SERVICE MANUAL

AND

PARTS CATALOG FOR YOUR

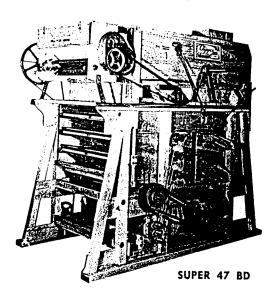
SUPER 47A



Grain, Seed and Sean Pleaners

THE SUPER 40 SERIES

Grass and Clover Seed Cleaners



In this series B designates 3-screen construction — D designates dustless or top fans construction.

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.

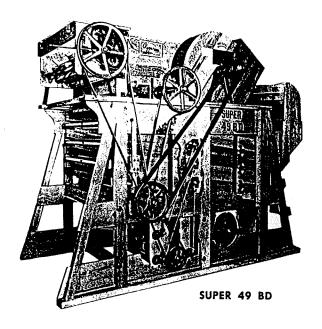
This Super 40 Series contains the following 12 models:

3-screen dustless	3-screen single fan
498-BD	498-B
49-BD	49-B
47-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

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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 $3/64 \times 5/16$ 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.

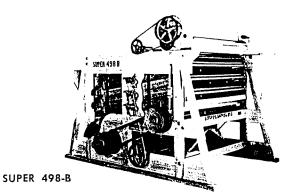
Two-screen models are used extensively where one top screen and one lower screen separation is adequate to do the job. In other words, when two top screen separations are unnecessary (refer to reverse page describing the two-screen models).

See other side for illustrations of each style and complete specifications.

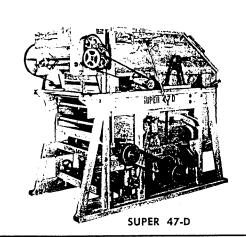
SUPER 40 SERIES

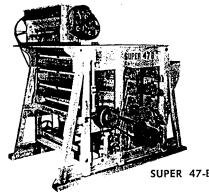
The two-screen cleaners are built approximately 7 inches lower in overall height than the three-screen models making them suitable for installations which require minimum head room.

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.

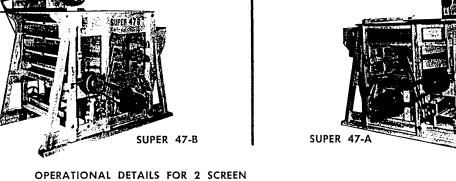


Shown with Cotton Seed Hopper recommended for cotton seed, brome and other grass seeds likewise difficult to feed.

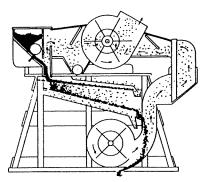




DUSTLESS CLEANING



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.

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	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	J2	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
Horsepower required	11/2	11/2	5	3	3	3	3	5	71/2	10	71/2	10
Shipping weight (lbs.)	1200	1300	1800	2000	2100	2200	2350	2000	2800	3000	2900	3200

SUPER 47A CLEANER PARTS SET UP WITH BRUSH SCREEN CLEANING

BRUSH SCREEN CLEANING SYSTEM

ITEM No.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
38	7	F01004901	2	Brush Adjusters - Idler Side (Left Hand Side)
**	7	F01004902	2	Brush Adjusters - Idler Side (Right Hand Side)
43	7	F01106300	2	Idler Arm Support
**	7	F82080060	2	Bolt for Brush Adjusters (Both Sides)
39		F01003001	2	Brush Adjusters-Control Side (Left Hand Side)
**	7	F01003002	2	Brush Adjusters - Control Side (Right Hand Side)
42	7	F01105400	2	Adjustments Handle with Spring
**	7	F82080060	2	Bolt for Brush Adjusters (Both Sides)
**	9	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.

Page 1 of 5

BOTTOM FAN ASSEMBLY With 1-1/2" Shaft

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

BOTTOM FAN ASSEMBLY With 1-3/16" Shaft

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

Not Available 2 Halfmoon Bridgetree Housing with Bearing Note: If housing is bad Items 72 & 62 must be substitued

ECCENTRIC SHAFT ASSEMBLY With 1-1/2" Shaft

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

MAIN SHOE ASSEMBLY

ITEM NO.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
		Not Available	1	Bottom Shoe Complete with Rockers
		F03117301	1	Right Shoe Side
		F03117302	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)
		F08305700	1	Straw Spout-Machines Built after 1974 (Check Measurements)
		F01200203	2	Pinion Gear with 3/4" Bore
		F01200203	2	Pinion Gear with 3/4" Bore
		F01200300	4	4" Long Rack
		F01801700	4	Escutcheon Plate
		F01608301	2	Tilting Rod 3/4" X 40-1/2"
		66276400	2	3/4" Hex Nut
		F03401500	1	Canvas Apron Assembly
		D02501200	1	Tan Daalson Assambly Complete (Includes Ports Relaw)
		F03501300	1	Top Rocker Assembly Complete (Includes Parts Below)
		F03600801	1	Right Hand Wood Rocker Arm Only (Top and Middle)
		F03600802	1	Left Hand Wood Rocker Arm Only (Top and Middle)
		F03500800	2	Screen Hook Assembly 60" Screenway Liner (Cut to Length)
		F03800413	2	60" Rubber Holding Strip (Cut to Length)
		F03801100	2	Rubber Seal 2-1/2" Wide (In Feet)
		F91152006	8	
		F03806000	2 2	Screen Stop Bottom Rocker Brace
		F03800003		Grain Stop Assembly
		F03310007 F03500600	1 2	Rocker Pivot Cup (Brush Style)
		F03505900	2	Rocker Pivot Cup (Ball Tray Cleaning)
		F90005305	1	Rocker Adjusting Girt
		F11302512	1	• •
		T11302312	1	Adjusting Girt Cover Plate Page 4 of 5

MAIN SHOE ASSEMBLY CONTINUED

ITEM NO.	PAGE NO.	PART NUMBER	QTY.	DESCRIPTION
		F03501200	1	Bottom Rocker Assembly Complete (Includes Parts Below)
		F03600901	1	Right Hand Wood Rocker Arm Only (Bottom)
		F03600902	1	Left Hand Wood Rocker Arm Only (Bottom)
		F03500800	2	Screen Hook Assembly
		F03800413	2	60" Screenway Liner (Cut to Length)
		F03801100	2	60" Rubber Holding Strip (Cut to Length)
		F91152006	8	Rubber Seal 2-1/2" Wide (In Feet)
		F03806000	2	Screen Stop
		F03800003	2	Bottom Rocker Brace
		F03310007	1	Grain Stop Assembly
		F03500600	2	Rocker Pivot Cup (Brush Style)
		F03505900	2	Rocker Pivot Cup (Ball Tray Cleaning)
		F90005305	1	Rocker Adjusting Girt
		F11302512	1	Adjusting Girt Cover Plate

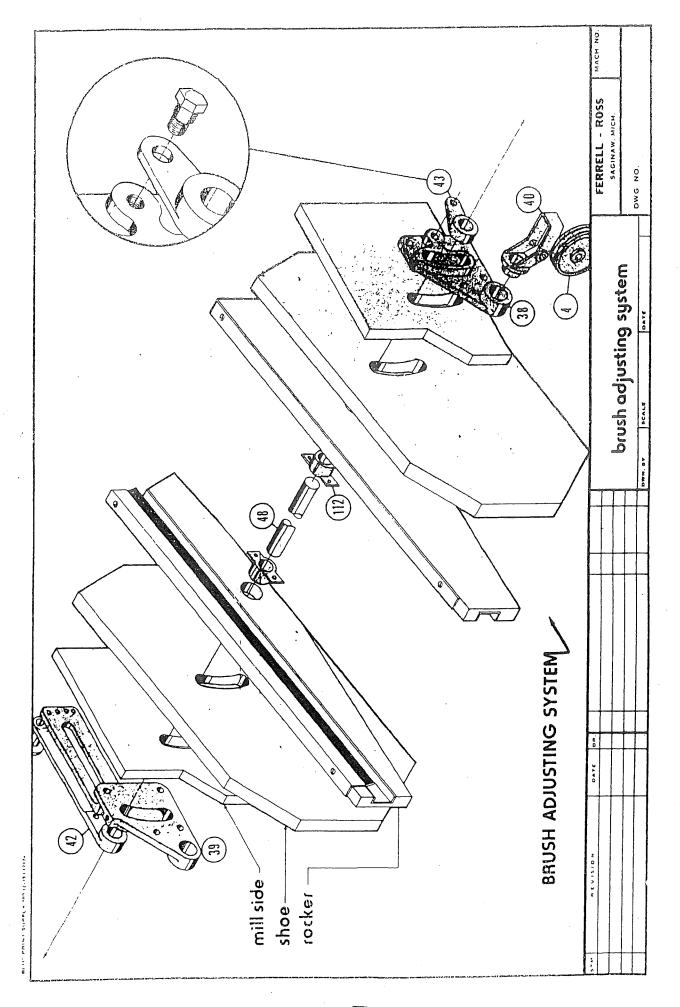
Note: Front of the Machine is Where the Screens are Insertsed Into the Machine. Discharge Spouts are Determined by Standing at the Front and Facing the Machine. Right Hand Discharge Spouts Would Discharge Towards Your Right Hand.

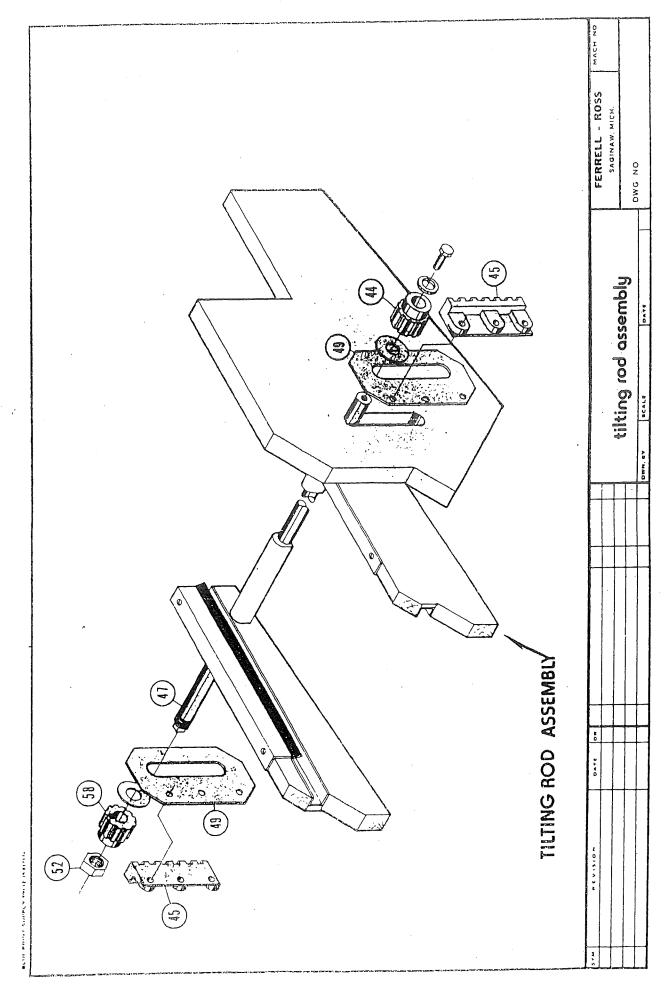
F01002803 1 Belt Idler Assembly Complete 5-1/2"
See attached picture

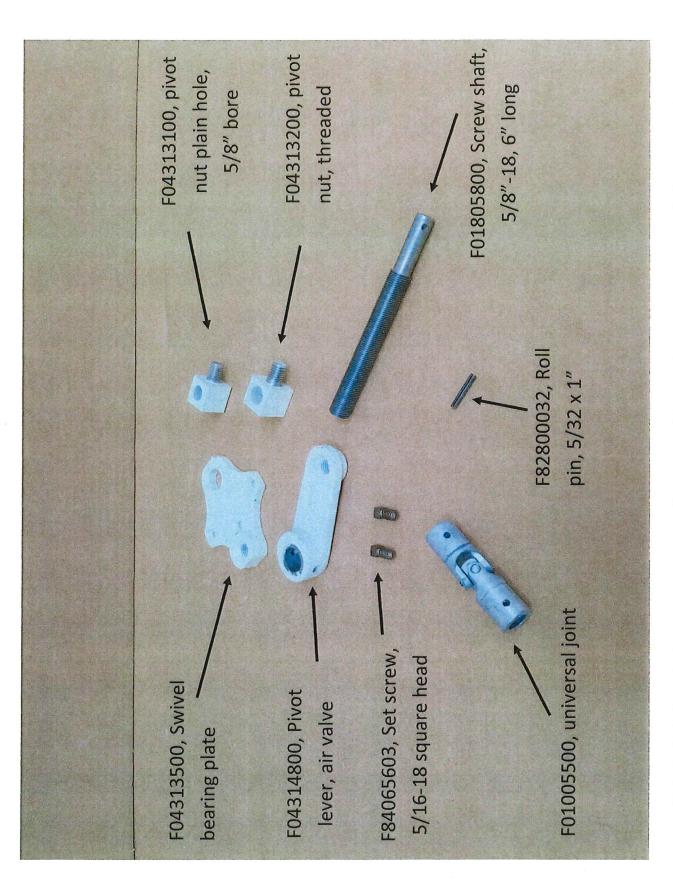
The Following Are the Ball Tray Kit Parts That were Installed on the Super 47 Cleaners in the Past

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

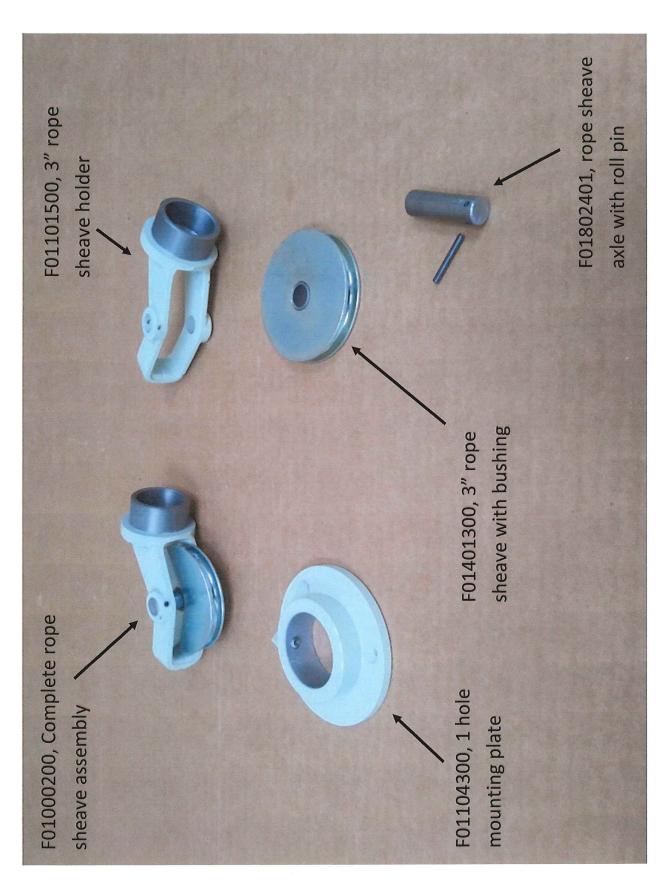
F90005067	2	Ball Tray Weldment for 1 Piece Screens
F80026101	144	Black 1-3/8" Balls
F11301710	4	Ball Tray Support Rail 23"
F11301716	4	Ball Tray Support Rail 14" Page 5 of 5



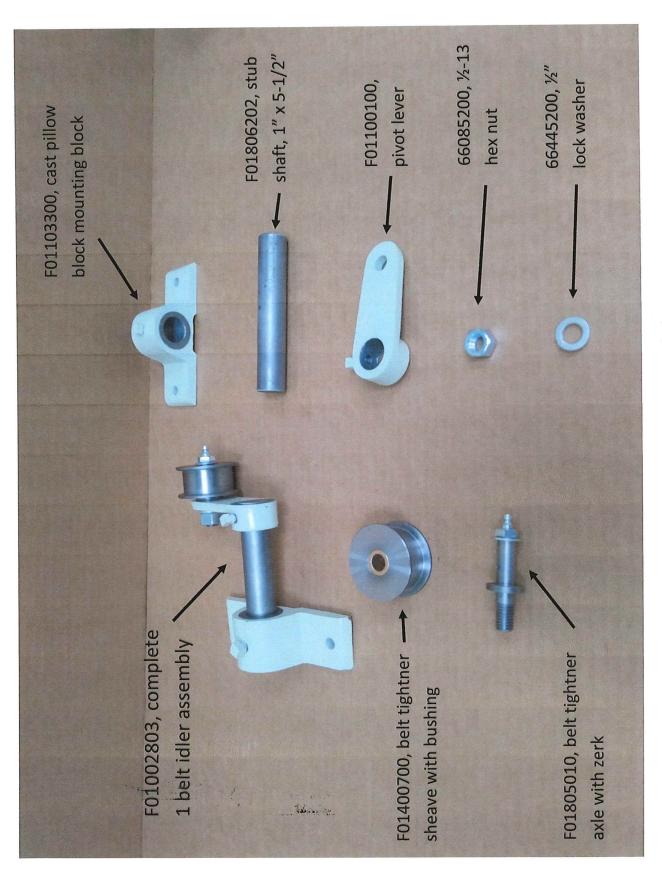




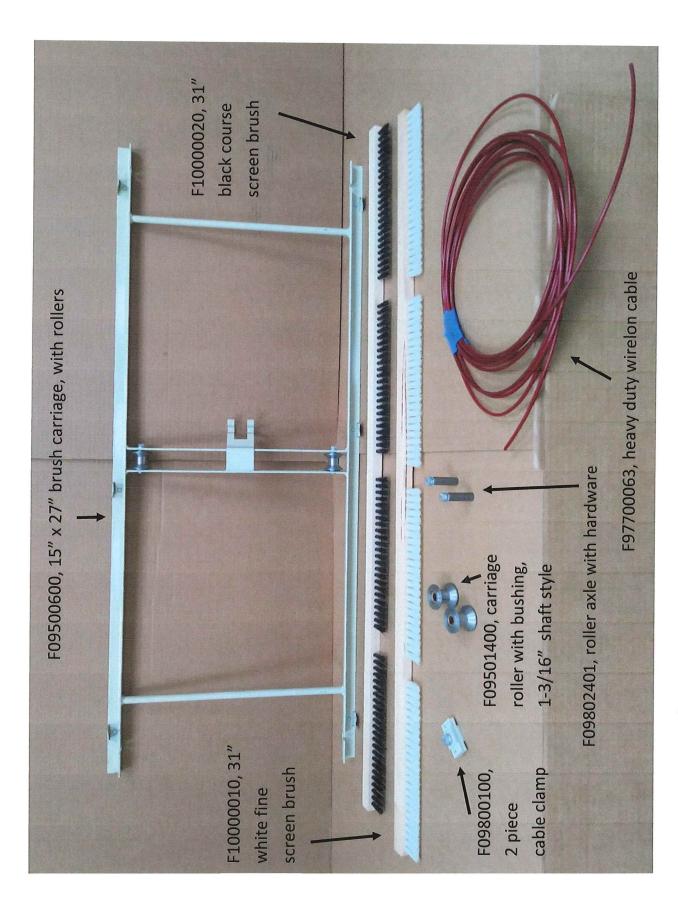
F01013500, Gate valve adjusting assembly, ALL



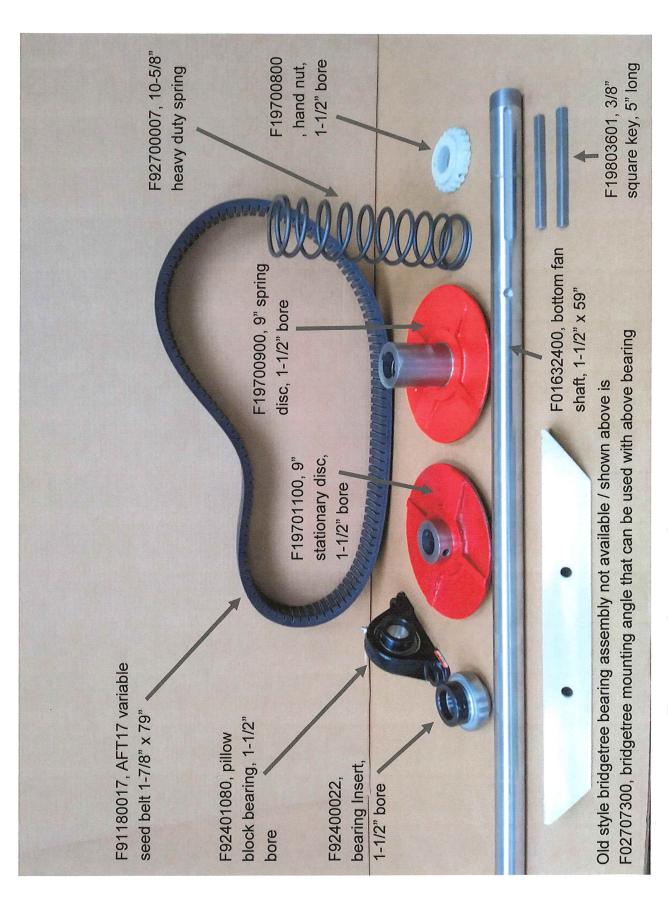
3" Rope sheave assembly



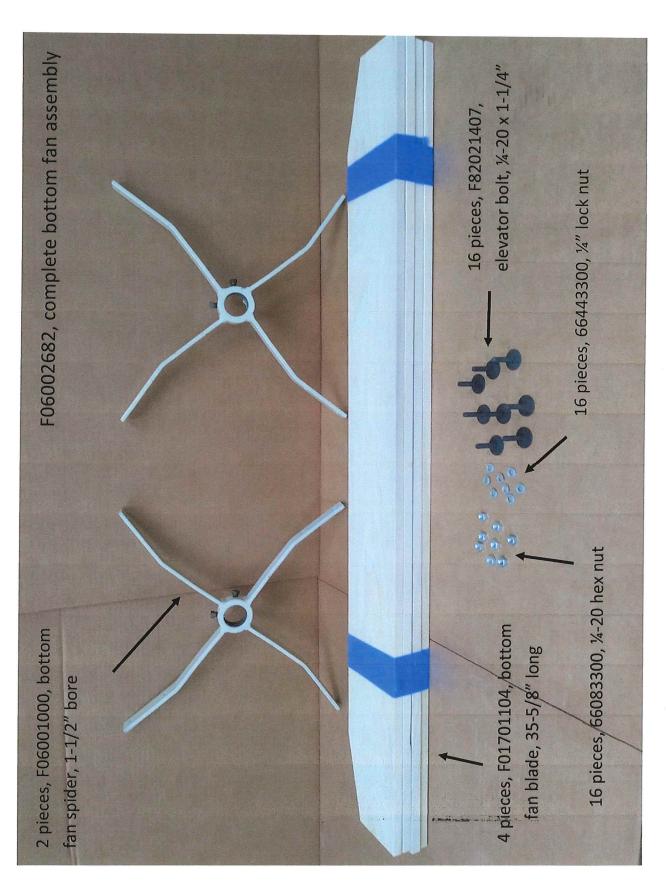
Belt tightner assembly



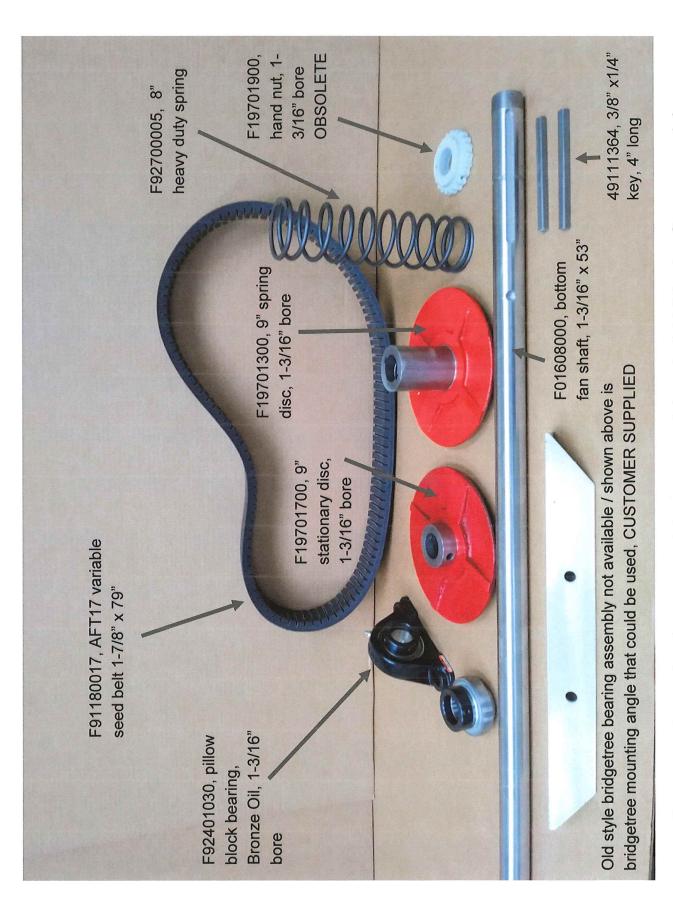
Brush carriage, with accessories, page 10



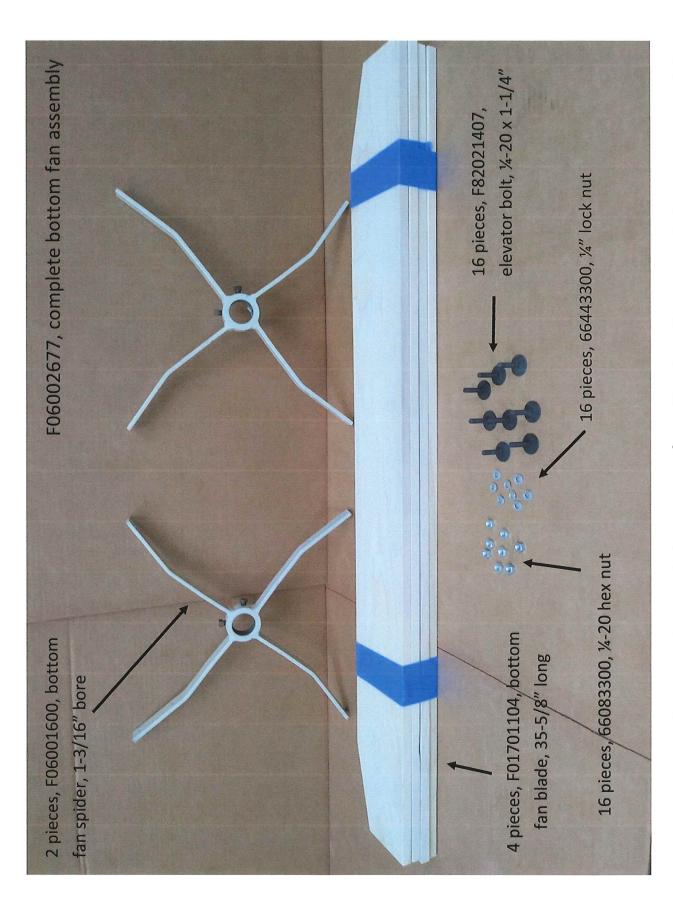
Bottom fan shaft assembly assembly, page 11



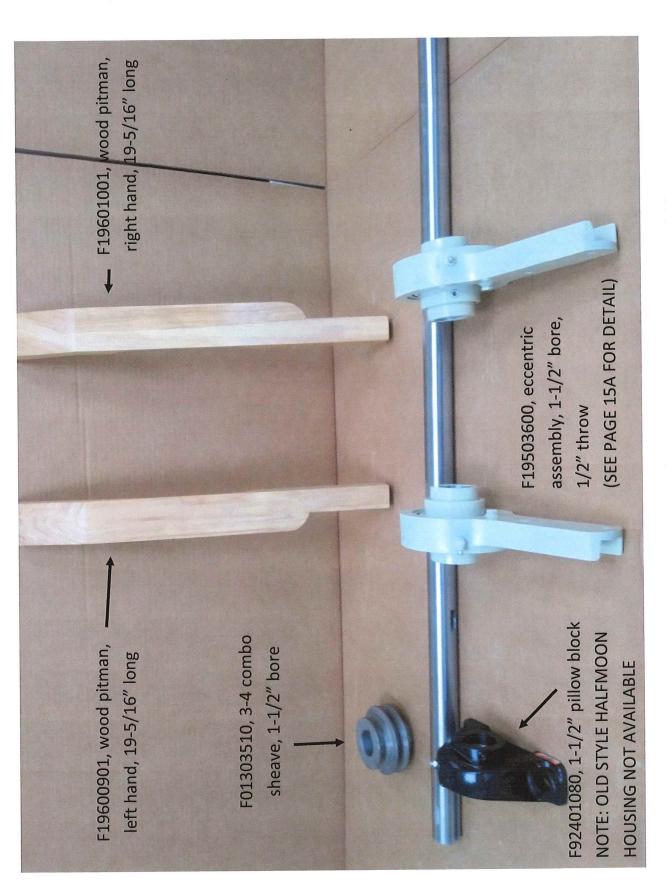
Bottom fan assembly, 1-1/2" shaft, 7 wide, page 12



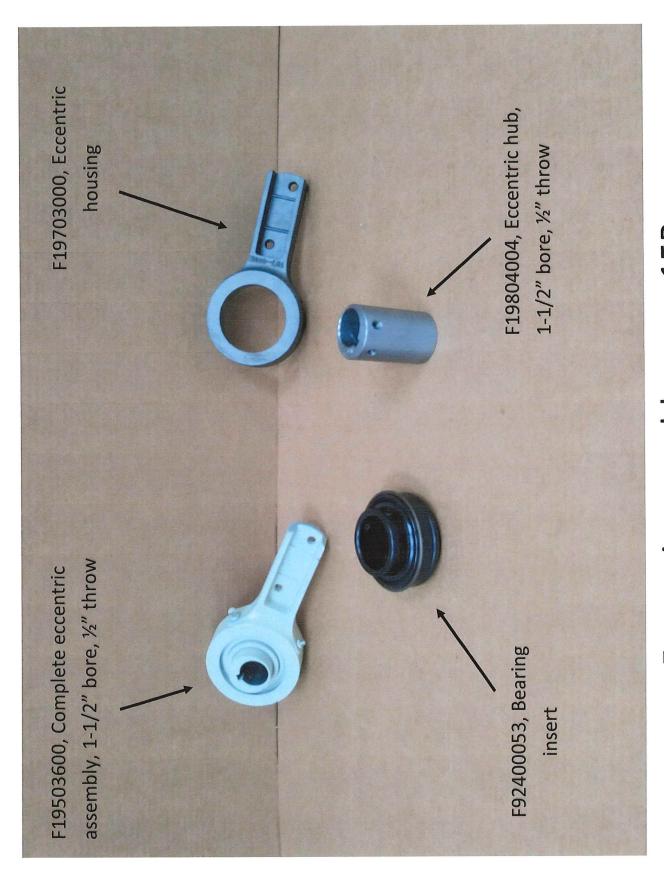
Bottom fan shaft assembly assembly, 1-3/16" shaft, page 11



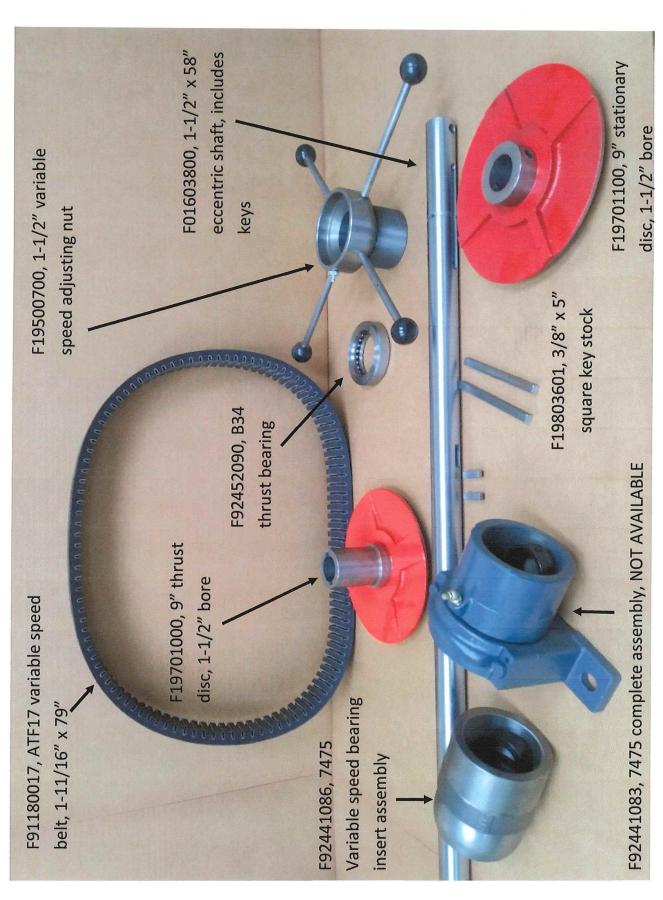
Bottom fan assembly, 1-3/16" shaft, 7 wide, page 12



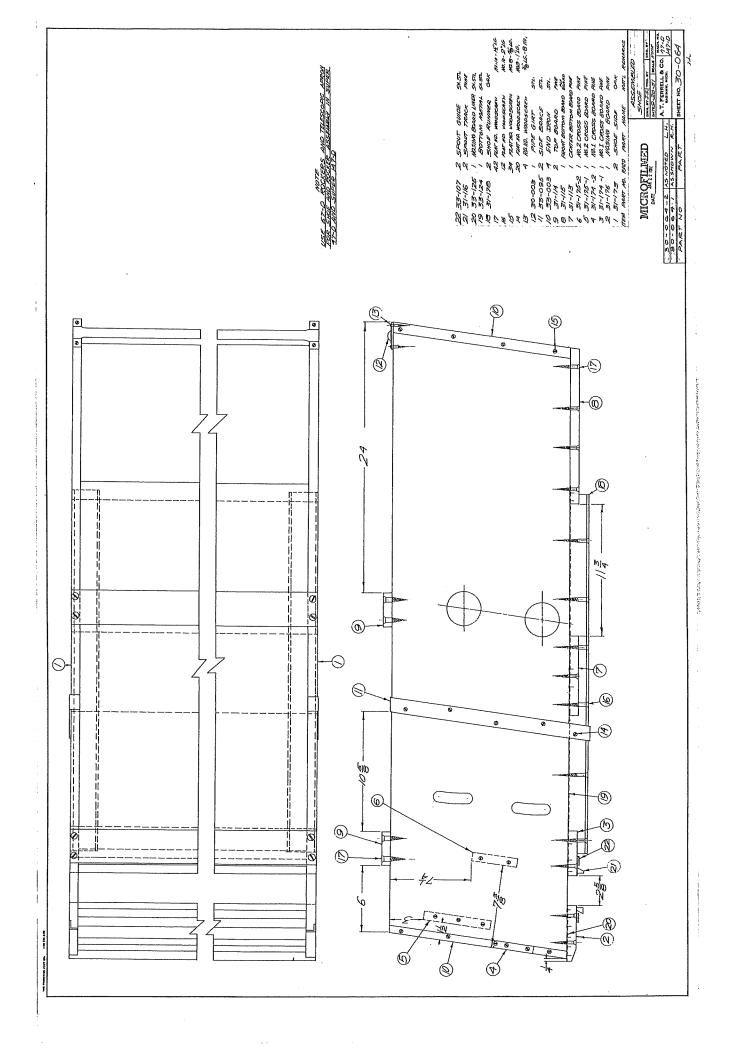
Eccentric shaft, wood pitmans, page 15

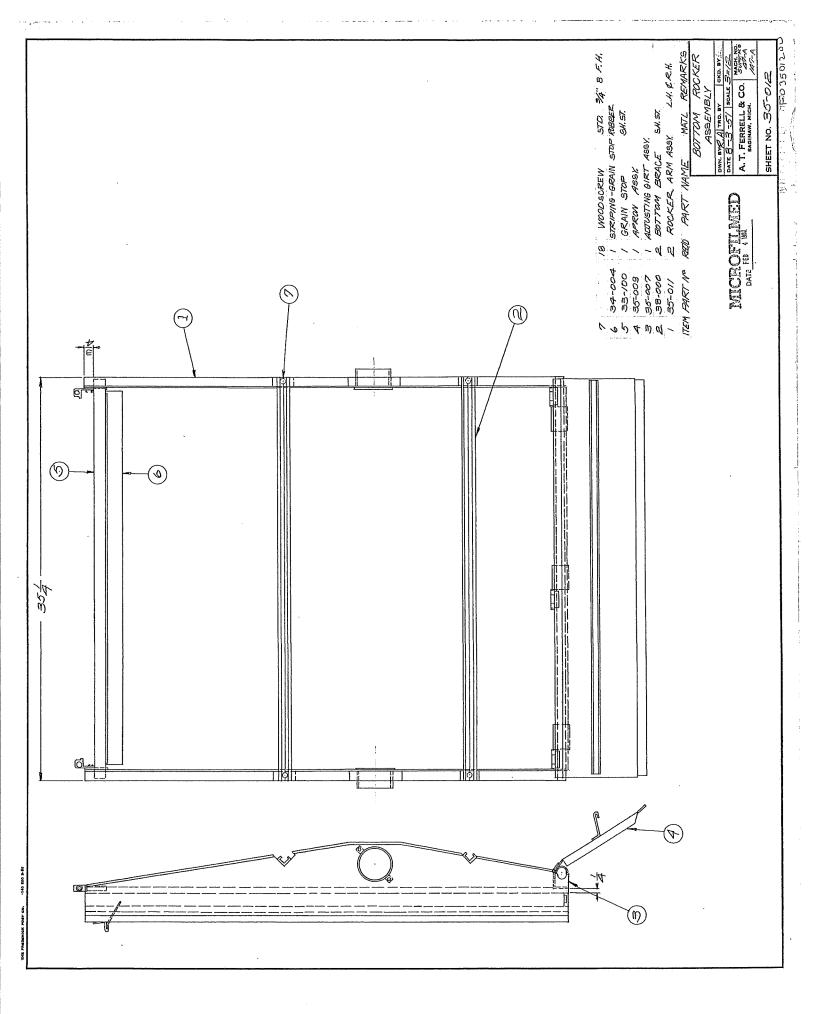


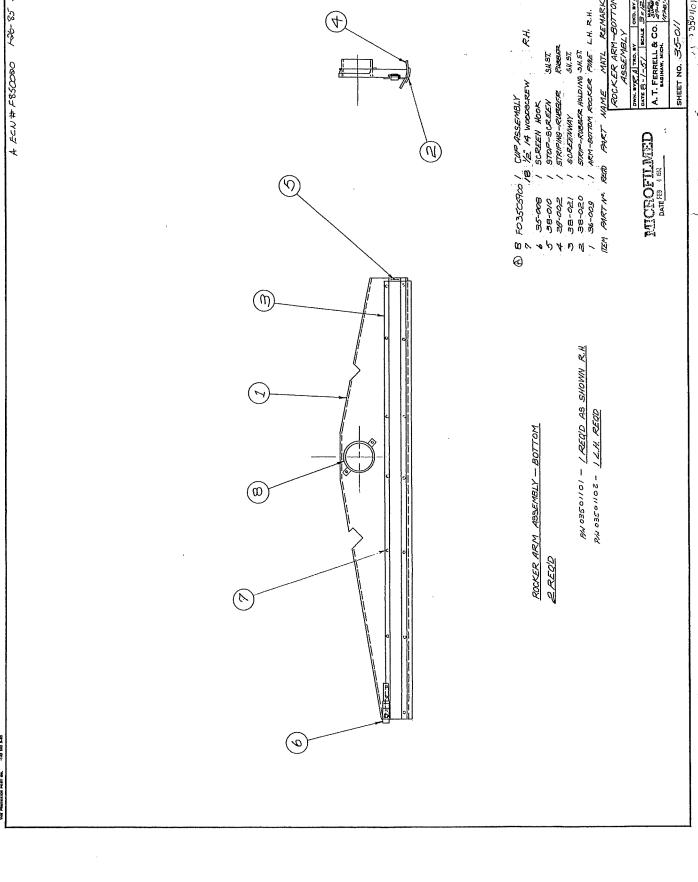
Eccentric assembly, page 15B

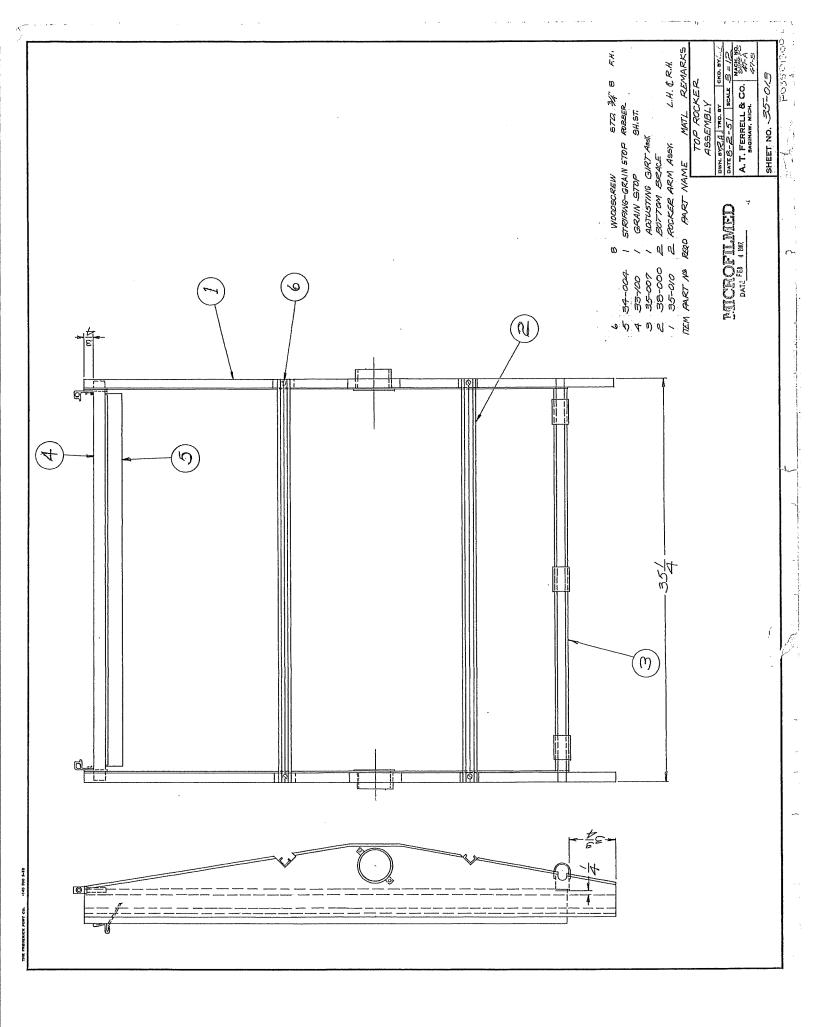


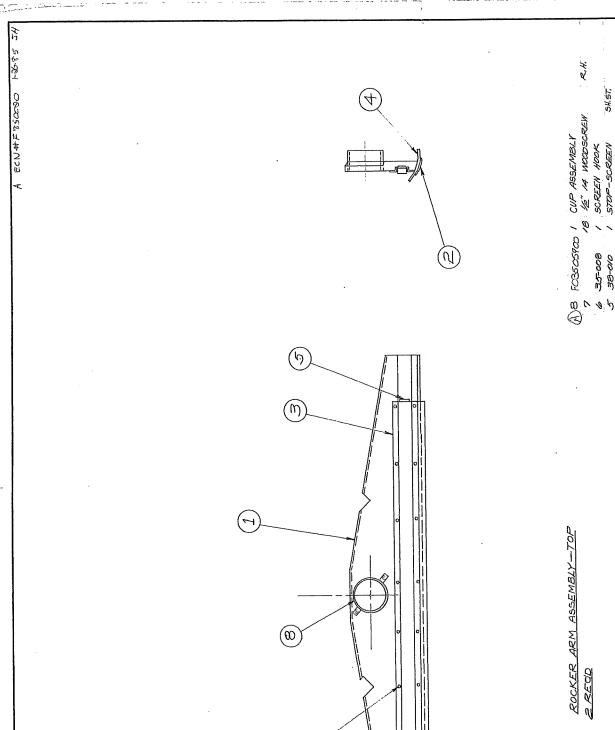
Eccentric shaft assembly, Super 47, page 16











I REG'D AS SHOWN R.H. PN 03501001 -

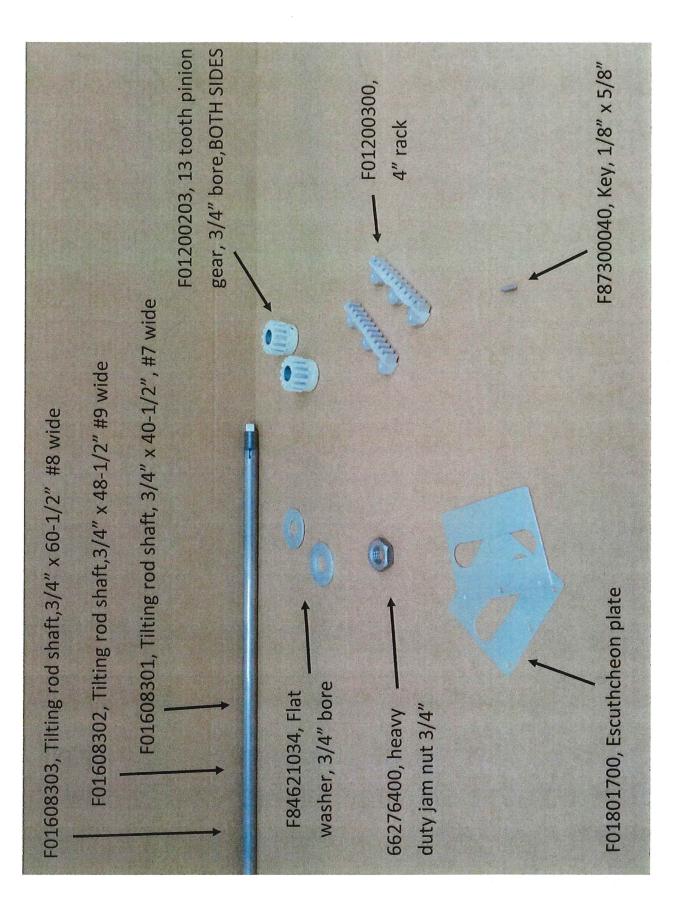
STOP-SCREEN SH.ST.
STRIPMO-RUBGLER RUBBER
SCREENWAY
STRIP-RUBGLER HOLDING SHIST
ARM-TOP ROCKER PINE L.H & R.H ROCKER ARM -ABSEMBLY PART NAME 6 33-008 5 38-010 4 39-002 3 38-02/ 800-98 ITEM PART Nº.

MICROFILMED PATE FURTH THE

SHEET NO. 35-010

DWN. 87/2/4, TRD. 87 O

A. T. FERRELL & CO. STORE SAGINAW, MICH.



Screen rocker adjusting assembly