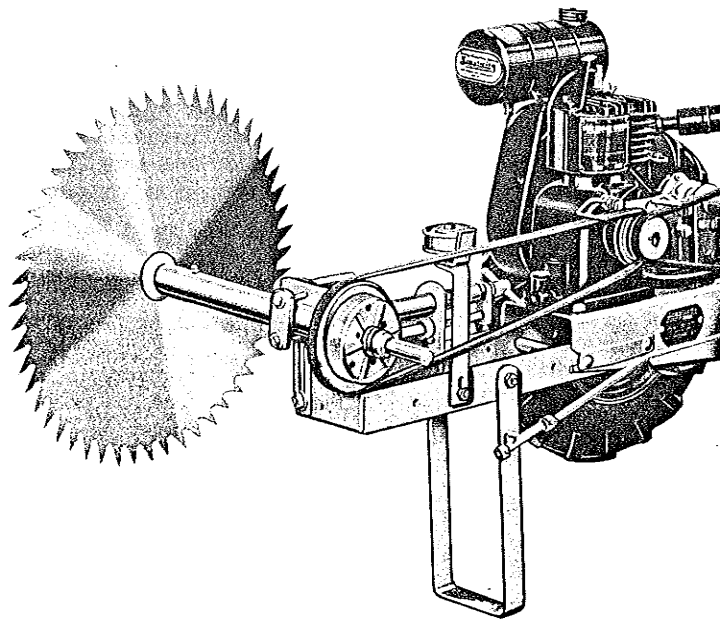


Simplicity
REG. U.S. PAT. OFF.

BRUSH AND LOG SAW AND CRADLE

SAW ARTICLE 990032
CRADLE ARTICLE 990034

**INSTRUCTIONS
AND PARTS LIST**



Simplicity Manufacturing Company

• PORT WASHINGTON, WISCONSIN

BRUSH AND LOG SAW

PACKING LIST

The complete saw is shipped in a carton with saw blade separate. The cradle attachment is packed in a separate carton.

MOUNTING FRAME AND CONTROLS

CAUTION: Do not have motor running when attaching saw.

1. Attach the saw frame (1, Fig. 1) to the patented QUICK-HITCH (2, Fig. 1) on the front of the tractor.

2. Tighten the two T nuts on QUICK-HITCH and drop stand (3, Fig. 1) into position on ground.

NOTE: QUICK-HITCH is inserted in first and third holes from back of frame for 2 and 2½ H.P. tractors and second and fourth holes for use with 5 H.P. tractors.

3. Attach stand rod (4, Fig. 1) to stand and to lower clutch lever with spring clips.

4. Be sure stand remains bolted securely to saw frame to prevent it from passing stop and damaging saw blade.

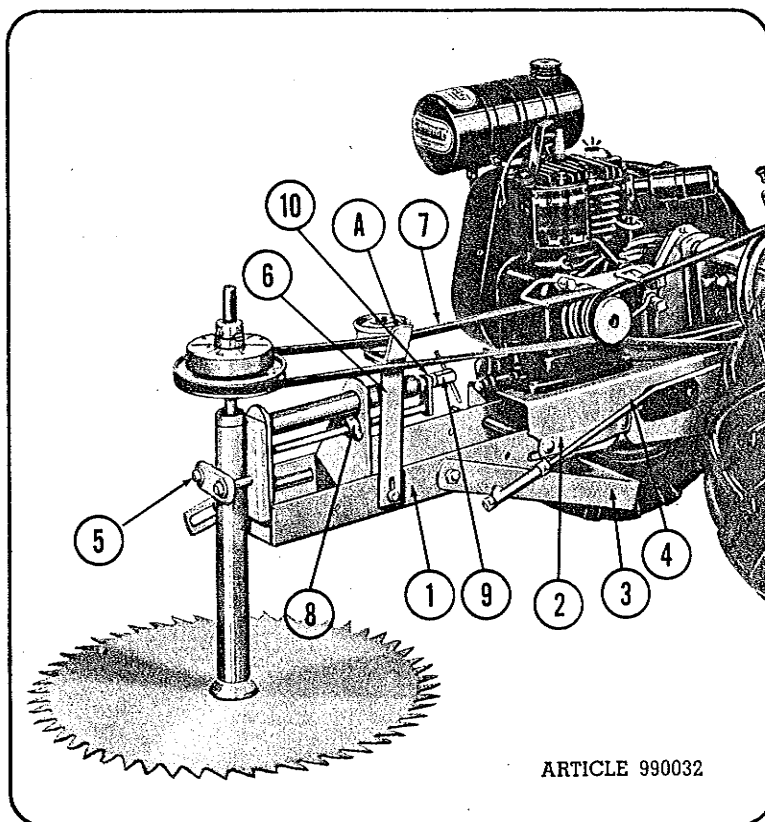


Figure 1 — Saw Mounted in Horizontal Position

IMPORTANT!

This is a cordwood saw, guaranteed to be free from defects and properly tempered. It is not guaranteed against breakage of teeth, as this is under the control of the operator.

MOUNTING SAW IN HORIZONTAL POSITION

1. Remove one screw from arbor holder clamp (5, Fig. 1) and insert arbor in vertical position as illustrated in Figure 1.

2. Raise idler bracket (6, Fig. 1) until parallel to arbor shaft and tighten carriage bolt.

3. Remove key from small bag attached to pulley, and insert in pulley key way under set screw.

4. Place pulley on arbor shaft so that it lines up with idler pulley; then tighten set screw.

5. Place A-56 Special Belt (7, Fig. 1) over arbor pulley and over middle groove of engine pulley so belt rides on idler pulley inside of belt support, (A, Fig. 1) as shown.

6. Tighten set collar (8, Fig. 1) on adjusting screw assembly and turn tightener screw (9, Fig. 1) until belt is

tight; then lock with nut (10, Fig. 1).

7. Remove left hand hex nut and flange from end of arbor shaft. Place saw blade as shown in Figure 1 over end of arbor and secure it with flange and hex nut. To insure tightness tap wrench with hammer.

When the saw is in horizontal position mounted on the Model FA 2½ H.P. or Model VA 5 H.P. tractors, the following is recommended.

Remove the ratchet pawl assembly (Part 152009) from the ratchet cage. This will afford ease of maneuverability and operation, particularly in close work or in felling trees. Ratchet pawl assembly may be replaced when cutting brush, bucking, limbing, or in use with the tilting frame.

NOTE: Belt leaving idler pulley should enter arbor pulley on a straight line. If belt tends to run off top of idler pulley tilt idler bracket slightly forward; if belt tends to run off bottom of idler pulley tilt idler bracket slightly backward. Slot in bottom of idler lever is provision for lowering and raising of idler pulley.

BRUSH AND LOG SAW

BIZUSAS 10/11
5/2/50

TO MOUNT SAW IN VERTICAL POSITION

(See Figure 2)

1. Follow same steps for mounting saw in horizontal position except arbor should be placed in horizontal position by loosening arbor prop nut (1, Fig. 2) and swinging saw blade into vertical position. V-belt runs on outside of belt support (A) as shown.

2. Arbor pulley should be lined up with middle groove of engine pulley as illustrated in Figure 2.

3. Tighten set collar (2, Fig. 2) on adjusting screw assembly and turn tightener screw (3, Fig. 2) until belt is tight; then lock with nut (4, Fig. 2).

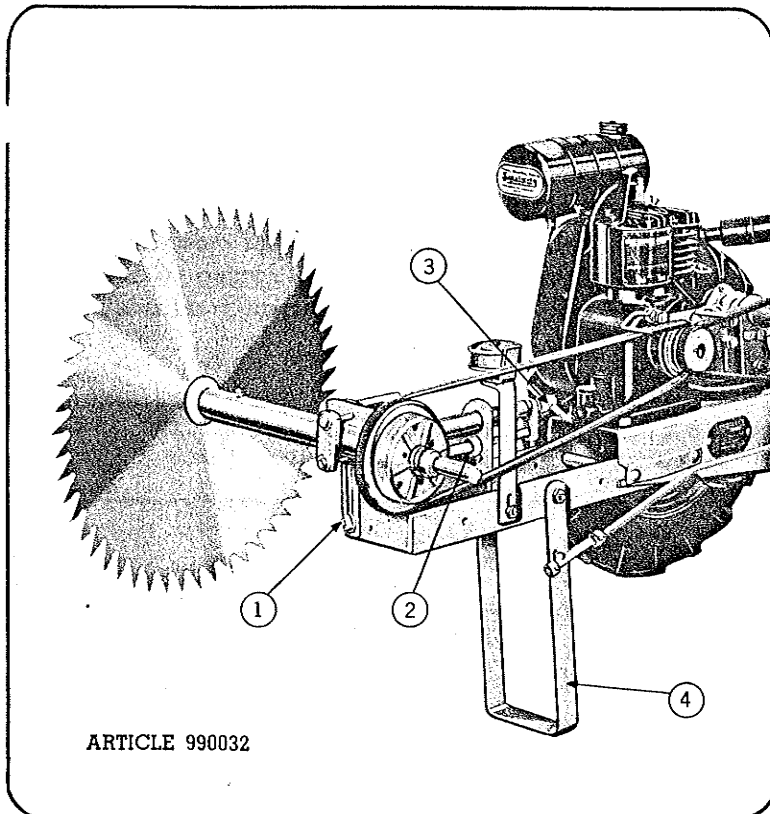


Figure 2 — Saw Mounted in Vertical Position

TO ATTACH CRADLE TO SAW

(See Figure 3)

1. Place saw in vertical position as shown in Figure 2.

2. Loosen arbor clamp bolts and remove arbor. Place cradle tube (1, Fig. 3) in arbor clamp (2, Fig. 3) keeping cradle as far to the right as possible and tighten clamp bolts. See Figure 3.

3. Place arbor (3, Fig. 3) in arbor clamp (4, Fig. 3) on top of cradle and adjust arbor pulley to line up with middle groove of engine pulley.

4. Remove cradle holder (5, Fig. 3) from cradle and attach to saw frame at (6, Fig. 3) and to cradle frame at (7, Fig. 3).

5. Place v-belt over pulleys and raise stand; turn belt tightener screw until belt is tight and lock with nut.

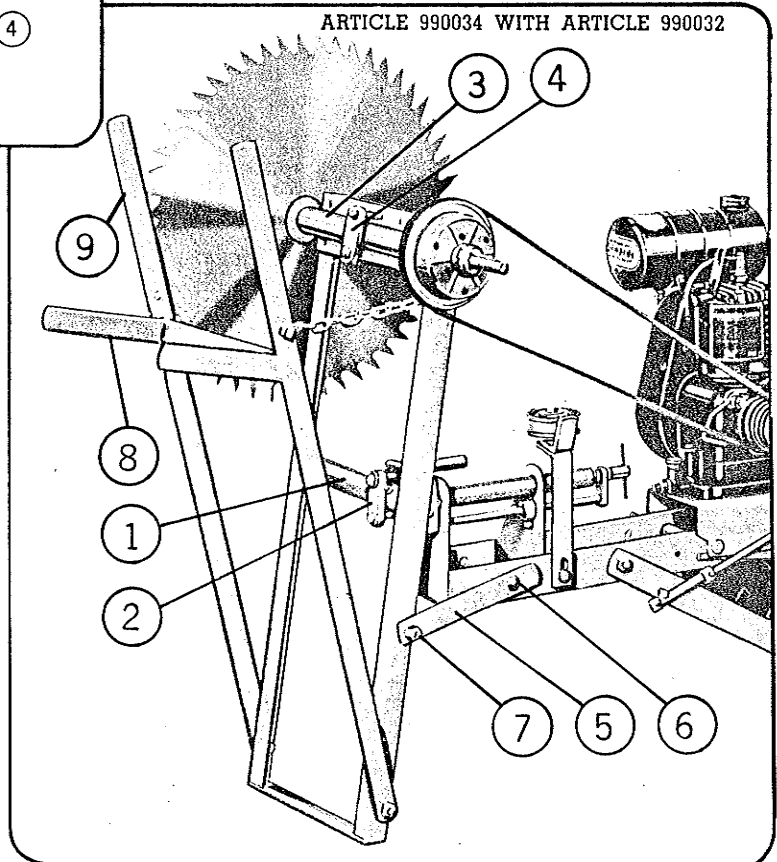


Figure 3 — Saw Mounted on Cradle

OPERATION

1. To raise or lower stand (4, Fig. 2) hold down tractor handles slightly and move left clutch lever to the rear or forward. Stand must be raised when using saw in horizontal position (Fig. 1). Lower stand when using saw in vertical position (Fig. 2) except when using cradle.

2. To use cradle place wood on support arms (8, Fig. 3). Move support arms past saw, being sure to keep hands to the right of the extension (9, Fig. 3), well away from the saw blade.

3. Belt tension should be varied according to material being cut. It should be just tight enough to prevent slipping.

How to Order Repair Parts for Simplicity Garden Tractors and Attachments

The Authorized Simplicity dealer from whom you purchased your tractor and attachments can supply you with any replacement parts you may need. For prompt service, be sure to see your dealer first. He will furnish the correct parts from his stock or order them for you if necessary. However, you may mail-order directly from the factory.

To have your order filled correctly and for prompt ser-

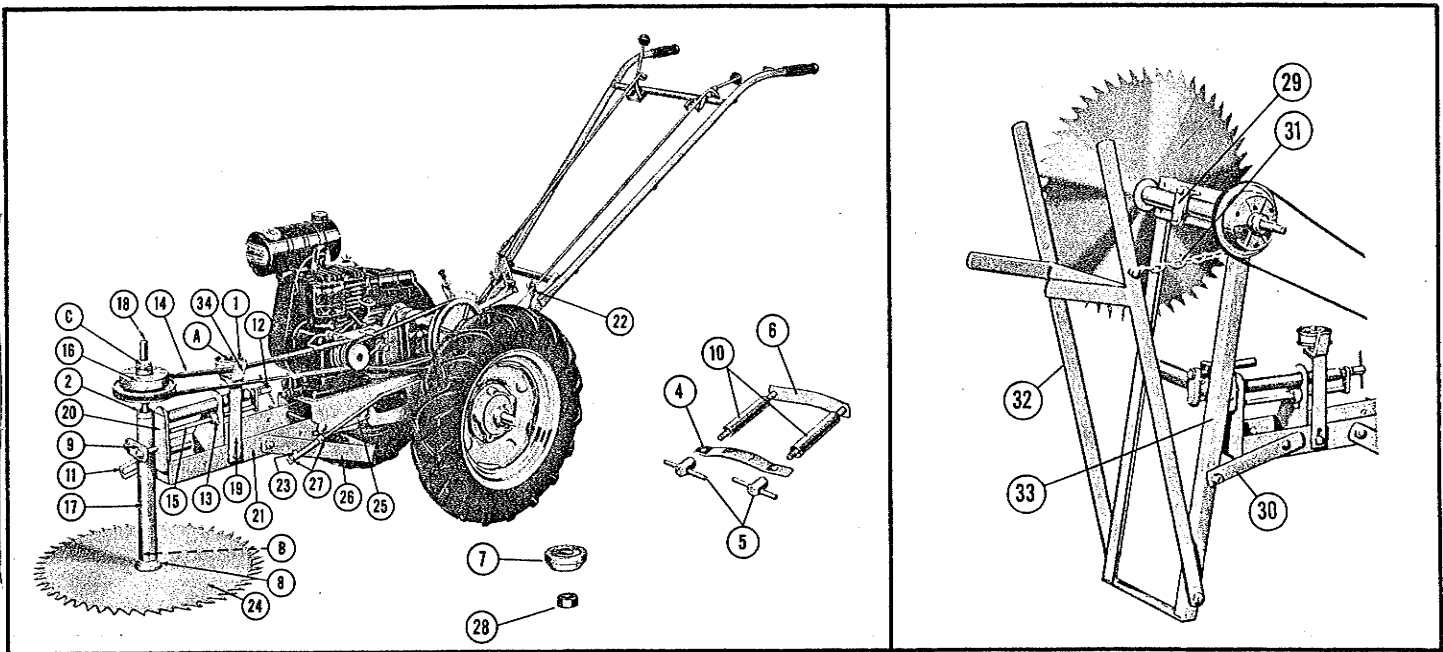
vice, please furnish the following information:

1. Model, number and year of purchase of tractor or attachment.
2. Part number, description, and quantity of part. (See parts list)

Be sure to include postage with your order. We do not pay transportation charges. Shipping weights are shown. Any excess will be promptly refunded.

We reserve the right to change construction, specifications, prices and terms, without notice and without obligation as to tractors and attachments heretofore shipped.

PRICES SHOWN ARE U.S.A. PRICES. PRICES OUTSIDE OF U.S.A. SUBJECT TO LOCAL IMPORT DUTIES, TAXES, ETC.



REPAIR PARTS

20" BRUSH AND LOG SAW

Order by Part Number

Item No.	Part No.	Name of Part	Ship. Wt.		Price Each
			Lbs.	Oz.	
1	F-AX5	Idler Pulley - 8051505	12		\$ 1.00
2	DA-10	Set Collar (Arbor Shaft) - 8021010	7		.45
4	103001	Hitch Side Plate	12		.15
5	S1A41A	T-Nut - 8161041	4		.50
6	S1BX1	Hitch Clamp Assembly - 81625C1	1		1.00
7	SW-A12	Lower Flange - 8301012	1	4	1.40
8	SW-A13	Upper Flange - 8301013	1	4	1.70
9	SW-A5	Clamp - 8301005	10		.30
10	SW-A37	Spacer - 8301037	8		.30
11	SW-A39	Arbor Prop - 8301039	1		.70
12	SW-A40	Tightener Screw - 8301040	12		.55
13	SW-A42	Set Collar (Tightener Assembly) 8301042	10		.45
14	110003	A-56 Super Combine V Belt 58"	2		3.25
15	SW-AX2	Tightener Assembly - 8301502	1	8	2.10
16	SW-AX5	Clutch Assembly - 8301505	5	6	13.50
17	SW-B2A	Bearing Housing with bushings - 8302202	12		3.30
18	SW-B14	Arbor - 8302014	5	2	9.30
19	110001	Idler Bracket	1		1.60
20	SW-BX2	Arbor Holder Assembly - 8302502	9	8	6.60
21	SW-BX3	Frame Assembly - 8302503	15		9.90
22	S1A45A	Spring Clip - 8161045	2		.20
23	S1AX18	Rod Socket Assembly 8161518	4		.90
24	SW-A29	20" Cordwood Saw Blade (1 1/8" Bore) 8301029	7	29	10.90

Item No.	Part No.	Name of Part	Ship. Wt.		Price Each
			Lbs.	Oz.	
25	SW-B1A	Stand Rod - 8302001	1		.55
26	SW-C1	Stand - 8303001	4		1.45
27	S2A-22A	Set Collar (Stand Rod) 8191022	3		.50
28		Hex Full Nut, L.H.	6		.18
34	110002	Belt Support #1641 Grease Fittings	5		.50
			2		.10

PARTS NOT ILLUSTRATED

Item No.	Part No.	Name of Part	Ship. Wt.	Price Each
A	S1LA73	Inner Bearing Race 8111013	4	\$.40
B	S2A43	Bushing for Bearing Housing 8191043	5	.55
C	SW-A55	Pulley Key 8301066	5	.20

SAW CRADLE

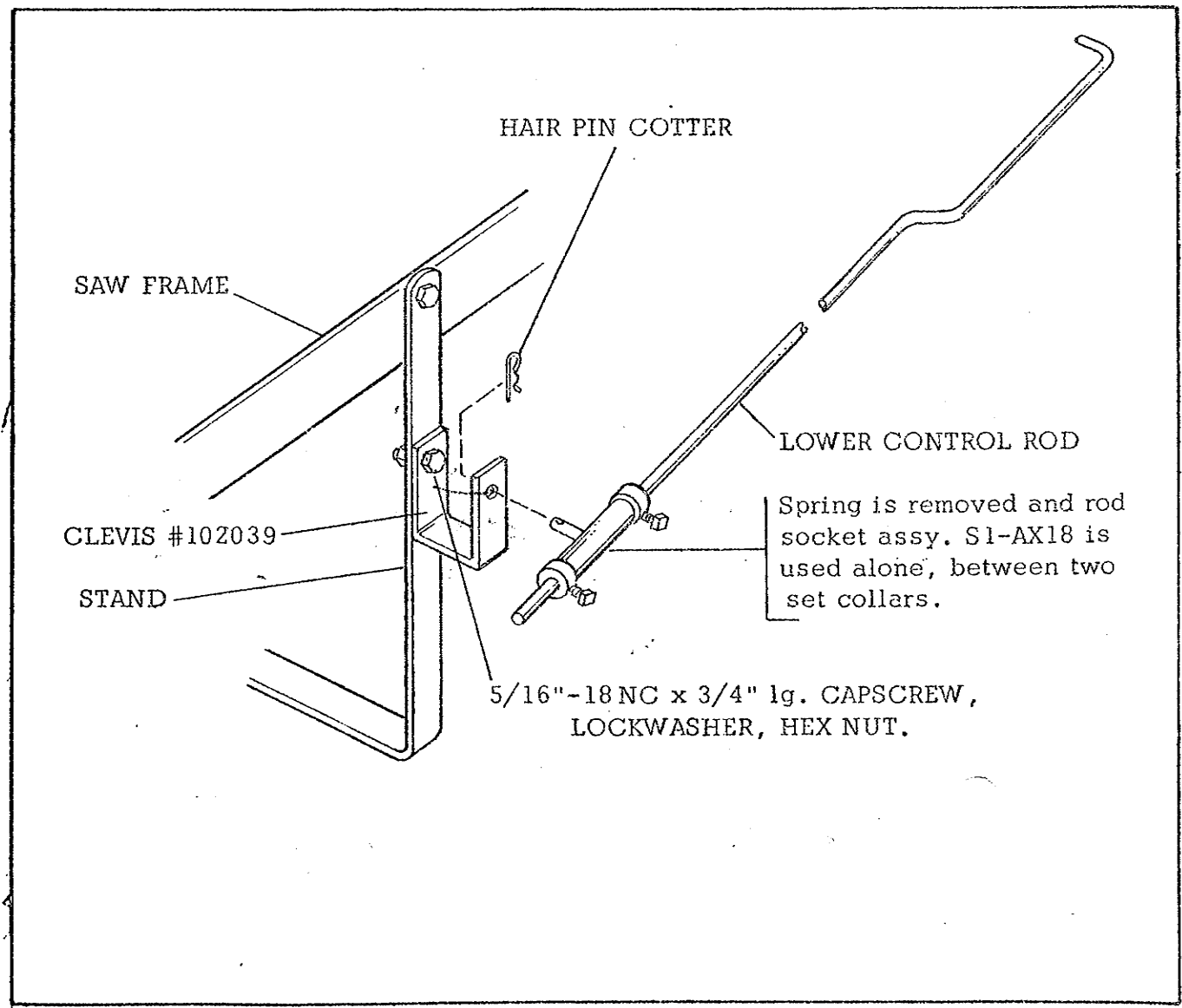
Item No.	Part No.	Name of Part	Ship. Wt.	Price Each
29	SW-A5	Clamp - 8301005	10	\$.30
30	SW-A19	Cradle Holder - 8301019	1	.55
31	SW-A27	Cradle Chain (12") - 8301027	12	.20
32	SW-CX3	Cradle Assembly - 8303503	16	6.75
33	SW-CX4	Cradle Frame Assembly 8303504	8	8.90

Product Number
990196

ATTACHING 20" BRUSH & LOG SAW TO MODEL "W" TRACTOR

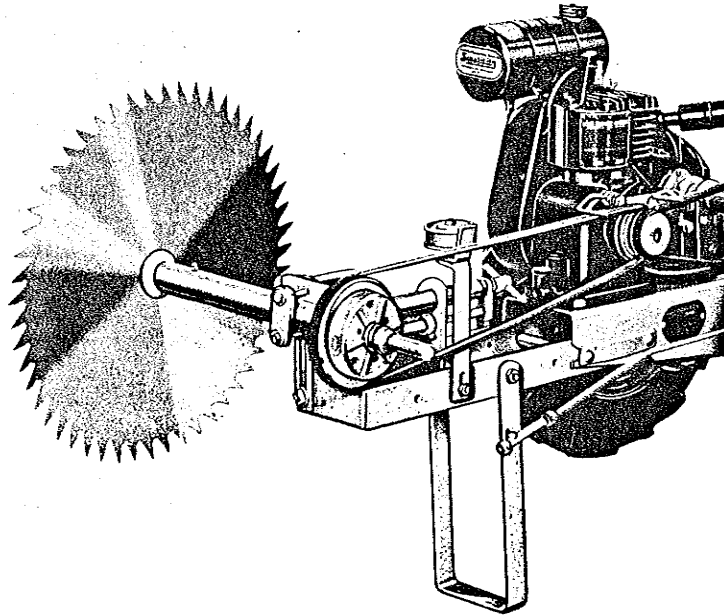
The 20" Brush and Log Saw is attached to the Model "W" tractor by following the instructions as shown in the instruction manual. The only variations in attaching are listed below.

When attaching the saw frame to the Model "W" tractor, the QUICK HITCH is inserted into the 2nd and 4th holes from the back of the saw frame. Add the Clevis #102039 to the stand, using a 5/16"-18 NC x 3/4" long capscrew, lockwasher and hex nut. This clevis acts as an extension into which the lower control rod attaches.



Simplicity
REG. U.S. PAT. OFF.

**INSTRUCTIONS
AND PARTS LIST**



**BRUSH AND LOG SAW
AND CRADLE**

SAW-----Article No. 990196

CRADLE-----Article No. 990034

PACKING LIST

The complete saw is shipped in a carton with saw blade separate. The cradle attachment is packed in a separate carton.

MOUNTING FRAME AND CONTROLS

CAUTION: Do not have motor running when attaching saw.

1. Attach the saw frame (1, Fig. 1) to the patented QUICK-HITCH (2, Fig. 1) on the front of the tractor.

2. Tighten the two T nuts on QUICK-HITCH and drop stand (3, Fig. 1) into position on ground.

NOTE: QUICK-HITCH is inserted in first and third holes from back of frame for 2 and 2½ H.P. tractors and second and fourth holes for use with 5 H.P. tractors.

3. Attach stand rod (4, Fig. 1) to stand and to lower clutch lever with spring clips.

4. Be sure stand remains bolted securely to saw frame to prevent it from passing stop and damaging saw blade.

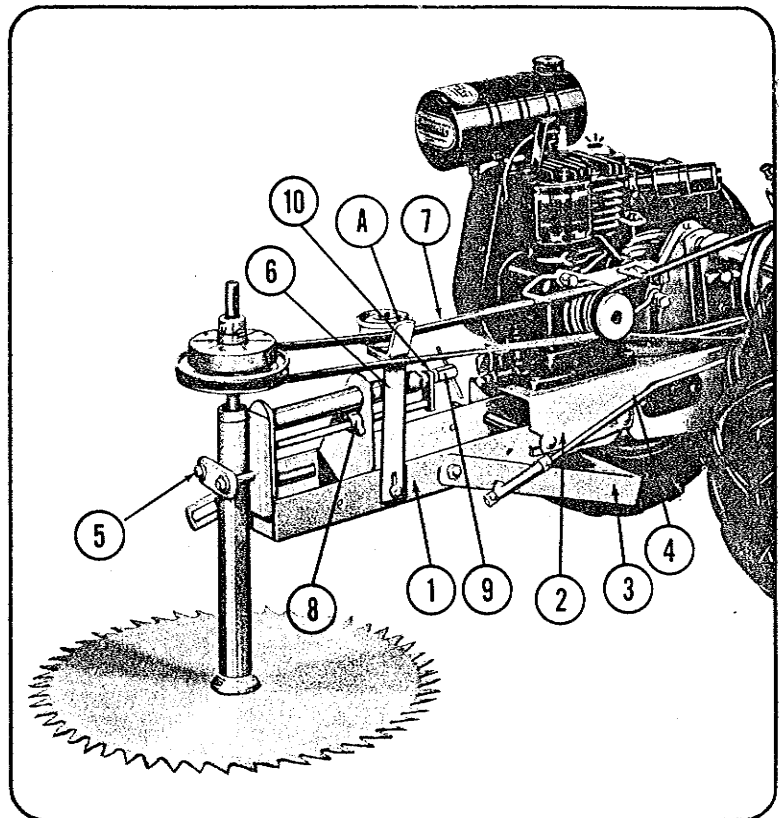


Figure 1 — Saw Mounted in Horizontal Position

IMPORTANT!

This is a cordwood saw, guaranteed to be free from defects and properly tempered. It is not guaranteed against breakage of teeth, as this is under the control of the operator.

MOUNTING SAW IN HORIZONTAL POSITION

1. Remove one screw from arbor holder clamp (5, Fig. 1) and insert arbor in vertical position as illustrated in Figure 1.
2. Raise idler bracket (6, Fig. 1) until parallel to arbor shaft and tighten carriage bolt.
3. Remove key from small bag attached to pulley, and insert in pulley key way under set screw.
4. Place pulley on arbor shaft so that it lines up with idler pulley; then tighten set screw.
5. Place A-56 Special Belt (7, Fig. 1) over arbor pulley and over middle groove of engine pulley so belt rides on idler pulley inside of belt support, (A, Fig. 1) as shown.
6. Tighten set collar (8, Fig. 1) on adjusting screw assembly and turn tightener screw (9, Fig. 1) until belt is

tight; then lock with nut (10, Fig. 1).

7. Remove left hand hex nut and flange from end of arbor shaft. Place saw blade as shown in Figure 1 over end of arbor and secure it with flange and hex nut. To insure tightness tap wrench with hammer.

When the saw is in horizontal position mounted on the Model FA 2½ H.P. or Model VA 5 H.P. tractors, the following is recommended.

Remove the ratchet pawl assembly (Part 152009) from the ratchet cage. This will afford ease of maneuverability and operation, particularly in close work or in felling trees. Ratchet pawl assembly may be replaced when cutting brush, bucking, limbing, or in use with the tilting frame.

NOTE: Belt leaving idler pulley should enter arbor pulley on a straight line. If belt tends to run off top of idler pulley tilt idler bracket slightly forward; if belt tends to run off bottom of idler pulley tilt idler bracket slightly backward. Slot in bottom of idler lever is provision for lowering and raising of idler pulley.

TO MOUNT SAW IN VERTICAL POSITION

(See Figure 2)

1. Follow same steps for mounting saw in horizontal position except arbor should be placed in horizontal position by loosening arbor prop nut (1, Fig. 2) and swinging saw blade into vertical position. V-belt runs on outside of belt support (A) as shown.

2. Arbor pulley should be lined up with middle groove of engine pulley as illustrated in Figure 2.

3. Tighten set collar (2, Fig. 2) on adjusting screw assembly and turn tightener screw (3, Fig. 2) until belt is tight; then lock with nut (4, Fig. 2).

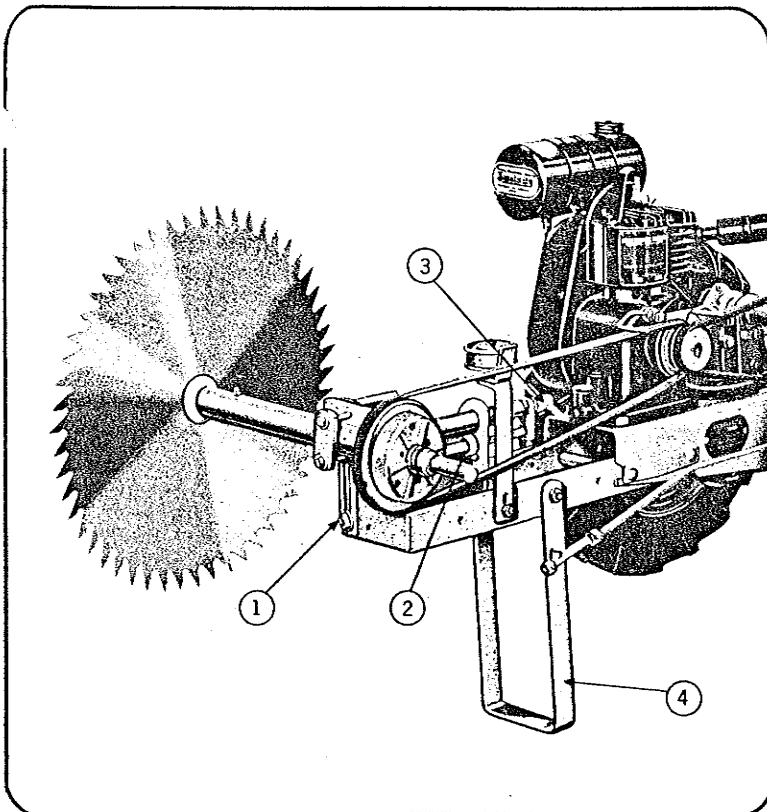


Figure 2 — Saw Mounted in Vertical Position

TO ATTACH CRADLE TO SAW

(See Figure 3)

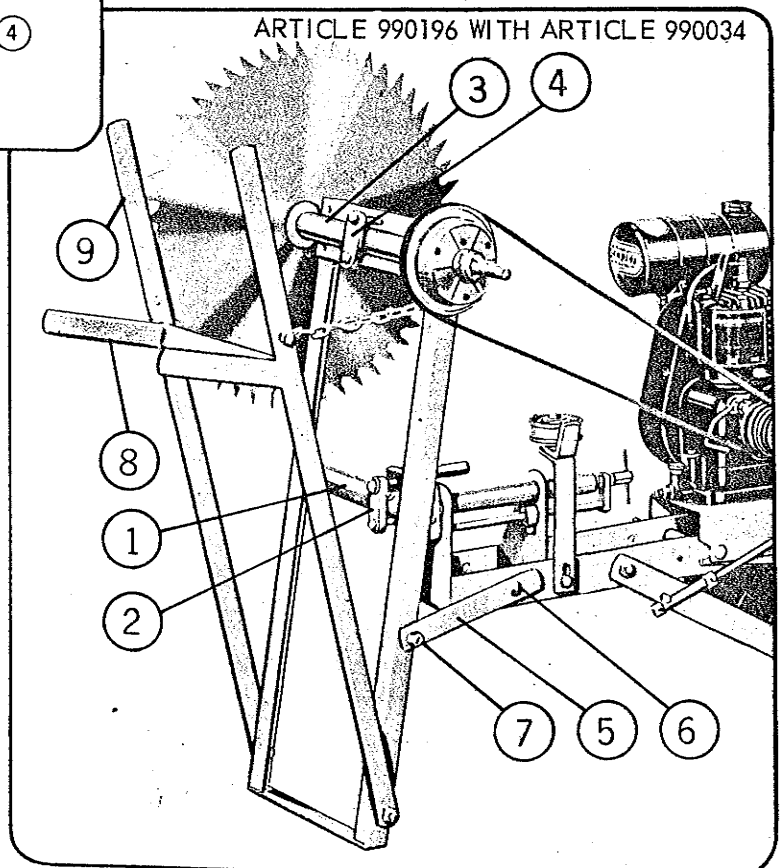
1. Place saw in vertical position as shown in Figure 2.

2. Loosen arbor clamp bolts and remove arbor. Place cradle tube (1, Fig. 3) in arbor clamp (2, Fig. 3) keeping cradle as far to the right as possible and tighten clamp bolts. See Figure 3.

3. Place arbor (3, Fig. 3) in arbor clamp (4, Fig. 3) on top of cradle and adjust arbor pulley to line up with middle groove of engine pulley.

4. Remove cradle holder (5, Fig. 3) from cradle and attach to saw frame at (6, Fig. 3) and to cradle frame at (7, Fig. 3).

5. Place v-belt over pulleys and raise stand; turn belt tightener screw until belt is tight and lock with nut.



OPERATION

Figure 3 — Saw Mounted on Cradle

1. To raise or lower stand (4, Fig. 2) hold down tractor handles slightly and move left clutch lever to the rear or forward. Stand must be raised when using saw in horizontal position (Fig. 1). Lower stand when using saw in vertical position (Fig. 2) except when using cradle.

2. To use cradle place wood on support arms (8, Fig. 3). Move support arms past saw, being sure to keep hands to the right of the extension (9, Fig. 3), well away from the saw blade.

3. Belt tension should be varied according to material being cut. It should be just tight enough to prevent slipping.

How to Order Repair Parts for Simplicity Garden Tractors and Attachments

The Authorized Simplicity dealer from whom you purchased your tractor and attachments can supply you with any replacement parts you may need. For prompt service, be sure to see your dealer first. He will furnish the correct parts from his stock or order them for you if necessary. However, you may mail-order directly from the factory.

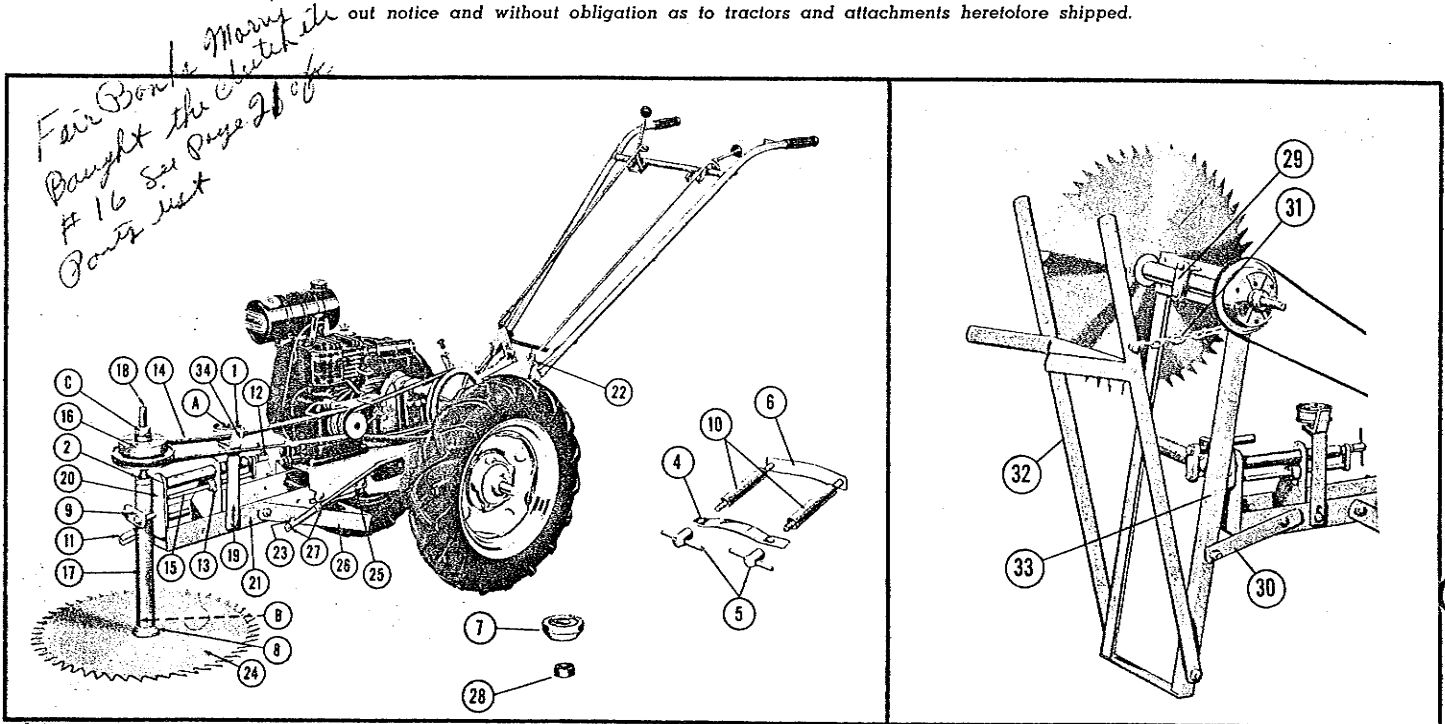
To have your order filled correctly and for prompt ser-

vice, please furnish the following information:

1. Model, number and year of purchase of tractor or attachment.
2. Part number, description, and quantity of part. (See parts list)

Be sure to include postage with your order. We do not pay transportation charges. Shipping weights are shown. Any excess will be promptly refunded.

We reserve the right to change construction, specifications, prices and terms, without notice and without obligation as to tractors and attachments heretofore shipped.



Sta. 1 of 2 \$5.90
2 of 2 13.10

20" BRUSH AND LOG SAW

Order by Part Number

Item No.	Part No.	Description
1	8051505	Idler Pulley
2	8021010	Set Collar (arbor shaft)
4	103001	Hitch Side Plate
5	8161041	T-Nut
6	8162501	Hitch Clamp Assembly
7	8301012	Lower Flange
8	8301013	Upper Flange
9	8301005	Clamp
10	8301037	Spacer
11	8301039	Arbor Prop
12	8301040	Tightener Screw
13	8301042	Set Collar
14	110003	A56 Super Combine V-Belt 58"
15	8301502	Tightener Assembly
16	8301505	Clutch Assembly
17	8302002	Bearing Housing w/Bushing
18	8302014	Arbor
19	110001	Idler Bracket
20	8302502	Arbor Holder Assembly
21	8302503	Frame Assembly
22	8161045	Spring Clip

Item No.	Part No.	Description
23	8161518	Rod Socket Assembly
24	8301029	20" Blade (1 3/8" Bore)
25	8302001	Stand Rod
26	8303001	Stand
27	8191022	Set Collar
28	718005	Hex Full Nut, L.H.
34	110002	Belt Support
PARTS NOT ILLUSTRATED		
A	8171073	Inner Bearing Race
B	8191043	Bushing
C	8301066	Pulley Key
SAW CRADLE		
29	8301005	Clamp
30	8301019	Cradle Holder
31	8301027	Cradle Chain (12")
32	8303503	Cradle Assembly
33	8303504	Cradle Frame Assembly

ATTACHING 20" BRUSH & LOG SAW TO MODEL "W" TRACTOR

The 20" Brush and Log Saw is attached to the Model "W" tractor by following the instructions as shown in the instruction manual. The only variations in attaching are listed below.

When attaching the saw frame to the Model "W" tractor, the QUICK HITCH is inserted into the 2nd and 4th holes from the back of the saw frame. Add the Clevis #102039 to the stand, using a 5/16"-18 NC x 3/4" long capscrew, lockwasher and hex nut. This clevis acts as an extension into which the lower control rod attaches.

