

SERVICE MANUAL

AND

PARTS CATALOG

FOR YOUR

CLIPPER

*SEED AND BEAN
CLEANERS*

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SECTION 3 . . . PARTS PRICES

HOW TO USE THIS BOOK

With the issue of this book, a new parts numbering system has been installed. We ask you to order by new numbers given for each part.

To Get Part Number

1. Look for number stamped on part.
2. See Index page 3, find part illustrated under assembly or parts illustration Section II

To Find Out How To Get At Broken Part in Mill

1. Check Index page 3 and find assembly illustration Section II.
2. Assemblies show how to remove and re-assemble parts.

To Find Price Of Part

1. Use Index to locate part number, turn to Section III, and find part number listed in numerical sequence giving price
 2. If the old part number is stamped on your part, it will help you identify the new number and the part itself.
- All parts listed are not illustrated. In this case, order using description given.

We recommend that you use the order forms provided at end of Section I. It will assure that we get all information needed. Sample of properly prepared order —

Quantity		Part No.	Price	DESCRIPTION	Total Price	CLEANER		Serial No.
						Model	Year	
1	42-C13	5.15	1" Bore (60-T) Spur gear			29-D	1949	2265
20 ft.	GL	3.60	Nylon Covered Steel Cable		8.75			
IF PREPARED BY HAND PRINT PLAINLY								
Remarks: <i>Am still running without trouble however will appreciate prompt delivery</i>								
Purchaser <i>J.C. White</i> City <i>1520 State, Newcastle</i> State <i>Indiana</i>								

HOW TO USE THIS BOOK — Continued

To help eliminate bulk of extra pages, many abbreviations have been used as follows:

adjust. — adjustment or adjustable

ass'y. — assembly

b. brg. — ball bearing

brg. — bearing

brkt. — bracket

d'ble — double

dia. — diameter

ecc. — eccentric

fig. — figure

galv. — galvanized

gr. — groove

hex. — hexagon

HP — Horsepower

I.D. — inside diameter

L. — left

mod. — model

O.D. — outside diameter

Oper. — operate or operating

R. — right

reg. — regular

sprkt. — sprocket

T. — tooth or teeth

V.A.R. — variable air regulator

vari. — variable

V.S.S. — variable shoe shake

' — feet

" — inches

— number

The following are brief explanations of manufacturing stock terms:

Bottom Blast — The fan assembly under the screens directing blast up the rear air leg making final air separation and boosting top suction fan velocity.

Hanger Strap — The wooden strips which secure the shoe to the cleaner frame. This part allows eccentric to shake the shoe and at the same time provides long enduring spring action to return the shoe to neutral position after each throw.

Screen Pitch — Adjustable on many models. By increasing or decreasing pitch of screen the flow of the seed can be controlled as desired. Use the "T" wrench and open end wrench provided in your Clipper tool kit.

Shoe — The frame that receives and holds the screens.

Top Suction — The fan assembly above the screens.

The illustrations throughout Sect. II are made up to show you how the part is assembled. These pictures will serve as a guide when you are removing only the parts that have to be taken off to get at the damaged or worn part.

Wherever identical parts appear more than once in the same assembly illustration the part number is indicated on *one* part only.

Common parts such as lock washers, nuts, woodruff keys, etc., are not numbered — order by description.

SECTION 1

SERVICE MANUAL

Your Clipper is a *precision instrument* and in order to get the best product results *strictest attention* must be given to proper operating adjustments.

The following (classified alphabetically) Section I is devoted to answer some of your questions and help you care for your cleaner.

ADJUSTMENTS

The procedure of adjusting your machine is perfected only by trial and careful observation while processing. Proper screen pitch, exact variable speed, the right amount of air suction from the top fans and the correct bottom blast can only be determined as each separate run is made. There is no such thing as a general adjustment as lots of the same seed will vary. The processing results therefore depend entirely upon the operator. A. T. Ferrell and Co. with processing experience collected over a continuous manufacturing period of three-quarters of a century extends its invitation to you to send in difficult problems for factory recommendations.

AIR DUCTING AND COLLECTOR SPECIFICATIONS FOR CLIPPER DUSTLESS CLEANERS

*NOTICE

Factory recommends *only* separate runs from each fan to the collector or dust house. If it is absolutely necessary to make a junction install as shown in Figure 1.

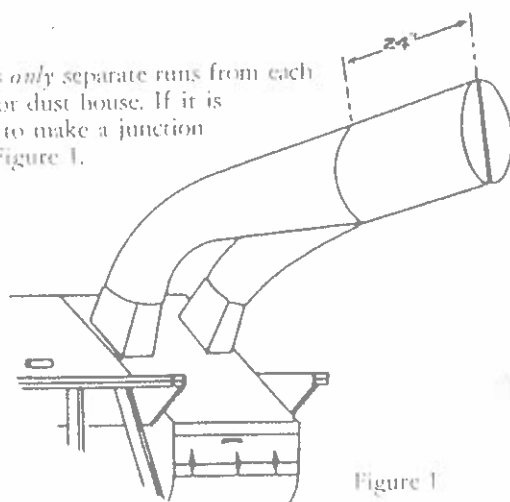


Figure 1

A divider at least 24" long should be installed from the point where the two fan ducts meet and extend out toward the dust house.

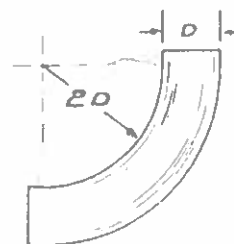


Figure 2

1. Avoid sharp turns in elbows from cleaner to collector. Allow an inside radius of at least two times the diameter of any pipe (whenever possible) See Figure 2.
2. Trunking or round pipe must be of the same area as each fan outlet (DO NOT INCREASE NOR DECREASE).
3. For round pipe specifications see table below.

SPECIFICATIONS FOR ROUND PIPE USED ON SUCTION FANS RUNNING TO COLLECTORS ON ALL DUSTLESS CLEANERS

* Size of cleaner	Inside Fan Dimensions	Size of Fan Discharge	Diam. of pipe at Fan Discharge	* Diam. of pipe if Junction into one Pipe Used As in Fig. 1
7	7 $\frac{1}{2}$ "x15 $\frac{1}{4}$ "	118"	12"	17"
9	7 $\frac{1}{2}$ "x17 $\frac{3}{4}$ "	133"	13"	18"
8	9 $\frac{1}{4}$ "x17 $\frac{3}{4}$ "	163"	14"	20"
248-D	11 $\frac{1}{4}$ "x17 $\frac{3}{4}$ "	200"	16"	22"

* * Cleaner size is designated by last digit in model number — "7" width is 34" wide screen; "9" width is 42" wide screen; "8" width is 54" wide screen.

SPECIFICATIONS ON DUST COLLECTORS

Model Width	Velocity Ft. per Min. each fan	Cubic Feet per Min. each Fan	1-Fan 1-Cyclone	Diameter Cyclones 2-Fans 2-Cyclones	2-Fans 1-Cyclone
7	2000	1600	57"	57"	78"
9	2500	2310	63"	63"	83"
8	2750	3000	68"	68"	94"
248-D	2500	3390	68"	68"	94"

BOTTOM BLAST FEATURE

On all Clipper models incorporating the Bottom Blast Fan the cleaned grain discharges from a 4 inch wide area under the cleaner.

Many misunderstand this necessity and therefore complete the installation without preparing a receiver opening in the floor under the cleaner and a means of handling the cleaned commodity such as with the Clipper Vibrating Conveyor — Ask us about it.

BRUSHES

Clipper screen brushes are made to clean better and last longer than ordinary brushes.

The Palmetto-Bassine mixture is our regular brush that we furnish with cleaners and which we supply on regular orders. We keep the Palmetto-Bassine mixture brush and the two nylon-bristle brushes in stock and can ship them immediately on receipt of an order. Though we are willing to furnish you 100-per-cent Palmetto, 100-per-cent Bassine or 100-per-cent Tampico brushes at the prices quoted, these are special orders and we do not intend to stock these bristles. We will accumulate orders for these brushes until we have a substantial number, and then we will have the brush made up and fill the order. That means they will not be shipped immediately on receipt of the order.

The characteristics of the bristles are:

TAMPICO — Thin bristle — small, limber and consequently especially good under wire screens. If these brushes are pressed with too much force against a screen, the bristles will turn and present the side of the bristle instead of the point to the mesh, which greatly decreases their effectiveness.

PALMETTO — Reddish-brown in color — relatively thin fibers — limber fibers and generally a very nice-appearing brush.

BASSINE — Stiff, heavy fibers — some are brittle — does not absorb water readily and generally considered a bit too heavy and stiff for use as a 100-per-cent mixture under ordinary screens.

PALMETTO-BASSINE MIXTURE — The stiffness of the Bassine tends to support the limber bristles of the Palmetto, and this mixture, we believe, is more satisfactory for all-around use than a 100-per-cent Palmetto or Bassine brush.

.022 NYLON — Stiff, heavy bristle — ideal for use under any but the smallest round-holed screen and wire mesh.

.014 NYLON — Thinner, limber bristle — especially made for use under wire screens that the heavier bristle might damage.

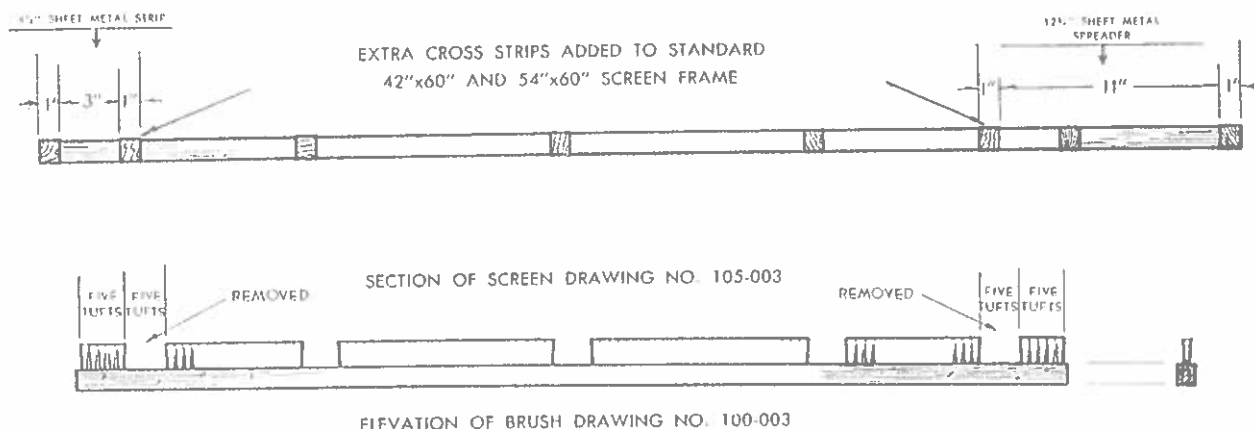
Though the nylon brushes cost over twice as much as the regular brushes, they will outwear them many times, and furthermore they are much easier to clean up when changing from one lot of seed to another.

Refer to Section 3 for prices.

BRUSH FRAME MODIFICATION

CLIPPER WIRE MESH SCREENS NOW LAST LONGER — Form A-142-A shows the New Construction of Clipper Screen Frames covered with wire mesh — Note, two Extra Cross Braces have been added.

Wire mesh screens have never worn as well as perforated metal — but — A. T. Ferrell and Company Engineers have done something about it. This new screen construction will greatly increase the life of your screens and your brushes — besides, you will save the cost of special brushes many times over in processing time and screen replacements.



NEW FRAME CONSTRUCTION FOR WIRE CLOTHES SCREENS

(Featuring longer screen life) by — Stabilizing the brushes at each end — notice the added reinforcement shown on drawing. It will help if you wish to convert your present screens.

Future wire cloth screen frames will be of this new design and be furnished as standard equipment on all models with model numbers ending in 8 or 9 except for the following models which are not affected by this modification:

Seed Grain and Bean Cleaners

18-D, 2248-D, 2268-D, 248-D, 248-BD, 249-D, 249-BD,
2948-D, 2949-D, 918-D, 998-D, 98-D, 99-D,

also all Corn Graders and all Pea Cleaners.

Brushes with tufts removed as shown are available on request.

CLEANER OPERATORS NOTICE:

Serious troubles may be avoided by proper brush and brush carrier adjustment.

1. Brush travel and shoe oscillations are at right angles. Adjust brushes so that brace is centered where tufts are removed when shoe is at dead center of eccentric throw. Conflicting here causes crowding of bristles and undue strain on the screen and brush drive.
2. Never allow the Brush Carrier or the Brushes to strike the shoe sides. This causes excessive wear on the cables, sheaves, shear pins and brush drive.
3. After adjusting brush tension make sure that the carrier rollers engage the shaft and *do* roll.

SHUTDOWNS ARE COSTLY

Replace parts as soon as they are worn and before they break or cause untold extra damage.

BRUSH ADJUSTMENT

To lower brushes for changing screens — pull out pin and swing the adjusting lever as far as it will go away from the sector with the series of holes.

To raise brushes — swing the lever back to its original position with the pin in the same hole as previous to the change.

To adjust brushes to compensate wear — loosen jam nut on stud bolt, raise bolt approx. 1/16 inch, then pull out pin and swing adjusting lever to the next hole in the sector. Screw stud bolt against brush supporting shaft and tighten jam nut.

BRUSH DRIVE

Brush Drive troubles are avoided by care in inserting screens correct end (blank end at highest point) first so that the screen grooves align with the brushes. Also by checking frequently to make sure brush carrier rollers are riding on their respective shafts and are positioned so as not to hit sides of shoe.

Brush Drive Shear Pin — Each shear pin, similar to a fuse in an electrical circuit, is designed to carry more than a normal load. If one breaks inspect all parts operating from the pin to determine the cause of the failure. When the trouble is corrected, install a new pin. See Figure 7 page 8 Sect. 2-C.

CHANGING BRUSH IN BRUSH HOPPER

The following will not cover all types of these hoppers because revisions have been made from time to time which cause minor changes in design.

If your brush assembly cannot be removed, using the following instructions, contact the factory for special instructions tailored to your particular model. State the model and serial number of cleaner.

1. Remove cotter pin in each (H-39) gate arm lever.
2. Loosen gate arm set screw.
3. Remove the washer, spring, and washer from lever shaft.
4. Remove (9) screws from short end of "T" hinges.
5. Remove brush assembly.
6. Remove all screws in assembly and install new brush.
7. Replace assembly and parts in reverse order as removed.
8. *Be sure* hand adjustment screw is set so you have approximately 1½" threads on either side of the threaded block.
9. Place pry bar between gate arm and end piece over shaft and under brush gate and tighten gate lever set screw with brush tight against roll.
10. *Be sure* gate arms and operating levers are in good alignment.

CHECK UPS (preventive maintenance)

Frequent complete cleaner check-up will assure faithful mechanical operation and unnecessary wear.

Make sure all bolts are kept tight. (After a reasonable break-in period bolts on a new cleaner will loosen while the fitted parts wear in).

Worn parts should be replaced as soon as possible to avoid damage and wear to other parts. It costs little to stock an extra belt or a new cable but the insurance against breakdown is well worthwhile.

CONVERSION OF CATCHALL

The favorite Super 29-D and the one-foot wider 298-D are now constructed so that if desired it can be dressed to 3 Scalpers and 1 Finishing Screen instead of the conventional 2 Scalpers - 2 Finishers.

Conversion kit available for your old Super 29D or Super 298-D - See Sect. III for price of conversion kit.

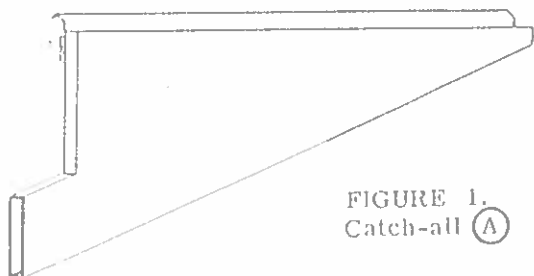


FIGURE 1.
Catch-all (A)



FIGURE 4.
Bridge Plate

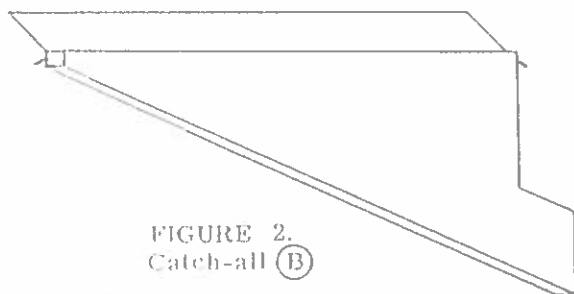


FIGURE 2.
Catch-all (B)



FIGURE 5.
Front Door

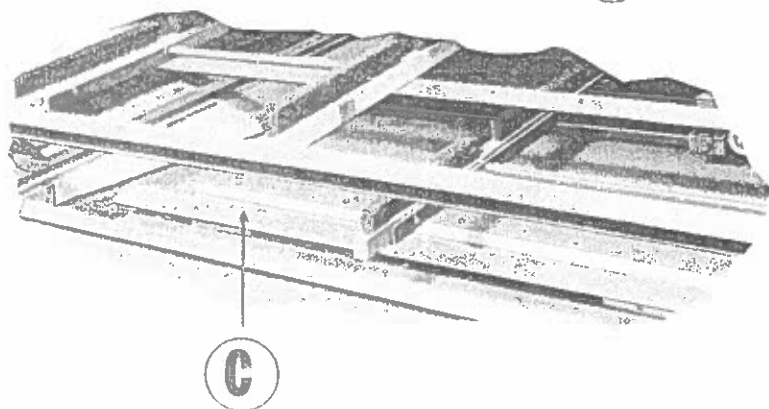


FIGURE 3.
Bridge Plate Assembly

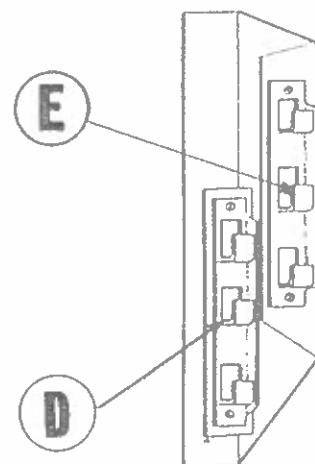


FIGURE 6.
Catch-all Hanger Bracket

- A. Remove front door (Fig. 5).
- B. Install bridge plate (Fig. 4) marked (C) in (Fig. 3) across spout opening on pan of top shoe.
- C. Install catch-all (A) on lower hangers marked (D) (Fig. 6) and catch-all (B) on upper hangers marked (E) (Fig. 6) keeping them as close to each screen as possible.
- D. Raise and fasten catch-all stop straps mounted on each front corner post.

ELEVATORS

A brand new *All Steel Heavy Duty* Clipper complete Elevator has just been developed for the market. Drop us a card and get complete descriptive literature.

LUBRICATION INSTRUCTIONS

Keep a close check on all operating equipment.

A. T. Ferrell and Company emphasises that *over-lubrication* is as *injurious* as inadequate lubrication.

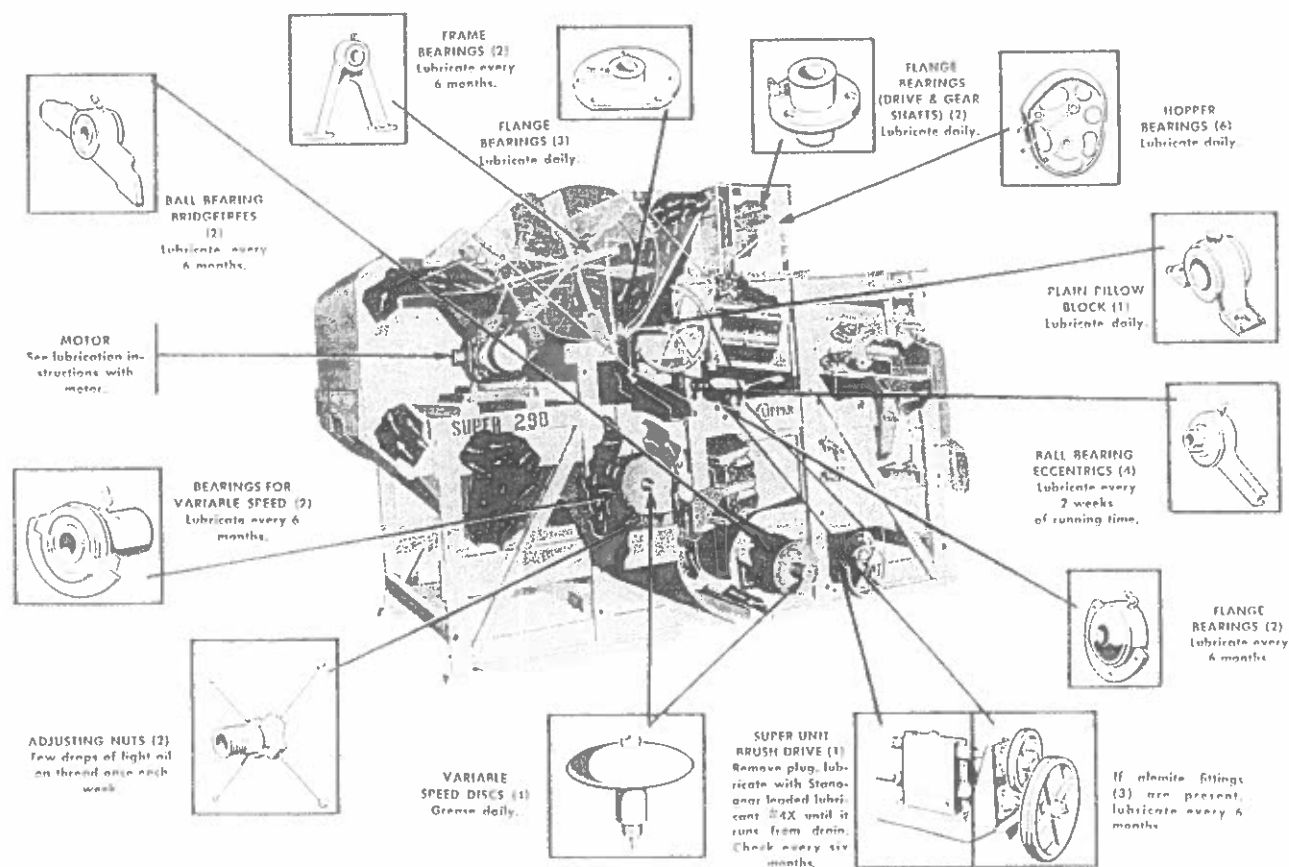
To help guide you follow the suggested instructions, also the recommended lubricants for your Clipper.

Caution:

Lubricate alemites on fan and eccentrics once per week. Adjust discs frequently to keep free. Clean them and variable adjusting mechanism periodically.

Super 29-D CLIPPER CLEANER ILLUSTRATED—Other models, equipped with top suction fans, use identical bearings in approximately the same relative locations.

Use Superla No. 42 lubricant or equivalent unless otherwise specified.



MOTORS

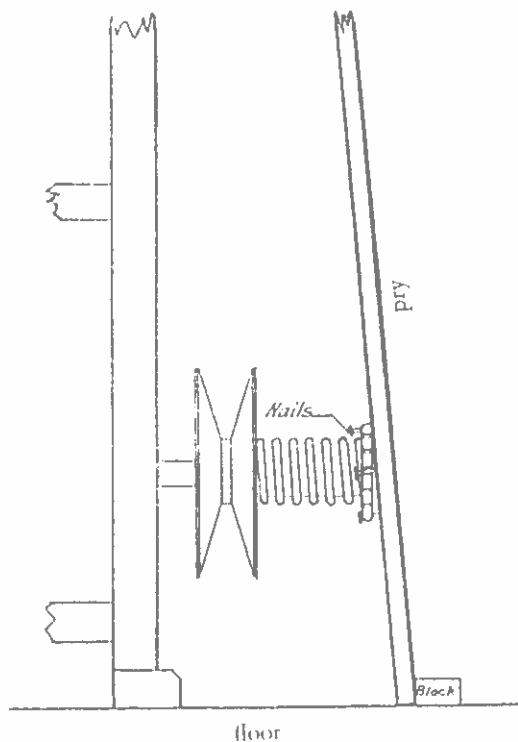
Save your motor service instructions. Put them with this parts book to be sure they are available when you need them.

SCREENS

It is well to clean screens before storing.

Racks accommodating storage on edge are practical inasmuch as the frames are less likely to warp.

VARIABLE AIR REGULATOR



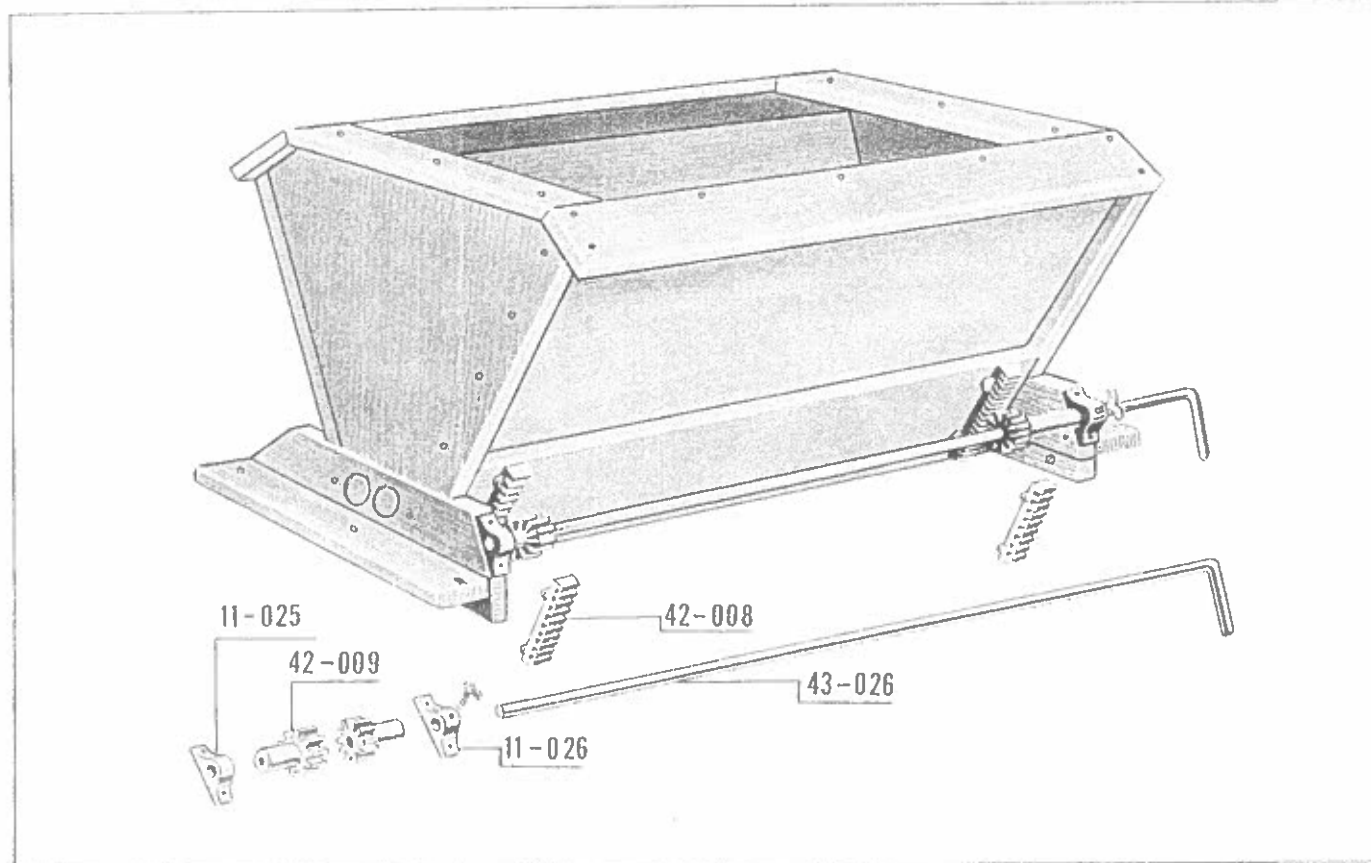
TO REMOVE SPRING ON REGULATOR

1. Remove vari. belt
2. Remove Alemite fitting
3. Nail fulcrum block to floor per diagram (see other side)
4. Stand 2x4 pry, vertically
5. Drive 4 heavy nails around hand nut
6. Hold pry bar and turn sheave to loosen nut. *Don't let the pry slip*
7. After nut is removed ease pry pressure and take off spring

VIBRATING CONVEYORS

Another New Clipper refinement. Drop us a line and we'll mail you complete description.

SECTION 2
PARTS ASSEMBLIES AND PARTS ILLUSTRATIONS



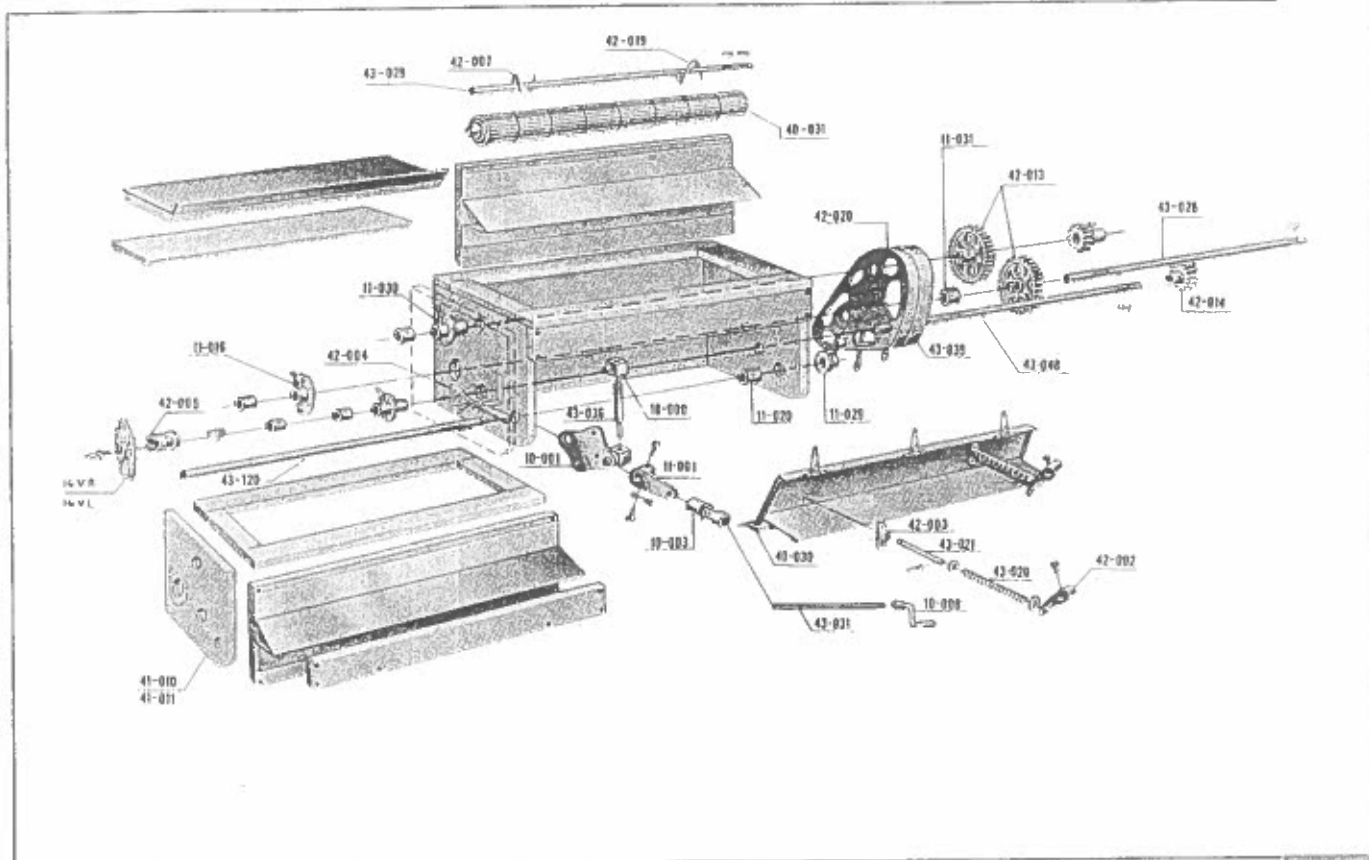
PLAIN HOPPER

New Part Number	Old Symbol Number	Old Part Number	DESCRIPTION
11-025	CD	323	1/2" Bore Plain Brg.
11-026	CE	323A	1/2" Bore Plain Brg. with lock screw
42-008	CF	321A	Plain Rack for raising hopper gate
42-009	CB	320	Pinion for operating gate
43-026	CA	1226	Pinion Shaft for gate (Specify Cleaner Model #)

COMPLETE HOPPERS FOR CLEANERS—Refer to price list Section 5 for replacement Hoppers



* When ordering shafts specify designated part number, model number, serial number, year of cleaner, the shaft length and shaft diameter.

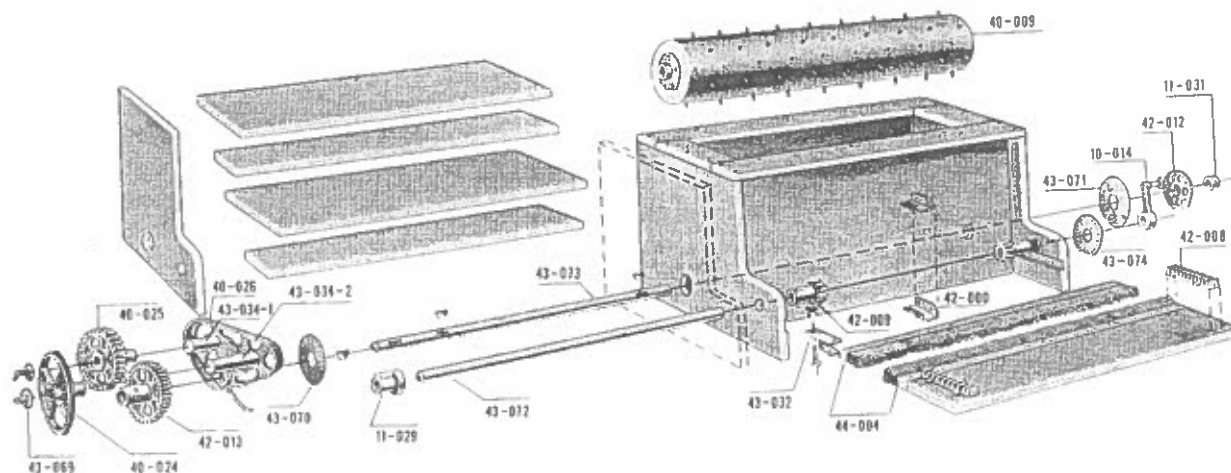


ROLL FEED BRUSH HOPPER

New Part Number	Old Symbol Number	Old Part Number	DESCRIPTION	New Part Number	Old Symbol Number	Old Part Number	DESCRIPTION
10-001	DE	993-A	Swivel Brg. Plate	42-006	CQ	H-38-L	Clutch, (L.H.)
10-003	CY	1067	Universal Joint	42-013	CR	H-33	1" bore (60T) Spur Gear
10-008	DG	G-152	Adjust. Handle	42-014	CS	H-32	1" bore (15T) Pinion
11-016	CT	H-31	5 1/4" dia. Flange Brg.	16VR	—	16VR	16" dia. Clutch Sheave (R.H.)
11-001	DB	992	Pivot Nut Lever	16VL	—	16VL	16" dia. Clutch Sheave (L.H.)
11-020	BM	402	3/4" bore Set Collar	42-020	CJ	34R	Hopper Brg. Frame (R.H.)
11-029	CU	981	1" bore 3 1/2" dia. Flange Brg. for gear and drive shaft	42-023	CJ	34L	Hopper Brg. Frame (L.H.)
11-030	CV	325-B	3/4" bore 2" dia. Flange Brg.	43-020	DH	1013	Hopper Gate Spring
11-031	CW	510	1" bore Set Collar	43-121	DI	1015	Spring Guide Pin
18-000	DC	1011	Pivot Nut	*43-031	—	—	Adjust. Extension Shaft
40-015	EE	1016	Roll (State mod. of cleaner, roll length)	*43-036	DF	1012	Screw Shaft
41-010	—	—	End Board, (R.H.)	43-039	DX	701	Gear Guard
41-011	—	—	End Board, (L.H.)	*43-120	CI	1229	Gate Shaft
42-002	DD	H-39	Slide Lever	*43-028	CL	1242	Roll Shaft
42-003	CX	H-30	Pivot Hinge	*43-048	CK	1237	Drive Shaft
42-004	CZ	37	Clutch Lever	*43-076	—	—	Spike Shaft
42-005	CQ	H-38-R	Clutch, (R.H.)	44-000	DT	1017	Brush for Brush Hopper. State length of brush.

* When ordering shafts specify designated part number, model number, serial number, year of cleaner, shaft length, and shaft diameter.

4... SECTION 2-A



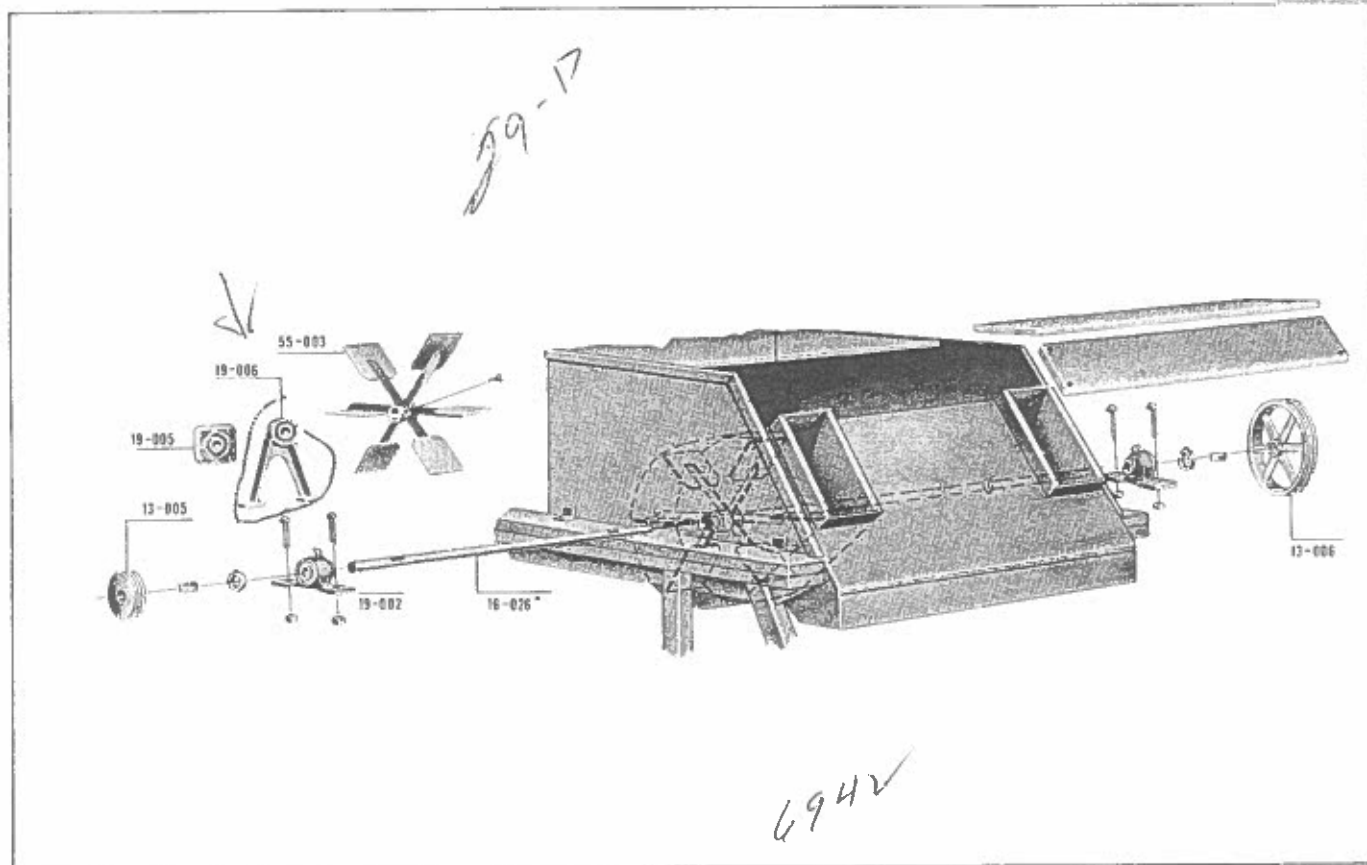
COTTON SEED HOPPER

New Part Number	Old Symbol Number	Old Part Number	DESCRIPTION	New Part Number	Old Symbol Number	Old Part Number	DESCRIPTION
10-014	DG	G152	Adjust. Lever	42-011	—	—	13" V-Sheave (Not shown alone)
11-016	CT	H31	5 1/4"x1" bore Flange (for roll) (Not shown)	42-012	EH	11	10 1/2"x1" bore Flange
11-029	CV	325A-B	1/2" bore 2" dia. Flange Brg.	42-013	CR	H33	1" bore (60T.) Spur Gear (Specify if keyed)
11-031	CW	510	1" bore Ser Collar	42-022	—	—	Pinion (15T) (Not shown alone)
40-009	DQ	1169	Cotton Seed Roll (Specify dia. and mod. # of cleaner)	43-032	EC	1031	Brush Holder
40-024	EB	V-13H32	13" V-Sheave and (15T) Pinion-Compl.	43-034-1	EG	1232	1"x3 1/4" Stub Shaft
40-025	EA	H3332	(60 T.) Gear and (15T) Pinion Ass'y.	43-034-2	EF	1231	1"x5 1/2" Stub Shaft
40-026	—	34R	Gear Frame	43-069	—	—	Washer
42-000	DZ	C2R	Slide (R.H.)	43-070	DV	1240	7" dia. Roll Shield—(Drive)
42-001	DZ	C2L	Slide (L.H.)	43-071	DV	—	9" dia. Roll Shield
42-008	CF	321A	Rack	**43-072	EN	1235	Gate Pinion Shaft
42-009	CB	320	1/2" bore Gate Pinion	*43-073	CL	1242	Roll Shaft
				43-074	—	—	Adjust. Plate
				†44-004	DR	1025	Brush for Cotton Seed Hopper

* When ordering shafts, specify designated part number, serial number, year of cleaner, shaft length, and shaft diameter.

** When ordering this shaft for a 298-D specify length—52 3/4" or 55".

† Specify length of Brush, model number, and year of cleaner.

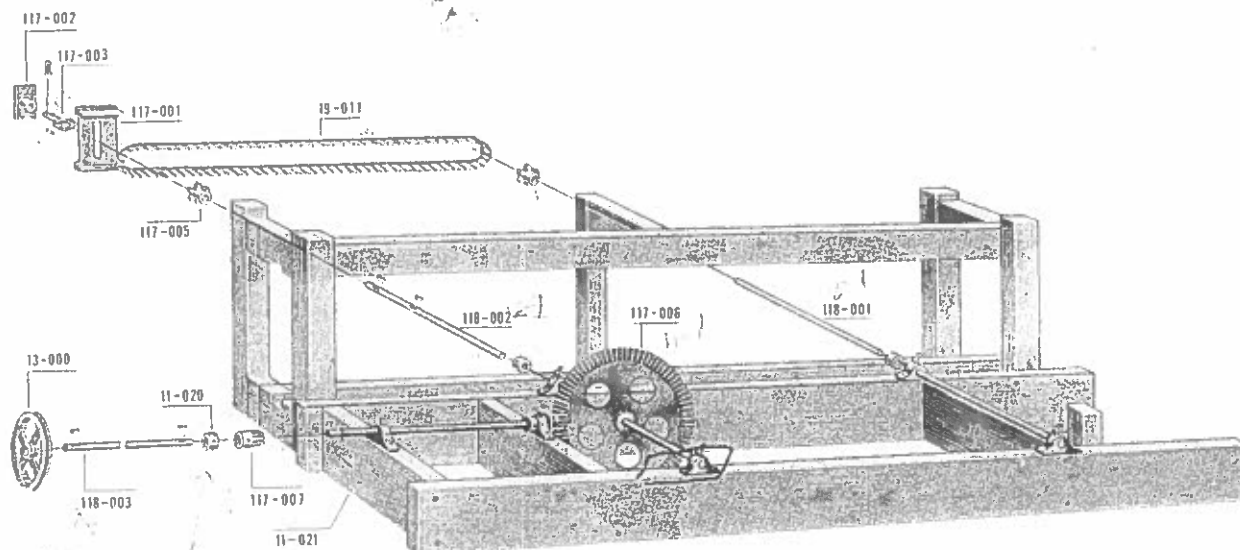


SUCTION FANS

New Part Number	Old Symbol Number	Old Part Number	DESCRIPTION	New Part Number	Old Symbol Number	Old Part Number	DESCRIPTION
13-005	—	—	1-15/16" bore, 3-Gr. 6.0 O.D. V-Sheave (All mod. nos. ending in 8-9)	19-006	—	6942	1-15/16" complete "A" Frame Brg. (Mod. nos. ending in 8-9)
13-006	—	—	1-15/16" bore, 3-Gr. 13.0 O.D. V-Sheave	19-007	—	MUB 1-15/16	1-15/16" B. Brg. for 19-006
13-013	—	—	1-11/16" bore, 2-Gr. 6.0 O.D. V-Sheave (All mod. nos. ending in 7) — (Not shown)	19-008	—	7029	1-11/16" complete "A" Frame Brg. (Mod. nos. ending in 7) — (Not shown)
13-014	—	—	1-15/16" bore, 4-Gr. 13.0 O.D. V-Sheave (Not shown)	19-009	—	MUB 1-11/16	1-11/16" B. Brg. for 19-008 — (Not shown)
13-015	—	—	1-15/16" bore, 5-Gr. 13.0 O.D. V-Sheave (Not shown)	19-044	—	—	Suction Fan Drum Iron (State mod. of cleaner)
*16-026	JA	1274-1275	Top Fan Shaft	19-049	HP	1609	B. Brg. with 1 1/2" Adapter for top fan
19-002	—	SA 1-15/16	1-15/16" Pillow Block Brg. (Mod. nos. ending in 8-9)	19-052	HP	1511	B. Brg. with 1-15/16" Adapter
19-003	—	SA 1-11/16	1-11/16" Pillow Block Brg. (Mod. nos. ending in 7) — (Not shown)	55-000	HV	900-6	1-15/16" bore, 30" dia. Top Fan 6" Blade for 9 series and 18D
**19-004	—	LCJ 1-15/16	1-15/16" Flange Brg. (Mod. nos. ending in 8-9) — (Not shown)	55-001	HV	900-8	1-15/16" bore, 30" dia. Top Fan, 8" Blade for 8 series
19-005	—	LCJ 1-11/16	1-11/16" Flange Brg. (Mod. nos. ending in 7)	55-003	HV	900-10	1-15/16" bore, Top Fan, 10" Blade for 248-D and 2248-D series
				55-006	HV	700	1-11/16" bore, 24" dia. Top Fan, 6" Blade for 7 series

* When ordering shafts—specify designated part number, serial number, year of cleaner, shaft length, and shaft diameter. State if your cleaner has elevator countershaft.

** Choose the style from the illustration—state part number shown, and specify the bore you need.



CHAIN BRUSH DRIVE

New Part Number	Old Symbol Number	Old Part Number	DESCRIPTION	New Part Number	Old Symbol Number	Old Part Number	DESCRIPTION
11-020	BM	402	3/4" Set Collar	117-001	FM	301-B	Crosshead
11-021	DO	108-C	3/4" Pillow Block Brg.	117-002	FL	301-A	Crosshead Slide
13-000	—	BK-80	8" Dia. V-Sheave (Drive) (Specify bore)	117-003	FK	51-D4	Attach. Link
15-000	FA	732	3/4" bore 8" dia. Flat Face Pulley (1 1/2" face)	117-005	FI	971	Sprkt. (7T)—(Specify keyed or not)
15-006	FA	930	3/4" bore 8" dia. Flat Face Pulley	117-006	FC	310	Bevel Gear
19-011	FJ	51	Malleable Link Chain—28 links for model 16; 33 links for series 7; 41 links for series 9; 62 links for series 8 (Specify model)—for double brush carrier.	117-007	FD	311	Bevel Pinion
				* 118-001	FE	1249	3/4"x13 3/8" Idler Shaft not keyed
19-011	FJ	51	Malleable Link Chain—48 links for model 16; 58 links for model 47; 72 links for model 39; 92 links for series #8, (Specify model)—for single brush carrier.	* 118-002	FE	1248	3/4"x11 1/2" Drive Shaft keyed
				* 118-003	FE	1250	Drive Shaft—(State length and key requirements)

SPECIAL NOTE: If chain is #45 with (5T.) Sprockets, it was a war improvisation and now obsolete. We recommend using #51 Chain (7T.) Sprockets in its place.

When ordering complete Jack, specify model and serial number of your cleaner. Refer to Section #3 for price.

* When ordering shafts—specify designated part number, serial number, model number, year of cleaner, shaft length, and shaft diameter.

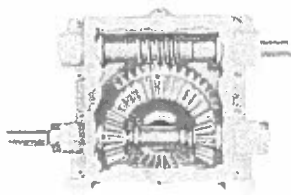


FIG. 1

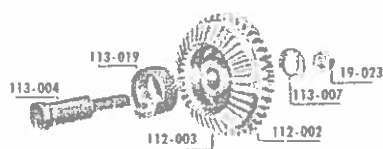


FIG. 2

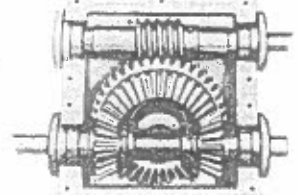


FIG. 3

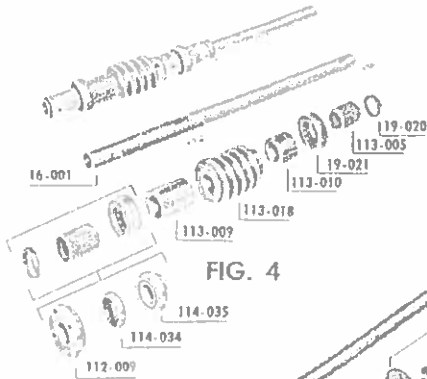


FIG. 4

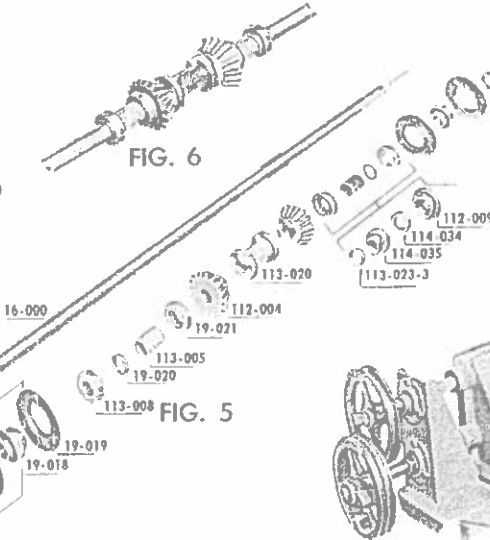
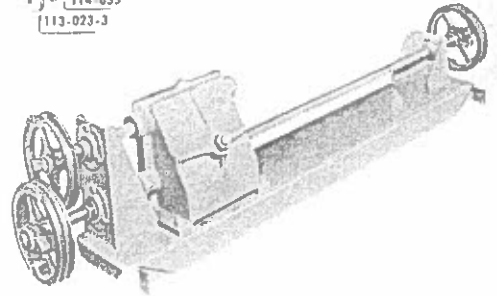


FIG. 5



FIG. 7



SUPER UNIT BRUSH DRIVE
RING GEAR ASSEMBLY—FIG. 2

New Part Number	Old Part Number	DESCRIPTION
19-023	---	3/4-10 Hex. Nut
112-002	---	Worm Gear
112-003	---	Bevel Ring Gear
113-004	---	Stud
113-007	---	Gramix Thrust Washer
113-019	---	Cam
ROPE WINDER SHAFT ASSEMBLY — FIG. 5-6		
16-000	---	Rope Shaft
19-018	---	Brg. and Collar
19-019	---	Flange for 19-018 Brg.
*19-020	62044	Oil Seal
*19-021	609	Thrust B. Brg.
112-001	---	Bevel Pinion—Specify (R) or (L)
*112-009	---	Cast Brg. Cap
*113-005	---	Gramix Brg.
*113-008	---	1" Collar
113-020	---	Clutch
*113-023-3	---	1" bore, 1 1/2" dia., .287" LG Spacer
*114-034	---	Victoprene Oil Seal #60245
*114-035	---	S.K.F. Radial Brg. #450205-100

Continued on pages 8, 9, 10

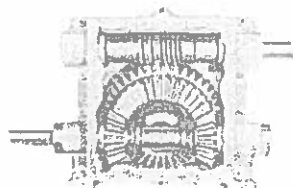


FIG. 1



FIG. 2

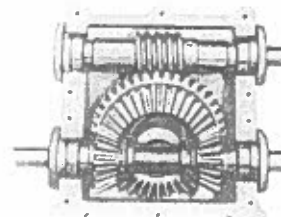


FIG. 3

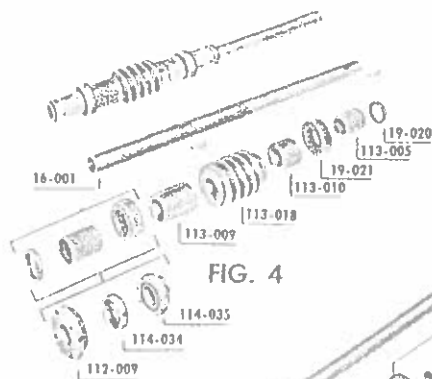


FIG. 4

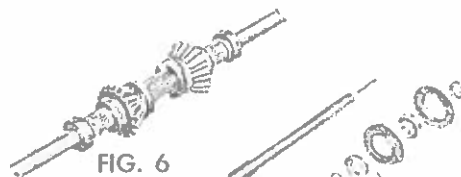


FIG. 6



FIG. 7

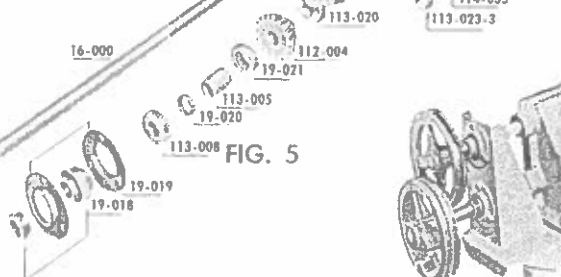


FIG. 5

SUPER UNIT BRUSH DRIVE DRIVE SHAFT ASSEMBLY — FIG. 4

New Part Number	Old Part Number	DESCRIPTION
16-001	—	Drive Shaft
* 19-020	—	Oil Seal
* 19-021	—	Thrust Bearing
* 113-005	—	Gramix Bearing
113-009	—	1" bore, 1½" dia., 1-13/16" long—Spacer
113-010	—	1" bore, 1½" dia., 1¼" long—Spacer
113-018	—	Worm
* 114-034	—	Victoprene Oil Seal #60245
* 114-035	—	S.K.F. Radial Brg. #450205-100
* 113-023-3	—	1" bore, 1½" dia., .287" LG dia. Spacer
MISCELLANEOUS PARTS — FIG. 7		
19-022	—	¼" dia. x 2" LG Groove Pin
112-000	—	Gear Box Back Casting
112-001	—	Cover Casting
112-006	—	Shear Pin Lever
113-005	—	Gramix Bearing
113-012	—	Shear Pin
—	—	2 Oz. Tube Cement Seal
—	—	Seal Spreader

* Group parts I used on all Super Units prior to Unit Serial #2686-B.

** Group parts II used on all Super Units after Unit Serial #2686-B. This number was released April 24, 1952.

Continued on pages 9, 10

INSTRUCTIONS TO DISMANTLE AND REASSEMBLE THE CLIPPER SUPER UNIT BRUSH DRIVE

Outlined is the factory recommended step by step procedure to replace any part of the Super Unit Brush Drive. *The extent of damage will determine how much of the following will have to be done.*

DISMANTLE

To Remove unit from cleaner and Open Gear Box to expose parts —

1. Remove 8 mounting bolts, remove ropes, belts, sheaves and lift complete unit from cleaner.
2. Remove 3 flange bearings at ends of shafts.
3. Remove 4 base mounting bolts from gear box.
4. Remove drain plug and turn unit this way and that to allow most of the lubricant to drain. Lay the unit on its back or with back casting #4BJ1 (112-000) down and remove 10 Allen cover mounting screws from the cover casting #4BJ2 (112-001) Fig. 1 * (Fig. 3).
5. Wash each part in gasoline as removed and completely flush gear box when empty.

To Strip Rope Winder Shaft #16-000 — Fig. 5 and 6

1. Lift Shaft (with bevel pinions and clutch) from back gear housing #112-000.
2. Loosen Allen screw in both outer collars #113-008 and slip them off shaft. File burrs left by setscrews.
3. Remove the following either way from shaft to get to injured part, laying each part in front of you as each appears in assembly:

a. Seal #19-020 b. Bronze Sleeve Brg. #113-005 (made right and left) c. Thrust Brg. #19-021 d. Bevel Pinion (matched right and left) #112-004	e. Clutch Body #113-020 f. Seal g. Bronze Sleeve Brg. h. Thrust Brg. i. Bevel Pinion (matched right and left)
--	---

(Refer to Group II parts Fig. 6 if drive serial number is above 2686-B — In this case you'll remove Cover Flange, Seal, Thrust Brg. and Collar)

To Strip Drive Shaft #16-001 (with worm) — Fig. 4

1. Lift assembly from back housing and remove the following, laying each part in its respective assembly order:

a. Seal b. Bronze Sleeve Brg. (made right and left) #113-005 c. Thrust Brg. #19-021 d. Spacer (one large #113-010 one small)	e. Loosen setscrew and remove worm #113-010 f. Seal g. Bronze Sleeve Brg. h. Thrust Brg. i. Spacer (one large — one small) #113-009
---	---

To Remove Ring Gear #112-002 — Stud #113-004 — Cam #113-019 — Fig. 2

1. Lift out cam #113-019
2. Remove nut #19-023 on back of back housing #112-000 and drive stud from back to front with lead hammer. *Remove gasket cement with scraper from both castings and wash surfaces with gasoline.*

REASSEMBLE

Assembly procedure must be followed to insure proper timing, or this unit will not function satisfactorily.

To Reassemble Ring Gear — Stud — Cam — Fig. 2

1. Place stud in gear #112-003.
2. Place bronze thrust washer on stud shaft #113-007 #113-004.
3. Center the stud #113-004 and gear and set in back housing #112-000.

Continued on page 10

INSTRUCTIONS TO DISMANTLE AND REASSEMBLE THE CLIPPER SUPER UNIT BRUSH DRIVE—Continued

4. Drive stud into casing stud hole *until stud head is approximately 3/8" from top of gear hub.*
5. Set gear box upright and position (with fingers) the thrust washer #113-007 over the 1 1/4" diameter stud shaft shoulder.
6. Install nut #19-025 on thread in back of back housing and draw up tight as possible.
7. Lay gear box on its back and place cam #113-019 on stud head (make sure drive pin engages hole)

To Assemble Rope Winder Shaft #16-000

1. Slip parts on shaft as follows (starting from center):

a. Clutch (be sure to install the way it came off shaft) b. Bevel Pinion c. Thrust Brg. d. Bronze Sleeve Brg. (made right and left)	e. Bevel Pinion f. Thrust Brg. g. Bronze Sleeve Brg. (made right and left) h. Oil Seal i. Position in back housing
--	--

To Time Drive

1. Set Ring Gear so that marked tooth aligns with top and bottom center back housing screw holes. See punch mark in Ring Gear Fig. 1.
2. Rotate Clutch Body and Pinions so that punch marks, on both ends of clutch, match with marks on each pinion (All marks will be in *Up* position) — See Fig. 1
3. Rotate Sleeve Brgs. on shaft so pin engages small hole in sleeve. *Large hole is an oil port.* Drop in position so gear teeth mesh.
4. *To check timing* count 8 teeth each way from center or marked tooth of ring gear and find notch marked teeth on outside edge of gear. If marks do not align with corresponding marks on bevel gears, make correction.

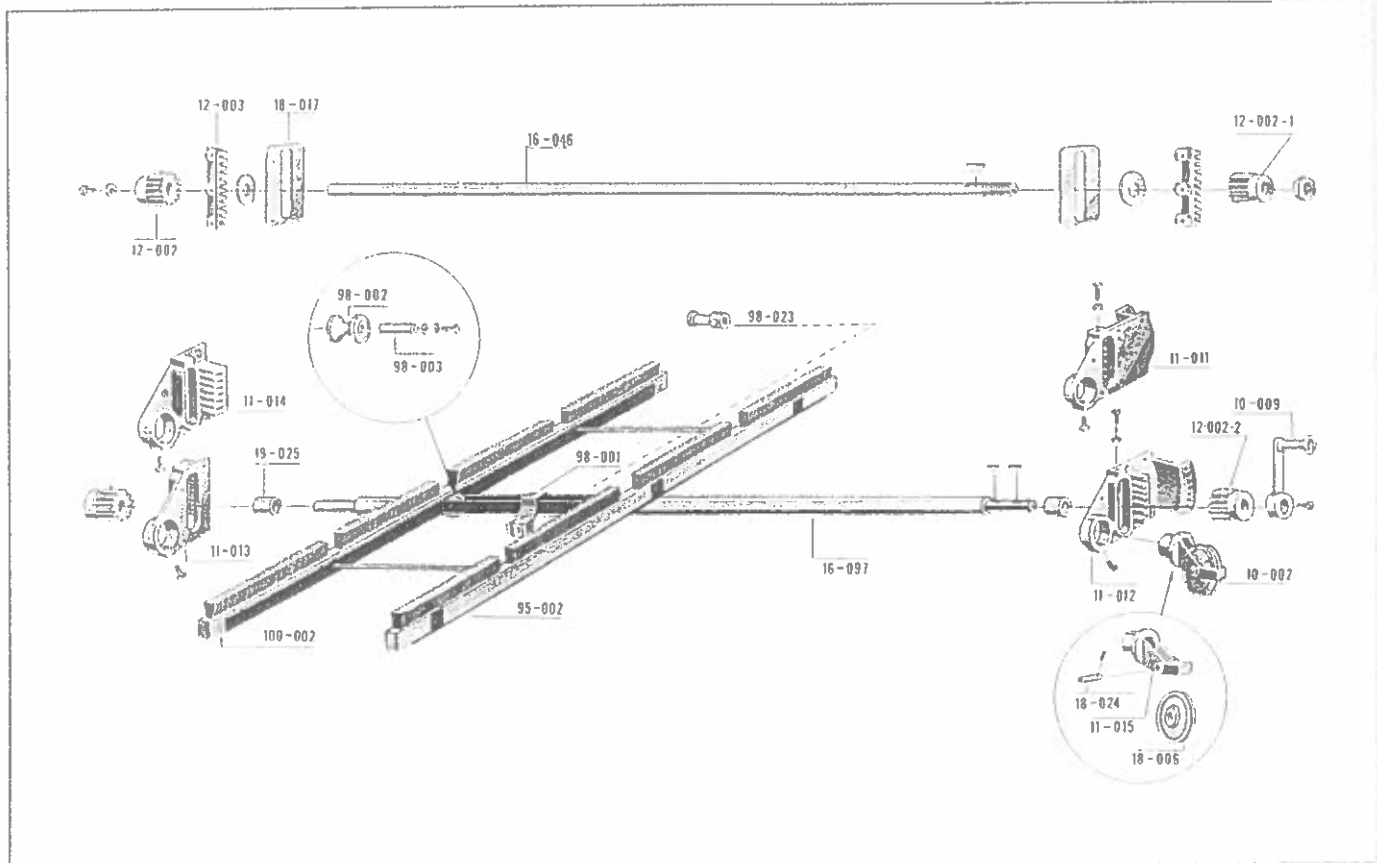
To Assemble and Install Drive Shaft Assembly

1. Replace the following parts:

a. Worm — tighten Allen screw b. Short spacer c. Thrust Brg. d. Bronze Sleeve Brg.	e. Long spacer f. Thrust Brg. g. Bronze Sleeve Brg. h. Oil Seal
---	--
2. Place Shaft Assembly in position in back housing.
3. Rotate Sleeve Bearings on shaft so pin in casting engages *small* hole in sleeve.
4. Turn Drive Shaft counterclockwise and watch the clutch activate each pinion alternately at the beginning and end of each complete cycle of the ring gear.
5. Apply Special Cement with Special Spreader to base — (both items provided by factory) — See Fig. 7.
 - a. Be careful to put cement on as thin as possible with applicator staying clear of end brg. surfaces and shafts. Also, do not get in oil groove.
6. Install cover — draw Allen screws up tight.

To Reinstall in Cleaner

1. Mount unit in steel frame.
2. Replace base mounting bolts — leave loose for alignment.
3. Reassemble self-aligning brgs. on outside of frame brg. supports.
4. Tighten all bolts securely.
5. Set Drive unit in operating position and refill thru top filler hole with factory recommended Stanogear 4x Leaded Lubricant until fluid flows from drain plug opening.
6. Replace drain plug and *be sure to place vent plug in filler hole.*
7. Drive shear pin into shear pin lever so end of pin is flush with outside of casting as illustrated Fig. 7.
8. Place Drive unit in Cleaner and install bolts.
9. Replace collar, slip on rope winding sheave and shear pin lever.
 - a. Install groove pin through shear pin casting and rope winder shaft.
 - b. Bring rope winder sheave forward and engage shear pin with hole in sheave.
 - c. Bring collar forward tight to sheave and set.
10. Replace other collars, sheaves and ropes.



BRUSH CARRIER—(NEW STYLE)

New Part Number	Old Symbol Number	Old Part Number	DESCRIPTION	New Part Number	Old Symbol Number	Old Part Number	DESCRIPTION
10-002	RB	303AD	Rope Sheave Ass'y.	12-003	RW	EJ2FA	Rocker Adjust. Rack—
10-009	RJ	303AC	Lever Ass'y.				(Specify cleaner mod. #)
11-005	RO	3304ACR	3 hole Plate (R)	*16-046	SA	1340	Tilt Shaft
11-006	RP	3304ACL	3 hole Plate (L)	*16-097	RS	1334	Brush Shaft
11-011	RF	303RHF	Right Rack with Flange (Specify cleaner mod. #)	18-006	RD	71	Rope Sheave, specify 2 1/4" or 3" dia.
11-012	RG	303LHF	Left Rack with Flange (Specify cleaner mod. #)	18-017	RX	1160	Escutcheon Plate
11-013	RH	303RH	Right Rack	18-024	RE	72	Axle
11-014	RI	303LH	Left Rack	19-025	—	—	Rubber Bushing
11-015	RC	303AB	Brke.	95-002	RT	1163	Brush Carrier Assembly (State mod. # of cleaner and brush carrier length)
11-039	RM	304ACR	4 hole Plate (R)	98-001	RA	New Style	Rope Clamp
11-040	RN	304ACL	4 hole Plate (L)	98-002	RU	1164	Roller and Brg.
11-041	RR	3304ACL	2 hole Plate (L)	98-003	RV	1165	Axle
11-042	RQ	3304ACR	2 hole Plate (R)	98-023	RA	Old Style	Rope Clamp
12-002	RK	303PS	Partial Pinion (with allen only)	**100-002	GM	1050	31" Brush (#16 and #47)
12-002-1	RK	303PS	Partial Pinion (with key-way only)	**100-002-1	GM	1050A	37" Brush (#37 and #78-D)
12-002-2	RK	303PS	Partial Pinion (with allen and keyway)	**100-002-2	GM	1051	48" Brush (#9 and #8)

* Specify Shaft Length, Shaft Diameter, and Key Requirements.

** State Length of Brush Also Type Bristles.

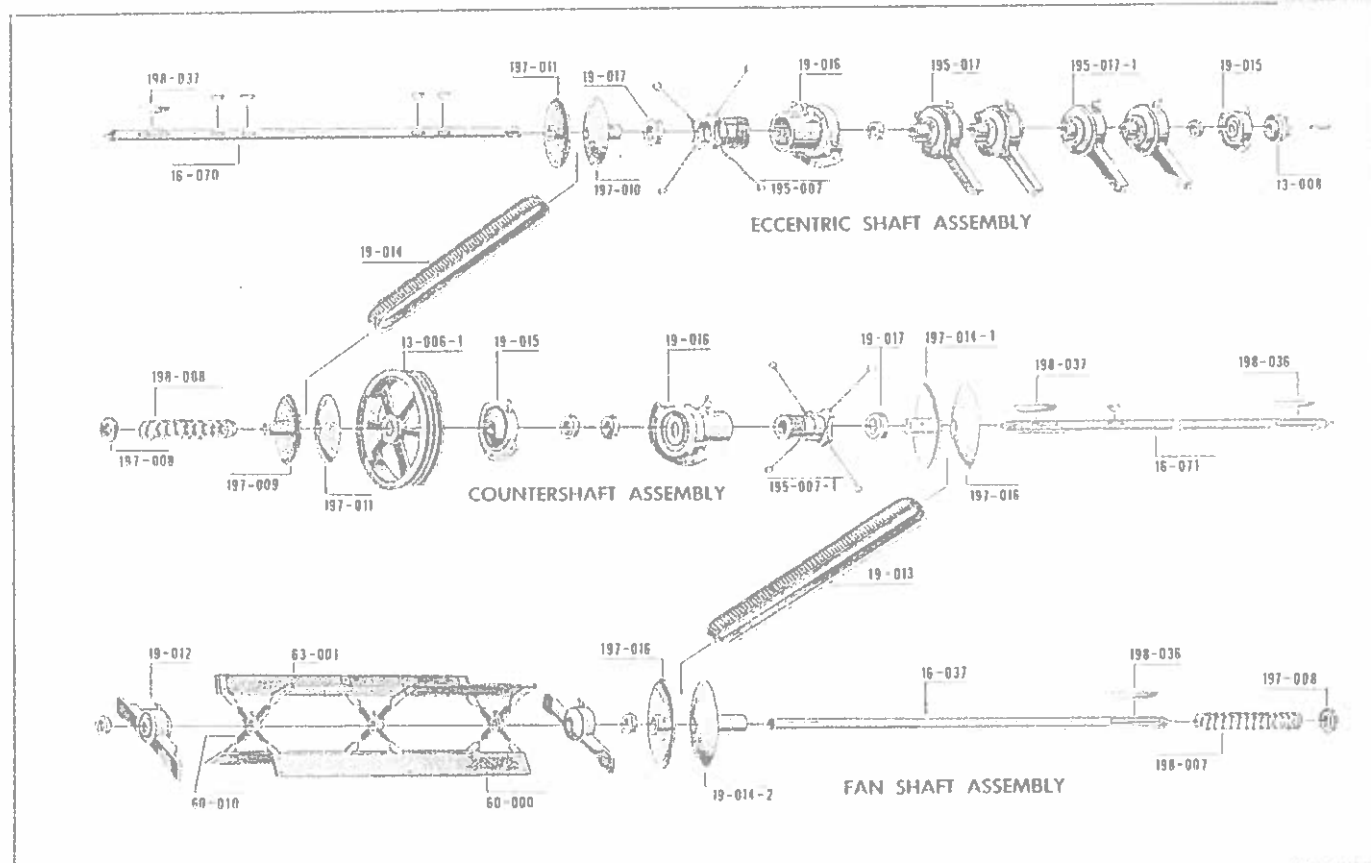
BRUSH DRIVE CABLE

#8 and #10 Sash Cord—Refer to price list—Section 3. Nylon covered steel cable—Section 3

MISCELLANEOUS MAIN SHAFTS AND BEARINGS

(Listed alphabetically by old symbol #)

New Part Number	Old Symbol Number	DESCRIPTION
1200	AA	1-3/16" dia. x 48" Ecc. Shaft for 3-step pulley
1201	AA	1-3/16" dia. x 54 1/4" Ecc. Shaft for 3-step pulley
1202	AA	1 3/8" dia. x 64 1/4" Ecc. Shaft for 3-step pulley
1205	AA	1 1/2" dia. x 73" Ecc. Shaft for flat face pulley
745	AF	1-3/16" Angle-box Brg. complete (babbitted)
945	AF	1 3/8" Angle-box Brg. complete (babbitted)
945A	AF	1 1/2" Angle-box Brg. complete (babbitted)
1204	AR	1-3/16"x40 1/2" Fan Shaft for 3-step pulley
1205	AR	1-3/16"x48" Fan Shaft for 3-step pulley
1206	AR	1 3/8"x56 1/4" Fan Shaft for 3-step pulley
1207	AS	1-3/16"x47 3/4" d'ble-key Fan Shaft for vari. drive
1208	AS	1-3/16"x53 3/4" d'ble-key Fan Shaft for vari. drive
1209	AS	1 3/8"x62 1/4" d'ble-key Fan Shaft for vari. drive
1210	AS	1 1/2"x59 3/4" d'ble-key Fan Shaft for vari. drive
1211	AS	1 1/2"x75" d'ble-key Fan Shaft for vari. drive
1212	AS	1 1/2"x71 3/4" d'ble-key Fan Shaft for vari. drive
747	AT	1-3/16" Bridgetree Brg. complete (babbitted) for fan shaft
947	AT	1 3/8" Bridgetree Brg. complete (babbitted) for fan shaft
947A	AT	1 1/2" Bridgetree Brg. complete (babbitted) for fan shaft
1223	BE	1 3/8"x53 1/2" Drive Shaft used on Models 116-147
1224	BE	1 3/8"x58" Drive Shaft used on Models 116-147
1308	BE	1 3/8"x78" d'ble-key Countershaft (with V.S.S. and V.A.R.) for Mod. 29
1309	BE	1 1/2"x78" d'ble-key Countershaft (with V.S.S. and V.A.R.) for Mod. 29
1310	BE	1 1/2"x90" d'ble-key Countershaft (with V.S.S. and V.A.R.) for Mod. 298
1306	BE	1 3/8"x71" Countershaft (without V.S.S.) for Mod. 29
1307	BE	1 1/2"x71" Countershaft (without V.S.S.) for Mod. 29
1225	BJ	3/4"x17" Vert. Shaft for spout shaker
1213	BT	1-3/16"x54" d'ble-key Ecc. Shaft for vari. speed drive
1214	BT	1-3/16"x60 1/4" d'ble-key Ecc. Shaft for vari. speed drive
1215	BT	1-3/16"x58" d'ble-key Ecc. Shaft for vari. speed drive
1216	BT	1-3/16"x64" d'ble-key Ecc. Shaft for vari. speed drive
1217	BT	1 3/8"x71" d'ble-key Ecc. Shaft for vari. speed drive
1218	BT	1 3/8"x75" d'ble-key Ecc. Shaft for vari. speed drive
1219	BT	1 1/2"x71" d'ble-key Ecc. Shaft for vari. speed drive
1220	BT	1 1/2"x75" d'ble-key Ecc. Shaft for vari. speed drive
1221	BT	1 1/2"x83" d'ble-key Ecc. Shaft for vari. speed drive
1222	BT	1 1/2"x85" d'ble-key Ecc. Shaft for vari. speed drive
19-056	SE	1 1/2" Pillow Block B. Brg. for elevator countershaft
19-057	SG	1-3/16" Pillow Block Brg. for countershaft

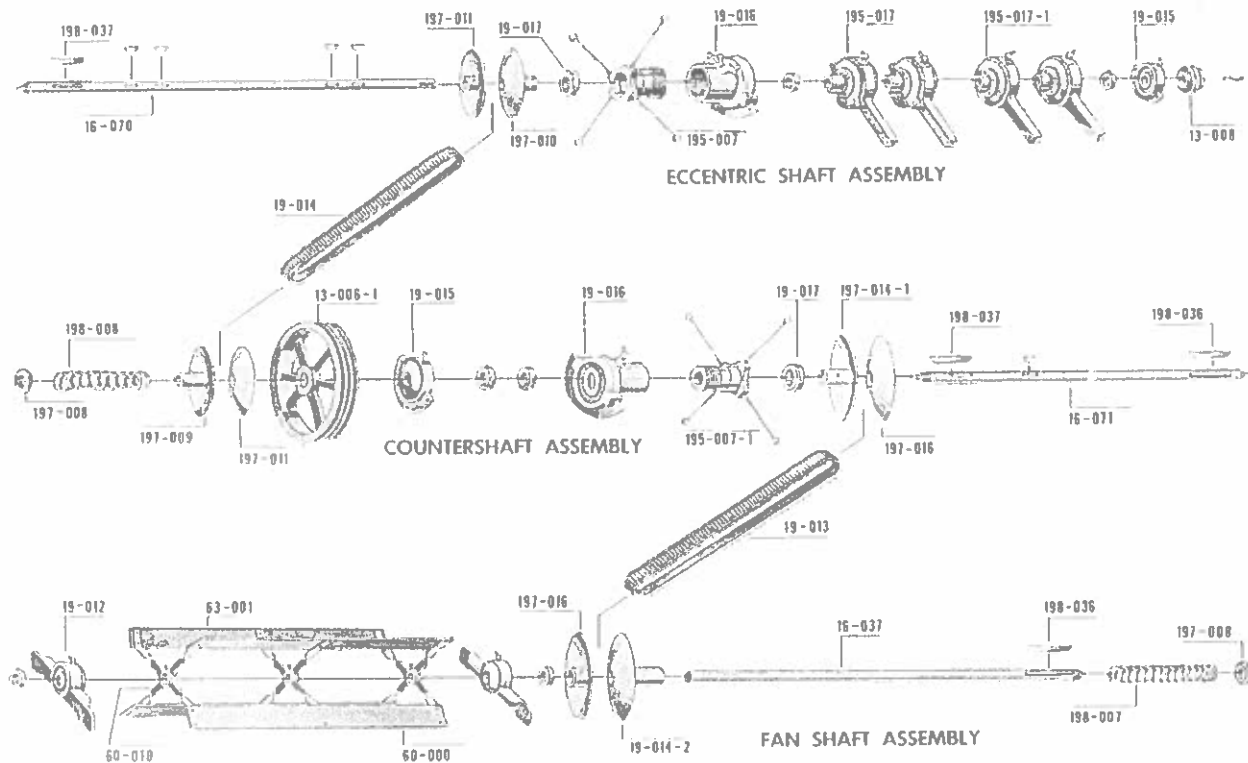


ECCENTRIC SHAFT ASSEMBLY

New Part Number	Old Symbol Number	Old Part Number	DESCRIPTION	New Part Number	Old Symbol Number	Old Part Number	DESCRIPTION
13-008	—	—	1 1/2" 3"-4" comb. 2 gr. V-Sheave	195-026-1	AO	753-A	1-3/16" B. Brg. Ecc. (L)
13-008-1	—	—	1-3/16" 3"-4" comb. 2 gr. V-Sheave	195-027	—	—	1 1/2" Plain Ecc.
*16-070	LB	1325	1 1/2" Ecc. Shaft	195-027-1	—	—	1-3/16" Plain Ecc.
*16-070-1	LB	1266	1-3/16" Ecc. Shaft	195-030	AN	954	1 1/2" B. Brg. Ecc. Hub
19-015	AM	A-6714	1 1/2" B. Brg. and Housing	195-031	AN	754	1-3/16" B. Brg. Ecc. Hub
19-016	SF	7473	1 1/2" B. Brg. and Housing	197-010	LG	V-9-BL	9"-1 1/2" bore Sliding Disc
19-017	LH	D-34	Thrust B. Brg. for 197-010	197-011	LF	V-9-AL	9"-1 1/2" bore Stationary Disc
19-038	AM	A-7017	1-3/16" B. Brg. and Housing	197-012	LG	V-9-B	9"-1-3/16" bore Sliding Disc
19-039	SF	8073	1-3/16" B. Brg. and Housing	197-017	LF	V-9-A	9"-1-3/16" bore Stationary Disc
19-040	LH	D-25	Thrust B. Brg. for 197-012	197-018	LK	V-9-C	Adjust. Nut for 19-039
19-046	SF	7408	1-3/16" B. Brg. and Housing	197-026	AH	744	1-3/16" Plain Ecc. Hub
19-050	HP	6213	1 1/2" B. Brg.	197-026-1	AH	944	1 1/2" Plain Ecc. Hub
19-051	HP	6210	1-3/16" B. Brg. for 6 and 7 series	197-026-2	AH	944-A	1 1/2" Plain Ecc. Hub
19-053	HP	MUB 1-3/16	1-3/16" B. Brg. for 19-038	197-027	AI	943	Plain Ecc. Strap (all size shafts)
19-054	HP	MUB 1 1/2	1 1/2" B. Brg. for 19-015	198-037	—	—	5/16" Special Key for 1 1/2" shaft
195-007	LK	V-42-C	Adjust. Nut for 19-016	198-038	—	—	1/4" Special Key for 1-3/16" shaft
195-017	AO	953-A	1 1/2" B. Brg. Ecc. (R)	MUA 1-3/16	—	MUA	1-3/16" B. Brg. for 19-046 Housing
195-017-1	AO	953-A	1 1/2" B. Brg. Ecc. (L)	MUA 1 1/2	—	MUA	1 1/2" B. Brg. for 19-016 Housing
195-026	AO	753-A	1-3/16" B. Brg. Ecc. (R)				

* When ordering shafts—specify designated part number, serial number, year of cleaner, shaft length, and shaft diameter.

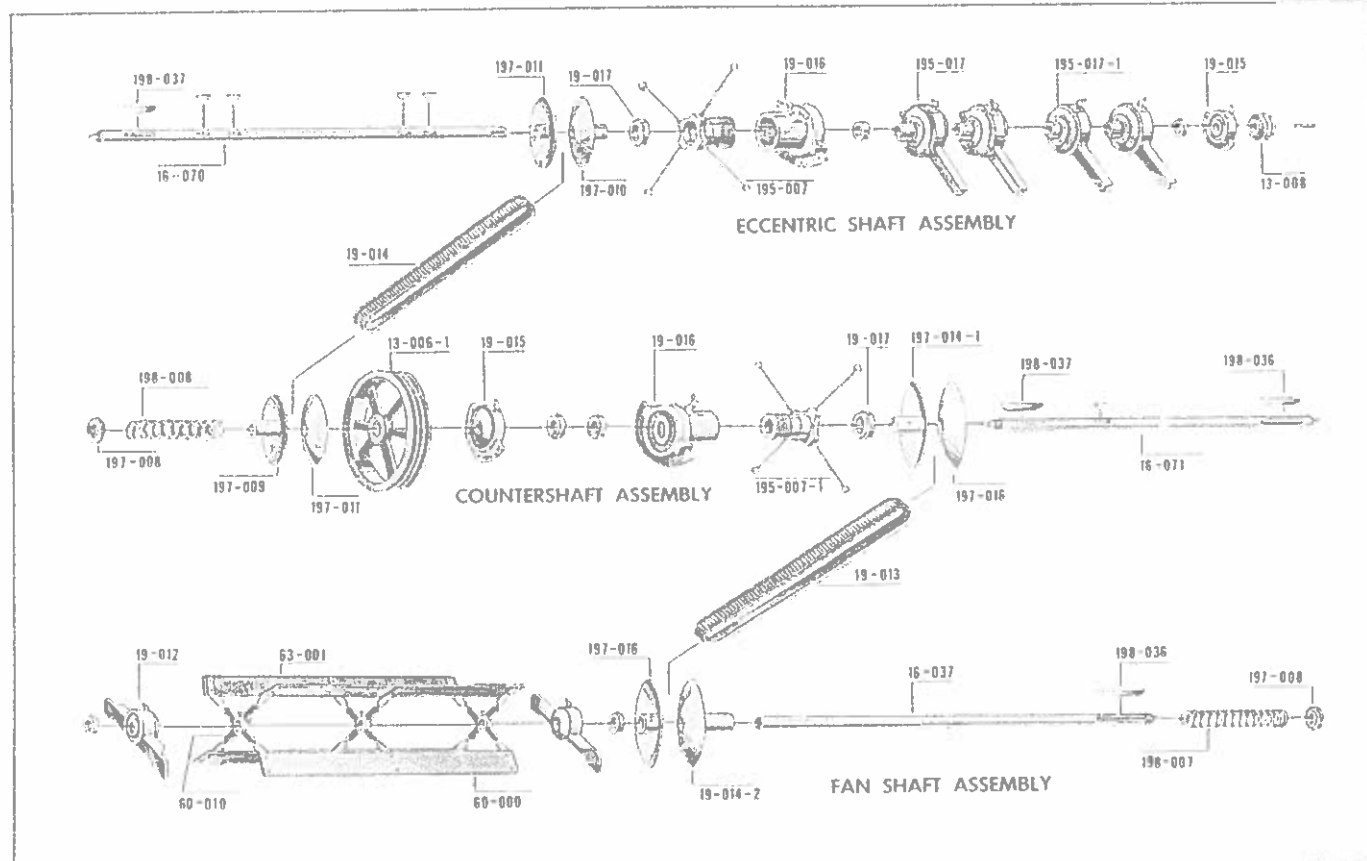
14... SECTION 2-F



COUNTERSHAFT ASSEMBLY

New Part Number	Old Symbol Number	Old Part Number	DESCRIPTION	New Part Number	Old Symbol Number	Old Part Number	DESCRIPTION
13-006-1	—	12-4	1½" bore 13.0 O.D. 3 Gr.—V-Sheave	197-009	LG	V-9-BL	9"—1½" bore Sliding Disc
13-016	—	12-4	1-3/16" bore 13.0 O.D. 2 Gr.—V-Sheave	197-011	LF	V-9-AL	9"—1½" bore Stationary Disc
* 16-071	LB	13-31	1½" Countershaft	197-012	LG	V-9-B	9"—1-3/16" bore Sliding Disc
* 16-071-1	LB	—	1-3/16" Countershaft	197-014-1	LG	V-12-BL	12"—1½" bore Sliding Disc
19-014	LA	ATF-17	Vari. Speed Belt	197-016	LF	V-12-A	12"—1½" bore Stationary Disc
19-015	AM	A-6714	1½" Brg. and Housing	197-017	LF	V-9-A	9"—1-3/16" bore Stationary Disc
19-016	SF	7475	1½" Brg. and Housing	197-018	LK	V-9-C	Adjust. Nut for 19-039
19-017	LH	D-54	1½" Thrust B. Brg.	197-019	LE	V-9-D	Hand Nut for 1-3/16" Shaft
19-038	—	A-7017	1-3/16" Brg. and Housing	198-006	LD	V-9-E	Spring for 197-012
19-039	SF	8073	1-3/16" Brg. and Housing	198-008	LD	V-12-E	Spring for 197-009
19-040	LH	D-25	1-3/16" Thrust B. Brg.	198-036	—	—	6¼" Special Key
195-007-1	LK	V-12-C	Adjust. Nut for 19-016	198-037	—	—	5¼" Special Key
197-008	LE	V-12-D	Hand Nut for 1½" Shaft	198-038	—	—	4¾" Special Key for all 1-3/16" Shafting

* When ordering shafts—specify designated part number, serial number, year of cleaner, shaft length, and shaft diameter.



BOTTOM FAN SHAFT ASSEMBLY

New Part Number	Old Symbol Number	Old Part Number	DESCRIPTION	New Part Number	Old Symbol Number	Old Part Number	DESCRIPTION
* 16-037	LC	1326	11½" Fan Shaft (State mod. of cleaner and length)	63-001	—	661	Fan Blade—(State mod. and year of cleaner)
* 16-073	LC	1267	1-3/16" Fan Shaft	119-003	KT	1507	21½"x84½" Vari. Speed Belt for 6 and 7 series cleaner
90-012	AV	A-6715	11½" Bridge Tree Brg.—Mod. #s ending in 8 or 9	197-008	LE	V-12-D	Hand Nut for 11½" Shaft
19-013	LA	ATF-34	Vari. Belt	197-014-2	LG	V-12-B	12"—1½" bore Sliding Disc
19-037	AV	A-7018	1-3/16" Bridge Tree Brg.—Mod. #s ending in 6 or 7	197-016	LF	V-12-A	12"—1½" bore Stationary Disc
197-079	—	—	Complete Fan (State mod. and year of cleaner)	197-016	LE	V-9-D	Hand Nut for 1-3/16" Shaft
60-000	—	—		198-006	LD	V-9-E	Spring for 197-012
60-010	—	551	11½" Fan Arm	198-007	LD	V-12-F	Spring for 19-014-2
60-017	—	551	1½" Fan Arm	198-036	—	V-12	6¼" Special Key
60-026	—	551	1-3/16" Fan Arm	198-037	—	V-9	5¼" Special Key

* When ordering shafts—specify designated part number, serial number, year of cleaner, shaft length, and shaft diameter.

16... SECTION

2-F



197-015



195-032



155-006



199-005



199-009



199-006



199-011



19-049



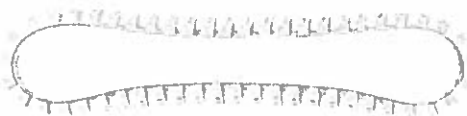
199-013



199-012



199-004



119-003



199-007

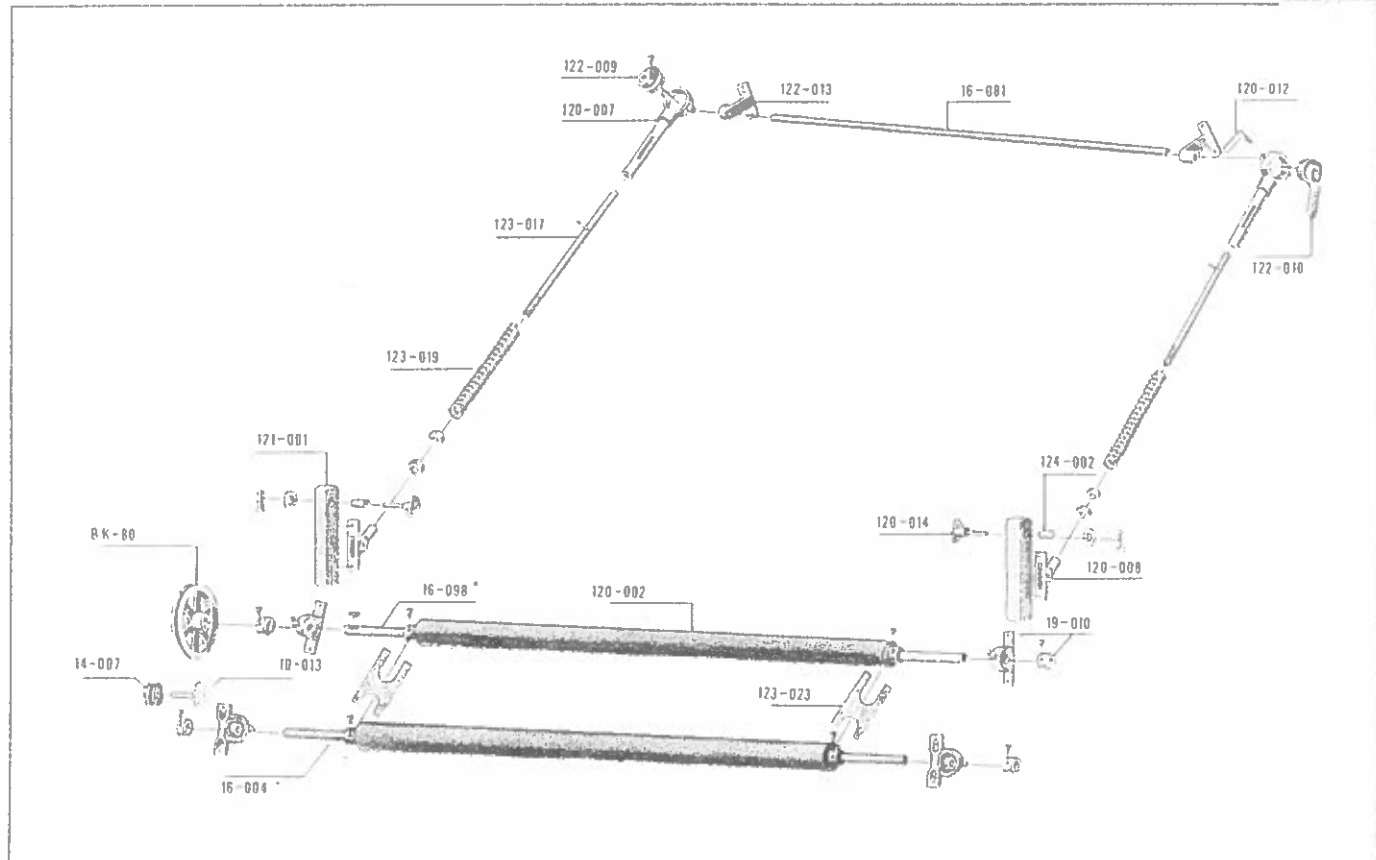
199-008



199-014

PARTS USED IN OLD ECCENTRIC, COUNTERSHAFT AND FAN SHAFT ASSEMBLIES

New Part Number	Old Symbol Number	Old Part Number	DESCRIPTION	New Part Number	Old Symbol Number	Old Part Number	DESCRIPTION
19-055	HP	6211	B. Brg. for 195-032	199-004-B	KI	1315	3/4"x13 3/8" Adjust. Screw (Old Ass'y)
119-003-1	KT	1508	3"x20 1/2" Vari. Speed Belt for 7 series cleaners	199-005	KJ	S-17	Foot Brg. Brkt. for 199-004
119-003-2	KT	1509	2 1/2"x10 1/4" Vari. Speed Belt for 8-9 series cleaners	199-006	KK	1264	3/4"x13 1/2" Adjust. Screw for 199-007
119-003-3	KT	1510	3"x110 3/4" Vari. Speed Belt for 8-9 series cleaners	199-006-A	KK	1316	3/4"x12" Adjust. Screw (Old style)
119-003-4	KT	1511	3"x129 3/4" Vari. Speed Belt for models 29, 298 cleaners	199-007	KL	S-20	(9T.) Sprkt. for 199-006
119-003-5	KT	1512	3"x135 1/4" Vari. Speed Belt for model 298	199-008	KM	No. 25	Sprkt. Chain
155-006	JQ	S-19	Hand Wheel (Old style)	199-009	KN	S-15-L	Spacer Block (LH Thread)
195-032	KB	S-22	B. Brg. Housing for 19-055 Bearing	199-010	KN	S-15-R	Spacer Block (RH Thread)
197-015	KA	S-10	1 3/8" bore 12" Vari. Disc (double-keyed)	199-011	KO	1062	33 1/4" Offset Bar
197-015-1	KA	S-10	1 1/2" bore 12" Vari. Disc (double-keyed)	199-011-1	KO	1063	43 1/2" Offset Bar
				199-011-2	KO	1064	52 3/4" Offset Bar
199-004	KI	1263	3/4"x15" Adjust. Screw (Old Ass'y)	199-012	KP	S-16	Center Rod Support Brkt.
199-004-A	KI	1314	3/4"x20 1/2" Adjust. Screw (Old Ass'y)	199-013	KQ	S-14	3/4" bore Spacer Block (Plain)
				199-014	KR	1265	3/4"x13 3/4", 12", 15" Support Rod (Specify length)

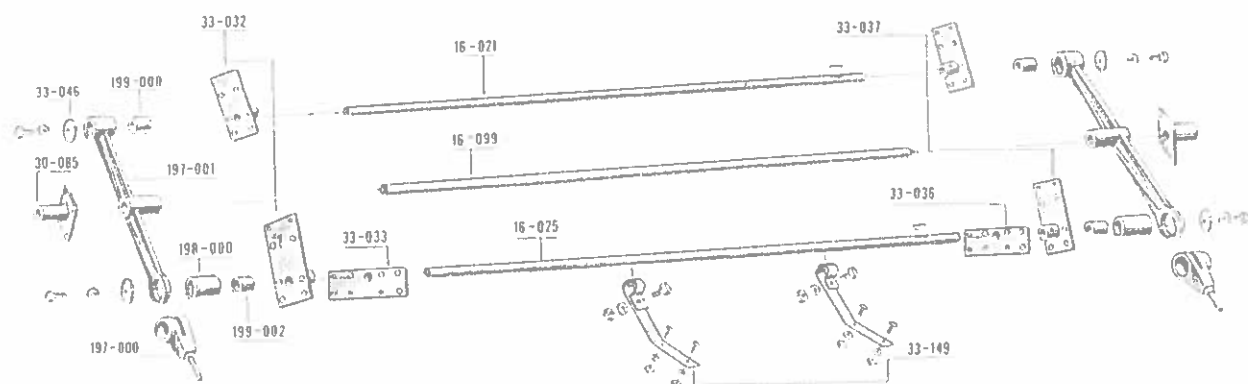


CLAY CRUSHING ROLLS FOR ALL SUPER MODELS EXCEPT THE 248-D

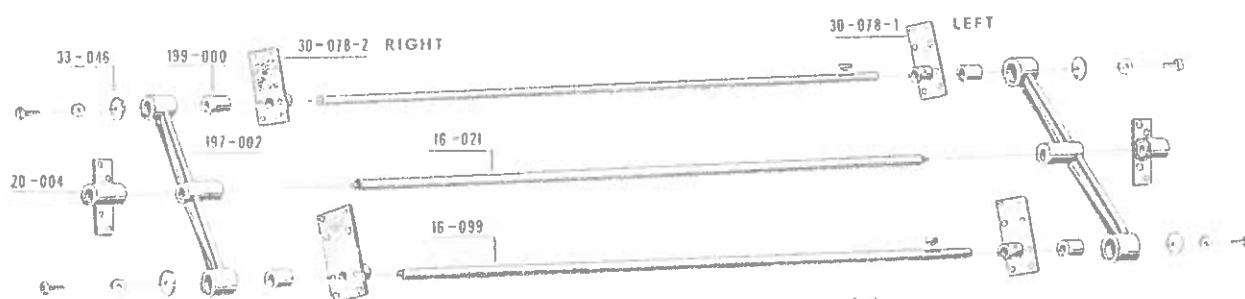
New Part Number	Old Symbol Number	Old Part Number	DESCRIPTION	New Part Number	Old Symbol Number	Old Part Number	DESCRIPTION
10-013	—	303AE	Idler Stool 4 1/8" long	120-007	IG	964A	Ecc. Strap and Arm
13-000	—	BK80	8" V-Sheave	120-008	IK	967A	Pivot Brkt. Ecc. Rod
14-007	—	—	Idler V-Sheave	120-012	—	—	Ecc. Lock Screw
* 16-003-1	IB	—	1"x56-5/16" Drive Shaft (For Mod. 29-D, 2969-D)	120-014	AH	106	Hanger Arm Shaft
* 16-004-1	—	—	1" Idler Shaft	* 121-001	IG	964	Hanger Arm (Wood)
* 16-081	IB	—	1" dia. Ecc. Shaft	122-009	IM	963	1" bore Ecc.
19-010	HU	SE LAK-1	1" B. Brg. Pillow Block	122-010	IL	962	Ecc. with Handle
120-000	II	—	Steel Roll (Mods. ending in 9-8) Specify Model—Not Shown	122-013	IO	965	Brkt. for Ecc. Brg.
120-001	II	—	Steel Roll (Mods. ending in 7)—Not Shown	123-017	IH	1076	12" Spring Rod (For Mods. 99 and 998)
120-002	II	—	Rubber Roll (Mods. ending in 9, 8) Specify Model	123-018	IH	1076	20 1/2" Spring Rod (For Mod. 29-D, 298-D)
120-003	II	—	Rubber Roll (Mods. ending in 7)—Not Shown	123-019	IJ	1077	Spring
				123-023	—	—	Roll End Shield
				124-002	—	—	Bronze Bushing

* When ordering shafts—specify designated part number, serial number, model number, year of cleaner, shaft length, and shaft diameter.

** State whether Hanger Arm is on Drive Side or Opposite.



FRONT PIVOT ARM ASSEMBLY



NOTE—Assembly drawn as viewed from the rear of cleaner

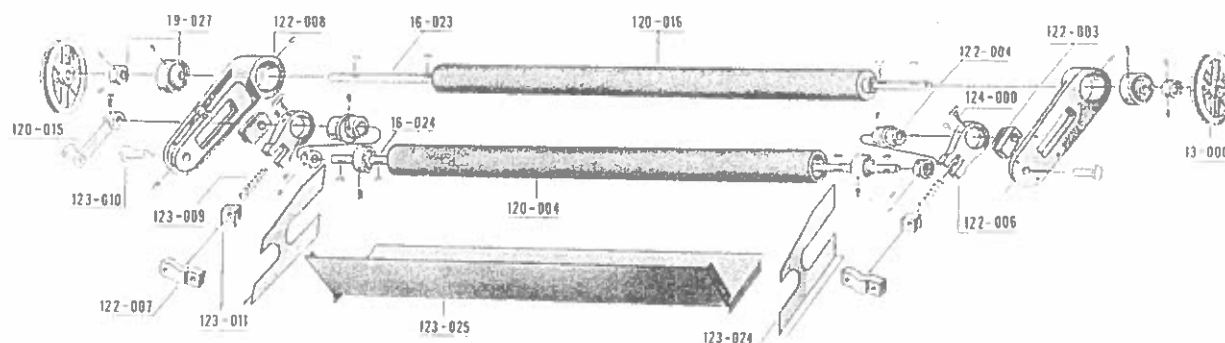
REAR PIVOT ARM ASSEMBLY

FRONT PIVOT ARM ASSEMBLY 248-D ONLY

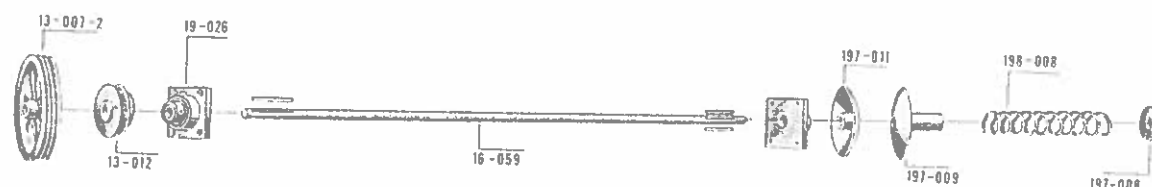
New Part Number	DESCRIPTION	New Part Number	DESCRIPTION
16-021	1 1/2" x 60 3/4" Support Rod	33-038	Hanger Brg. Plate (For Cleaner) Not Shown
16-025	1 1/2" x 62 1/2" Support Rod	33-046	3/8" hole 2 1/2" dia. Washer
16-099	1-3/16" x 68" Pivot Arm Hanger Shaft	33-149	Support Rod Brace
30-085	Pivot Arm Hanger Shaft Brg.	197-000	Ecc. Yoke
33-032	Hanger Brg. Plate (R.H.)	197-001	Front Pivot Arm
33-033	Hanger Brg. Plate (L.H.)	198-000	Bronze Bushing
33-035	Hanger Brg. Plate (For Cleaner) Not Shown	199-000	Rubber Bushing 2" O.D. x 1" I.D. x 2" LG
33-036	Hanger Brg. Plate (R.H.)	199-002	Rubber Bushing (Lower Shaft)
33-037	Hanger Brg. Plate (L.H. Keyed)		

REAR PIVOT ARM ASSEMBLY 248-D ONLY

New Part Number	DESCRIPTION	New Part Number	DESCRIPTION
16-021	Pivot Arm Rod 1" dia. x 60 3/4" long	30-078-2	Hanger Brg. Plate <i>Not Keyed</i>
16-099	Support Rod (2 to assembly) 1-3/16" dia. x 68" long	33-046	2 1/2" dia. 3/8" Hole Washer
20-001	Pivot Arm Brg.	197-002	Rear Pivot Arm
30-078-1	Hanger Brg. Plate <i>Keyed</i>	199-000	2" O.D. x 1" I.D. x 2" LG Rubber Bushing



CLAY CRUSHING ROLLS



COUNTERSHAFT

CLAY CRUSHING ROLLS—248-D ONLY

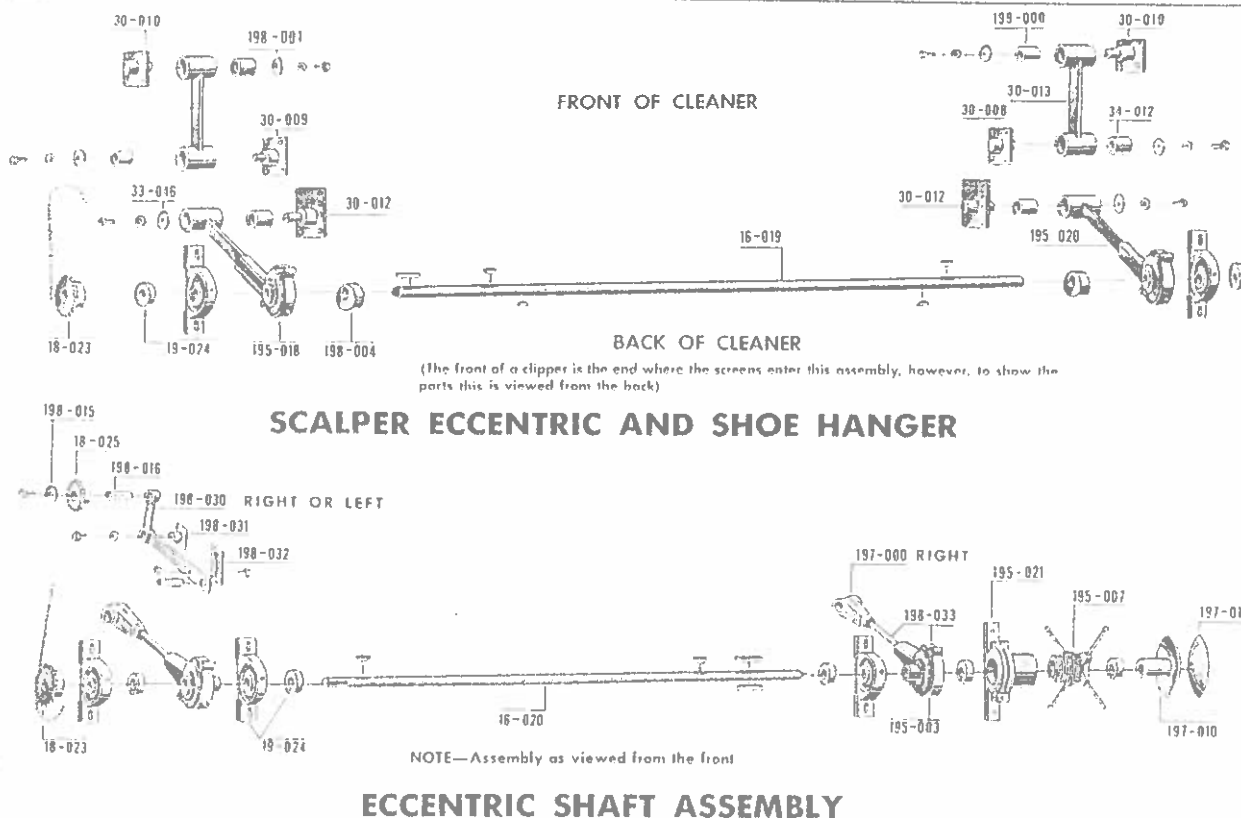
New Part Number	Old Symbol Number	Old Part Number	DESCRIPTION	New Part Number	Old Symbol Number	Old Part Number	DESCRIPTION
13-009	—	BK-100	10" O.D. 1-3/16" bore V-Sheave	122-004	—	—	1-3/16" Ecc.
16-023	HS	Top	1-3/16"x75 1/2" Drive Shaft	122-006	—	—	Tension Arm
16-024	HS	Bottom	1-3/16"x66 1/2" Idler Shaft	122-007	—	—	Tension Arm Cap
19-027	HP	LC 1-3/16	1-3/16" bore Cylindrical Type B. Brg.	122-008	—	—	Roll Brkt.
120-004	—	—	Rubber Idler Roll	123-009	—	—	Spring
120-015	—	—	Adjust. Crank	123-010	—	—	1" Pin
120-016	—	—	Rubber Drive Roll	123-011	—	—	Spring Retainer
122-003	—	—	Ecc. Slide	123-024	—	—	Roll End Shield
				123-025	—	—	Deflector
				124-000	—	—	Ecc. Lock Screw

COUNTERSHAFT ASSEMBLY—248-D ONLY

New Part Number	Old Symbol Number	Old Part Number	DESCRIPTION	New Part Number	Old Symbol Number	Old Part Number	DESCRIPTION
13-007-2	—	3R 11.6	1 1/2" bore 11.35 O.D. 3 Gr. Sheave	19-026	—	LCJ 1 1/2	1 1/2" Flange B. Brg.
13-012	BK	—	1 1/2" bore 4" O.D. Single Gr. Sheave	197-008	LE	V-12-D	Hand Nut for 1 1/2" Shaft
16-059	—	—	Countershaft	197-009	LG	V-9-BL	9"—1 1/2" bore Sliding Disc
				197-011	LF	V-9-AL	9"—1 1/2" bore Stationary Disc
				198-008	LD	V-12-E	Spring for 197-009

20.. SECTION

2-G

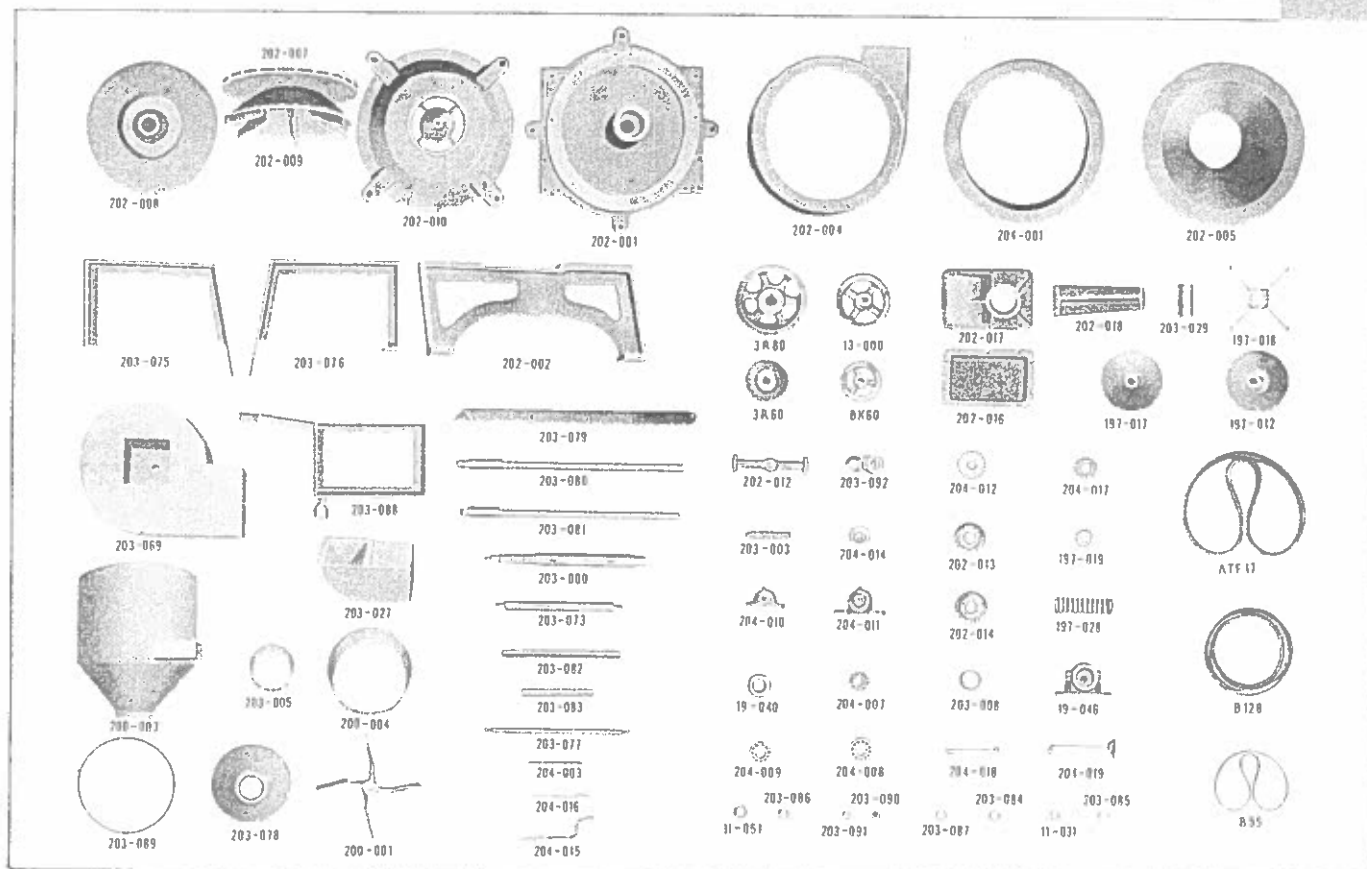


SCALPER ECCENTRIC AND SHOE HANGER ASSEMBLY—248-D ONLY

New Part Number	Old Part Number	DESCRIPTION	New Part Number	Old Part Number	DESCRIPTION
16-019	—	Ecc. Scalper Shaft	33-046	—	$\frac{3}{8}$ " hole, $2\frac{1}{2}$ " dia. Washer
16-021	—	Support Rod (Not shown)	34-012	—	$1\frac{3}{8}$ " O.D. x 1" I.D. x $1\frac{1}{2}$ " L.G. Rubber Bushing
18-023	—	$5\frac{1}{2}$ " dia. $1\frac{1}{2}$ " bore (26T) Sprkt. for No. 50 roller chain	195-018	—	$1\frac{1}{2}$ " bore Ecc. Housing Ass'y. for 248-D scalper
19-024	LAK $1\frac{1}{2}$	$1\frac{1}{2}$ " Pillow Block B. Brg.	195-020	—	Pitman
30-008	—	Front & Back Hanger Plate for scalper (State left or right)	198-001	—	$\frac{3}{8}$ " hole, 2" dia. Washer
30-010	—	Hanger Brg. Plate—Millside	198-004	—	Counterweight—scalper ecc.
30-012	—	Hanger Brg. Plate for scalper eccentric	199-000	—	2" O.D. x 1" I.D. x 2" L.G. Rubber Bushing
30-013	—	Hanger Arm—Shoe Scalper			

ECCENTRIC SHAFT ASSEMBLY—248-D ONLY

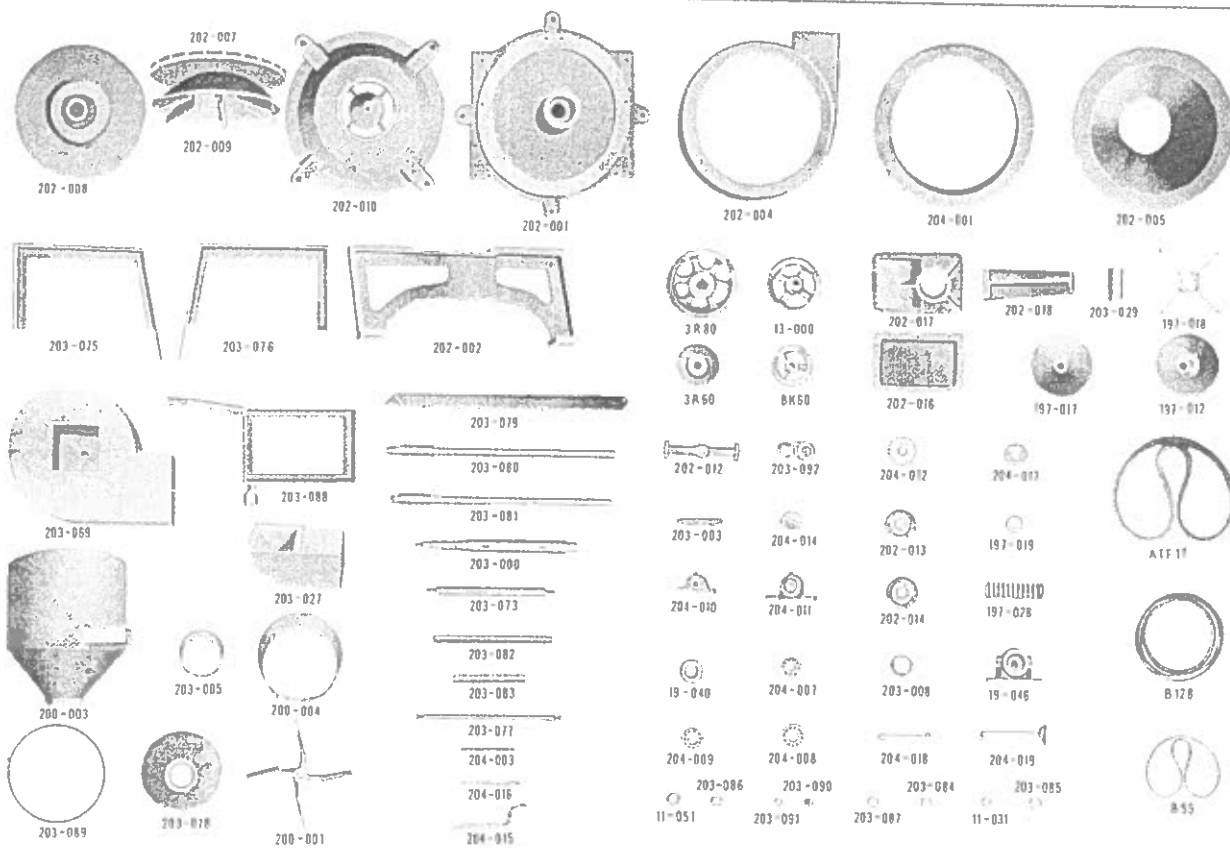
New Part Number	Old Part Number	DESCRIPTION	New Part Number	Old Part Number	DESCRIPTION
16-020	—	$1\frac{1}{2}$ " dia. Ecc. Shaft	195-021	7475-Spec.	Vari. Adjust. Brg. (Pillow Block)
18-023	—	$5\frac{1}{2}$ " dia. $1\frac{1}{2}$ " bore (26T) Sprkt.	197-000	—	Ecc. Yoke
18-025	—	$3\frac{1}{2}$ " dia. (16T) Tightener Sprkt.	197-010	—	9"— $1\frac{1}{4}$ " bore Sliding Disc
19-014	ATF-17	Vari. Belt	197-011	—	9"— $1\frac{1}{2}$ " bore Stationary Disc
19-024	LAK $1\frac{1}{2}$	$1\frac{1}{2}$ " B. Brg. Pillow Block	198-015	—	$1\frac{1}{2}$ " dia. Washer
19-030	1R-1012	Torrington Inner Race—(Not shown) for 18-025	198-016	—	$\frac{3}{8}$ " dia. x $1-15/16$ " Sprkt. Shaft
19-031	B-1412-X	Torrington Needle Brg. (Not shown) for 18-025	198-030	—	Take-up Arm (Specify right or left mount)
195-003	—	Ecc. Housing and Pitman (State right or left)	198-031	—	Take-up Arm Shaft and Plate
195-007	—	Adjust. Nut for 195-021	198-032	—	Take-up Adjust. Plate
			198-033	—	Pitman Arm



HULLER AND SCARIFIER

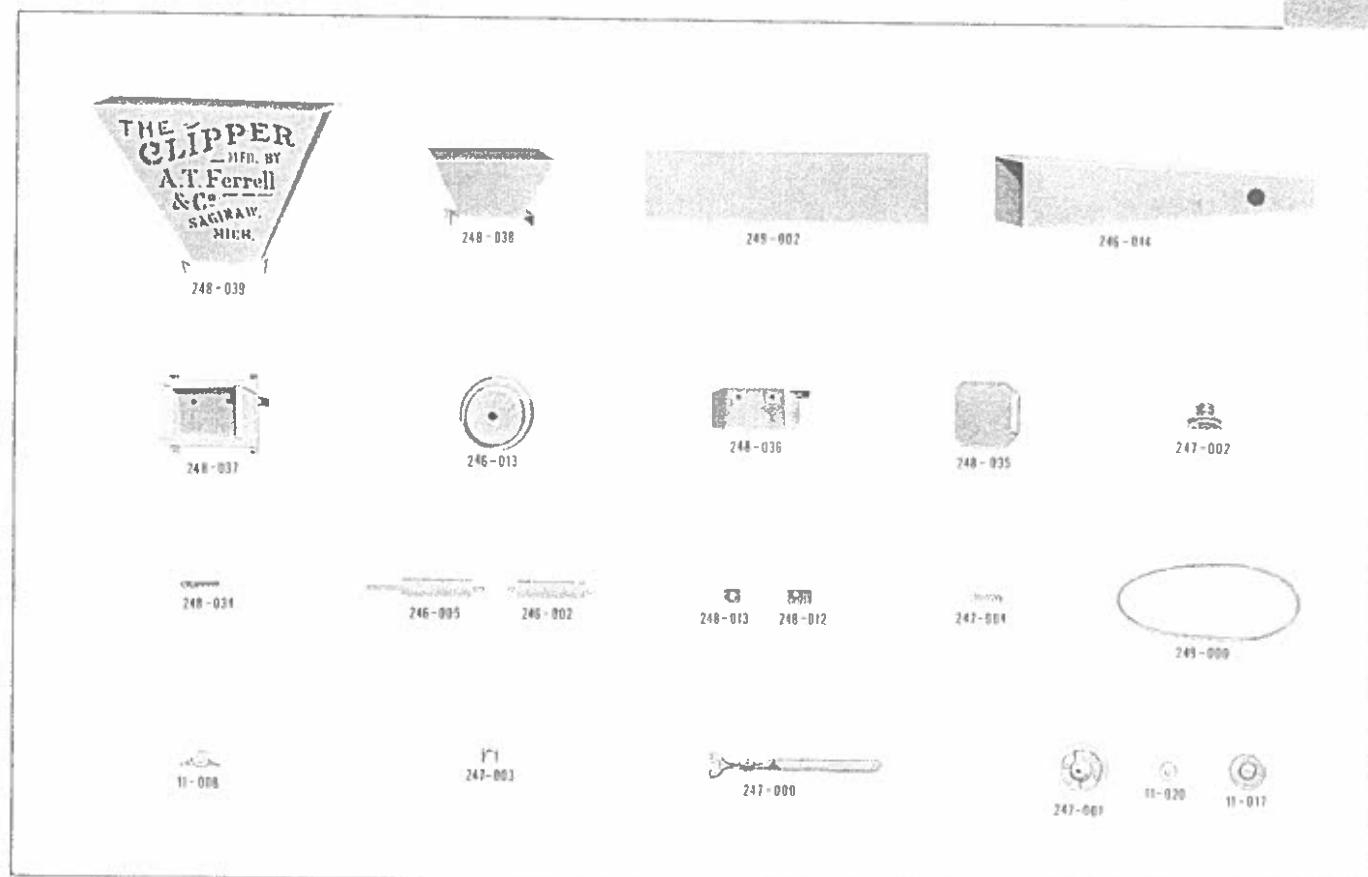
New Part Number	Old Part Number	DESCRIPTION	New Part Number	Old Part Number	DESCRIPTION
11-031	E-125	1" B. Brg. Set Collar	202-001	E9	Bottom Section
11-051	1316	1-3/16" Ser Collar	202-002	E21	R. H. leg for vari. speed drive
13-000	BK80	Countershaft Sheave	202-003	E21-A	L. H. leg for vari. speed drive (Not shown)
3R60	3R60	Motor Sheave	202-004	E8	Discharge Section
3R80	3R80	Drive Sheave	202-005	E5	Return Section
BK60	BK60	Fan shaft Sheave	202-007	E6A	Bottom Throw Section
19-014	ATF17	Vari. speed Belt	202-008	E6B	Throw Section
19-040	D-25	Thrust B. Brg. for 197-014	202-009	E7	Fan Section
19-046	7408-AB	1-3/16" B. Brg. for Vari. Speed	202-010	E4	Top Section
19-047	B55	V belt for motor drive	202-012	E15	Feed Hopper Spoke
19-048	B128	V belt for fan	202-013	E12	Top Brg. Plate
197-012	V9B	9"—1-3/16" bore sliding Disc	202-014	E12A	Bot. Brg. Plate
197-014	V12B	12"—1 1/2" bore Sliding Disc (Not shown)	202-016	E20	Gear Box
197-016	V12A	12"—1 1/2" bore Stationary Disc (Not shown)	202-017	E19	Gear Box Cover
197-017	V9A	9"—1-3/16" bore Stationary Disc	202-018	E11	Single Leg
197-018	V9C	Adjust. Screw for 19-046	203-000	E104	1-15/16" Center Shaft 23 5/8" Specify length—your shaft
197-019	V9D	Hand Nut for 1-3/16" Shaft	203-003	E139	Hopper Control Shaft
197-028	V9E	Spring for 197-012	203-005	E119	Hopper Extension
200-001	E7A	4 blade Fan	203-008	E126	Retaining Washer felt
200-003	E121	Settling Chamber (with band)	203-027	E137	Top Connection for settling chamber
200-004	E116	Jack			

Continued on page 22



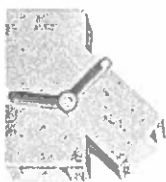
HULLER AND SCARIFIER

New Part Number	Old Part Number	DESCRIPTION	New Part Number	Old Part Number	DESCRIPTION
203-029	E117	Spacer for (2) throw sections	203-090	E130	Thrust Nut
203-069	E112	Suction Fan Housing	203-091	E131	Thrust Washer
203-073	E114	1½" Spacer Shaft 19"	203-092	FT17	Thrust Brg.
203-075	E113RH	Motor Brkt. R.H.	204-001	E110	Carborundum Concave
203-076	E113LH	Motor Brkt. L.H.	204-003	E123	Felt for gear retainer
203-077	E120	Tie Rod and Spacer for legs	204-004	—	Rubber Concave (Not shown)
203-078	E1	Feed Regulator	204-007	207K	1½" B. Brg.
203-079	E132	Fan Bracket Brace	204-008	208K	1-9/16" B. Brg.
203-080	E106	1-3/16" Countershaft 33½"	204-009	308K	1-9/16" B. Brg. in base
203-081	E103	1-3/16" Drive Shaft 32½"	204-010	RBGU	1" B. Brg. Pillow Block
203-082	E109	Suction fan Shaft 17½"	204-011	SA 1-3/16	1-3/16" B. Brg. Pillow Block
203-083	E115	1½" Spacer Shaft Top Section 10½"	204-012	H624R	Spiral Gear
203-084	E133	1½" Thrust Brg. Bushing	204-014	E118	Grease guard Collar
203-085	E138	1½" Set Collar	204-015	E128	Bottom Grease Pipe (with cup)
203-086	E124	1-3/16" B. Brg. Set Collar	204-016	E129	Top Grease Pipe (with cup)
203-087	E101	1-3/16" bore Oil Retainer and Ring	204-017	E122	Bottom Brg. Washer
203-088	E17	Fan Brkt.	204-018	E135	Vari. Control Stop
203-089	E136	Settling Chamber Band	204-019	E134	Feed Hopper Stop

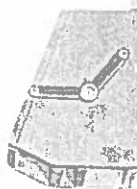


CLIPPER BEAN PICKER

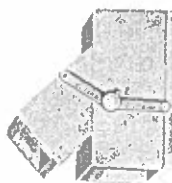
New Part Number	Old Symbol Number	Old Part Number	DESCRIPTION
11-008	PG	—	$\frac{3}{4}$ " Pillow Block Brg.
11-017	DP	—	$\frac{3}{4}$ " Flange Brg.
11-020	BM	402	$\frac{3}{4}$ " Set Collar
246-002	MA	1094	Wood Idler Roll
246-005	EZ	1093	Wood Drive Roll
246-013	MJ	1103	Drive Pulley
246-014	MI	1101	Delivery Spout
247-000	MIN	401	Clutch Lever
247-001	MG	405	Ratchet Sheave
247-002	MK	404	Drive Clutch Sheave
247-003	ML	403	Clutch Collar
247-004	MM	1104	Clutch Spring
248-012	MC	1097	Take-Up Brg. (Long)
248-013	MB	1096	Take-Up Brg. (Short)
248-034	LY	1095	Flat Spring for Shaker Pan
248-035	LW	1091	Feed Gate
248-036	LU	1089	Shaker Pan
248-036-A	LU	1089-A	9" Shaker Pan
248-037	LQ	1088	Feed Box with Slide
248-038	LO	1086	Small Galv. Hopper
248-039	LM	1084	Large Galv. Hopper
249-000	MH	1514	Round Leather Drive Belt
249-002	LV	1090-R	6" Composition Belt
249-003	LV	1090-RA	9" Composition Belt



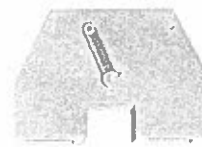
155-012-A



155-015



155-012-B



155-018



157-000



157-007



155-006



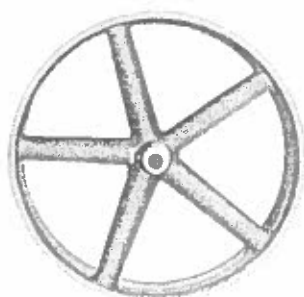
158-053



157-008



157-010



15-010



158-030-B



158-030



158-024



158-055



19-015



19-024

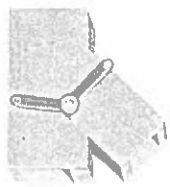
WOOD ELEVATOR PARTS

New Part Number	Old Symbol Number	Old Part Number	DESCRIPTION	New Part Number	Old Symbol Number	Old Part Number	DESCRIPTION
15-010	JY	—	12" Dia. x 4" Face, Pulley	15-018	—	—	24" Dia. x 10" Face, Pulley
15-011	—	—	12" Dia. x 5 1/2" Face, Pulley	15-019	—	—	24" Dia. x 12" Face, Pulley
15-012	JZ	—	16" Dia. x 5 1/2" Face, Pulley	15-020	—	—	30" Dia. x 8" Face, Pulley
15-013	—	—	16" Dia. x 8" Face, Pulley	15-021	—	—	30" Dia. x 10" Face, Pulley
15-014	—	—	16" Dia. x 10" Face, Pulley	15-022	—	—	30" Dia. x 12" Face, Pulley
15-015	—	—	16" Dia. x 12" Face, Pulley	15-023	—	—	36" Dia. x 10" Face, Pulley
15-016	JZ	—	24" Dia. x 5 1/2" Face, Pulley	15-024	—	—	36" Dia. x 12" Face, Pulley
15-017	JX	—	24" Dia. x 8" Face, Pulley				

WHEN ORDERING PULLEYS—STATE DIA. BORE AND SIZE OF KEYWAY.

19-015	AM	—	1-3/16" Brg. and Housing	155-017	JB	1707	2-Way Switch for—8"x5" Cup
19-024	—	S-524-M	1 1/2" B. Brg. Pillow Block	155-018	JD	1712	2-Bag Switch—3 1/2"x3 1/2" Cup
155-006	JQ	S19	Hand Wheel	155-019	JD	1713	2-Bag Switch—5"x4" Cup
155-010	JB	1706	2-Way Switch—7"x4 1/2" Cup	155-020	JD	1714	2-Bag Switch—7"x4 1/2" Cup
155-012-A	JA	1700	Right hand Switch—3 1/2"x3 1/2" Cup	155-021	JD	1715	2-Bag Switch—8"x5" Cup
155-012-B	JC	1708	Left hand Switch—3 1/2"x3 1/2" Cup	157-000	JL	E25	Brg. for Boot Shaft, 1-3/16"
155-013-A	JA	1701	Right hand Switch—5"x4" Cup	157-007	JM	941	Lever for Valve Shaft
155-013-B	JC	1709	Left hand Switch—5"x4" Cup	157-008	JS	E34	Take-up Frame for 1-15/16" Sliding Brg.
155-008-A	JA	1702	Right hand Switch—7"x4 1/2" Cup	157-009	JS	E30	Take-up Frame for 1 1/2" Sliding Brg.
155-008-B	JC	1710	Left hand Switch—7"x4 1/2" Cup	157-010	JT	E35	Sliding Brg. for 1 15/16" Shaft
155-014-A	JA	1703	Right hand Switch—8"x5" Cup	157-011	JT	E31	Sliding Brg. for 1 1/2" Shaft
155-014-B	JC	1711	Left hand Switch—8"x5" Cup	158-024	JE	—	9"x5" Salem Elev. Cup
155-015	JB	1704	2-Way Switch for—3 1/2"x3 1/2" Cup	158-025	JE	—	8"x5" Salem Elev. Cup
155-016	JB	1705	2-Way Switch for—4"x5" Cup	158-026	JF	—	7"x5" Salem Elev. Cup
				158-027	JF	—	7"x4 1/2" Salem Elev. Cup
				158-028	JG	—	5"x4" Salem Elev. Cup
				158-029	JH	—	3 1/2"x3 1/2" Salem Elev. Cup

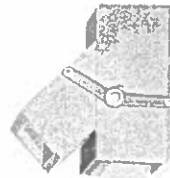
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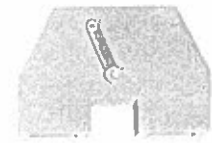
155-012-A



155-015



155-012-B



155-018



157-000



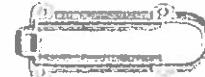
157-007



155-006



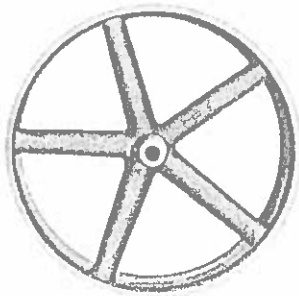
158-053



157-008



157-010



15-010



158-030-B



158-030



158-024



158-055



19-015



19-024

ELEVATOR SHAFTING PARTS

New Part Number	Old Symbol Number	Old Part Number	DESCRIPTION	New Part Number	Old Symbol Number	Old Part Number	DESCRIPTION
158-030	—	—	5"x4" to 23 ft. high Head Shaft, single	158-036	—	—	Head Shaft, double
158-030-A	—	—	1-3/16"x21"	158-037	—	—	1-15/16"x55 3/4"
158-030-B	—	—	Head Shaft, double	158-038	—	—	Boot Shaft 1 1/2"x23 3/4"
158-031	—	—	1-3/16"x34"	158-039	—	—	Idle Shaft 1-3/16"x19 3/4"
158-031-A	—	—	Boot Shaft 1-3/16"x10 1/4"	158-040	—	—	8"x5" Wood Elev.
158-032	—	—	5"x4" over 23 ft. high	158-041	—	—	Head Shaft, single
158-032-A	—	—	Head Shaft, single 1 1/2"x25 1/2"	158-042	—	—	1-15/16"x28 1/2"
158-033	—	—	Head Shaft, double 1 1/2"x38"	158-043	—	—	Head Shaft, double
158-033-A	—	—	Boot Shaft 1-3/16"x17 1/4"	158-044	—	—	1-15/16"x57 3/4"
158-033-B	—	—	Idle Shaft 1-3/16"x15 1/4"	158-045	—	—	Boot Shaft 1 1/2"x24 3/4"
158-034	—	—	7"x4 1/2" to 23 ft. high	158-046	—	—	Idle Shaft 1-3/16"x20 3/4"
158-034-A	—	—	Head Shaft, single	158-053	JR	1082	9"x5" Wood Elev.
158-035	—	—	1 1/2"x27 1/2"	158-054	JR	1083	Head Shaft, single
158-036	—	—	Head Shaft, double 1 1/2"x40"	158-055	—	1244	1-15/16"x29 1/2"
158-037	—	—	Boot Shaft 1 1/2"x13"	158-056	—	1244-A	Head Shaft, double
158-038	—	—	7"x4 1/2" over 23 ft. high	158-057	—	1244-B	1-15/16"x59 3/4"
158-039	—	—	to 31 ft.	158-058	—	1244-C	Boot Shaft 1 1/2"x25 3/4"
158-040	—	—	Idle Shaft 1-3/16"x17 1/4"	158-059	—	1244-D	Idle Shaft 1-3/16"x21 3/4"
158-041	—	—	Head Shaft, single	158-060	—	1244-E	Screw for 7" Take-up Brg.
158-042	—	—	1 1/2"x27 1/2"				Screw for 5" Take-up Brg.
158-043	—	—	Head Shaft, double 1 1/2"x46"				5"x3" Nu-Hy Cup
158-044	—	—	Boot Shaft 1 1/2"x21"				5"x4" Nu-Hy Cup
158-045	—	—	7"x4 1/2" over 31 ft. high				7"x4" Nu-Hy Cup
158-046	—	—	Head Shaft, single				8"x5" Nu-Hy Cup
158-047	—	—	1 1/2"x27 1/2"				9"x5" Nu-Hy Cup
158-048	—	—	Head Shaft, double 1 1/2"x46"				10"x5" Nu-Hy Cup
158-049	—	—	Boot Shaft 1 1/2"x21"				
158-050	—	—	7"x4 1/2" over 31 ft. high				
158-051	—	—	Head Shaft, single				
158-052	—	—	1 1/2"x27 1/2"				
158-053	—	—	Head Shaft, double 1 1/2"x46"				
158-054	—	—	Boot Shaft 1 1/2"x21"				
158-055	—	—	7"x4 1/2" over 31 ft. high				
158-056	—	—	Head Shaft, single				
158-057	—	—	1 1/2"x27 1/2"				
158-058	—	—	Head Shaft, double 1 1/2"x46"				
158-059	—	—	Boot Shaft 1 1/2"x21"				
158-060	—	—	7"x4 1/2" over 31 ft. high				

BELTING: COTTON—COMPOSITION—RUBBER—LEATHER

COTTON: (Refer to price list—Section 3)

1" 3 ply cotton	8" 5 ply cotton
5 1/2" 3 ply cotton	9" 5 ply cotton
5 1/2" 4 ply cotton	10" 5 ply cotton
8" 4 ply cotton	

COMPOSITION: (Refer to price list—Section 3)

1 1/2" wide	3" wide
2" wide	4" wide

RUBBER: (Refer to price list—Section 3)

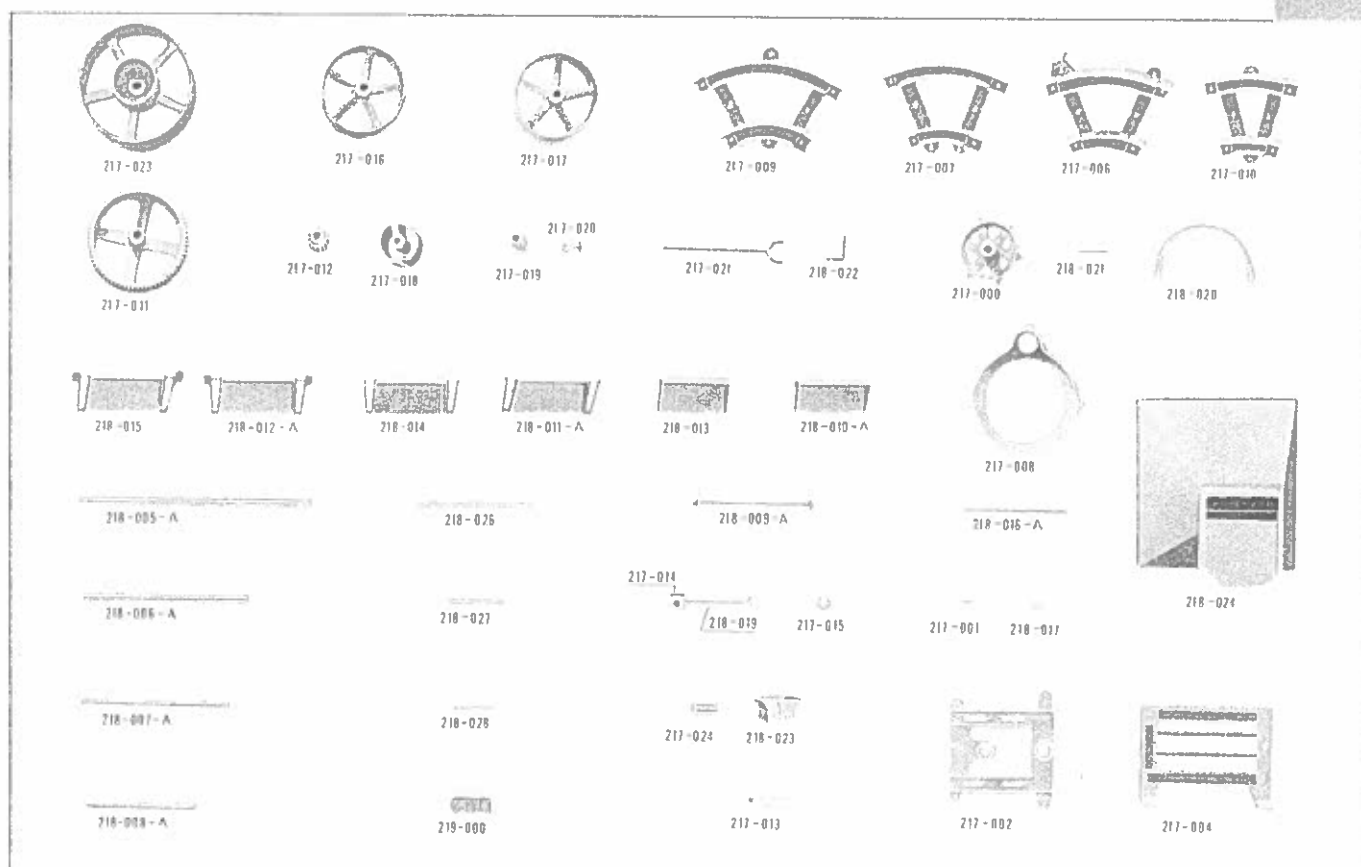
4" 3 ply	8" 5 ply
6" 3 ply	9" 4 ply
6" 4 ply	9" 5 ply
8" 4 ply	10" 5 ply

LEATHER:

Fan Belt for Office Tester (Specify flat or round)



Continued on page 27



SANITARY CONTINUOUS CUP CONVEYOR

New Part Number	Old Part Number	DESCRIPTION	New Part Number	Old Part Number	DESCRIPTION
218-009	7A5	Tie rod, 13 $\frac{3}{8}$ " (for 5" cup) (Not shown)	218-014-A	13A16	Perf. 16" galv. Cup with links (Not shown)
218-009-A	7A10	Tie rod, 18 $\frac{3}{8}$ " (for 10" cup)	218-014-B	13A24	Perf. 24" galv. Cup with links (Not shown)
218-009-B	7A16	Tie rod, 24 $\frac{3}{8}$ " (for 16" cup) (Not shown)	218-015	14A10	Perf. 10" galv. Cup with links, pins, lugs
218-009-C	7A24	Tie rod, 32 $\frac{3}{8}$ " (for 24" cup) (Not shown)	218-015-A	14A16	Perf. 16" galv. Cup with links, pins, lugs (Not shown)
218-010	8A5	Plain 5" galv. Cup (Not shown)	218-015-B	14A24	Perf. 24" galv. Cup with links, pins, lugs (Not shown)
218-010-A	8A10	Plain 10" galv. Cup	218-016	16A5	Connecting Pins, (case hard.) (for 5" cups) (Not shown)
218-010-B	8A16	Plain 16" galv. Cup (Not shown)	218-016-A	16A10	Connecting Pins, (case hard.) (for 10" cups)
218-010-C	8A24	Plain 24" galv. Cup (Not shown)	218-016-B	16A16	Connecting Pins, (case hard.) (for 16" cups) (Not shown)
218-011	9A5	Plain 5" galv. Cup with links attached (Not shown)	218-016-C	16A24	Connecting Pins, (case hard.) (for 24" cups) (Not shown)
218-011-A	9A10	Plain 10" galv. Cup with links	218-017	17A	Roller (case hard.)
218-011-B	9A16	Plain 16" galv. Cup with links (Not shown)	218-019	19A	Adjust. Rod for Brg.
218-011-C	9A24	Plain 24" galv. Cup with links (Not shown)	218-020	30A	Guard
218-012	10A5	Plain 5" galv. Cup with links, pins and lugs (Not shown)	218-021	15A	Guard Spacer
218-012-A	10A10	Plain 10" galv. Cup with links, pins and lugs	218-022	11A	Clutch Brkt.
218-012-B	10A16	Plain 16" galv. Cup with links, pins and lugs (Not shown)	218-023	36A	Nut Hopper for 5" Cup
218-012-C	10A24	Plain 24" galv. Cup with links, pins and lugs (Not shown)	218-024	37A	Vegetable Hopper
218-013	12A10	Perf. (3/32"x1 $\frac{1}{2}$ ") 10" galv. Cup	218-025	35A	No. 25 Sprkt. Chain. (Sold per ft.) (Not shown)
218-013-A	12A16	Perf. 16" galv. Cup (Not shown)	218-026	32A	Sprkt. Shaft, $\frac{3}{4}$ " dia.
218-013-B	12A24	Perf. 24" galv. Cup (Not shown)	218-027	33A	Adjust. Lever Shaft, $\frac{3}{4}$ " dia.
218-014	13A10	Perf. 10" galv. Cup with links	218-028	34A	Lock Shaft $\frac{1}{4}$ " dia.
			219-000	31A	Brush

NOTE: All Shafting where diameter is not stated, is 1-3/16" diameter. Cups are furnished in stainless steel if requested.

V-BELTS—V-SHEAVES

NOTICE V-Sheaves for Hopper Drives are identical on all models: Driver—BK 30; Driven—16V (left or right) EXCEPT ON COTTON SEED HOPPERS—State model number of cleaner and the serial number.

NOTICE V-Sheaves for *Brush Gear* are identical on all models: Driver—BK 40; Driven—ATF 80.

NOTICE V-Sheaves for *Shaker Shaft* to Top Fan: All #6 and #7 width models use—(2 groove) Driver—2R60; Driven—2R130. All #9 and #8 width models use (3 groove) Driver—3R60; Driven—3R130.

Model and Drive	Belt	Driver V Sheave	Driven V Sheave
<i>6 and 7</i>			
Motor Drive	85B	BK-40	BK-160
<i>Regular 16-47</i>			
Hopper	85B	.....	.....
Brush Gear	51B	.....	.....
Motor Drive	97B	BK-40	BK-160
<i>Regular 16B-47B</i>			
Hopper	97B	.....	.....
Brush Gear	51B	.....	.....
Motor Drive	3100	BK-40	BK-160
<i>Super 16-47</i>			
Hopper	3960	.....	.....
Brush Gear	3480	.....	.....
Motor Drive	105B	BK-40	BK-160
<i>Super 16B-47B</i>			
Hopper	105B	.....	.....
Brush Gear	3480	.....	.....
Motor Drive	112B	BK-40	BK-160
<i>Super 57D</i>			
Hopper	112B	.....	.....
Brush Gear	3480	.....	.....
Shaker to Top Fan	128B	.....	.....
Motor Drive	144B	3R70	3R130
<i>Super 57-BD</i>			
Hopper	128B	.....	.....
Brush Gear	3480	.....	.....
Shaker to Top Fan	136B	.....	.....
Auger	97B	BK-40	BK-110
Motor Drive	158B	3R70	3R130
<i>67-D</i>			
Hopper	120B	.....	.....
Brush Gear	2M048	.....	.....
Shaker Shaft to Top Fan	144B	.....	.....
Hopper Drive Shaft to Valve	97B	BK-80	BK-60
Motor Drive	144B	3R70	3R130
<i>Super 69D-68D</i>			
Hopper	128B	.....	.....
Brush Gear	55B	.....	.....
Shaker Shaft to Top Fan	158B	.....	.....
Hopper Drive Shaft to Valve	105B	BK-80	BK-60
Motor Drive (69-D)	158B	3R70	3R130
Motor Drive (68-D)	158B	4R70	4R130
<i>Super 39 and 398</i>			
Hopper	97B	.....	.....
Brush Gear	3620	.....	.....
Motor Drive	120B	3R42	3R160

Continued on pages 29, 30

V-BELTS — V-SHEAVES — Continued

Model and Drive	Belt	Driver V Sheave	Driven V Sheave
<i>Super 39B and 39SB</i>			
Hopper	112B	.....	.....
Brush Gear	3620	.....	.....
Motor Drive	120B	3R42	3R160
<i>Super 18D - 19D</i>			
Hopper	{144B 112B	BK-40 BK-50	16VI, or R BK-190
(Note—If the Driven Sheave is 16" outside diameter, then it takes a BK-40 Driver and a 144B Belt—if 19", then order the BK-50 Driver and a 112B Belt)			
Brush Gear	51B	.....	.....
Shaker Shaft to Top Fan	144B	.....	.....
Shaker Shaft to Spiral	3920	BK-40	BK-100
Auger to Auger	{3100 2M094	BK-50	BK-50
(Note—To replace the belt you are using, give us the center of auger shaft to center of auger shaft measurement)			
Motor Drive on Back	173B	3R68	3R116
Motor Drive on Top (5-HP)	85B	.....	.....
Motor Drive on Top (7½-HP)	90B	.....	.....
Elevator Countershaft	105B	3R60	24" Flat Face Pulley
<i>Super 49D - 49SD</i>			
Hopper	120B	.....	.....
Brush Gear	3620	.....	.....
Shaker to Top Fan	128B	.....	.....
Motor Drive	144B	3R70	3R130
Elevator Countershaft	112B	3R60	24" Flat Face Pulley
<i>Super 49BD - 49SBD</i>			
Hopper	128B	.....	.....
Brush Gear	3620	.....	.....
Shaker to Top Fan	144B	.....	.....
Motor Drive	158B	3R70	3R130
Elevator Countershaft	112B	3R60	24" Flat Face Pulley
<i>Super 109D - 109SD</i>			
Hopper	136B	.....	.....
Brush Gear	55B	.....	.....
Shaker Shaft to Top Fan	158B	.....	.....
Motor Drive	158B	3R70	3R130
Elevator Countershaft	112B	3R60	24" Flat Face Pulley
<i>Super 78D with Brush Hopper</i>			
Top Fan Shaft to Countershaft	90B	2R60	2R130
Countershaft to Bottom Valve	90B	BK-40	16VR or L
Bottom Valve to Top Valve	128B	BK-60	BK-120
Top Valve to Hopper	128B	BK-45	BK-160
Top Valve to Knocker	3620	BK-45	BK-130
Eccentric Shaft to Brush Gear	105B	BK-40	BK-80
<i>Super 99D - 99SD</i>			
Hopper	120B	.....	.....
Brush Gear	{3500 55B	.....	.....
(Note—To replace the belt you are using state belt number or give us the center of Brush Jack Drive Shaft to the center of Eccentric Shaft measurement)			
Shaker Shaft to Roll Shaft	3630	BK-80	BK-100
Shaker Shaft to Valve Shaft	128B	BK-40	19VR or L
Valve Shaft to Hopper Shaft	105B	BK-28	16VR or L
Shaker Shaft to Top Fan	{144B 158B	.....	.....

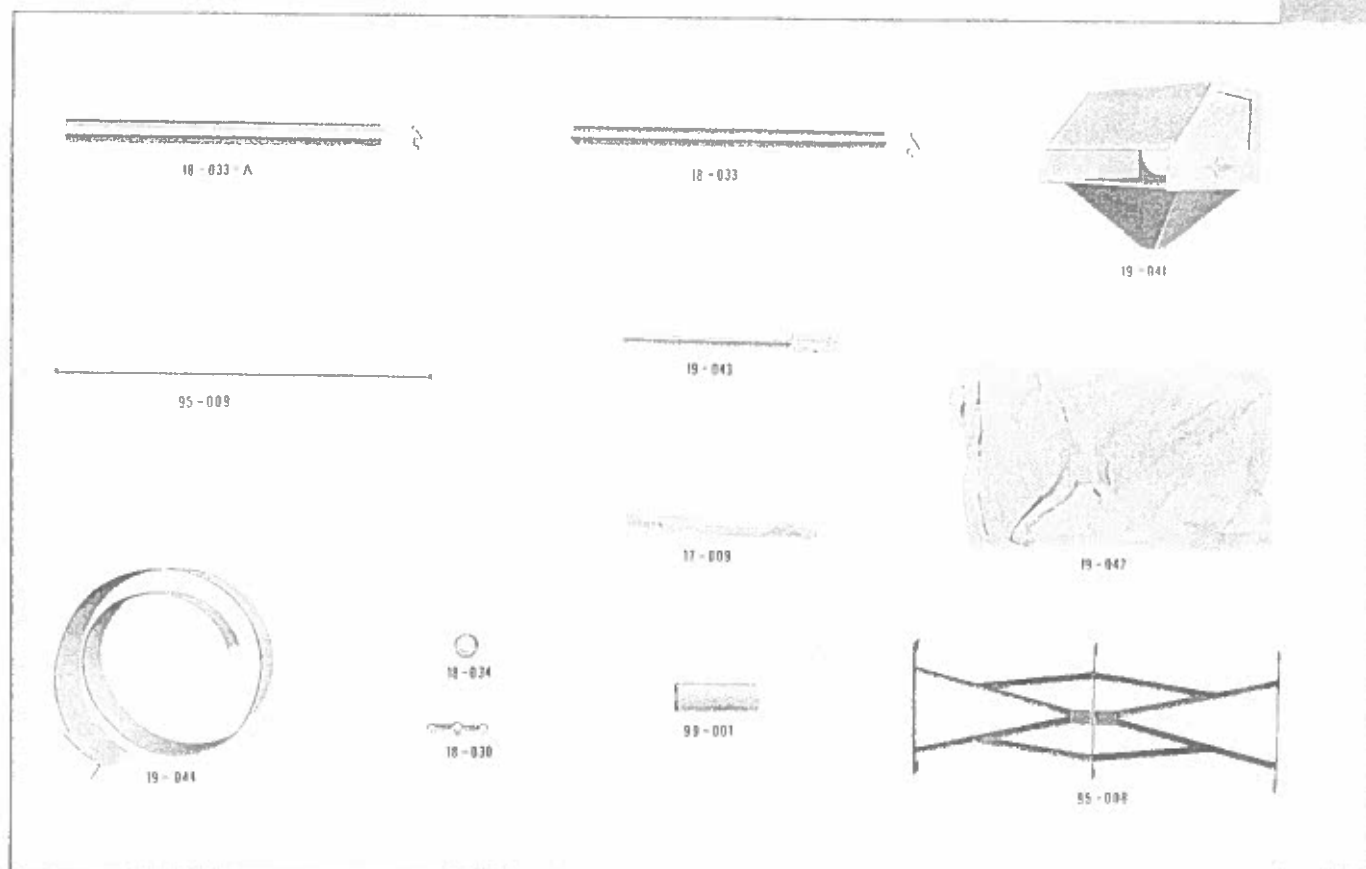
(Note—To replace the belt you are now using state belt number or give us the center of Shaker Shaft to the center of Top Fan Shaft measurement)

V-BELTS — V-SHEAVES — Continued

Model and Drive	Belt	Driver V Sheave	Driven V Sheave
Motor Drive (7½-HP)	144B	3R68	3R116
Motor Drive (10-HP)	158B	4R68	4R116
<i>Super 29D - 298D</i>			
Hopper	112B	.....	.....
Brush Gear	112B	.....	.....
Countershaft to Top Fan	120B	3R60	3R130
Motor Drive (7½-HP)	85B	3R70	3R130
Motor Drive (10-HP)	81B	4R70	4R130
<i>Super 147 - 116</i>			
Hopper	3960	.....	.....
Brush Gear	3480	.....	.....
Elevator Countershaft	97B	2R68	2R130
Countershaft to Spiral	136B	BK-50	BK-100
Motor Drive	90B	2R42	2R160
<i>Super 147B - 116B</i>			
Hopper	105B	.....	.....
Brush Gear	3480	.....	.....
Elevator Countershaft	112B	2R68	2R130
Countershaft to Spiral	114B	BK-50	BK-100
Motor Drive	90B	2R42	2R160
<i>Super 157BD</i>			
Hopper	128B	.....	.....
Brush Gear	3480	.....	.....
Shaker to Top Fan	136B	2R60	2R130
Shaker to Auger Countershaft	97B	BK-40	BK-100
Countershaft to Auger Shaft	75B	BK-80	BK-100
Motor Drive	158B	3R70	3R130
Elevator Countershaft	105B	2R60	24" Flat Face Pulley
<i>Sanitary Cup Conveyor</i>			
Motor Drive to Countershaft	2M062	BK-32	BK-120
Countershaft to Head Shaft	2M076	BK-45	BK-130

FLAT FACE PULLEYS

New Part #	Old Sym. #	Old Part #	DESCRIPTION
931	AE	931	1-3/16" bore, 3" dia. x 2" face Drive Pulley for Brush Jack
943-B	AE	943B	1½" bore, 4" dia. x 2" face Drive Pulley for Brush Jack
943-C	AE	943C	1½" bore, 4" dia. x 2" face Drive Pulley for Brush Jack
15-001	AP	717	1-3/16" bore 3-step Pulley (for Fan Shaft)
15-001-1	AP	921	1½" bore 3-step Pulley (for Shaker Shaft)
15-002	BS	716	1-3/16" bore 3-step Pulley (for Shaker Shaft)
15-002-1	BS	920	1½" bore 3-step Pulley (for Shaker Shaft)



MISCELLANEOUS PARTS

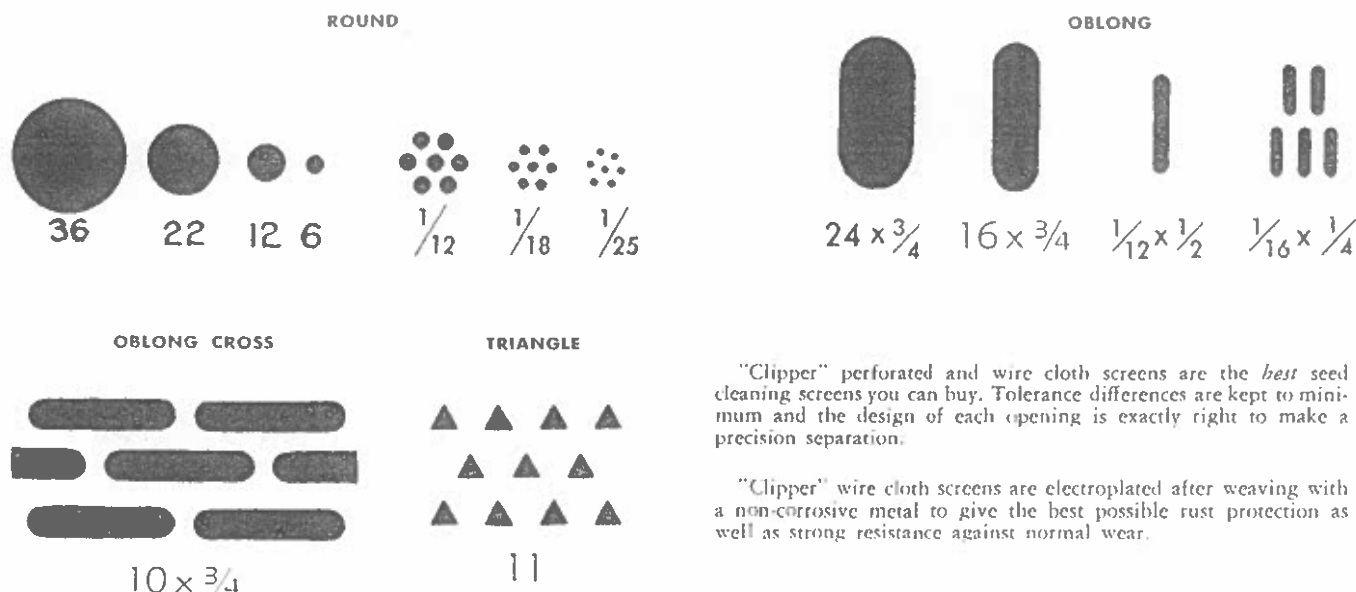
New Part Number	Old Part Number	DESCRIPTION
17-009	573	Wood Pitman—Give mod. # of machine, plain or b. brg. ecc. (If 2 shoe, state for top or bottom shoe, also right or left)
18-030	655	Knocker
19-041	658	Settling Chamber (for #6-7)
19-041-A	658-9	Settling Chamber (for #9)
19-041-B	658-8	Settling Chamber (for #8)
19-042	662	Dust Sack (for #6-7)
19-042-A	662-9	Dust Sack (for #9)
19-042-B	662-8	Dust Sack (for #8)
19-043	107	Wooden Hanger, 1½" wide with block
19-043-A	107-A	Wooden Hanger, 1¾" wide with block (In ordering Hangers—state model # of cleaner, upper or lower shoe, right or left, front or back of shoe)
19-044	664	Suction Drum Reliner (for #6)
19-044-A	664-7	Suction Drum Reliner (for #7)
19-044-B	664-9	Suction Drum Reliner (for #9)
19-044-C	664-8	Suction Drum Reliner (for #8)
18-033	659	Screen-way Liner (for regular models)
18-033-A	659-A	Screen-way Liner (for super models)
18-034	304-AD	Single-hole Plate
99-001	1252	Corn Grader Roll (for all #9-8 models and 0-47 state model of cleaner)
95-008	1243	Corn Grader Rubber Roll Frame (State model of cleaner—specify 6 or 10 brgs.)
95-009	1254	Corn Grader Shaft for 95-008 frame
19-058	253-44	B. Brg. Casters for frame

CLIPPER SCREEN SIZES

PERFORATED METAL SHEET										WIRE CLOTH			
ROUND HOLES		OBLONG HOLES		TRI- ANGLES	OBLONG CROSS SLOTS	ROUND HOLE HALF SIZES	OBLONG HALF SIZES	SQUARE OPENINGS		OBLONG OPENINGS			
Fractions	64ths	Fractions	64ths	64ths	Finished Screens Made Only in "9" and "8" Model Widths. Sheet Sizes 26"x41½" and 26"x53¼"			3x3	4x4	2x8	4x8½	6x14	
1/25	6	25	1/24x½	5	6x¾	6½	8½x¾	4x4	5x5	2x9	4x15	6x15	
1/24	7	26	1/22x½	8	7x¾	7½	9½x¾	4x4	5x5	2x10	4x16	6x16	
1/23	8	27	1/22x½ Diag.	9	8x¾	8½	10½x¾	7x7	8x8	2x11	4x18	6x18	
1/22	9	28	3/64x5/16	10	9x¾	9½	11½x¾	8x8	9x9	2x12	4x19	6x19	
1/21	10	29	1/20x½	11	10x¾	10½	12½x¾	10x10	11x11	3x14	4x20	6x20	
1/20	11	30	1/20x½		11x¾	11½	13½x¾	12x12	13x13	3x16	4x22	6x22	
1/19	12	31	1/18x¼		12x¾	12½	14½x¾	14x14	15x15	3x17	4x24	6x24	
1/18	13	32	1/18x¼		13x¾	13½		15x15	16x16	3x18	4x24 SP.	6x24	
1/17	14	34	1/16x¼-A		14x¾	14½		16x16	17x17	3x20	4x26	6x26	
1/16	15	36	1/16x½		15x¾	15½		17x17	18x18	3x21	4x28	6x28	
1/15	16	38	1/15x½		16x¾	16½		20x20	22x22		4x30	6x30	
1/14	17	40	1/14x¼-B		18x¾	17½		22x22	24x24		4x34	6x32	
1/13	18	42	1/14x½		10½x¾	18½		26x26	28x28		4x36	6x36	
1/12	19	44	1/13x½		11½x¾	19½		28x28	30x30			6x38	
	20	48	1/12x½-C		12½x¾	20½		32x32	34x34			6x40	
	21	56			18x¾	21½		36x36	38x38			6x42	
	22	64			19x¾	22½		40x40	42x42			6x50	
	23	72			20x¾			45x45	50x50				
	24	80			22x¾			60x60					
					24x¾-L								
					32x1								
												18x20	
												20x22	

A Few Typical Styles and Screen Perforation Sizes. See Above List for Larger, Smaller, and Intermediate Sizes.

(Notice: Openings illustrated are not scaled to exact size)



In order to complete our service to you, A. T. Ferrell & Company offers over 200 different size screens in the above listing.

Continued on page 33

CLIPPER SCREEN SIZES

Screen Number	CLEANER MODEL NUMBERS	Frame Size Overall (Inches)	Number of sheets to make screens	Size sheet only or wire cloth (inches)
Hand Testing Screen		6"x6"		
Hand Testing Screen		9"x9"		
Hand Testing Screen		12"x12"		
2-B or 2-B Special	2-B or 2-B Special	24½"x22½"	1	24x22
6	6, 16, 116	28½"x42	1	27½"x33½"
7	7, 27, 47, 147, 67, 167	34x42	1	33½"x33½"
8	498, 68, 228-D, 998-D, 918, 298-D	54x60	2	26x53½"
9	9, 29, 49, 99, 39-S, 69	42x60	2	26x41½"
7-Scalper	67, 167, 167-D	34x26	½	33½"x16¾"
8-Scalper	998, 918, 68	54x34	1	26x53½"
9-Scalper	69, 99	42x34	1	26x41½"
Office Cleaner	Office Cleaner	10x15	1	9½"x12
248-D Scalper or Top Section	248-D	54x34	1	26x53½"
248-D Lower Section	248-D	54x26	2	26x53½"

COMPLETE SCREENS -- SUPER 248-D*

Scalper 54x34
 Two of each to dress cleaner—
 2-piece 54x60 Top Screen
 3-piece 54x86 Lower Screen
 *248-D lower screens are made up of one 34" section and two 26" sections.

NOTE: Screens furnished with cleaners and any extra screens ordered can all be selected from our 207 sizes listed in our catalogue. See specifications in catalogue circulars for number of screens furnished with any machine at prices listed.

DIVIDED SCREENS

Top half divided screen 54x34
 Lower half divided screen 54x26
 Top half divided screen 42x34
 Lower half divided screen 42x26

Screens for cleaners using 42"x60" screens or 54"x60" screens are available in one or two-piece construction. In two-piece construction the longer section will be 34" long because of the 8" spreader board and lip. The 34" section together with the completely perforated 24" section makes up the complete screen.

SHOE AND SHOE SIDES

New Part Number	Old Symbol Number	Old Part Number	DESCRIPTION
1003	AZ	1003-1006	Shoe Rod and Nut—Specify dia. and length
616	BA	616	Shoe Rod Washer (square hole)
10-018	BC	307A	Screen Latch
10-019	BD	916A	Screen Spring
—	—	—	Screen Pitch Adj. Rocker (wood) <i>used on variable pitch models only.</i> Pivots on collar in shoe side and adjusts from varying pitch adjusting screw on side of cleaner. Order by description—state model, year, and serial number of cleaner.

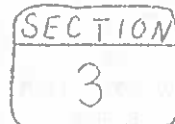
Refer to price list—Section 3 for ordering replacement Shoe or Shoe Sides—State model number and type of brush carrier from the following:

TYPE OF BRUSH CARRIER

1. Single carrier with (2) rollers in center of carrier on ¾" shaft.
 2. Double Carrier with (2) rollers on each end of carrier on two ¾" shafts.
 3. Double carrier with (2) rollers in center of carrier on 1" shaft.
- State side of cleaner on which spouts discharge.
 Replacement Screen-way Liners shown on page 31.

SECTION 3
PARTS — PRICES

SECTION 3 - CLIPPER PARTS PRICES



Page 1

To the Clipper Owner - READ - THIS IS IMPORTANT!

We call your attention to the fact that the parts assemblies illustrated in Sections 2-A, 2-B, 2-D and 2-F are taken from the Super 29-D. Similar parts, used on other models, are covered either in the descriptions under each assembly or in the price listing.

It doesn't seem to make any difference how much preparatory care, editing, double-checking, etc. is taken - any brand-new technical book will contain errors. Our new Clipper Parts Manual is no exception.

It is A. T. Ferrell & Company's intention to keep you supplied with an up-to-date price section which can be revised and printed quickly. As we reprint this material, we will correct or add information that will be helpful to you.

Here are a few corrections to the new manual going from front to back. Mark these in your book as indicated then each page will bear the latest information.

Page 3 Section 1. The word "clothes" in the second heading should read "cloth".

Page 2 Section 2-A. Use the copy under "Roll Feed Hopper" with the illustration on page 3 and inversely use the copy under "Roll Feed Brush Hopper" page 3 with the illustration on page 2 -- these were reversed during printing.

Page 2 Section 2-A. Part No. 11-029 listed and illustrated should be designated as 11-028. This error is repeated on page 3.

Page 2 Section 2-A. Part No. 11-000 on the illustration only should read 11-016.

Page 3 Section 2-A. Part No. 43-121 is incorrect. It is shown correctly as 43-021.

Page 11 Section 2-D. Part No. 100-002-1 is 37 $\frac{1}{2}$ " long in place of 37" listed: Part No. 100-002-2 is 49 $\frac{1}{2}$ " long in place of 48" listed.

Page 15 Section 2-F. Part No. 90-012 should read 19-012.

Page 18 Section 2-G. Parts No. 16-021 and No. 16-025 (Rods) are both 1" dia. instead of 1 $\frac{1}{2}$ " dia. listed.

Page 24 Section 2-J. Part No. 19-015 should read 19-038 in both illustrations, pages 24 and 25, and in copy on page 24.

Page 29 Section 2-L. Part No. 19VR or L (3rd item from bottom of 4th column) should read 19V.

Page 30 Section 2-L. Part No. 112B (4th item from top of 1st column) should read 128B.

Page 30 Section 2-L. Part No. 114B (11th item from bottom of 1st column) should read 144B.

If you are unable to find the replacement part you need, describe it completely, giving us the machine model number and the year it was built (if you know it). We will advise price and delivery.

When ordering a replacement or additional sifting screen - give us the model number of the cleaner. If the model number is painted over or otherwise is not shown, advise outside measurements of screen frame used.

When ordering screen material only, specify "screen material", giving us the size and number of screen frames you wish to re-screen.

Let us remind you that the last digit in a Clipper model number indicates the width of the machine -

Example: No. 116 - (6) width uses a 28" wide screen

Width	Model No.	Screen Width
(7)	47	34"
(9)	29-D	42"
(8)	248-D	54"

Refer to part No. 19-011 listing prices of chain for the various width cleaners. Other parts prices cover some shaft lengths, roll lengths etc. are designated in the same way.

Some of the V Belt and V Sheaves numbers have changed (these are shown currently listed on page 10).

BELTING: Cotton - Rubber - Leather

Material	Ply	Width	Less than full roll	Full roll
Cotton	3	4"	\$.36 ft.	\$.34 ft.
Cotton	3	5½"	.50	.47
Cotton	4	5½"	.66	.62
Cotton	4	8"	.96	.90
Cotton	5	8"	1.15	1.08
Cotton	5	9"	1.37	1.28
Cotton	5	10"	1.46	1.37
Rubber	3	4"	.66	.59
Rubber	3	6"	.97	.87
Rubber	4	6"	1.13	1.06
Rubber	4	8"	1.43	1.29
Rubber	5	8"	1.78	1.61
Rubber	4	9"	1.60	1.44
Rubber	5	9"	2.00	1.81
Rubber	5	10"	2.23	2.00
Leather	Fan Belt for Office Tester .25 per ft.			

SECTION 3 - CLIPPER PARTS PRICES

Part No.	Description	Price	Part No.	Description	Price
616	Washer	.20	11-005	Plate (R)	3.60
745	Bearing	6.50	11-006	Plate (L)	3.60
747	Bearing	9.10	11-008	Bearing	1.35
931	Pulley	2.90	11-011	Rack (R)	4.60
943-B	Pulley	3.30	11-012	Rack (L)	4.60
943-C	Pulley	3.30	11-013	Rack(R)	3.70
945	Bearing	7.85	11-014	Rack (L)	3.70
945-A	Bearing	7.85	11-015	Bracket	1.80
947	Bearing	10.30	11-016	Flange Brg. (5 $\frac{1}{4}$ ")	2.20
947-A	Bearing	10.30	11-017	Bearing	1.55
1003	Rod & Nut	3.15	11-020	Collar	.65
1200	Shaft	5.20	11-021	Bearing	1.30
1201	Shaft	5.75	11-025	Bearing	.90
1202	Shaft	8.40	11-026	Bearing	1.05
1203	Shaft	10.00	11-028	Bearing	2.20
1204	Shaft	4.20	11-029	Bearing	.75
1205	Shaft	4.85	11-030	Bearing	2.20
1206	Shaft	7.55	11-031	Collar	.70
1207	Shaft	10.30	11-039	Plate (R)	3.60
1208	Shaft	10.90	11-040	Plate (L)	3.60
1209	Shaft	15.45	11-041	Plate (L)	2.90
1210	Shaft	17.95	11-042	Plate (R)	2.90
1211	Shaft	21.85	11-051	Collar	.75
1212	Shaft	20.65	12-002	Pinion	1.45
1213	Shaft	11.50	12-002-1	Pinion	1.45
1214	Shaft	12.15	12-002-2	Pinion	1.45
1215	Shaft	12.15	12-003	Rack	.75
1216	Shaft	12.80	13-000	V-Sheave	3.15
1217	Shaft	17.30	13-005	V-Sheave	7.90
1218	Shaft	17.95	13-006	V-Sheave	15.75
1219	Shaft	20.65	13-006-1	V-Sheave	15.75
1220	Shaft	21.85	13-007-2	V-Sheave	14.65
1221	Shaft	23.05	13-008	V-Sheave	4.25
1222	Shaft	24.25	13-008-1	V-Sheave	4.25
1223	Shaft	6.95	13-009	V-Sheave	3.80
1224	Shaft	7.70	13-012	V-Sheave	1.70
1225	Shaft	.75	13-013	V-Sheave	6.65
1306	Countershaft	10.30	13-014	V-Sheave	19.25
1307	Countershaft	11.50	13-015	V-Sheave	23.55
1308	Countershaft	21.20	13-016	V-Sheave	12.40
1309	Countershaft	26.95	14-007	V-Sheave	1.80
1310	Countershaft	30.85	15-000	Pulley	7.00
10-001	Bearing Plate	2.20	15-001	Pulley	9.70
10-002	Rope Assembly	2.50	15-001-1	Pulley	10.90
10-003	Universal	2.90	15-002	Pulley	8.40
10-008	Crank	.95	15-002-1	Pulley	9.70
10-009	Lever Assembly	2.50	15-010	Pulley	19.20
10-013	Stool	.95	15-011	Pulley	21.60
10-014	Lever	.95	15-012	Pulley	28.00
10-018	Latch	2.20	15-013	Pulley	36.80
10-019	Spring	.75	15-014	Pulley	41.60
11-000	Flange Brg. (4 $\frac{1}{2}$ ")	2.20	15-015	Pulley	48.80
11-001	Lever	1.05			

Prices net f.o.b. Saginaw, Mich. Orders subject to seller's price at time of shipment.
 This supersedes Clipper Parts Prices dated 11/54 7/55 Litho in U.S.A.

SECTION 3 - CLIPPER PARTS PRICES

Part No.	Description	Price	Part No.	Description	Price
15-016	Pulley	44.00	19-011	(6) Chain double	1.90
15-017	Pulley	54.40	19-011	(7) Chain double	2.20
15-018	Pulley	62.40	19-011	(9) Chain double	2.60
15-019	Pulley	72.80	19-011	(8) Chain double	3.30
15-020	Pulley	68.80	19-011	(6) Chain single	2.90
15-021	Pulley	81.60	19-011	(7) Chain single	3.15
15-022	Pulley	94.40	19-011	(9) Chain single	3.70
15-023	Pulley	103.20	19-011	(8) Chain single	4.75
15-024	Pulley	120.00	19-012	Bearing	24.10
16-000	Shaft	5.45	19-013	Variable Speed Belt	44.10
16-001	Shaft	1.90	19-014	Variable Speed Belt	22.18
16-003-1	Shaft	5.45	19-015	Bearing & Housing	18.85
16-004-1	Shaft	4.00	19-016	Bearing & Housing	28.05
16-019	Shaft	12.40	19-017	Bearing	4.40
16-020	Shaft	17.60	19-018	Bearing & Collar	2.10
16-021	Rod	6.05	19-019	Flange	.30
16-023	Shaft	6.90	19-020	Seal	.55
16-024	Shaft	4.30	19-021	Bearing	1.00
16-025	Rod	6.05	19-022	Pin	.05
16-026	(7) 1.11/16 Shaft	19.40	19-023	Nut	.10
16-026-1	(9) 1.15/16 Shaft	25.75	19-024	Bearing	6.75
16-026-2	(8) 1.15/16 Shaft	28.80	19-025	Bushing	.10
16-027	Shaft	17.30	19-026	Bearing	6.75
16-046	Shaft	3.45	19-027	Bearing	7.10
16-059	Countershaft	23.05	19-030	Race	.65
16-070	Shaft	17.60	19-031	Bearing	.65
16-070-1	Shaft	9.70	19-037	Bearing	15.55
16-071	Countershaft	23.05	19-038	Bearing & Housing	15.25
16-071-1	Countershaft	9.70	19-039	Bearing & Housing	22.50
16-073	Shaft	8.70	19-040	Bearing	3.60
16-081	Shaft	4.00	19-041	Chamber	32.15
16-097	Shaft	3.60	19-041-A	Chamber	41.85
16-099	Shaft	7.75	19-041-B	Chamber	50.95
17-009	Pitman	2.20	19-042	Sack	9.70
18-000	Nut	1.05	19-042-A	Sack	11.50
18-006	Shoeve	1.05	19-042-B	Sack	13.45
18-017	Plate	.20	19-043	Hanger	2.90
18-023	Sprocket	7.45	19-043-A	Hanger	2.90
18-024	Axle	.40	19-044	Drum Iron Reliner	4.50
18-025	Sprocket	3.40	19-044-A	Drum Iron Reliner	5.20
18-030	Knocker	4.20	19-044-B	Drum Iron Reliner	5.75
18-033	Liner	2.20	19-044-C	Drum Iron Reliner	6.70
18-033-A	Liner	2.20	19-046	Bearing & Housing	26.40
18-034	Plate	1.45	19-049	Bearing	5.85
19-002	Bearing	11.15	19-050	Bearing	7.45
19-003	Bearing	9.90	19-051	Bearing	5.25
19-004	Bearing	9.00	19-052	Bearing	7.75
19-005	Bearing	7.85	19-053	Bearing	3.05
19-006	Bearing	18.45	19-054	Bearing	4.15
19-007	Bearing	5.35	19-055	Bearing	5.25
19-008	Bearing	16.20	19-056	Bearing	9.20
19-009	Bearing	4.50	19-057	Bearing	2.75
19-010	Bearing	4.50			

Prices net f.o.b. Saginaw, Mich. Orders subject to seller's price at time of shipment.
This supersedes Clipper Parts Prices dated 11/55

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SECTION 3 - CLIPPER PARTS PRICES

Part No.	Description	Price	Part No.	Description	Price
19-058	Castors	.50	42-012	Flange	3.65
20-004	Bearing	7.20	42-013	Gear	5.20
30-008	Hanger Plate	5.45	42-014	Pinion	2.90
30-010	Hanger Plate	5.45	42-019	Flight (R)	2.90
30-012	Hanger Plate	6.05	42-020	Frame (R)	13.80
30-013	Hanger Arm	4.35	42-022	Pinion	3.60
30-078-1	Hanger Plate (L)	6.05	42-023	Frame (L)	13.80
30-078-2	Hanger Plate (R)	6.05	43-020	Spring	.20
30-085	Bearing	7.20	43-021	Pin	.20
33-032	Hanger Plate (R)	6.05	43-026	(6) Shaft	.75
33-033	Hanger Plate (L)	7.20	43-026	(7) Shaft	.90
33-035	Hanger Plate	6.05	43-026	(9) Shaft	1.05
33-036	Hanger Plate (R)	7.20	43-026	(8) Shaft	1.45
33-037	Hanger Plate (L)	7.20	43-028	(6) Shaft	2.25
33-038	Hanger Plate	6.05	43-028	(7) Shaft	2.95 to 3.25
33-046	Washer	.15	43-028	(9) Shaft	3.45
33-149	Brace	1.90	43-028	(8) Shaft	3.90
34-012	Bushing	2.20	43-029	Shaft 35½"	3.90
40-009	(6) Roll	15.45	43-029	Shaft 40"	3.90
40-009	(7) Roll	17.95	43-029	Shaft 41½"	4.00
40-009	(9) Roll	20.65	43-029	Shaft 48"	4.50
40-009	(8) Roll	23.05	43-029	Shaft 50"	4.50
40-015	(7) Roll	17.95	43-029	Shaft 62"	5.45
40-015	(9) Roll	20.65	43-031	Shaft	.30 ft.
40-015	(8) Roll	23.05	43-032	Holder	.75
40-024	V-Sheave	10.90	43-034-1	Shaft	1.45
40-025	Gear	9.70	43-034-2	Shaft	1.45
40-026	Frame	13.80	43-036	Shaft	2.20
40-030	Gate 25.5/8"	5.20	43-039	Guard	2.20
40-030	Gate 30.1/8"	5.20	43-048	(6) Shaft	6.05
40-030	Gate 31.5/8"	5.20	43-048	(7) Shaft	6.90
40-030	Gate 38.1/8"	5.75	43-048	(9) Shaft	7.75
40-030	Gate 39.7/8"	5.75	43-048	(8) Shaft	8.60
40-030	Gate 50.1/8"	6.70	43-069	Washer	.30
40-030	Gate 51.7/8"	6.70	43-070	Shield	1.05
40-031	Roll 25.1/2"	15.45	43-071	Shield	1.05
40-031	Roll 31.1/2"	17.95	43-072	(6) Shaft	.75
40-031	Roll 39.7/8"	20.65	43-072	(7) Shaft	.75
40-031	Roll 51.3/4"	23.05	43-072	(9) Shaft	.90
41-010	End Board (R)	4.60	43-072	(8) Shaft	1.05
41-011	End Board (L)	4.60	43-073	(6) Shaft	2.50
42-000	Slide (R)	.75	43-073	(7) Shaft	3.15
42-001	Slide (L)	.75	43-073	(9) Shaft	3.45
42-002	Lever	1.05	43-073	(8) Shaft	3.45
42-003	Minge	.75	43-074	Plate	3.45
42-004	Lever	1.45	43-076	(6) Shaft	3.75
42-005	Clutch (R)	2.90	43-076	(7) Shaft	4.60
42-006	Clutch (L)	2.90	43-076	(9) Shaft	5.45
42-007	Flight (L)	2.90	43-076	(8) Shaft	6.30
42-008	Rack	1.05	43-120	(6) Shaft	1.05
42-009	Pinion	1.05	43-120	(7) Shaft	1.80
42-011	V-Sheave	7.30	43-120	(9) Shaft	2.50

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SECTION 3 - CLIPPER PARTS PRICES

Part No.	Description	Price	Part No.	Description	Price
43-120	(8) Shaft	3.25	117-007	Pinion	1.90
44-000	(7) Brush	5.25	117-010	Link	.55
44-000	(9) Brush	6.60	118-001	Shaft	.75
44-000	(8) Brush	8.00	118-002	Shaft	.95
44-004	(6) Brush	2.10	118-003	Shaft	.60
44-004	(7) Brush	2.40	119-003	Belt	23.05
44-004	(9) Brush	2.90	119-003-1	Belt	25.75
44-004	(8) Brush	3.45	119-003-2	Belt	28.80
55-000	Fan	25.75	119-003-3	Belt	30.80
55-001	Fan	28.80	119-003-4	Belt	38.80
55-003	Fan	37.10	119-003-5	Belt	41.85
55-006	Fan	19.40	120-000	(9) Steel Roll	52.20
60-000	Fan	10.60	120-000	(8) Steel Roll	58.65
60-010	Arm	2.85	120-001	(7) Steel Roll	43.10
60-017	Arm	2.85	120-002	(9) Rubber Roll	69.15
60-026	Arm	2.85	120-002	(8) Rubber Roll	77.05
63-001	Blade	1.45	120-003	(7) Rubber Roll	54.40
95-002	Brush Assembly	17.95	120-004	Rubber Roll	73.00
95-008	Frame	15.45	120-005	Complete Tension	
95-009	Shaft	1.70		Arm Assembly	11.20
98-000	Bracket	1.25	120-006	Complete Roll	
98-001	Clamp	2.80		Brkt. Assembly	43.40
98-002	Roller & Brg.	1.45	120-007	Strap & Arm	2.85
98-003	Axle	.75	120-008	Rod	2.85
98-023	Clamp	1.45	120-012	Screw	.45
99-001	Roll	6.95	120-014	Shaft	1.35
100-002	Brush	2.20	120-015	Crank	2.80
100-002-1	Brush	2.80	120-016	Roll	73.00
100-002-2	Brush	3.15	121-001	Arm	2.85
112-000	Casting	46.00	122-003	Slide	4.30
112-001	Casting		122-004	Eccentric	4.00
112-002	Gear	18.70	122-006	Arm	See 120-005
112-003	Gear	43.10	122-007	Cap	See 020-005
112-004	Pinion	20.10	122-008	Bracket	17.80
112-006	Lever	1.80	122-009	Eccentric	2.30
112-009	Bearing Cap	1.80	122-010	Eccentric	2.85
113-004	Stud	3.70	122-013	Bracket	1.45
113-005	Bearing	.30	123-009	Spring	See 120-005
113-007	Washer	.18	123-010	Pin	See 120-005
113-008	Collar	.30	123-011	Retainer	See 120-005
113-009	Spacer	1.25	123-017	Rod	1.05
113-012	Pin	.30	123-018	Rod	1.05
113-018	Worm	12.35	123-019	Spring	1.45
113-019	Cam	12.35	123-023	Shield	.70
113-020	Clutch	19.25	123-024	Shield	.70
113-023-3	Spacer	.75	123-025	Deflector	.45
114-034	Seal	.50	124-000	Screw	.60
114-035	Bearing	2.10	124-002	Bushing	.45
117-001	Crosshead	5.75	155-006	Wheel	1.05
117-002	Slide	2.20	155-008-A	Switch	10.30
117-005	Sprocket	1.90	155-008-B	Switch	10.30
117-006	Gear	4.90	155-010	Switch	10.30

Prices net f.o.b. Saginaw, Mich. Orders subject to seller's price at time of shipment.
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SECTION 3 - CLIPPER PARTS PRICES

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Part No.	Description	Price	Part No.	Description	Price
155-012-A	Switch	5.15	158-042	Shaft	2.35
155-012-B	Switch	6.40	158-043	Shaft	8.80
155-013-A	Switch	8.00	158-044	Shaft	17.20
155-013-B	Switch	8.00	158-045	Shaft	4.50
155-014-A	Switch	21.85	158-046	Shaft	2.75
155-014-B	Switch	21.85	158-053	Screw	4.60
155-015	Switch	6.40	158-054	Screw	3.90
155-016	Switch	8.00	158-055**	Hi-Cap Cup	See Note
155-017	Switch	21.85	158-056**	Hi-Cap Cup	
155-018	Switch	4.50	158-057**	Hi-Cap Cup	
155-019	Switch	5.75	158-058**	Hi-Cap Cup	
155-020	Switch	6.95	158-059**	Hi-Cap Cup	
155-021	Switch	Obsolete	158-060**	Hi-Cap Cup	See 120-006
157-000	Bearing	1.90	158-061**	Hi-Cap Cup	
157-007	Lever	.45	195-003	Housing & Pitman	
157-008	Frame	7.70	195-007	Nut	7.70
157-009	Frame	6.40	195-007-1	Nut	7.70
157-010	Bearing	8.40	195-017	Eccentric (R)	26.95
157-011	Bearing	4.50	195-017-1	Eccentric (L)	26.95
158-024*	Cup	See Note	195-018	Housing Ass'y	26.95
158-025*	Cup		195-020	Pitman	2.20
158-026*	Cup		195-021	Bearing	28.05
158-027*	Cup		195-026	Eccentric (R)	23.05
158-028*	Cup		195-026-1	Eccentric (L)	23.05
158-029*	Cup	2.60	195-027	Eccentric	11.50
158-030	Shaft		195-027-1	Eccentric	11.50
158-030-A	Shaft		195-030	Hub	9.00
158-030-B	Shaft		195-031	Hub	7.70
158-031	Shaft		195-032	Housing	5.15
158-031-A	Shaft	6.55	197-000	Yoke	See 120-006
158-032	Shaft	2.25	197-001	Arm	17.25
158-032-A	Shaft	1.95	197-002	Arm	14.35
158-033	Shaft	4.75	197-003	Nut	2.20
158-033-A	Shaft	6.90	197-009	Disc	12.80
158-033-B	Shaft	2.45	197-010	Disc	12.80
158-034	Shaft	7.95	197-011	Disc	11.50
158-034-A	Shaft	3.60	197-012	Disc	11.50
158-035	Shaft	7.95	197-014	Disc	15.45
158-036	Shaft	16.05	197-014-1	Disc	15.45
158-037	Shaft	3.90	197-014-2	Disc	15.45
158-038	Shaft	2.50	197-015	Disc	18.70
158-039	Shaft	8.20	197-015-1	Disc	18.70
158-040	Shaft	17.05	197-016	Disc	12.80
158-041	Shaft	4.25	197-017	Disc	10.30

*Salem Cup

**Hi-Cap Cup

Part	Desc.	Price		Part	Desc.	Price	
		1-199	200 & Over			1-199	200 & Over
158-024	Cup	.90	.35	158-055	Cup	.60	.55
158-025	Cup	.90	.85	158-056	Cup	.65	.60
158-026	Cup	Obsolete		158-057	Cup	.75	.70
158-027	Cup	.75	.70	158-058	Cup	.90	.85
158-028	Cup	.70	.65	158-059	Cup	.95	.90
158-029	Cup	.65	.60	158-060	Cup	1.00	.95
				158-061	Cup	1.20	1.35

Prices net f.o.b. Saginaw, Mich. Orders subject to seller's price at time of shipment.

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SECTION 3 - CLIPPER PARTS PRICES

Part No.	Description	Price	Part No.	Description	Price
197-018	Nut	6.10	202-010	Top Section	50.95
197-019	Nut	1.45	202-012	Spoke	4.20
197-026	Hub	5.75	202-013	Plate	4.20
197-026-1	Hub	5.75	202-014	Plate	4.20
197-026-2	Hub	5.75	202-016	Gear Box	29.05
197-027	Strap	5.75	202-017	Gear Box Cover	9.70
197-028	Spring	1.95	202-018	Leg	5.75
197-079	Nut	1.45	203-000	Shaft	19.35
198-000	Bushing	3.70	203-003	Shaft	5.45
198-001	Washer	.15	203-005	Extension	3.60
198-004	Counterweight	6.90	203-008	Felt	.20
198-006	Spring	1.95	203-027	Top Connection	7.55
198-007	Spring	2.55	203-029	Spacer	2.20
198-008	Spring	2.55	203-069	Housing	9.70
198-015	Washer	.55	203-073	Shaft	3.60
198-016	Shaft	1.10	203-075	Bracket (R)	4.20
198-030	Arm	2.80	203-076	Bracket (L)	4.20
198-031	Shaft & Plate	1.90	203-077	Rod & Spacer	1.90
198-032	Plate	1.90	203-078	Regulator	10.90
198-033	Arm	See 120-006	203-079	Brace	2.20
198-036	Key	.45	203-080	Countershaft	8.35
198-037	Key	.30	203-081	Shaft	8.35
198-038	Key	.30	203-082	Shaft	1.45
199-000	Bushing	2.20	203-083	Shaft Top Section	2.85
199-002	Bushing	1.05	203-084	Bushing	1.45
199-004	Screw	3.60	203-085	Collar	.80
199-004-A	Screw	3.90	203-086	Collar	.75
199-004-B	Screw	3.60	203-087	Retainer & Ring	2.85
199-005	Bracket	1.45	203-088	Bracket	7.55
199-006	Screw	2.85	203-089	Band	3.60
199-006-A	Screw	2.85	203-090	Nut	.20
199-007	Sprocket	1.45	203-091	Washer	.15
199-008	Chain (ft.)	.35	203-092	Bearing	3.40
199-009	Block	1.45	204-001	Concave	80.00
199-010	Block	1.45	204-003	Felt	.20
199-011	Bar	2.85	204-004	Concave	54.50
199-011-1	Bar	3.90	204-007	Bearing	2.15
199-011-2	Bar	5.15	204-008	Bearing	2.50
199-012	Bracket	1.45	204-009	Bearing	4.75
199-013	Block	1.45	204-010	Bearing	Obsolete
199-014	Rod	1.45	204-011	Bearing	7.09
200-001	Fan	4.20	204-012	Gear	20.70
200-003	Chamber	41.85	204-014	Collar	1.45
200-004	Jacket	12.80	204-015	Pipe	.55
202-001	Bottom Section	75.20	204-016	Pipe	.20
202-002	Leg (R)	38.80	204-017	Washer	.45
202-003	Leg (L)	38.80	204-018	Control Stop	.20
202-004	Discharge Section	30.05	204-019	Hopper Stop	3.25
202-005	Return Section	38.80	217-000	Sprocket	3.60
202-007	Bottom Throw Sect.	18.55	217-001	Lug	.30
202-008	Throw Section	13.45	217-002	Frame	12.45
202-009	Fan Section	25.75	217-003	Frame (L)	14.60

Prices net f.o.b. Saginaw, Mich. Orders subject to seller's price at time of shipment.
 This supersedes Clipper Parts Prices dated 11/54 7/55 Litho in U.S.A.

SECTION 3 - CLIPPER PARTS PRICES

Part No.	Description	Price	Part No.	Description	Price
217-004	Frame (R)	14.60	218-012-A	Cup	2.85
217-005	Frame (L)	10.90	218-012-B	Cup	3.25
217-006	Frame (R)	10.90	218-012-C	Cup	4.85
217-007	Frame	10.90	218-013	Cup	1.45
217-008	Gear Cover	6.20	218-013-A	Cup	1.80
217-009	Frame	10.90	218-013-B	Cup	3.25
217-010	Frame	10.90	218-014	Cup	2.20
217-011	Gear	7.55	218-014-A	Cup	2.50
217-012	Gear	2.85	218-014-B	Cup	4.00
217-013	Link	.30	218-015	Cup	3.25
217-014	Bearing	2.20	218-015-A	Cup	3.60
217-015	Collar	.75	218-015-B	Cup	5.50
217-016	Pulley	13.50	218-016	Fins	.45
217-017	Pulley	13.50	218-016-A	Fins	.50
217-018	Expanding Part	7.55	218-016-B	Fins	.55
217-019	Ball	4.20	218-016-C	Fins	1.05
217-020	Clutch Dog	1.05	218-017	Roller	.35
217-021	Lever	5.15	218-019	Rod	1.45
217-023	Pulley	25.75	218-020	Guard	2.85
217-024	Roller	6.70	218-021	Spacer	.45
218-005	Shaft	3.25	218-022	Bracket	.95
218-005-A	Shaft	3.60	218-023	Hopper	24.95
218-005-B	Shaft	3.60	218-024	Hopper	21.20
218-005-C	Shaft	3.60	218-025	Chain	.35 ft.
218-006	Shaft	2.85	218-026	Shaft	.55
218-006-A	Shaft	3.00	218-027	Shaft	.55
218-006-B	Shaft	3.25	218-028	Shaft	1.45
218-006-C	Shaft	3.60	219-000	Brush	.85
218-007	Shaft	2.85	246-002	Roll	1.45
218-007-A	Shaft	3.00	246-005	Roll	1.45
218-007-B	Shaft	3.25	246-013	Pulley	1.45
218-007-C	Shaft	3.45	246-014	Spout	2.20
218-008	Spreader	.55	247-000	Lever	1.45
218-008-A	Spreader	.60	247-001	Sheave	1.45
218-008-B	Spreader	.75	247-002	Sheave	1.45
218-008-C	Spreader	.85	247-003	Collar	.75
218-009	Rod	.55	247-004	Spring	.40
218-009-A	Rod	.60	248-012	Bearing	.20
218-009-B	Rod	.75	248-013	Bearing	.20
218-009-C	Rod	.85	248-034	Spring	.45
218-010	Cup	.95	248-035	Gate	.30
218-010-A	Cup	1.05	248-036	Fan	1.45
218-010-B	Cup	1.30	248-036-A	Fan	1.80
218-010-C	Cup	2.30	248-037	Feed Box	2.85
218-011	Cup	1.50	248-038	Hopper	2.85
218-011-A	Cup	1.80	248-039	Hopper	3.90
218-011-B	Cup	2.20	249-000	Belt	1.10
218-011-C	Cup	3.60	249-002	Belt	2.00
218-012	Cup	2.50	249-003	Belt	2.90

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SECTION 3 - CLIPPER PARTS PRICES

V-BELTS

Part No.	Price	Part No.	Price
51B	2.10	144B	5.20
55B	2.20	158B	5.65
75B	2.70	173B	6.15
81B	2.95	5L100	3.30
85B	3.10	5L480	1.80
90B	3.25	5L500	1.85
97B	3.55	5L620	2.25
105B	3.75	5L760	2.45
112B	4.05	5L920	3.00
120B	4.30	5L940	3.05
128B	4.60	5L960	3.15
136B	4.90		

V-SHEAVES

Part No.	Price	Part No.	Price
BK-28	1.25	2B12.4	12.40
BK-30	1.40	2B15.4	14.80
BK-32	1.50	3B36	6.55
BK-40	1.70	3B54	7.90
BK-45	1.80	3B62	8.90
BK-50	1.90	3B64	9.20
BK-60	2.10	3B74	10.55
BK-80	3.15	2B11.0	14.65
BK-100	3.80	3B12.4	15.75
BK-110	4.35	3B15.4	19.25
BK-120	4.55	4B6.2	11.40
BK-130	5.30	4B6.4	11.80
BK-160	6.95	4B11.0	17.55
BK-190	8.25	4B12.4	19.25
2B3.6	5.45	5B12.4	23.55
2B54	6.65	16 VR	9.65
2B62	7.50	16 VL	9.65
		19V	7.85

MISCELLANEOUS

Part No.	Description	Price
MUA 1 1/2	Bearing	4.15
MUA 1-3/16	Bearing	3.05
-	24" Flat Face Pulley	39.20
-	2 oz. Tube Cement Seal	1.25
-	Seal Spreader	.20
	Screen Pitch Rocker for 29-D or 298-D	
35-000	Top Rocker Top Shoe	10.30
35-001	Bottom Rocker Top Shoe	10.30
35-002	Top Rocker Bottom Shoe	10.30
35-003	Bottom Rocker Bottom Shoe	10.30

Prices net f.o.b. Saginaw, Mich. Orders subject to seller's price at time of shipment.
This supersedes Clipper Parts Prices dated 11/54 7/55 Litho in U.S.A.

CLIPPER SCREEN PRICES Effective July 11, 1955

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Hand Testing Screens . . .		6"x6" . . . \$1.25	9"x9" . . . \$1.95	12"x12" . . . \$2.20		
Screen No.	Cleaner Mod. No.	Frame Size Overall In.	Price Screen complete perf. metal - wiremesh	No. sheets for screens	Price per sheet	Size sheet only or wire cloth (inches)
M-2B, M-2B Sp. 2-B or 2-B Sp.	M-2B, M-2B Sp. 2-B or 2-B Sp.	24½ x 22½	\$4.95	1	\$3.85	24 x 22
6	6, 16, 116	28½ x 42	9.15	1	5.95	27½ x 33½
7	7, 27, 47, 147, 67, 167	34 x 42	10.90	1	7.20	33½ x 33½
8	498, 68, 228-D, 998-D, 918, 298-D	54 x 60	24.75	2	8.80	26 x 53½
9	9, 29, 49, 99, 39-S, 69	42 x 60	19.25	2	6.60	26 x 41½
1297 Series & HSC-2	.....	34 x 60	15.55	2	5.45	26 x 33½
7-Scalper	67, 167, 167-D	34 x 26	6.77	½	3.90	33½ x 16½
8-Scalper	998, 918, 68	54 x 34	14.00	1	8.80	26 x 53½
9-Scalper	69, 99	42 x 34	10.90	1	6.60	26 x 41½
Office Cleaner	Office Cleaner	16 x 15	2.55	1	1.55	9¼ x 12
248-D Scalper or Top Section	248-D	54 x 34	14.00	1	8.80	26 x 53½
248-D Lower Section	248-D	54 x 26	10.75	2	8.80	26 x 53½

COMPLETE SCREENS - SUPER 248-D*

Scalper - 54 x 34 \$14.00
Two of each to dress cleaner -
2-piece 54 x 60 Top Screen 24.75
3-piece 54 x 86 Lower Screen 35.50
*248-D lower screens are made up of one
34" section and two 26" sections.

SCREENS - SUPER 2248-D

Scalper - 54 x 34 14.00
Four of each to dress cleaner -
two 3-piece 54 x 86 for top } 35.50
two 3-piece 54 x 86 for lower }

All prices are net f.o.b. Saginaw, Michigan, and all orders accepted are subject to seller's price in effect at time of shipment.

COMPLETE PRICES OF DIVIDED SCREENS

Top half divided screen 54 x 34 . . . \$14.00
Lower half divided screen 54 x 26 . . . 10.75
Top half divided screen 42 x 34 . . . 10.90
Lower half divided screen 42 x 26 . . . 8.30

Screens for cleaners using 42"x60" screen or 54"x60" screens are available in one or two-piece construction. In two-piece construction the longer section will be 34" long because of the 8" spreader board and lip. The 34" section together with the completely perforated 26" section makes up the complete screen.

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