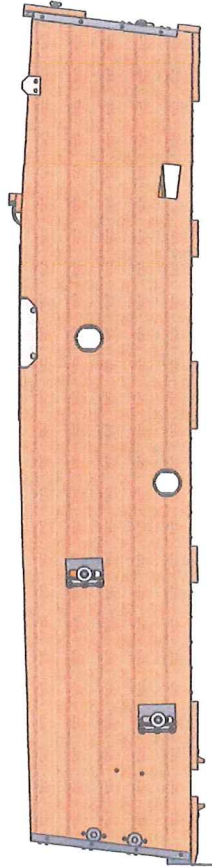
10/11/2018 10:14 AM User: [redacted] [redacted]

REV	ECN	DESCRIPTION	DATE	APPROVED
A	2002000	RELEASED	9/17/2017	DR
B	2126293	WAS GROUP DRAWING, ADD SHEETS 2 & 3	3/17/2018	ENGR2020

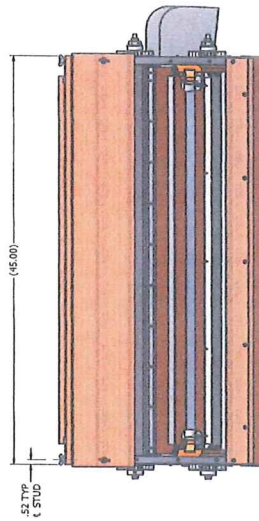
SCALE 1/8



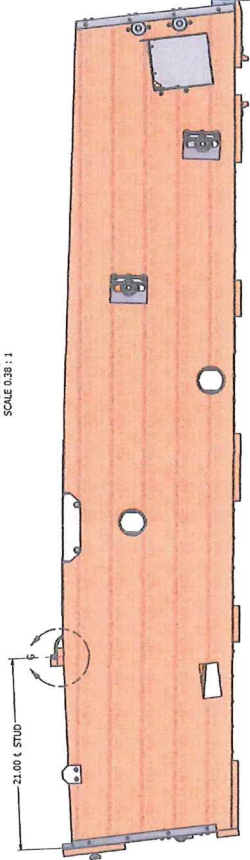
STEP 3: LEFT SIDE VIEW, COMPLETE



DETAIL G SCALE 0.25:1



STEP 3: RIGHT SIDE VIEW, COMPLETE



ITEM	PART NUMBER	QTY	DESCRIPTION
19	SALES ORDER	2	SCREWS ASSY, W/6 PERF MTL, 60° X #9
20	WASHER, FL, 7/32 X 1/2 X 1.062	2	
21	WASHER, FL, 7/32 X 1/2 X 1.062	2	
22	SKOUT, RH STRAW, 2X8	1	
23	APRON ASSY, TELE 8TH ROCKER, BTH SHOE, S2020	1	
24	APRON ASSY, TELE 8TH ROCKER, BTH SHOE, S2020	1	
25	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
26	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
27	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
28	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
29	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
30	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
31	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
32	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
33	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
34	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
35	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
36	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
37	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
38	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
39	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
40	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
41	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
42	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
43	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
44	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
45	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
46	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
47	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
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50	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
51	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
52	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
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62	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
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64	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
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72	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
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76	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
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90	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
91	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
92	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
93	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
94	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
95	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
96	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
97	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
98	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
99	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	
100	ROCKER ASSY, TOP, BOTTOM SHOE, S2020	1	

**FARNELL COMPANY**  
 48714 AURA BLVD  
 ELKHART, IN 46517  
 TEL: 317-533-3300 FAX: 317-533-3305

SHOE ASSY, RH BOTTOM W/ROCKERS, S2020

NO. 100 MANUFACTURING

CAD CHANGES 01c1 3 OF 3

DATE: 3/17/2018

FILE: F00013280

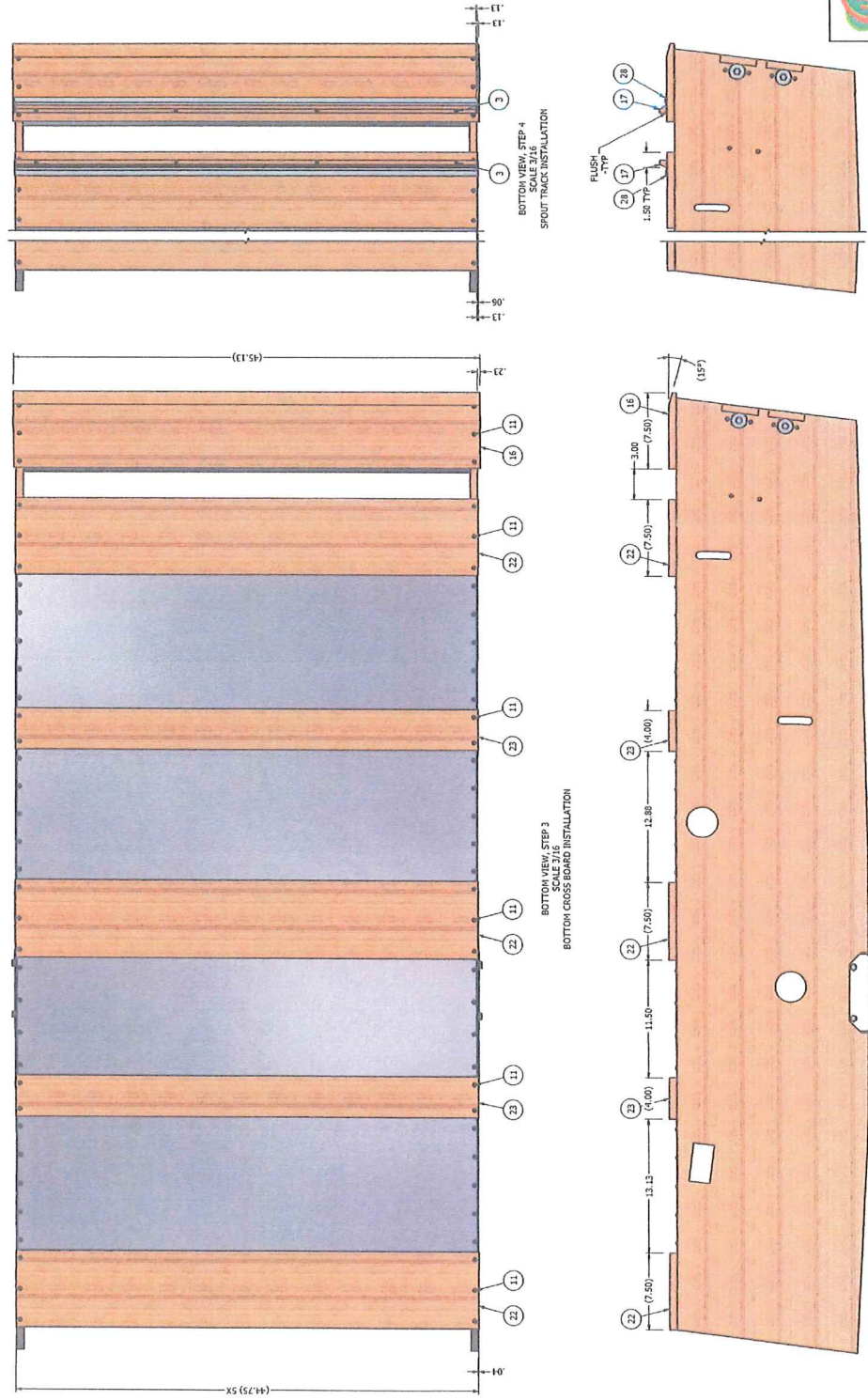
REV: D

NOTES:  
 1. DO NOT SCALE FROM DRAWING.  
 2. ONE PIECE REQUIRED PER #1-4003H- CLEANER ASSY, RH W/BRUSHES, S2020.  
 3. LINE ITEM ON SALES ORDER; NOT INCLUDED IN BILL OF MATERIAL.





REV	SECTION	DESCRIPTION	DATE	APPROVED
A	GENERAL	ISSUE FOR PERMIT	10/22/2015	M
B	GENERAL	REVISED PER PERMIT COMMENTS	10/22/2015	M
C	F120291	REVISION HISTORY	10/22/2015	amphibian



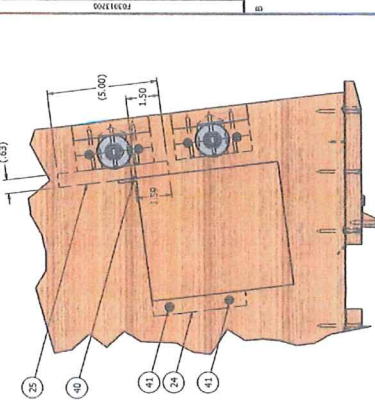
ITEM NUMBER	DESCRIPTION	QTY
36	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
37	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
38	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
39	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
40	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
41	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
42	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
43	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
44	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
45	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
46	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
47	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
48	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
49	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
50	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
51	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
52	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
53	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
54	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
55	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
56	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
57	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
58	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
59	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
60	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
61	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
62	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
63	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
64	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
65	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
66	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
67	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
68	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
69	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
70	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
71	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
72	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
73	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
74	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
75	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
76	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
77	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
78	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
79	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
80	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
81	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
82	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
83	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
84	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
85	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
86	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
87	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
88	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
89	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
90	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
91	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
92	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
93	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
94	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
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96	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
97	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
98	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
99	FRONT LOWER SHOE, 5/8" X 1 1/2"	2
100	FRONT LOWER SHOE, 5/8" X 1 1/2"	2

**CAD**  
 CHANGES: 3 OF 5  
 PART NUMBER: F0014200  
 DATE: 10/22/2015  
 DRAWN BY: M  
 CHECKED BY: M  
 APPROVED BY: M  
 PROJECT: 102325201

**NOTES:**  
 1. DO NOT SCALE FROM DRAWING.

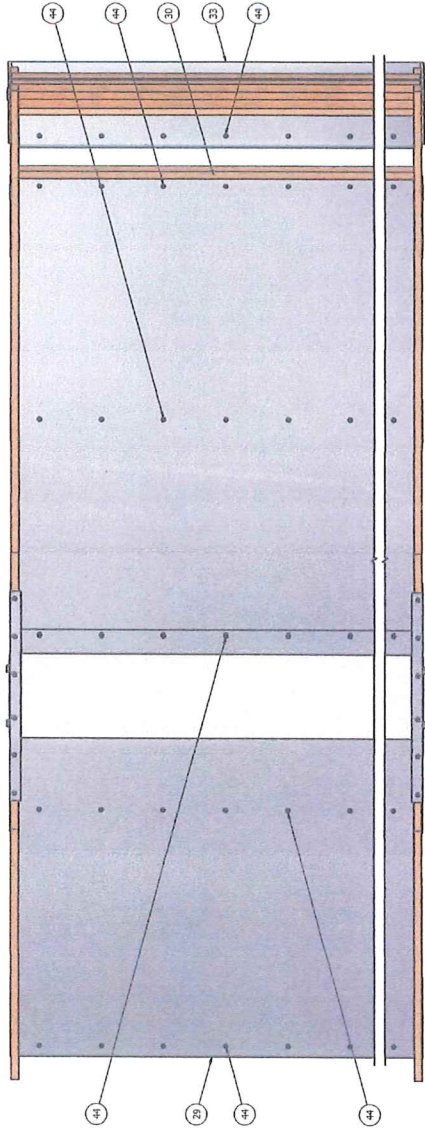


REV	ECO	DESCRIPTION	DATE	APPROVED
A	X000000	9.00, 11.50, 11.1, 11.1, 12.25, 12.25, 12.25"	7/26/1974	DR
B	X000000	REBARAIN CAD, F03243111, WAS F0101710011, F03243110(1) & F032432802(1)	8/31/2012	emphuzion
C	F110000			



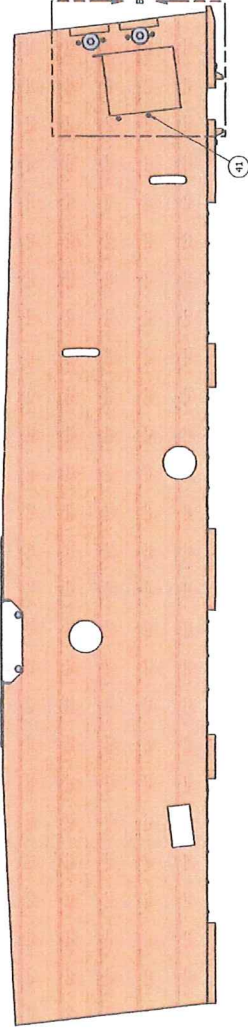
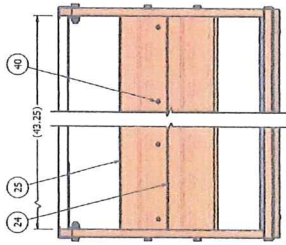
DETAIL B  
SCALE 3 / 8

ITEM	PART NUMBER	QTY	DESCRIPTION
45	F01152005	3,760	R. BELTING, LPRV, 2652, 50645, 13"
46	F04212122	4	SHS, FLT, HD, #4 X 2 1/2"
47	F03243111	2	SHS, PAN 1 HD, #8 X 1 1/2"
48	F0345701	32	SHS, PAN 1 HD, #8 X 1 1/2"
49	F0345701	32	SHS, PAN 1 HD, #8 X 1 1/2"
42	F03450101	12	SHS, PAN 1 HD, #8 X 1 1/2"
41	F03440002	12	SHS, PAN 1 HD, #8 X 1 1/2"
40	F03440001	12	SHS, PAN 1 HD, #8 X 1 1/2"
39	F03400001	15	NAIL, 2 GA, X 3/4", TRMS, 7/25", HD 730455
38	F03400002	15	NAIL, 2 GA, X 3/4", TRMS, 7/25", HD 730455
37	F03400003	15	NAIL, 2 GA, X 3/4", TRMS, 7/25", HD 730455
36	F11038482	2	BRACKET, PITMAN BOARD, 7.50"
35	F032432000	2	DEFLECTOR, GRANI 2.50 X 2.00"
34	F032432114	1	COVER, PITMAN BOARD, 4.67", 290
33	F032432010	1	METAL BOTTOM HOUSING, BOTTOM SHOE, X290
32	F032432010	1	METAL BOTTOM HOUSING, BOTTOM SHOE, X290
31	F032432010	1	METAL BOTTOM HOUSING, BOTTOM SHOE, X290
30	F032432041	1	METAL BOTTOM REAR, BOTTOM SHOE, X290
29	F032432041	1	METAL BOTTOM REAR, BOTTOM SHOE, X290
28	F032432041	1	METAL BOTTOM REAR, BOTTOM SHOE, X290
27	F032432041	1	METAL BOTTOM REAR, BOTTOM SHOE, X290
26	F032432041	1	METAL BOTTOM REAR, BOTTOM SHOE, X290
25	F032432041	1	METAL BOTTOM REAR, BOTTOM SHOE, X290
24	F032432041	1	METAL BOTTOM REAR, BOTTOM SHOE, X290
23	F032432041	1	METAL BOTTOM REAR, BOTTOM SHOE, X290
22	F032432041	1	METAL BOTTOM REAR, BOTTOM SHOE, X290
21	F032432041	1	METAL BOTTOM REAR, BOTTOM SHOE, X290
20	F032432041	1	METAL BOTTOM REAR, BOTTOM SHOE, X290
19	F032432041	1	METAL BOTTOM REAR, BOTTOM SHOE, X290
18	F032432041	1	METAL BOTTOM REAR, BOTTOM SHOE, X290
17	F032432041	1	METAL BOTTOM REAR, BOTTOM SHOE, X290
16	F032432041	1	METAL BOTTOM REAR, BOTTOM SHOE, X290
15	F032432041	1	METAL BOTTOM REAR, BOTTOM SHOE, X290
14	F032432041	1	METAL BOTTOM REAR, BOTTOM SHOE, X290
13	F032432041	1	METAL BOTTOM REAR, BOTTOM SHOE, X290
12	F032432041	1	METAL BOTTOM REAR, BOTTOM SHOE, X290
11	F032432041	1	METAL BOTTOM REAR, BOTTOM SHOE, X290
10	F032432041	1	METAL BOTTOM REAR, BOTTOM SHOE, X290
9	F032432041	1	METAL BOTTOM REAR, BOTTOM SHOE, X290
8	F032432041	1	METAL BOTTOM REAR, BOTTOM SHOE, X290
7	F032432041	1	METAL BOTTOM REAR, BOTTOM SHOE, X290
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4	F032432041	1	METAL BOTTOM REAR, BOTTOM SHOE, X290
3	F032432041	1	METAL BOTTOM REAR, BOTTOM SHOE, X290
2	F032432041	1	METAL BOTTOM REAR, BOTTOM SHOE, X290
1	F032432041	1	METAL BOTTOM REAR, BOTTOM SHOE, X290



TOP VIEW, STEP 5  
SCALE 3 / 16

BOTTOM METAL CROSS BOARD SCREW & SPOUT BOARD INSTALLATION

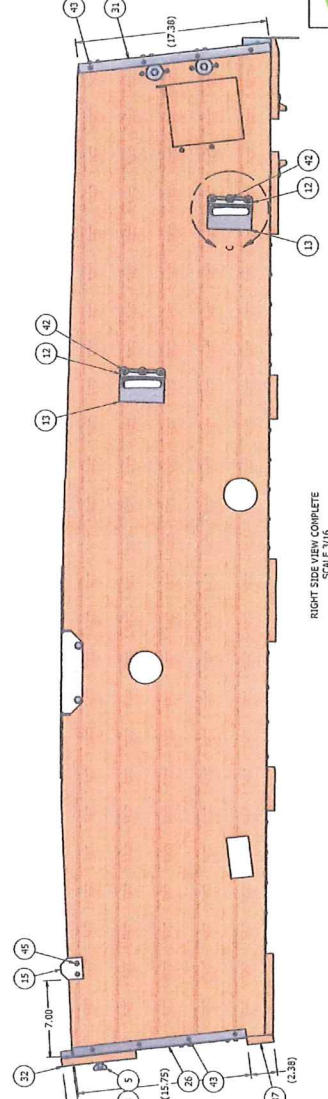
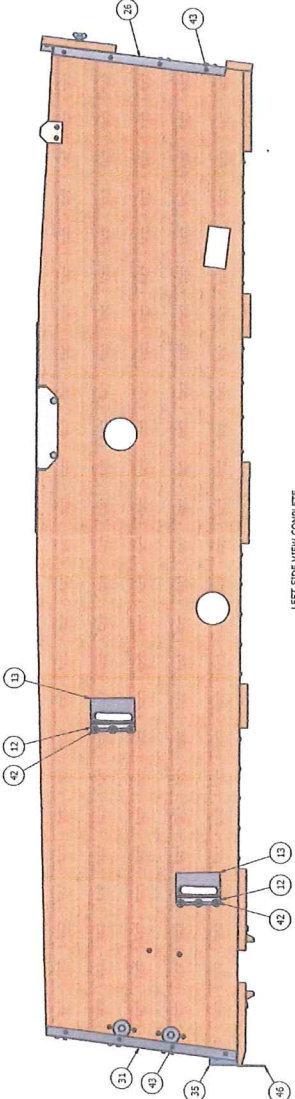
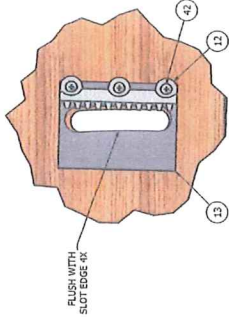


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ITEM	PART NUMBER	QTY	DESCRIPTION
46	F03011200		SHOE ASST, BOTTOM RH, SZ90

NOTES:  
1:00 NOT SCALE FROM DRAWING

REVISION HISTORY	
NO.	DESCRIPTION
1	ISSUED
2	REVISED
3	REVISED
4	REVISED
5	REVISED
6	REVISED
7	REVISED
8	REVISED
9	REVISED
10	REVISED
11	REVISED
12	REVISED
13	REVISED
14	REVISED
15	REVISED
16	REVISED
17	REVISED
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29	REVISED
30	REVISED
31	REVISED
32	REVISED
33	REVISED
34	REVISED
35	REVISED
36	REVISED
37	REVISED
38	REVISED
39	REVISED
40	REVISED
41	REVISED
42	REVISED
43	REVISED
44	REVISED
45	REVISED
46	REVISED



ITEM PART NUMBER	DESCRIPTION
3760 B	BELTING, L-PLY, 6502, 50x45, 13"
4	SNIS, FLT X HD #8 X 3/4"
45	F8421212
9	SNIS, PAN X HD #8 X 3/4"
41	F835402
12	SNIS, PAN X HD #8 X 1 1/8"
43	F8345011
13	SNIS, PAN X HD #8 X 1 1/8"
41	F8240302
12	SNIS, FLAT CROSS HEAD 410 X 1.25"
40	F8240301
19	SNIS, FLAT CROSS HEAD 410 X 1.50"
39	F8240002
15	NAIL, 14 GA, 3/4" TRHD, 7/32" HD T304SS
38	F8273011
2	STUD, DOWEL, 1/2-20 X 2.50"
32	F1130562
2	BRACKET, FITMAN BOARD, 7.50"
35	F03328700
2	DEFLECTOR, GRAMIN 2.50 X 2.00"
34	F03323114
1	COVER, FITMAN BOARD, 4.57" X 2.50"
33	F03323010
1	METAL, BOTTOM HOUSING, BOTTOM SHOE, X250
32	F03323111
1	DOOR ASSY, ERM SHOE GRAMIN DEFLECTOR, X250
31	F03320444
1	METAL, BOTTOM REAR, BOTTOM SHOE, X250
29	F03320431
1	METAL, BOTTOM FRONT, BOTTOM SHOE, X250
28	F03201001
2	SLIDE, SPOUT, SHOE, 250
27	F03300500
2	STAMP, FITMAN, SHOE SIDE, 250/250D
26	F03300500
2	END IRON, BOTTOM SHOE, 250/250D
25	F03124200
1	BOARD, END SPOUT, ERM SHOE, X250D
23	F03124100
2	BOARD, BOTTOM CROSS, 4.00" X 2.50D
22	F03124000
3	BOARD, CROSS, BOTTOM SPOUT, X250D
21	F03123902
1	BOARD, FITMAN, X250
20	F03123802
1	SHOE, LH, ERM, RH DISCH, X250/250D
19	F03101111
2	BOARD ASSY, HAIRGR, 3.50 X 4.5
17	F03101210
2	BOARD, SPOUT TRACK, 250
16	F03101104
1	BOARD, BOTTOM HOUSING, SHOE, X250
15	F03002802
1	GIRT W/DHMT, SHOE, X250
14	F01855200
4	WASHER, FLAT, .065 X 1.50 X .12
13	F01855100
4	WASHER, FLAT, .065 X 1.50 X .12
11	F01855100
4	WASHER, FLAT, .065 X 1.50 X .12
11	200105231
32	SCW, HEX, FLT HD #8 X 2.00"
10	66784400
4	NUT, HEX, SERA, LOCK, 3/8-16
9	66444400
4	WASHER, LOCK, HELICAL, 3/8"
8	66443300
2	WASHER, LOCK, HELICAL, 1/4"
7	66444400
2	WASHER, FLAT, .065 X 1.50 X .12
5	66443300
2	WASHER, FLAT, .065 X 1.50 X .12
3	66443300
2	NUT, WING, 1/4-20 TYPE B, STYLE 1
4	66664400
4	NUT, HEX, 3/8-16
3	66552226
15	SNIS, FLT X HD #8 X 1.25"
2	62558442
4	PHCS, 3/8-16 X 3.00"
1	62558442
4	PHCS, 3/8-16 X 3.00"

A.T. FERRELL COMPANY  
 1000 W. 10TH AVENUE  
 BLUFFTON, SOUTH CAROLINA 29910  
 TEL: 803-252-2400 FAX: 803-252-2400  
 WWW.ATFERRELL.COM

DRAWING NO. 1000-1000-1000  
 SHEET NO. 14  
 TOTAL SHEETS 14  
 DATE 03/17/2017  
 DRAWN BY [Name]  
 CHECKED BY [Name]  
 APPROVED BY [Name]

TITLE: SHOE ASSY, BOTTOM RH, X250  
 DIVISION OF: [Name]  
 PROJECT NO.: [Name]  
 PROJECT NAME: [Name]

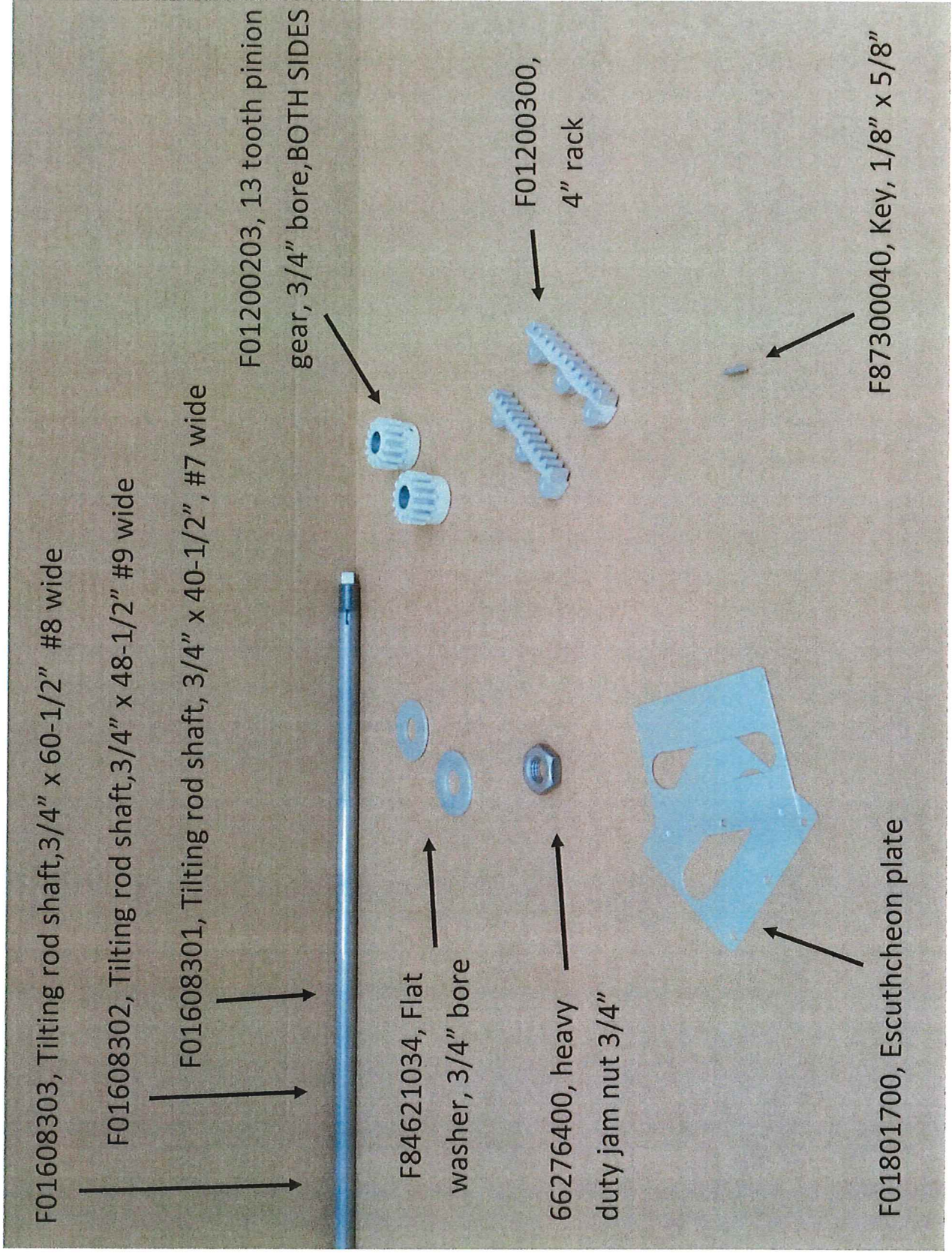
SCALE: 1:1  
 SHEET NO.: 14  
 TOTAL SHEETS: 14  
 DRAWING NO.: 1000-1000-1000  
 PROJECT NO.: [Name]  
 PROJECT NAME: [Name]

ORIGINAL: [Name]  
 FRACTIONAL: [Name]  
 1/2: [Name]  
 3/4: [Name]  
 1: [Name]  
 2: [Name]  
 3: [Name]  
 4: [Name]  
 5: [Name]  
 6: [Name]  
 7: [Name]  
 8: [Name]  
 9: [Name]  
 10: [Name]  
 11: [Name]  
 12: [Name]  
 13: [Name]  
 14: [Name]

CAD NO MANUAL CHANGES  
 NO. 1  
 DATE: [Name]  
 BY: [Name]

NOTES:  
1. DO NOT SCALE FROM DRAWING.

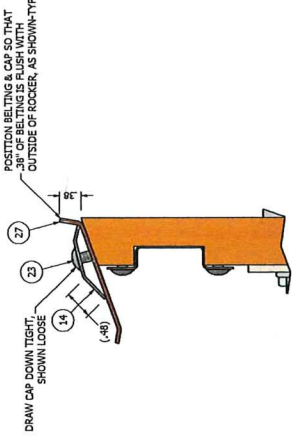




# Screen rocker adjusting assembly

REV	CON.	DATE	APPROVED
A	F1302011	9/17/2012	ambroson
B	F1302011	9/17/2012	ambroson
C	F1302013	4/27/2013	ambroson

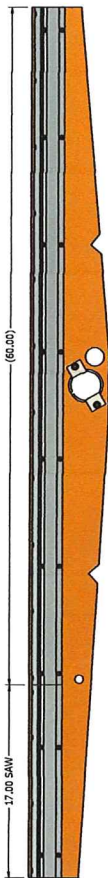
REVISION HISTORY	DESCRIPTION
A	REDRAWN CAD, WAS SIZE GROUP DRAWING
B	ROTATE ROCKER, CLIPS 30 DEG



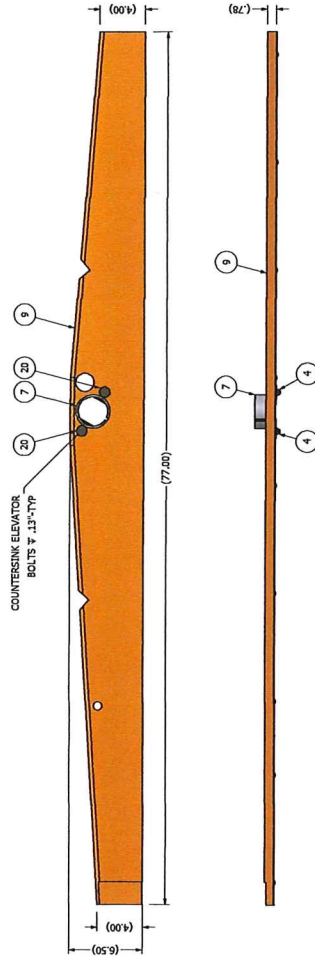
DETAIL A  
SCALE 1:1



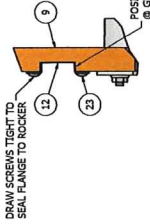
DETAIL B  
SCALE 1:1



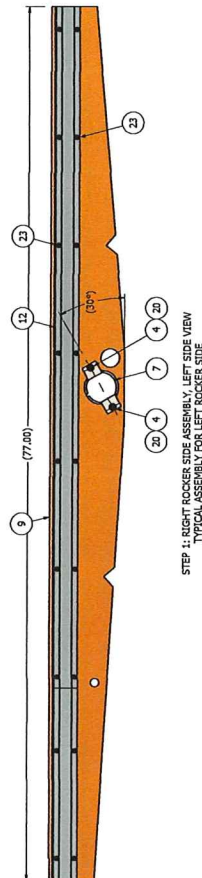
STEP 2: RIGHT ROCKER SIDE ASSEMBLY, LEFT SIDE VIEW  
TYPICAL ASSEMBLY FOR LEFT ROCKER SIDE



STEP 3: RIGHT ROCKER SIDE ASSEMBLY, LEFT SIDE VIEW  
TYPICAL ASSEMBLY FOR LEFT ROCKER SIDE



DETAIL C  
SCALE 1:2



STEP 4: RIGHT ROCKER SIDE ASSEMBLY, LEFT SIDE VIEW  
TYPICAL ASSEMBLY FOR LEFT ROCKER SIDE

ITEM	PART NUMBER	DESCRIPTION
27	F1132005	13.167 R. BELTING, 3 PLY FIBERS 2.50 X 79.00"
26	F10005101	1 GRT WLDMT. ROCKER ADJUSTMENT, CENTERED, #9
25	F14212122	8 SHS. FLT X HD #8 X 3/4"
24	F14212122	8 SHS. PAN X HD, #10 X 3/4"
23	F14212122	8 SHS. PAN X HD, #8 X 3/4"
22	F14212122	8 SHS. PAN X HD, #10 X 1.50"
21	F14212122	8 SHS. PAN X HD, #8 X 1.50"
20	F14212122	8 SHS. PAN X HD, #10 X 1.50"
19	F11320211	1 COVER, APRON, AD GRT, ROCKER, #9
18	F113202499	1 MOUNT, APRON, ROCKER, #9
17	F103856000	2 ANGLE SCREEN STOP, ROCKER
16	F103856000	1 BLANK ASSY, TOP/BTM ROCKER, BTM SHOE, S2X5D
15	F103856000	1 BOTTOM METAL ASSY, TOP RGR, BTM SHOE, S2X5D
14	F103856000	1 BOTTOM METAL ASSY, BTM RGR, BTM SHOE, S2X5D
13	F103856000	2 CAR. RUBBER HOLDING, ROCKER, 12.00"
12	F103856000	2 LINER WLDMT, SCREENWAY, ROCKER, 77.00"
11	F103856000	2 BRACE, BOTTOM, ROCKER, #9
10	F103856000	1 SIDE, LH, TOP ROCKER, BTM SHOE, S2X5D/S2X9D
9	F103856000	1 SIDE, RH, TOP ROCKER, BTM SHOE, S2X5D/S2X9D
8	F103856000	2 SCREEN HOOD ASSY, STANDARD
7	F103856000	2 SCREEN HOOD ASSY, STAINLESS
6	F103856000	1 GRAB STOP ASSY, ROCKER, 2.50" X #9
5	700165211	6 SCW, DECK FLT HD #6 X 2.00"
4	66783300	4 NUT, HEX SERR LOCK, 10-24
3	66782600	6 NUT, HEX SERR LOCK, 10-24
2	66782600	6 WASHER, FLAT, #8
1	66782626	6 BOLT, CARB, 10-24 X 1.25"

**Legend**

**REVISIONS**

NO.	DATE	BY	DESCRIPTION
1	09/17/2012	ambroson	INITIAL RELEASE
2	09/17/2012	ambroson	REVISION
3	04/27/2013	ambroson	REVISION

**DESCRIPTION**

ROCKER ASSY, TOP, BOTTOM SHOE, S2X5D

**DATE** 09/17/2012  
**BY** ambroson  
**APP'D** ambroson  
**CHK'D** ambroson  
**DATE** 09/17/2012

**CAD CHANGES** 1 OF 3  
**PART NUMBER** F103601800  
**REV** C

**NOTES:**

1. DO NOT SCALE FROM DRAWING.

2. TWO PIECES REQUIRED PER R20014645/046 SHOE ASSY, RHL-A ADD FITCH BOTTOM, S2X59D.

3. TWO PIECES REQUIRED PER R20014645/046 SHOE ASSY, RHL-A ADD FITCH BOTTOM, S2X59D.





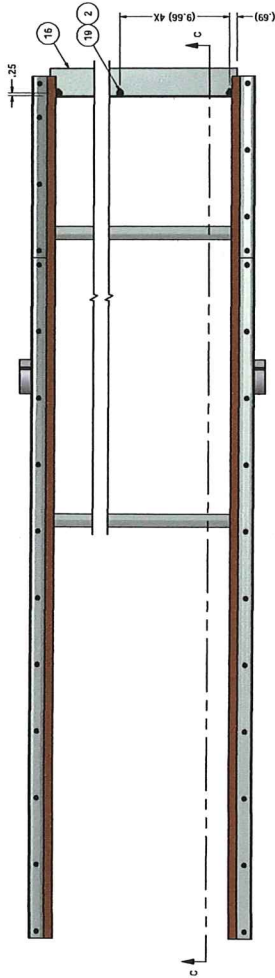
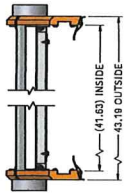
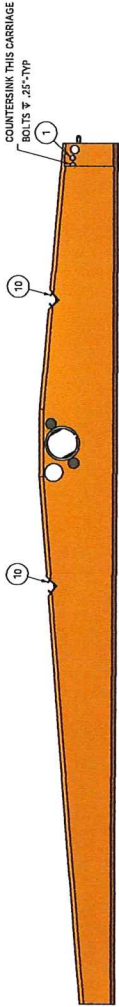
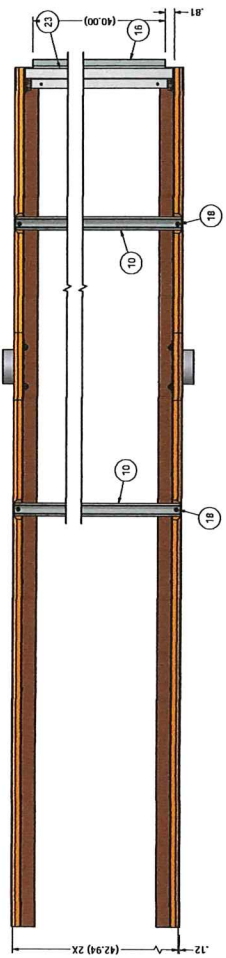






REV	EN	DATE	APPROVED
A	F130053	8/17/2012	DR
B	F130053	8/17/2012	GR
C	F130052	4/2/2013	ENGINEERING

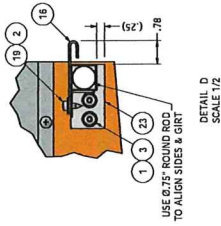
REVISION HISTORY
DESCRIPTION
REDRAWN CAD, WALKER SIZE GROUP DRAWING
NOTATE ROCKER CUPS 3D BLDG



STEP 3: GIRTS INSTALLATION, TOP VIEW



SECTION C-C



USE 0.75" ROUND ROD TO ALIGN SIDES & GIRTS  
DETAIL D  
SCALE 1/2"

ITEM	QTY	DESCRIPTION
24	13,000 L	BELTING, 3 PLY FMSK 2.50 X 78.00"
23	F90005304	1 GIRTS W/DMT, ROCKER ADJ., TELESCOPING, #9
22	F8421212	8 SMS, FLT X HD #8 X 3/4"
21	F8421403	8 SMS, PAN X HD #8 X 3/4"
20	F8421404	8 SMS, PAN X HD #8 X 3/4"
19	F8421201	5 SMS, PAN X HD #8 X 1/2"
18	F8440201	4 SMS, FLAT GROSS HEAD #10 X 1.50"
17	F82021407	4 BOLT, ELEV 1/4-20 X 1.25"
16	F11302511	1 COVER, APRON, ADJ GIRTS, ROCKER, #8
15	F03806000	2 ANGLE, SCREEN STOP, ROCKER
14	F03803300	1 BRANK ASSY, TOP/DMT, ROCKER, BTM SHOE, SX28D
13	F03803300	1 BRANK ASSY, TOP/DMT, ROCKER, BTM SHOE, SX28D
12	F03801100	2 CAP, RUBBER HOLDING, ROCKER, 18.00"
11	F03802412	2 LINER W/DMT, SCREENWAY, ROCKER, 76.00"
10	F03802001	2 BRACE, BOTTOM, ROCKER, #9
9	F04301505	1 SIDE, LH, BTM ROCKER '6', BTM SHOE, SX28D/SX28D
8	F03801504	1 SIDE, RH, BTM ROCKER '6', BTM SHOE, SX28D/SX28D
7	F03806000	2 SCREEN HIGH ASSY, STANDARD
6	F03806000	2 SCREEN HIGH ASSY, STANDARD
5	F03731009	1 GRAB STOP ASSY, ROCKER, 2.50' X 4#
4	165783300	4 NUT, HEX SERR, LOCK, 1/4-20
3	165782800	4 WASH-HER, FLAT, 1/4"
2	165402200	5 BOLT, CARR, 1/2-24 X 1.25"
1	160282626	4 BOLT, CARR, 1/2-24 X 1.25"

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BLUFFTON, INDIANA  
P.O. BOX 100  
P.O. BOX 100  
P.O. BOX 100  
P.O. BOX 100

**TOLERANCES UNLESS OTHERWISE SPECIFIED:**  
DIMENSIONS: ±0.005"  
ANGLES: ±0.1°  
HOLE DIA: ±0.005"  
HOLE DIA: ±0.005"  
HOLE DIA: ±0.005"  
HOLE DIA: ±0.005"

**ROCKER ASSY, BOTTOM, BOTTOM SHOE, SX28D**

**CAD CHANGES:** 01/13 2 OF 3

**PROJECT:** F03502000

**DATE:** 01/13

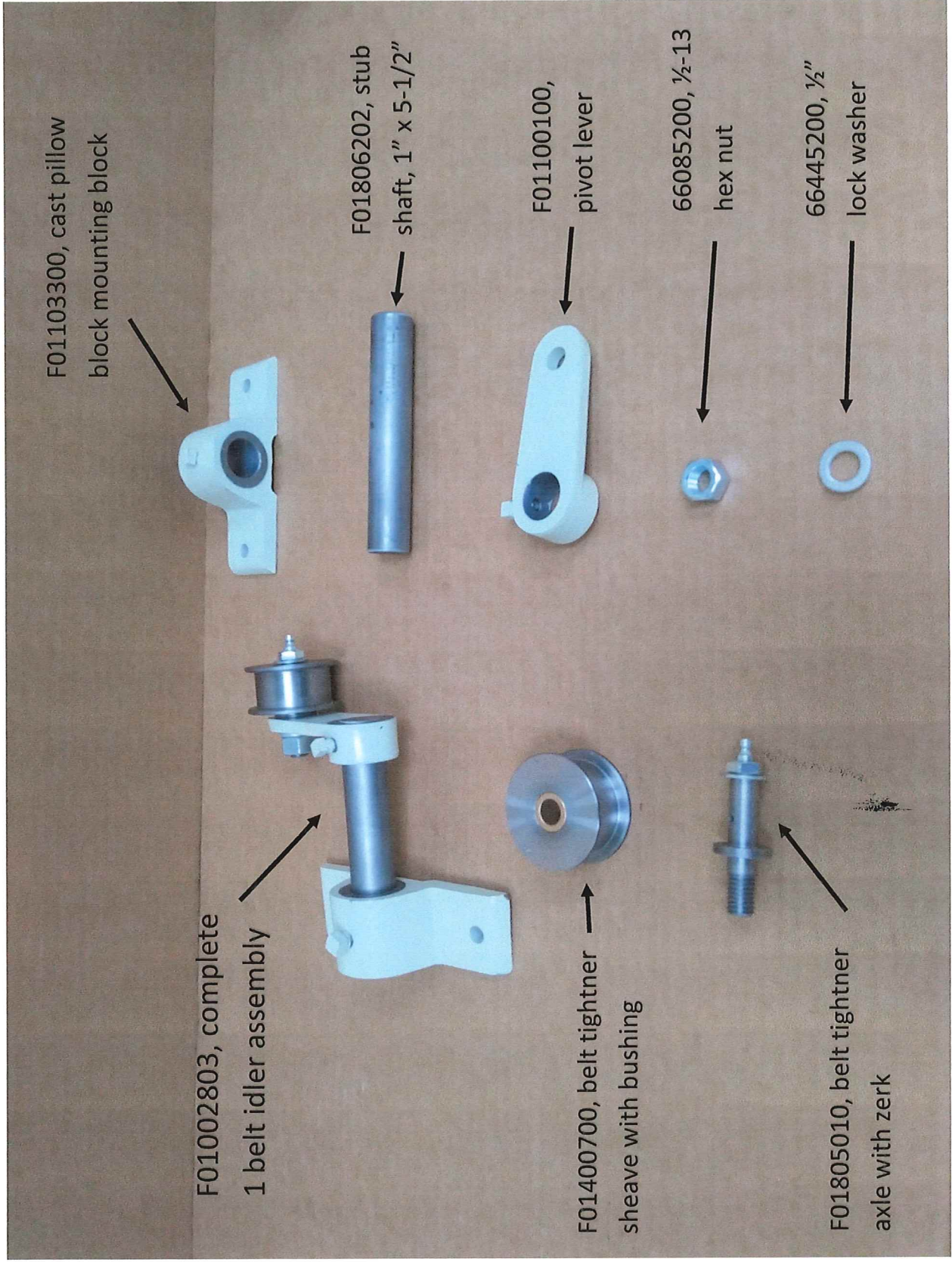
**SCALE:** C

NOTES:  
1. DO NOT SCALE FROM DRAWING.  
2. TWO PIECES REQUIRED PER 130018460/66; SHOE ASSY, REAR ADJ. PITCH BOTTOM, SX28D.  
3. TWO PIECES REQUIRED PER 130018460/66; SHOE ASSY, REAR ADJ. PITCH BOTTOM, SX28D.

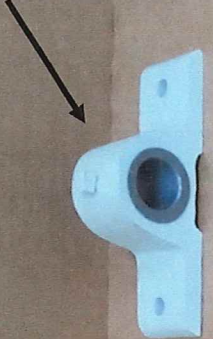








F01103300, cast pillow  
block mounting block



F01806202, stub  
shaft, 1" x 5-1/2"



F01100100,  
pivot lever



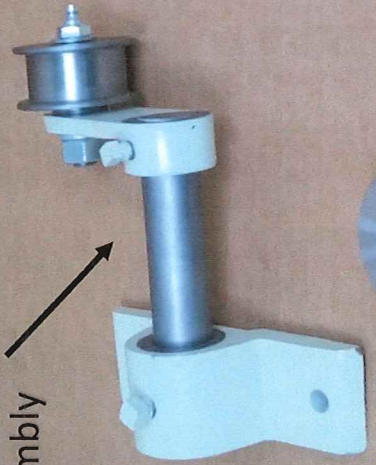
66085200, 1/2-13  
hex nut



66445200, 1/2"  
lock washer



F01002803, complete  
1 belt idler assembly



F01400700, belt tightener  
sheave with bushing

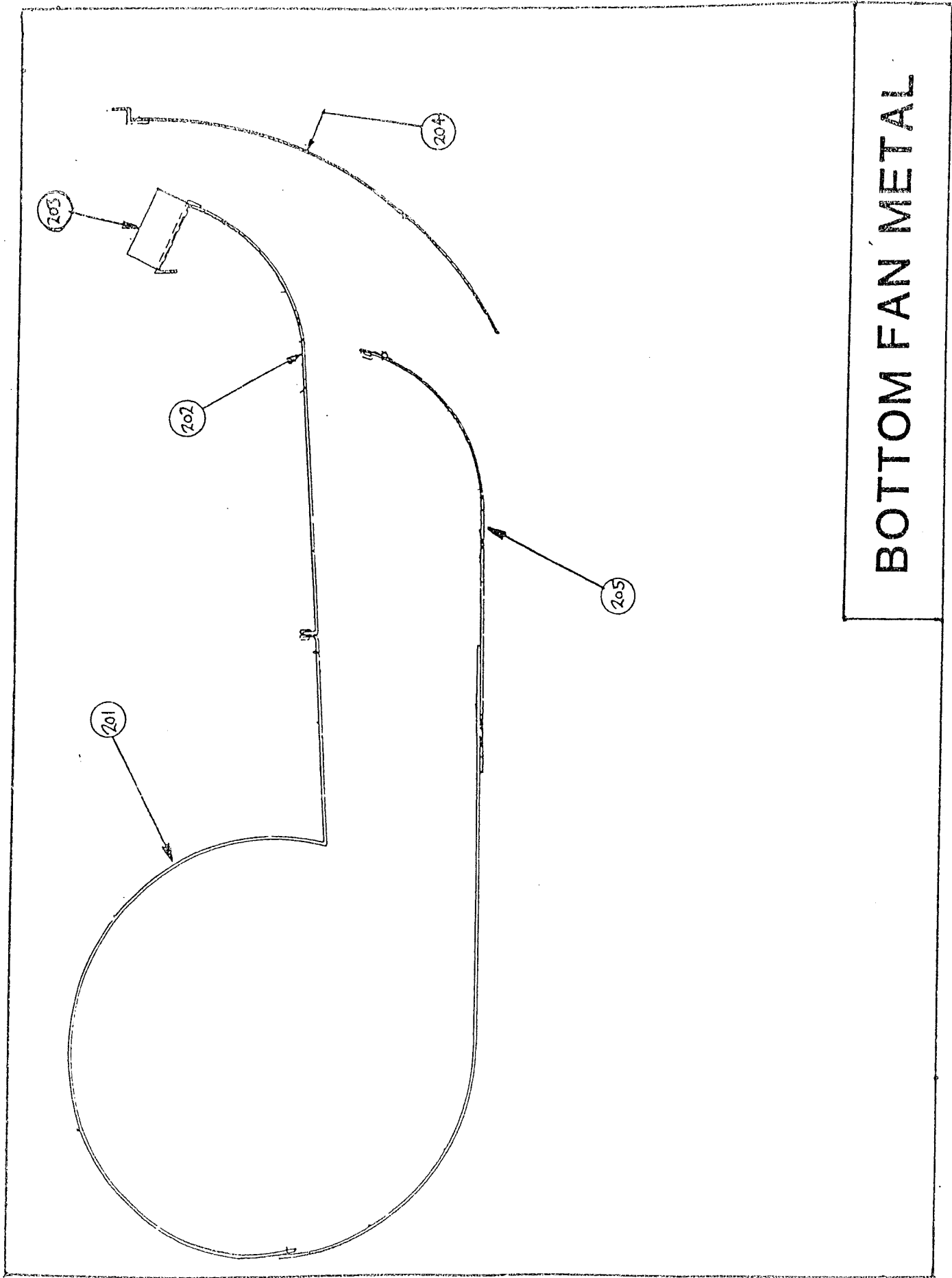


F01805010, belt tightener  
axle with zerck

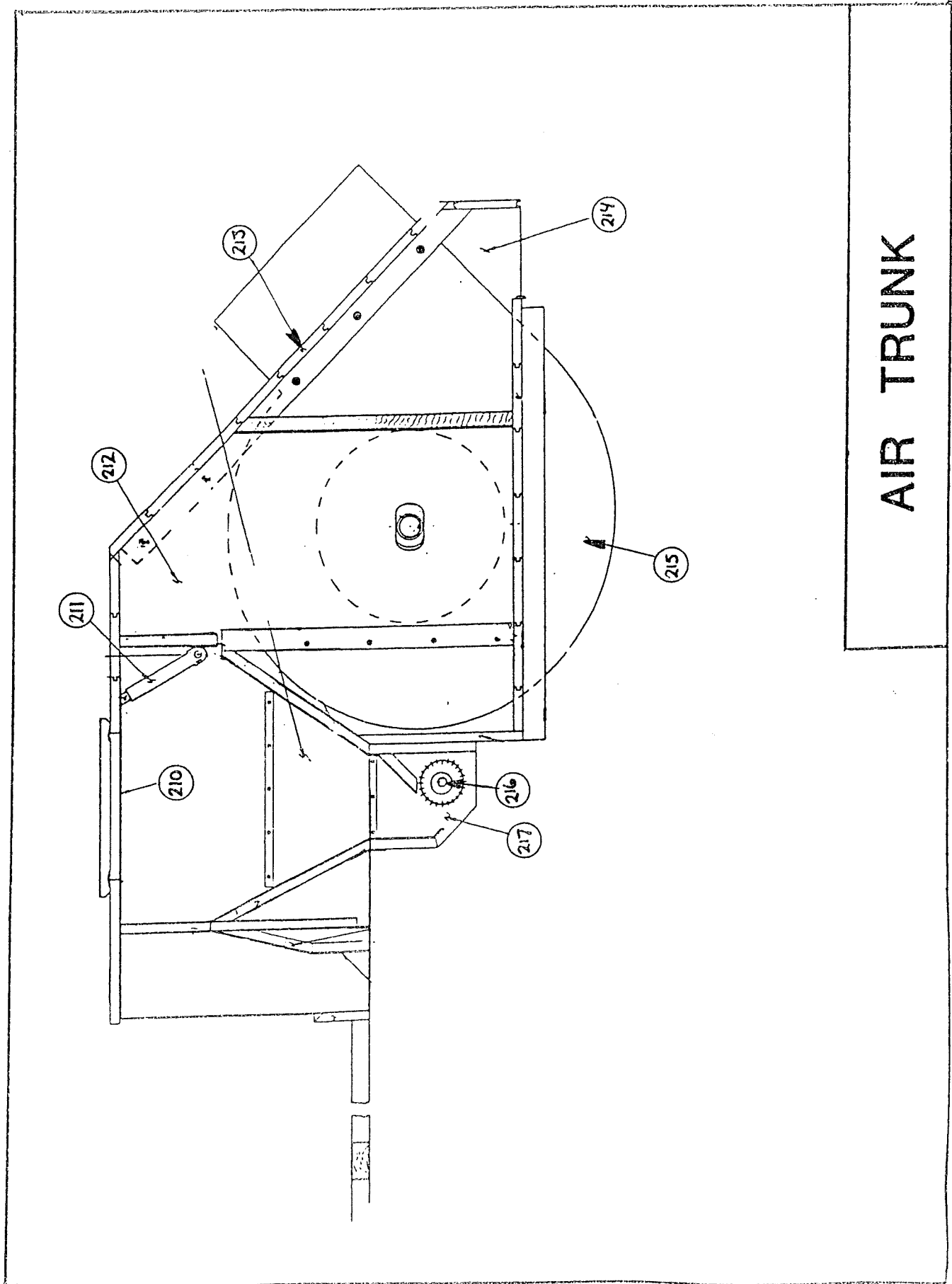


# Belt tightener assembly





**BOTTOM FAN METAL**



AIR TRUNK