SERVICE MANUAL

AND

PARTS CATALOG

FOR YOUR

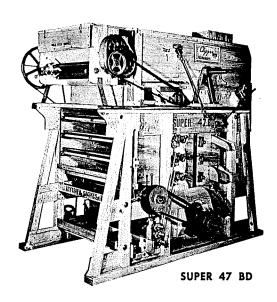
SUPER 47B

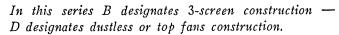


Grain, Seed and Sean Pleaners

THE SUPER 40 SERIES

Grass and Clover Seed Cleaners





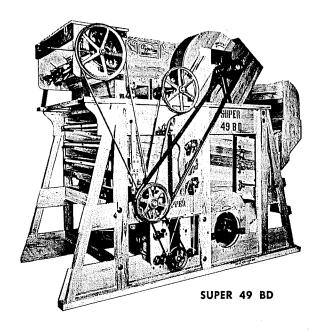
The last numerical digit in the model number indicates the width of screens $-8 = 54 \times 60$ inch frame, $9 = 42 \times 60$ inch frame and $7 = 34 \times 42$ inch frame.

This Super 40 Series contains the following 12 models:

3-screen dustless	3-screen single fan
498-BD	4 98-B
49-BD	49 - B
4 7 -BD	47-B
2-screen dustless	2-screen single fan
2-screen dustless 498-D	2-screen single fan 498-A

Standard equipment of each of these models includes the following Clipper features:

- Clipper Bottom Blast Fan controlled by the variable air regulator
- Adjustable Pitch Screens for determining the speed of the seed travel over the screens
- Double Traveling Screen Brushes under each screen to automatically keep screens clean
- Instant Acting Brush Adjustment to compensate for bristle wear
- Anti-Friction Bearings throughout (ball bearing eccentrics and main bearings)
- V-belt Drives



The three-screen models in this classification such as the 47-BD and 49-BD (illustrated above) do an exceptional cleaning job on clovers and grass seeds.

for example — when cleaning red clover —

- 1. A 3/64 x 5/16 top screen removes dock, hares ear mustard, ragweed and other weed seeds only slightly larger than the clover.
- 2. A 1/15 or 1/16 middle screen is the smallest round hole screen that will pass the good seed and remove sticks, stems and other trash only slightly larger than the clover.
- 3. The properly selected lower screen, usually a 6 x 22 wire mesh, will make a thorough separation of small weed seeds, dirt and immature seeds of the crop being cleaned.

The three-screen dustless models, for reasons above, permit close, thorough cleaning of clovers and grasses that would otherwise have to be run twice through a two-screen machine and even through a 60 Series cleaner when the short scalper screen cannot be selected for close work.

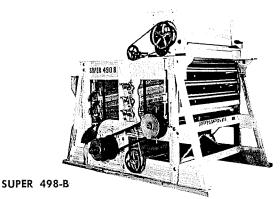
These models will also effectively clean Grains, Beans and Peas for seed stock, however, the factory recommends the special screen arrangement advantages of the 60 Series models.

Two-screen models are used extensively where one top screen and one lower screen separation is adequate to do the job. In other words, when two top screen separations are unnecessary (refer to reverse page describing the two-screen models).

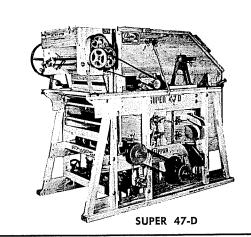
SUPER 40 SERIES

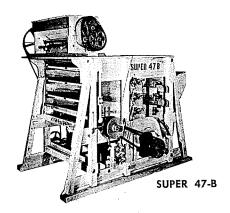
The two-screen cleaners are built approximately 7 inches lower in overall height than the three-screen models making them suitable for installations which require minimum head room.

Four of the 40 Series models can be supplied (as a packaged unit) with their own twin elevating system. This arrangement is completely illustrated and described on the Super 100 Series catalog page.



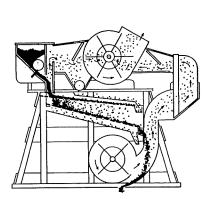
Shown with Cotton Seed Hopper recommended for cotton seed, brome and other grass seeds likewise difficult to feed.





OPERATIONAL DETAILS FOR 2 SCREEN DUSTLESS CLEANING

The diagram at the right indicates the cleaning action of dustless type cleaners with two screens. As the seed is discharged from the hopper in a uniform layer across the full width of the top screen, it passes through an air leg connected to one of the top suction fans and dust and light chaffy material is removed. The heavier trash settles in the large settling chamber and is discharged at the side of the cleaner. The light dust is blown into the dust house or cyclone collector. After the seed passes through the top scalping screen and over the bottom sifting screen, it enters the vertical air column of synchronized blast and suction for a final, rapid air separation by weight to select only the choice, plump, full-weight kernels. The top suction fan on the left, synchronized with the bottom blast fan, removes the light-weight foreign material and dust left after the screening action. The heavier material removed settles in the settling chamber and the dust is blown out into the dust house or cyclone collector.



SPECIFICATIONS — CAPACITIES Screen Cleaning Brushes on all Super 40 Series models are powered by the No. 80 Roller Chain Brush Drive.

SUPER 47-A

Model number	47-A	47-B	47-D	49-A	49-B	498-A	498-B	47-BD	49-D	498-D	49-BD	498-BD	
Screen size	34 x 42	34 x 42	34 x 42	42 x 60	42 x 60	54 x 60	54 x 60	34 x 42	42 x 60	54 x 60	42 x 60	54 x 60	
Bu, per hr.—Seeds	30-50	30-50	30-50	60-80	60-80	75-100	75-100	30,50	60-80	75-100	60-80	75-100	
Bu, per hr.—Seed grain	50-100	50-100	50-100	100-150	100-150		130-200	50-100	100-150	130-200	100-150	130-200	
Bu, per hr.—Beans	75-150	75-150	75-150	200-300	200-300	250-400	250-400	75-150	200-300	250-400	200-300	250-400	
No. of screens in cleaner.	2	3	2	2	3	2	3	3	2	2	3	3	
No. of screens furnished	12	12	12	12	12	12	12	12	12	12	12	12	
Extreme length	79"	79"	91"	107"	107"	119"	107"	91"	114"	114"	114"	114"	
Extreme width	59"	59"	62"	73"	73"	85"	85"	62"	73''	85"	73′′	85"	
Width between sills	38"	38"	38"	46"	46"	58''	58"	38"	46"	58"	46"	58"	
Height to top of hopper	69"	76"	76"	72''	80"	72''	80"	83"	81"	81"	87''	87"	
Height to drive shaft	28"	28"	70"	29"	29"	29′′	29"	70"	76"	76"	76"	76"	
Drive shaft speed (RPM)	410	410	900	410	410	410	410	900	900	900	900	900	l
Horsepower required	11/2	11/2	5	3	3	3	3	5	71/2	10	71/2	10	Į
Shipping weight (lbs.)	1200	1300	1800	2000	2100	2200	2350	2000	2800	3000	2900	3200	ĺ
Simbling Meight (m2.)	1200	1 .000	1 .500	2000	2.00			1	-500	1	İ	1	í

SUPER 47B CLEANER PARTS SET UP WITH BRUSH SCREEN CLEANING

BRUSH SCREEN CLEANING SYSTEM

ITEM No.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
38	7	F01004901	3	Brush Adjusters - Idler Side (Left Hand Side)
**	7	F01004902	3	Brush Adjusters - Idler Side (Right Hand Side)
43	7	F01106300	3	Idler Arm Support
**	7	F82080060	3	Bolt for Brush Adjusters (Both Sides)
39		Not Available	3	Brush Adjusters-Control Side (Left Hand Side)
**	7	F01003002	3	Brush Adjusters - Control Side (Right Hand Side)
42	7	F01105400	3	Adjustment Handle with Spring, (9.5" long)
**	7	F82080060	3	Bolt for Brush Adjusters (Both Sides)
		F01000200	8	Rope Sheave Assembly Complete See attached picture
		F09500600	2	Brush Carrier Assembly 15" x 27" (Brushes not included) See attached picture 10
		F97700003 F01612107	35 2	Wirelon Plastic Coated Steel Cable (In Feet) Brush Carrier Shafts 1 3/16" x 44-9/16" <u>SEE NOTE BELOW</u>

NOTE: SOME OLDER MACHINES HAVE A 1" BRUSH CARRIER SHAFT THAT IS TURNED DOWN TO 3/4" ON EACH END (F01605804) AND USE 1" ROLLERS (F09501300)

^{**}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.

BOTTOM FAN ASSEMBLY With 1-1/2" Shaft

NO.	NO.	NUMBER	QTY.	DESCRIPTION
		F01632400		Fan Shaft 1-1/2" X 59" (Includes Keys) See attached pictures 11 & 12
		Not Available F92400022		6715 Halfmoon Bridgetree Housing with Bearing Bearing Insert Only for Above

BOTTOM FAN ASSEMBLY With 1-3/16" Shaft

NO.	PAGE NO.	PART NUMBER	QTY	DESCRIPTION
		F01608000	1	Fan Shaft 1-3/16" x 53" See attached pictures 11 & 12

ECCENTRIC SHAFT ASSEMBLY With 1-1/2" Shaft

ITEM No.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
		F01603800		Eccentric Shaft 1-1/2" X 58" (Includes Keys) See attached pictures 15 & 16
		Not Available F92400022 F92053126 F01104600 F19805200	2 1 1 2 1	6714 Halfmoon Flange Bearing (Old Style Housing) 1-1/2" Bearing Insert Only for Above 6714 Flange Bearing Conversion Kit Counterweight Ends Counterweight 19-13/16"
		F19503600	2	1-1/2" Throw Eccentric Assembly Complete See attached picture 15B

F01002803 1 Belt Idler Assembly Complete 5-1/2"
See attached picture

MAIN SHOE ASSEMBLY

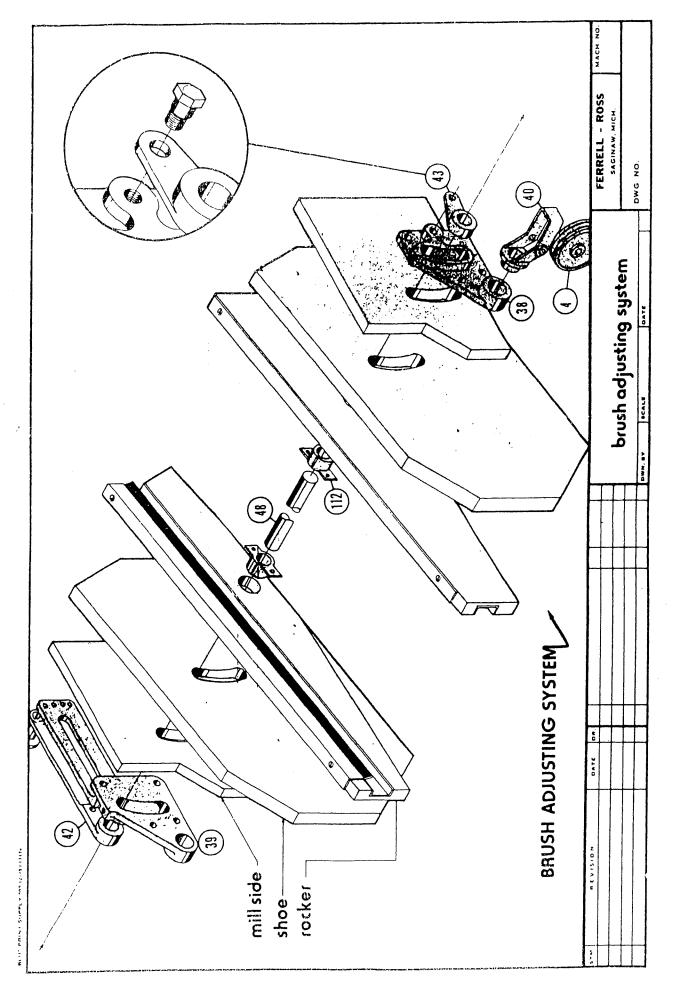
ITEM No.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
		F0300940-	1	Bottom Shoe Complete with Rockers (NOT AVAILABLE)
		F03121501	1	Right Shoe Side
		F03121502	1	Left Shoe Side
		F03109500	1	Pitman Board 3/4" x 7-1/2" x 37"
		F03016510	2	Front Hanger with Block, Both Sides
		F03102601	2	Shoeside Hanger Support Block
		F03016520	2	Back Shoe Hanger with Block
		F03101720	2	Wood Sand Spout Track (Cut to Length)
		F03301002	2	Metal Sand Spout Guide (Cut to Length)
		F08306302	1	Sand Spout Left Hand Machines (Check Measurements)
		F08306301	1	Sand Spout Right Hand Machines (Check Measurements)
		F08301101	1	Straw Spout Left Hand Machines (Check Measurements)
		F08301100	1	Straw Spout Right Hand Machines (Check Measurements)
		F08301101	1	Second Straw Spout Left Hand Machines (Check Measurements)
		F08301100	1	Second Straw Spout Right Hand Machines (Check Measurements)
		F08305700	1	Straw Spout-Machines Built after 1974 (Check Measurements)
		F03401500	1	Canvas Apron Assembly
		F03501300	2	Top and Middle Rocker Assembly Complete See attached drawing
		F03501200	1	Bottom Rocker Assembly Complete See attached drawing

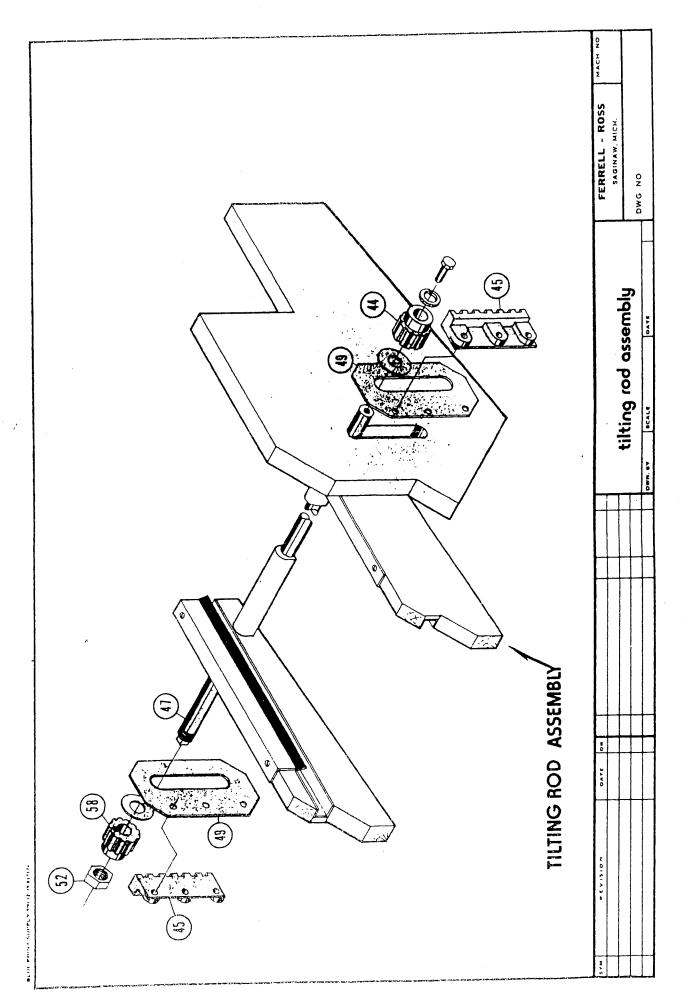
Note: Front of the Machine is Where the Screens are Insertsed Into the Machine. Discharge Spouts are Determined by Standing at the Front and Facing the Machine. Right Hand Discharge Spouts Would Discharge Towards Your Right Hand.

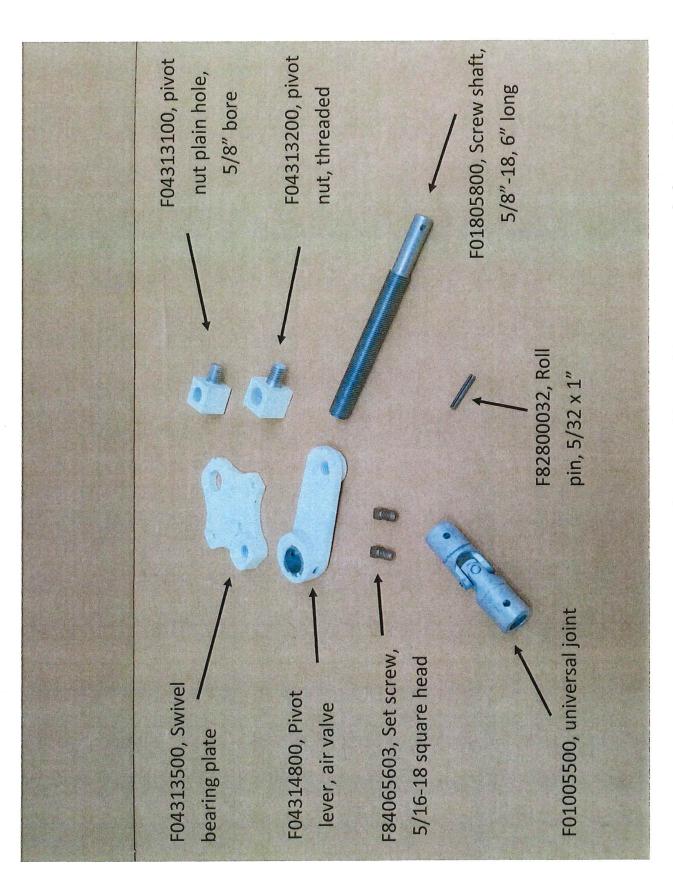
The Following Are the Ball Tray Kit Parts That were Installed on the Super 47 Cleaners in the Past

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

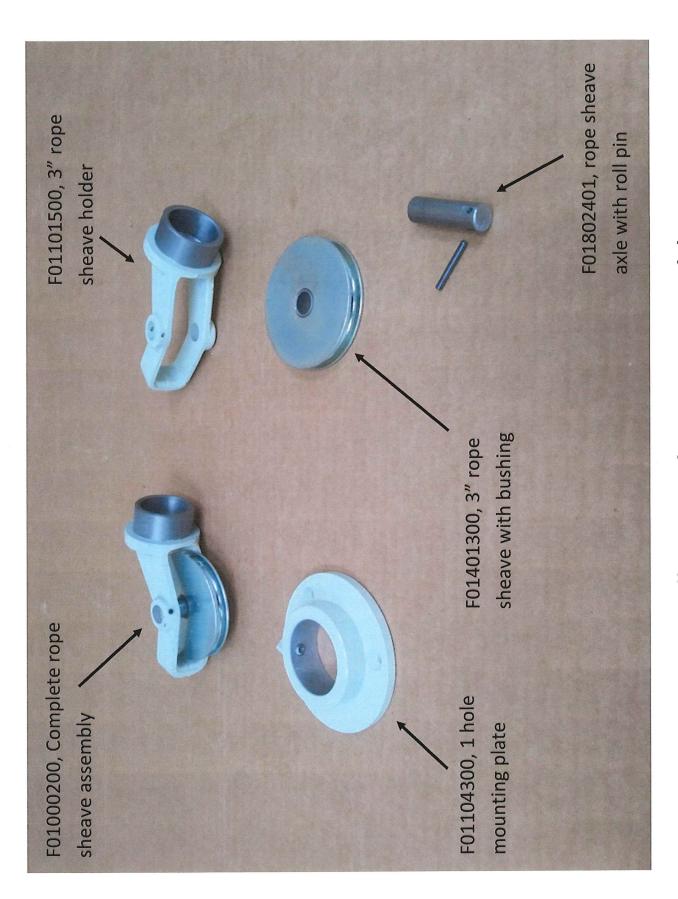
F90005067	3	Ball Tray Weldment for 1 Piece Screens (New Style)
F80026101	216	Black 1-3/8" Balls
F11301710	6	Ball Tray Support Rail 23"
F11301716	6	Ball Tray Support Rail 14"



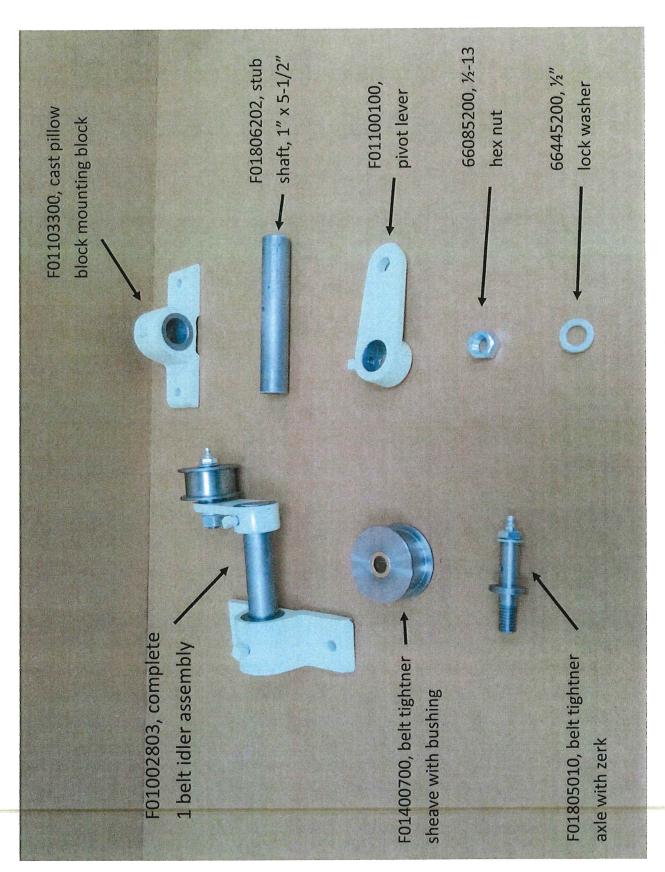




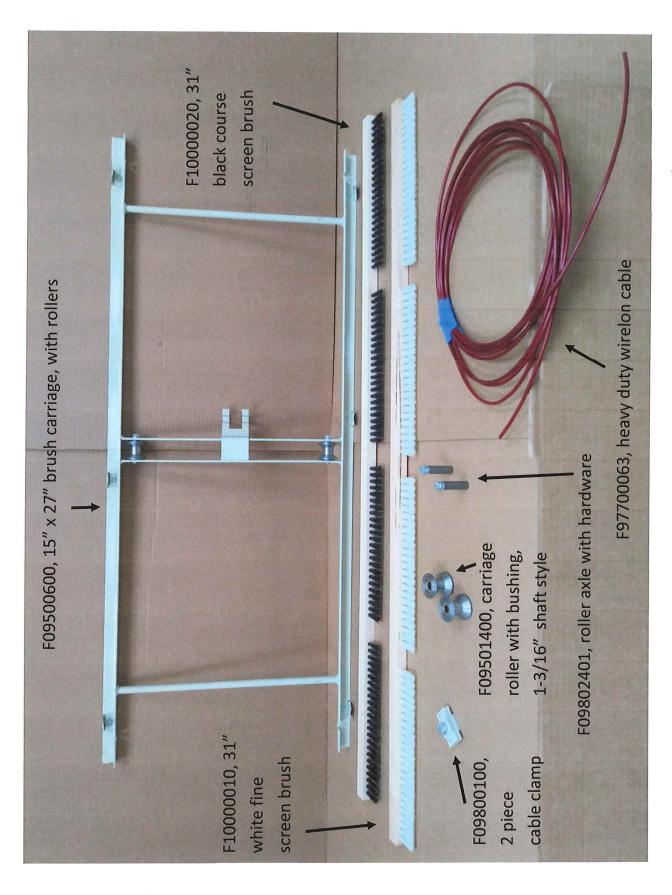
F01013500, Gate valve adjusting assembly, ALL



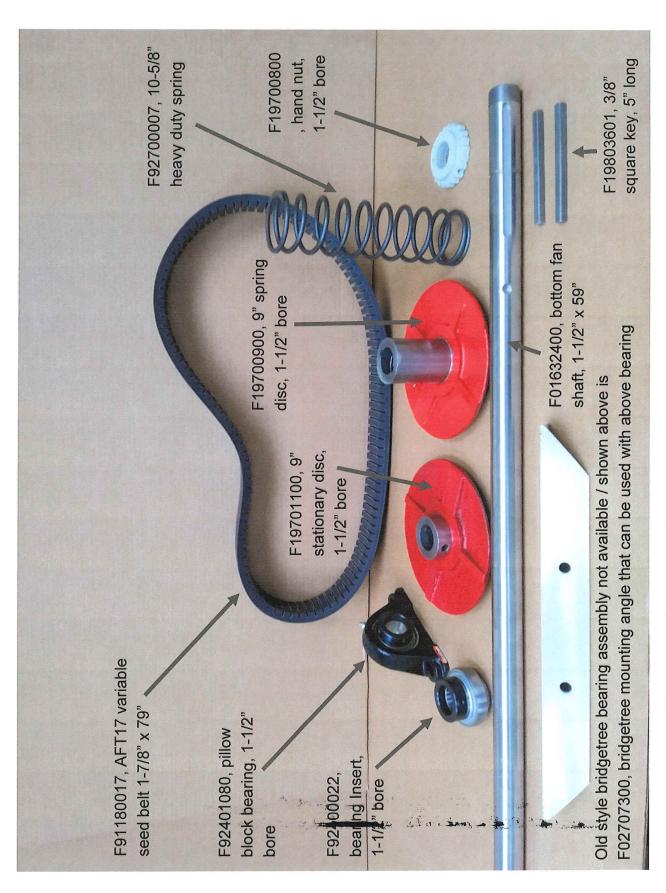
3" Rope sheave assembly



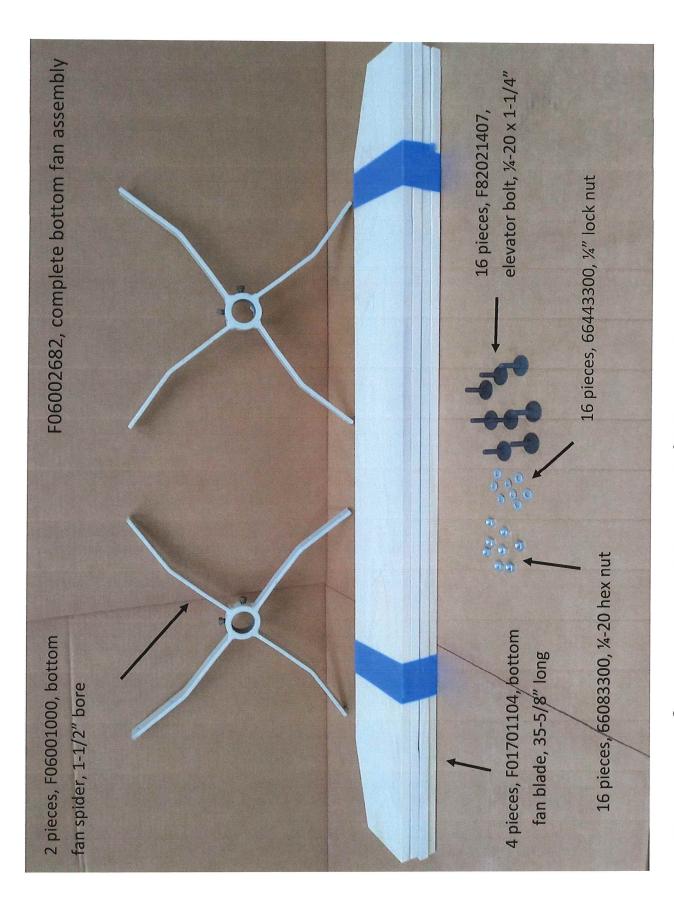
Belt tightner assembly



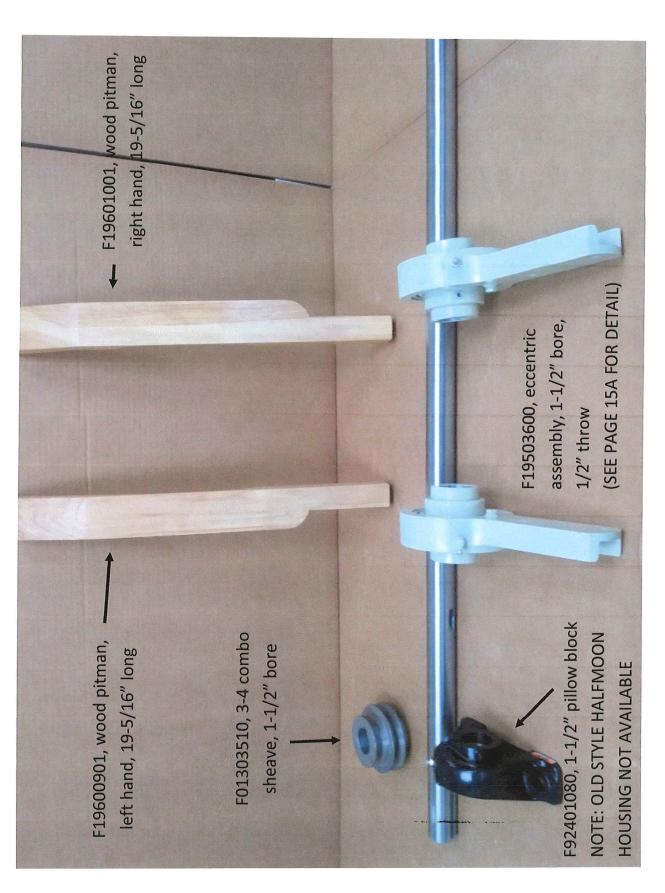
Brush carriage, with accessories, page 10



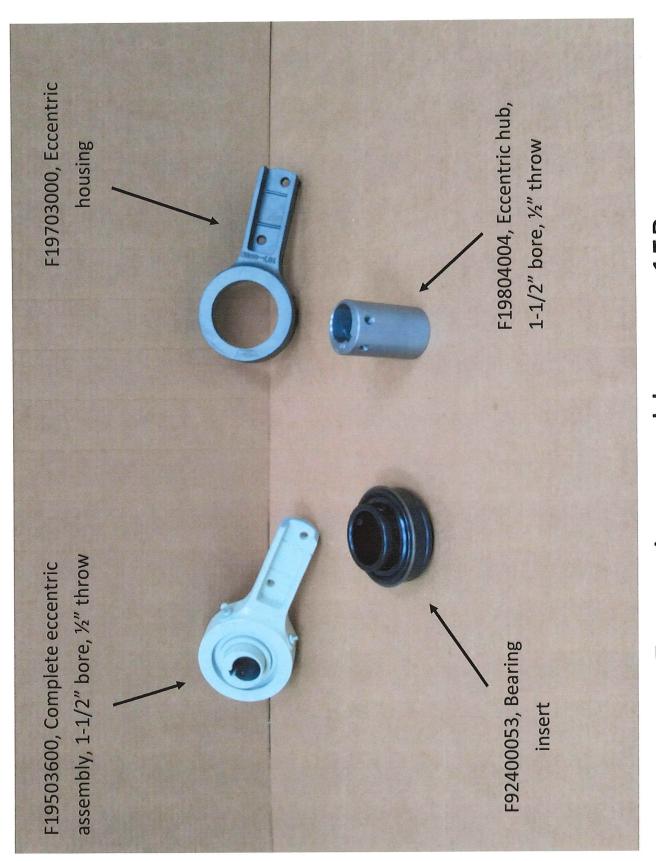
Bottom fan shaft assembly assembly, page 11



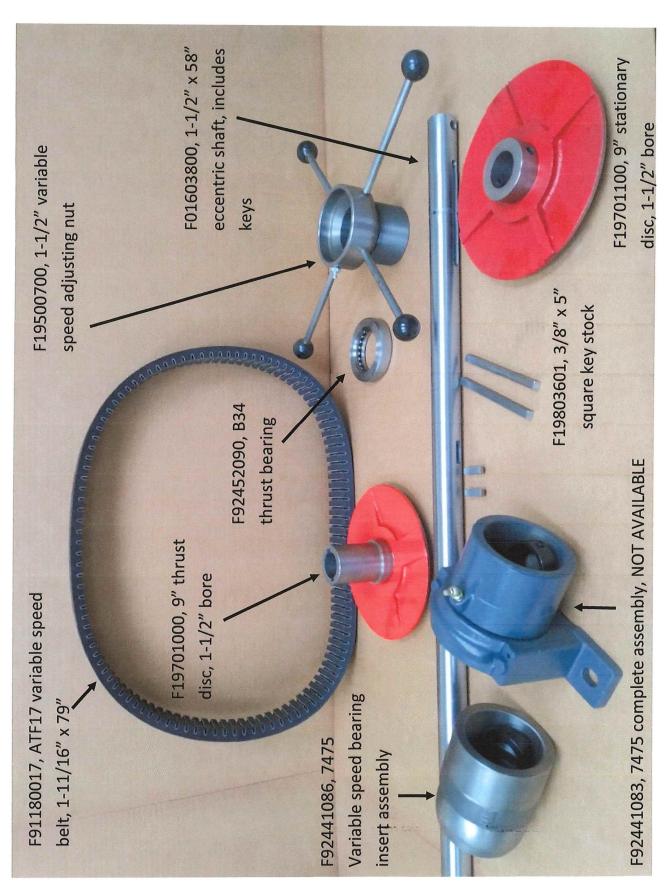
Bottom fan assembly, 1-1/2" shaft, 7 wide, page 12



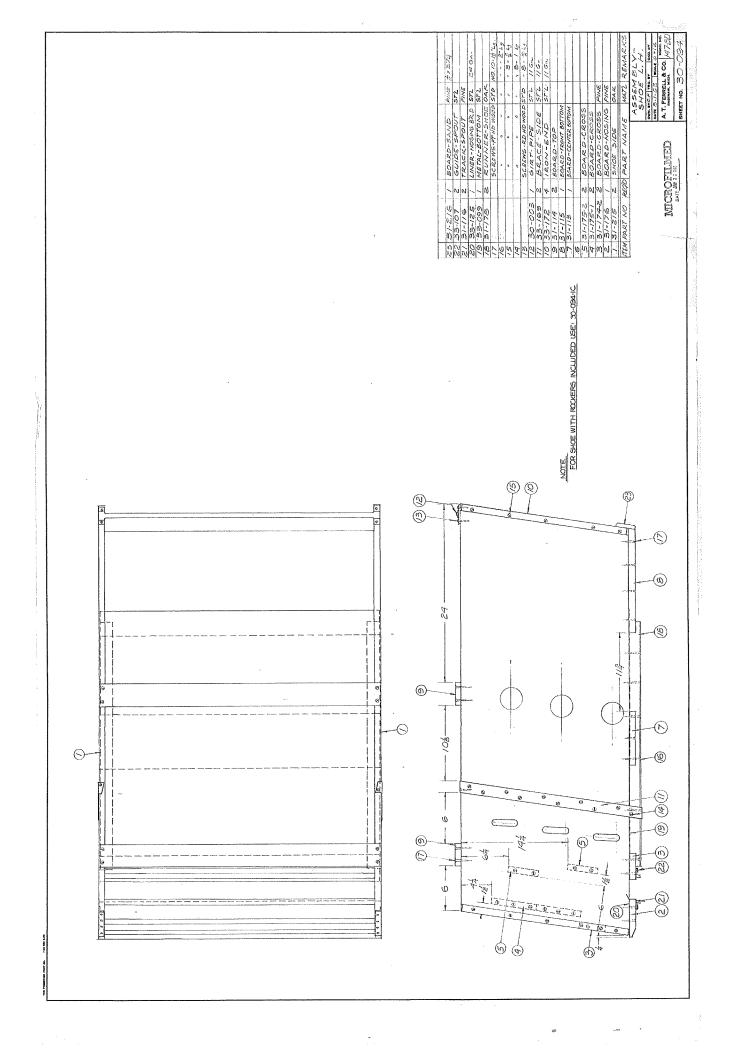
Eccentric shaft, wood pitmans, page 15

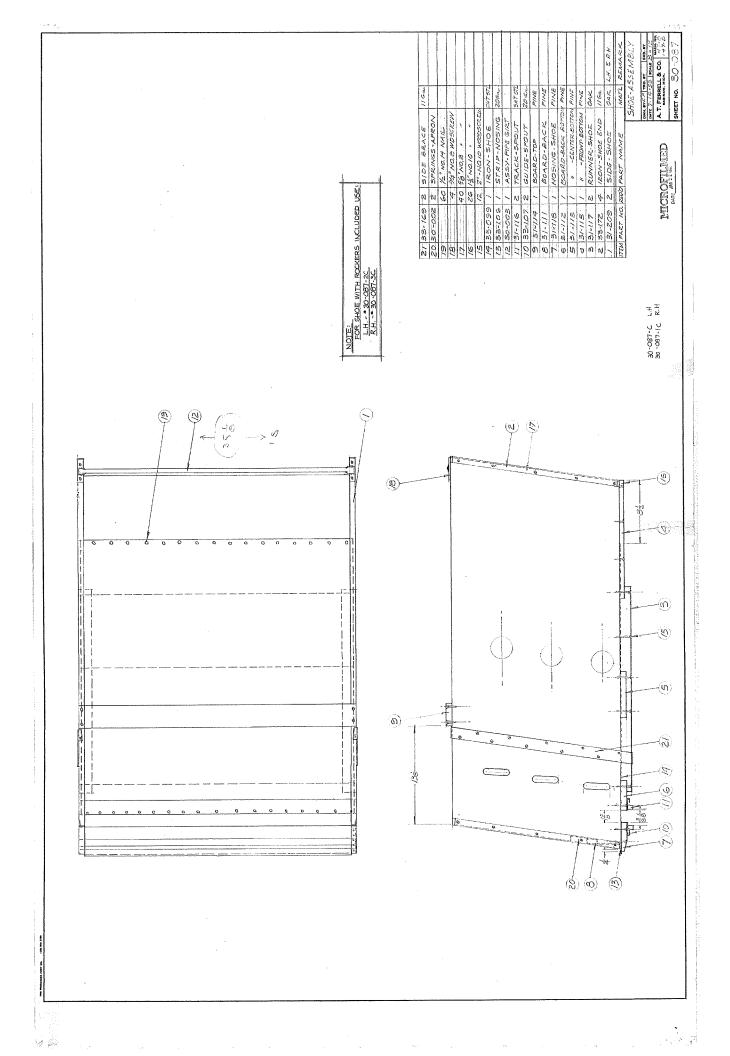


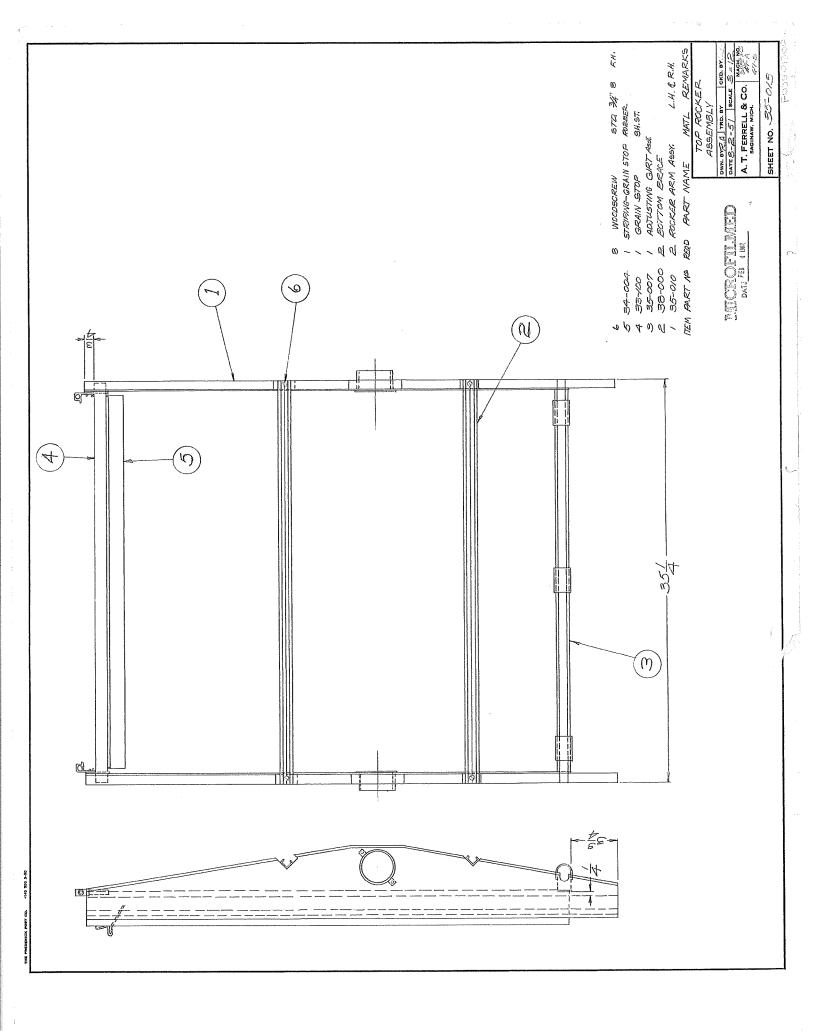
Eccentric assembly, page 15B

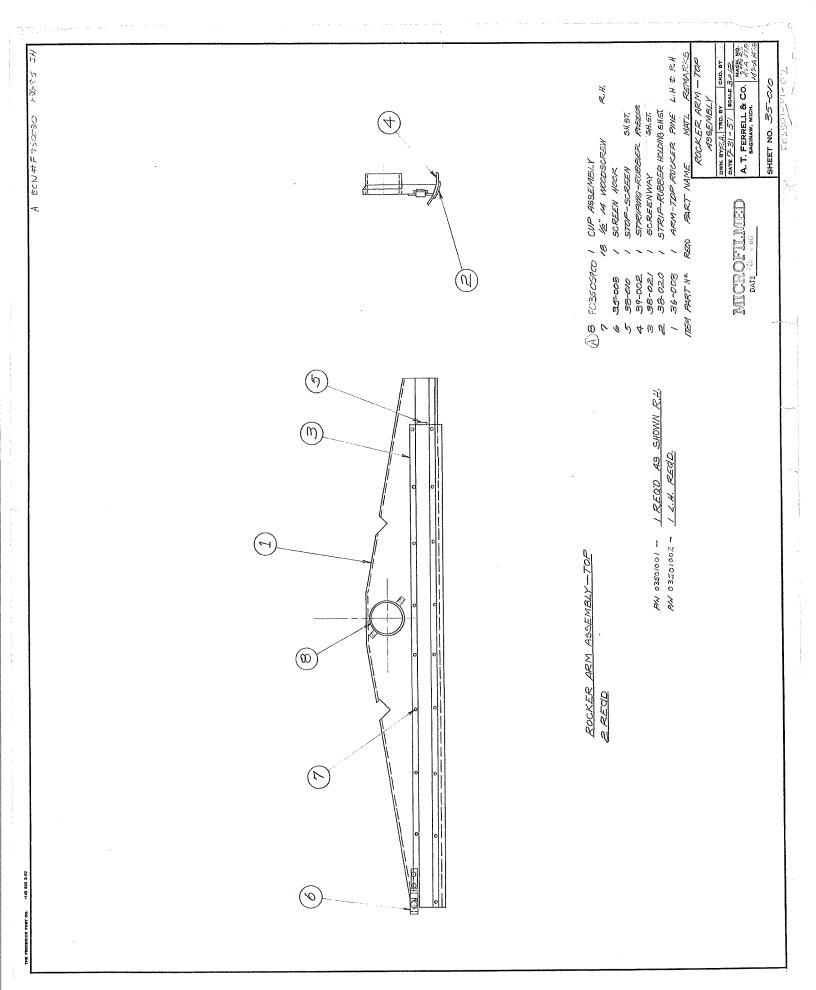


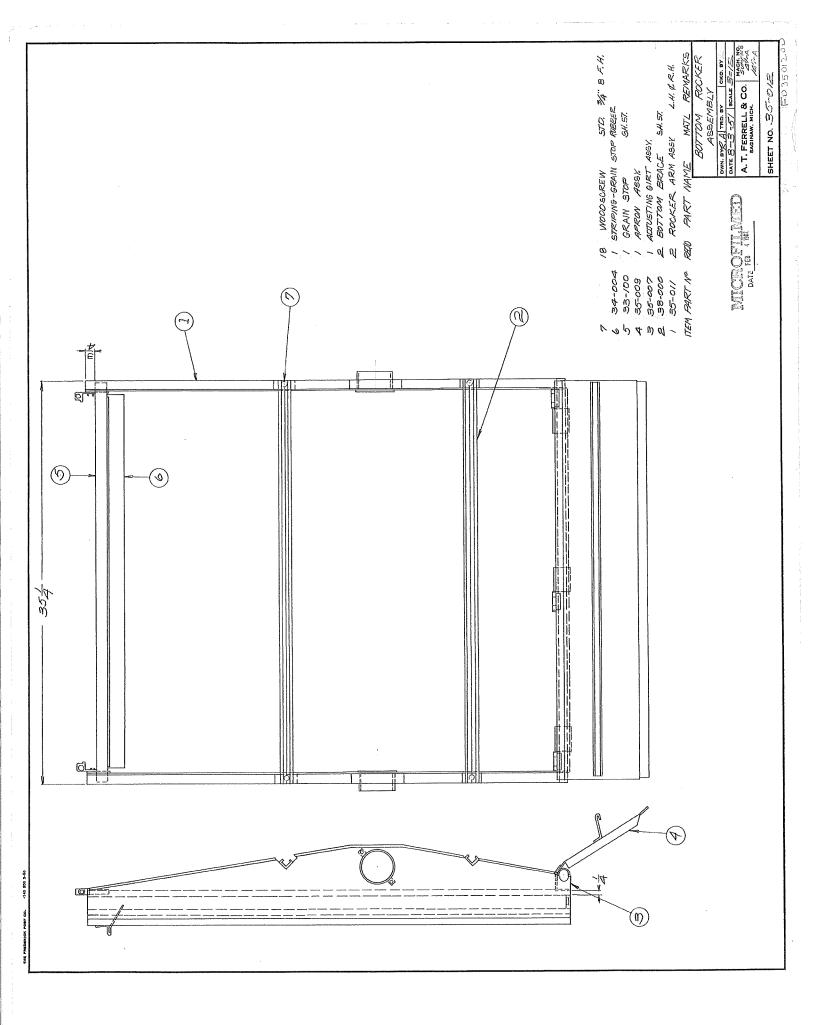
Eccentric shaft assembly, Super 47,67 page 16

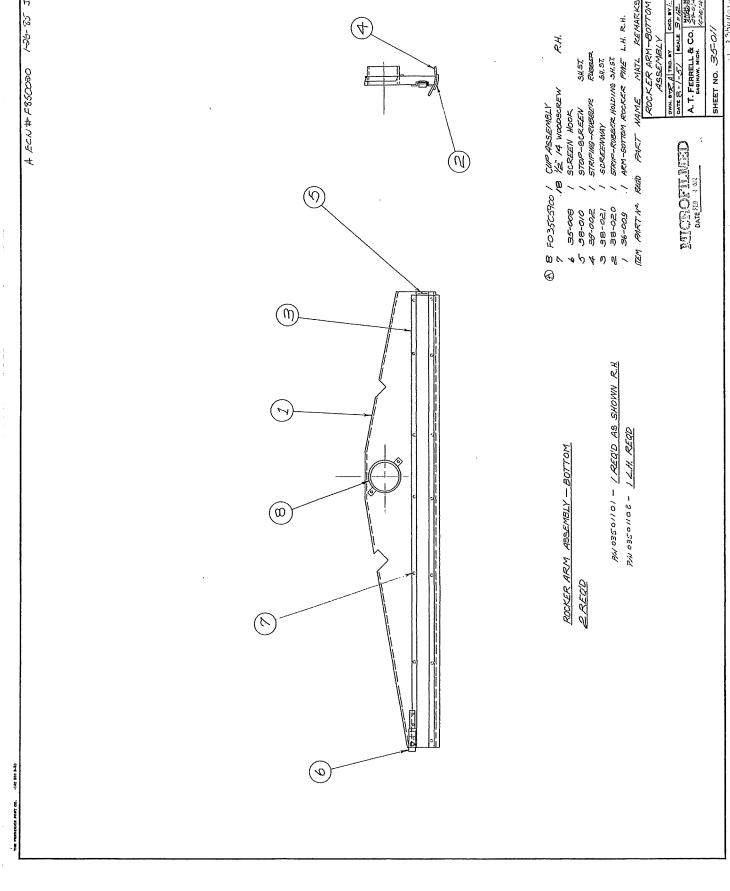


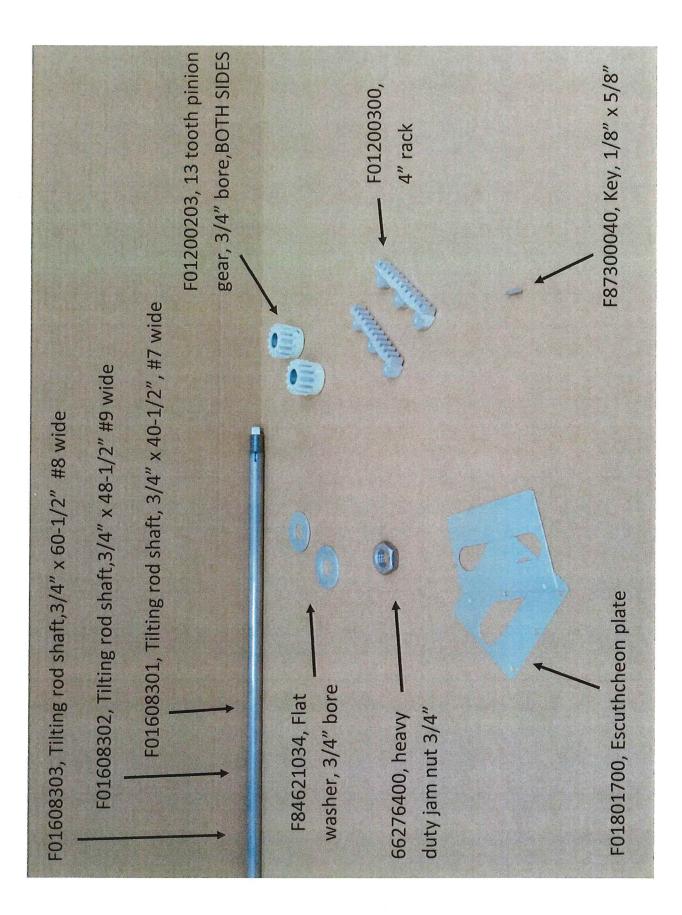












Screen rocker adjusting assembly