



Electronic Service Manuals

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You may contact Michco through the following methods:

Phone (517) 484-9312 or (800) 331-3339

2011 N. High St. -- Lansing, Michigan -- 48906

Fax: (517) 484-9836

Email: CustServe@Michco.com

Web site: www.Michco.Com

Parts Web site: www.FloorMachineParts.Com

Order Parts on Line at:

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Directly to Parts & Service:

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By Voice: Use numbers above.

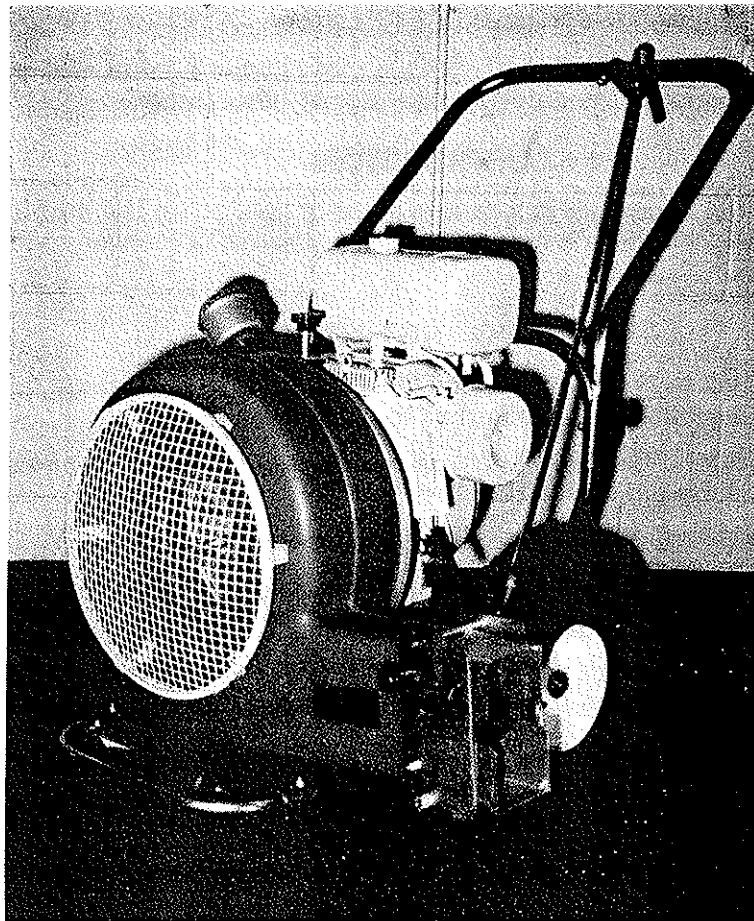
Serving the Cleaning Industry Since 1922

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OWNERS GUIDE



HURRICANE MODEL HC-8180/MODEL HC-8180-K



**READ THESE INSTRUCTIONS
BEFORE SETTING UP AND OPERATING MACHINE**

PARKER SWEEPER COMPANY Box 1728 Springfield, Ohio 45501

TO THE OWNER

These instructions were written to assist you in the assembly and operation of your Hurricane. **READ THE INSTRUCTIONS** thoroughly **BEFORE** attempting to assemble and operate the machine so that you are familiar with the complete procedure and the safety precautions.

RULES FOR SAFE OPERATION



The following safety precautions are suggested to prevent damage to the equipment or injury to the operator or nearby persons.

1. TO PREVENT ACCIDENTAL STARTING ALWAYS REMOVE THE SPARK PLUG before working on the engine or equipment driven by the engine.
2. DO NOT RUN THE ENGINE IN AN ENCLOSED AREA. Exhaust gases contain carbon monoxide which is an odorless and deadly poison.
3. DO NOT FILL GASOLINE TANK WHILE ENGINE IS HOT OR RUNNING. Spilling gasoline on a hot engine may cause a fire or explosion.
4. DO NOT leave machine unattended while running.
5. DO NOT ALLOW machine to blow in direction of people or objects that could be injured by blown materials.
6. AVOID operating machine in dangerous places where steep slopes or loose debris will endanger the safety of operator or other people.

LUBRICATION

The only lubrication necessary is a couple drops of light oil on the throttle control lever and throttle wire where it enters the cable, also on the moving parts on the exhaust deflector.

OPERATING INSTRUCTIONS

1. Before starting the engine, read the Operating and Maintenance Instruction Manual. Add proper gasoline and oil to correct level.
2. Engine should be "broken in" by running at ½ throttle for 30 minutes and full throttle for an additional 30 minutes.
3. Machine will operate effectively by either pushing or pulling.
4. Your Hurricane Blower can be used as either a Low Blow or Hi Blow depending on the application.
5. For moving heavy debris such as sticks, cleaning out flower beds, anything heavier than leaves, use the Low Blow.
6. For controlled blowing of leaves into windrows and stacking use the Hi Blow.

IMPORTANT

ALWAYS GIVE THE FOLLOWING INFORMATION WHEN ORDERING REPAIR PARTS:

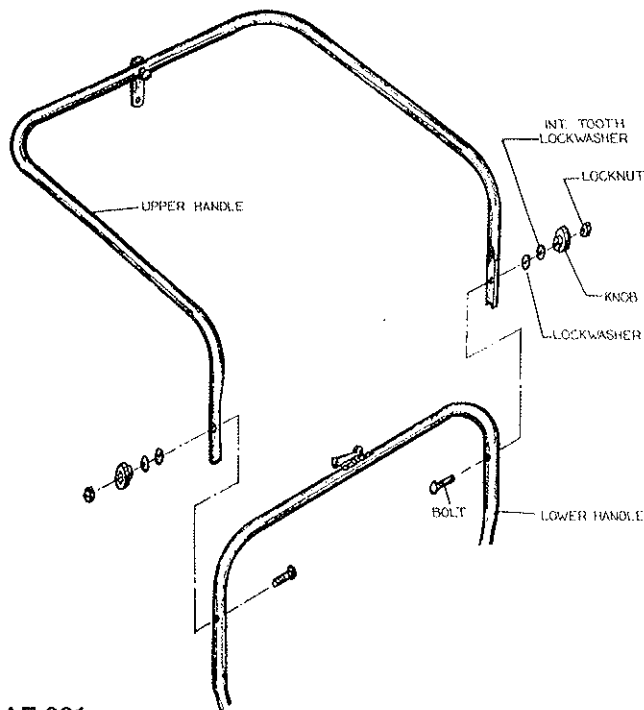
- | | |
|-------------------------------|---------------------------|
| 1. Part Number (Not Ref. No.) | 3. Description of Part |
| 2. Quantity Needed | 4. Model No. of Hurricane |

If unable to obtain parts locally, write down above information and send to:
PARKER SWEEPER CO., BOX 1728, SPRINGFIELD, OHIO 45501

Your unit is right hand (R.H.) or left hand (L.H.) as you stand behind it.

ASSEMBLY INSTRUCTIONS

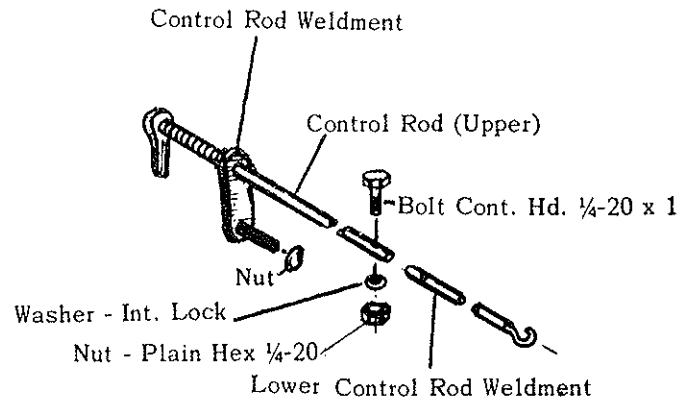
Remove the Hurricane from its carton. The upper handle is not attached. From the upper handle remove the plastic knobs, bolts, lock washers, and locknuts. Insert the carriage bolts into the square holes on the inside of the lower handle and attach the upper handle, spring lockwashers, and internal tooth lockwashers. Screw on the plastic knobs until tight; screw on the locknuts until approximately two threads clear the nuts.



AF-301

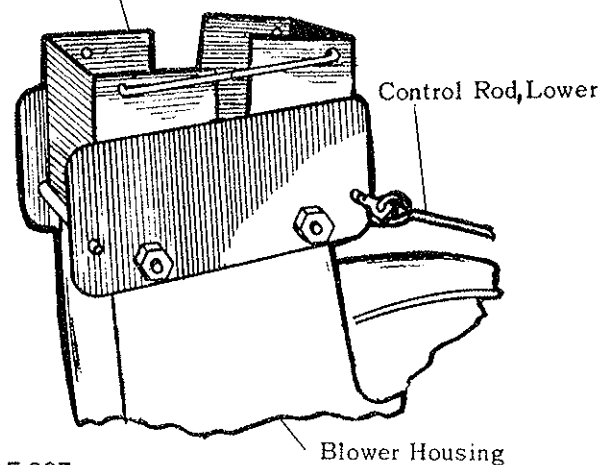
Control Rod Installation

Slip the upper control rod through the weldment, then connect the lower control rod weldment to the deflector assembly. Telescope the control rods together and fasten with the $\frac{1}{4}$ -20x1 bolt, the internal tooth lock washer, and nut.



AF-296

Exhaust Defl. Assy.



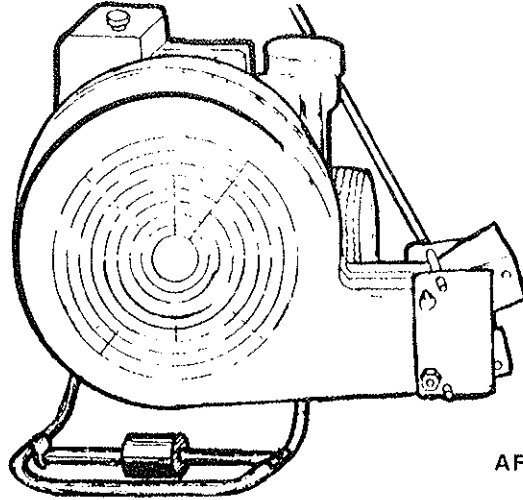
AF-297

NOTE: Now tighten all the bolts and nuts.

OPERATING INSTRUCTIONS

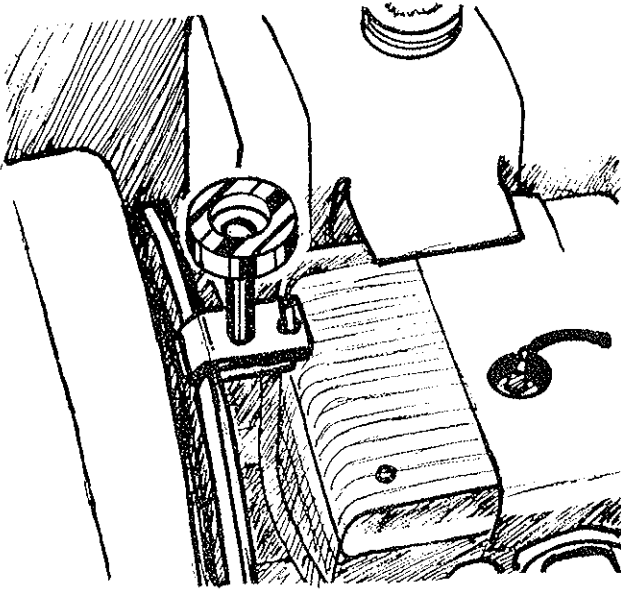
When adjusting the blower housing to HI or LOW BLOW, engine must be stopped with the spark plug wire disconnected.

To adjust the blower housing to a desired position, turn the knob counter-clockwise to loosen. Pivot the exhaust deflector to the desired position, and tighten the knob.



AF-288

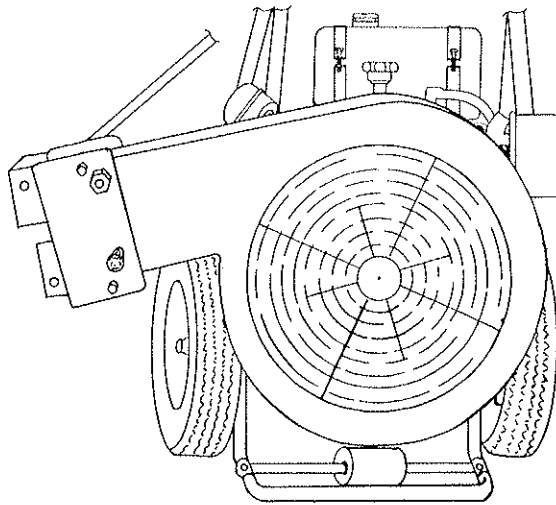
Blower housing in the Low Blow position.



AF-293

It is not necessary to detach the exhaust deflector control rod assembly. It will pivot with the blower housing to any position.

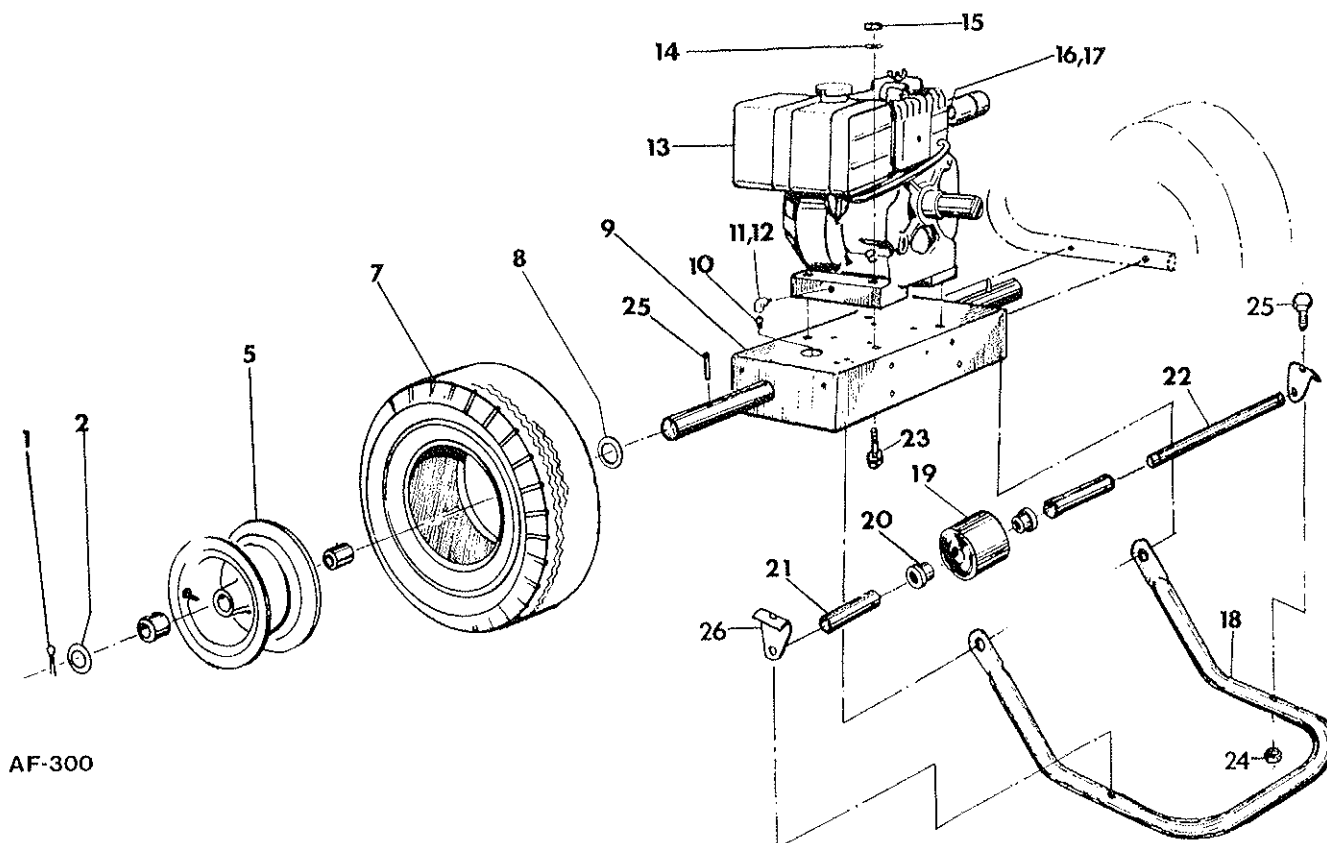
By turning the knob on the control rod assembly fastened to the upper cross bar, the deflection angle can be changed to control the air flow from the exhaust deflector.



AF-289

Blower housing in the Hi Blow position.

CHASSIS AND ENGINE ASSEMBLY



AF-300

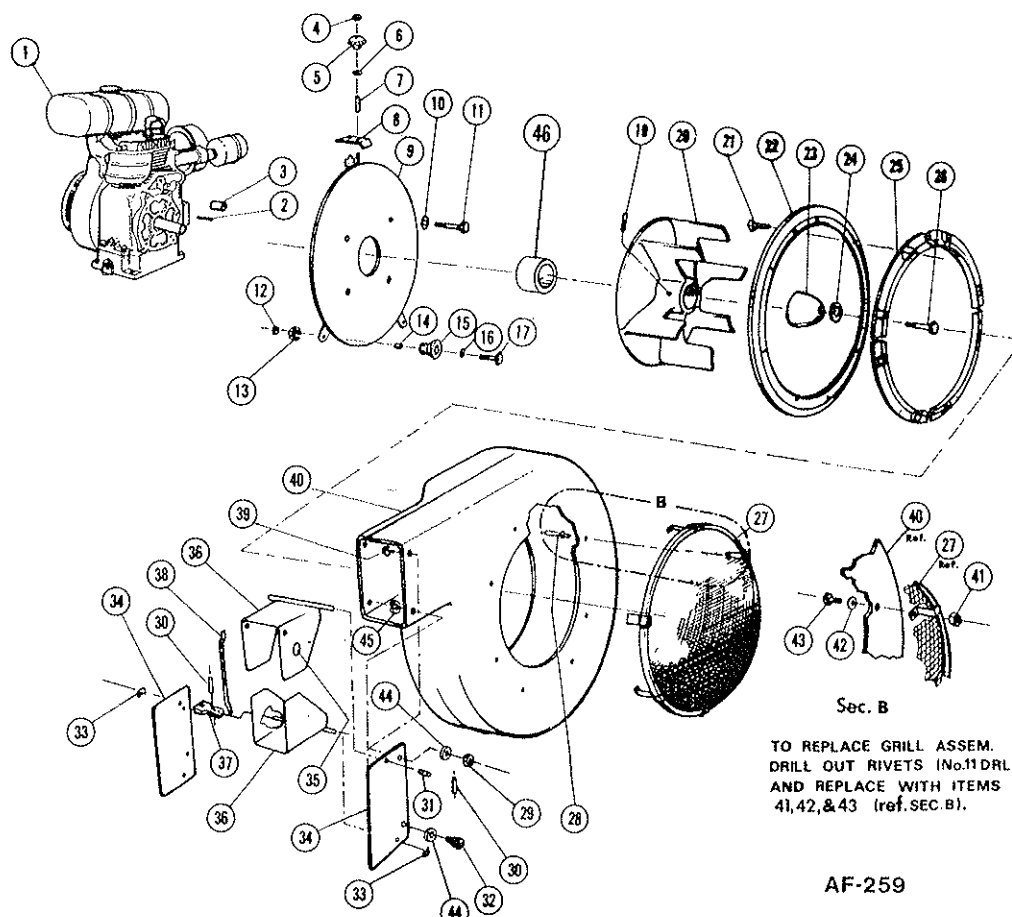
PARTS LIST

Ref. No.	Part No.	Qty. Per Unit	Description	Ref. No.	Part No.	Qty. Per Unit	Description
1	380-432-20	2	Cotter Pin, 1/8 dia.x1 1/4	14	945-516	4	Washer, Flat, 5/16
2	945-1216	2	Washer, Flat	15	365-516	8	Nut, Hex, Lock, 5/16
5	68-447-B	2	Wheel	16	69-125-A	1	Elbow, Street, 1x45° (Kohler only)
7	68-312-A	2	Tire, 5.30/4.50x6	17	72-291-A	1	Nipple, 1x3 (Kohler only)
8	945-1216	2	Washer, Flat	18	80-338-C	2	Roller Support
9	73-360-C	1	Chassis Weldment	19	66-436-A	1	Roller
10		1	Plug, Pipe (Supplied with engine)	20	66-432-A	2	Bearing
11	73-363-A	1	Elbow (Supplied with B/S engine)	21	80-340-A	1	Spacer
12	57-81-A	1	Elbow (Supplied with Kohler engine)	22	80-339-A	1	Axle
13		1	Engine, Kohler	23	65-516-20	4	Bolt, Hex Hd., 5/16-18x1 1/4
		1	Engine, B/S	24	365-516	2	Nut, Hex, Lock, 5/16-18
			<i>K-181-T spec. 30814</i>	25	G5-516-24	2	Bolt, Hex, Hd., 5/16-18x1 1/2
				26	81-02-A	2	Bracket

NOTE: This table will enable you to correctly identify the wheel parts you need.

	Dico Wheel	Geneva Wheel
Wheel	63-169-A	68-447-B
Wheel Bore	1-1/8	1 3/8
Bushing	63-313-A	67-03-A

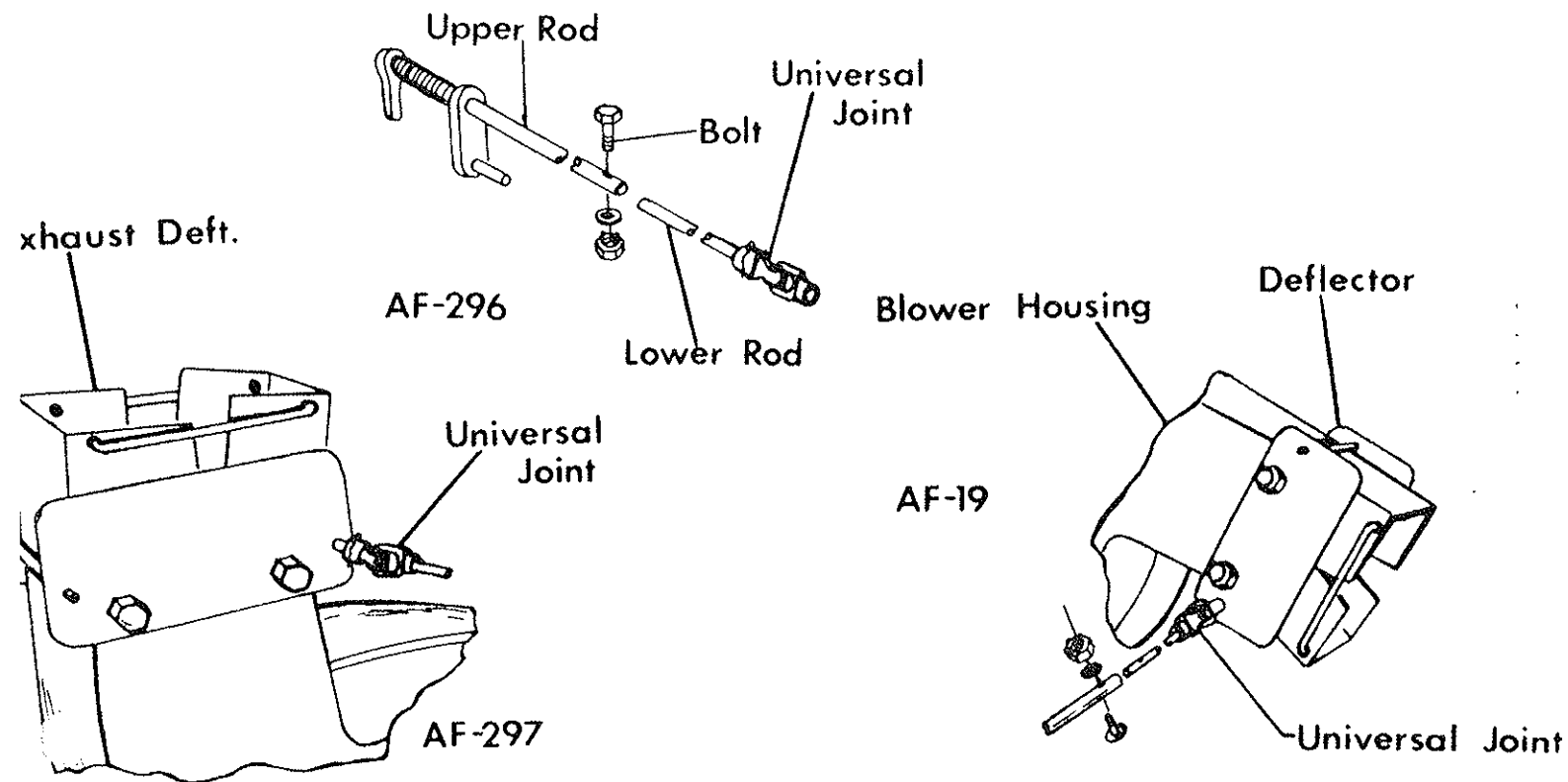
BLOWER ASSEMBLY



PARTS LIST

Ref. No.	Part No.	Qty. Per Unit	Description	Ref. No.	Part No.	Qty. Per Unit	Description
1	Engine	1		25	73-123-C	4	Anti-Wrap
2	63-130-A	1	Fan Key $\frac{1}{4}$ x 2 $\frac{3}{8}$	26	65-39-A	1	Bolt - Fan
3	79-139-A	4	Spacer - Back Plate	27	73-121-C	1	Grill Assembly
4	335-516-1	1	Nut, Lock 5/16-18	28	410-6-402-AA	6	Pop Rivet
5	79-94-A	1	Knob, 5/16-18	29	365-416	3	Nut - Hex Lock $\frac{1}{4}$ -20
6	945-516	1	Washer, 5/16	30	60-62-A	2	Roll Pin, $\frac{1}{8}$ Dia. x $\frac{3}{4}$
7	79-67-A	1	Spacer	31	73-372-A	1	Spring
8	79-51-A	1	Clamp	32	75-79-A	1	Knob
9	80-316-C	1	Back Plate Weldment	33	75-80-A	2	Shaft, Retainer
10	935-616	5	Washer - Spring Lock $\frac{3}{8}$	34	73-124-b	2	Exhaust, Side Plate
11	65-616-24	4	Bolt - Hex Hd. $\frac{3}{8}$ -16 x 1 $\frac{1}{2}$	35	73-406-A	1	Friction Disc
12	365-516	2	Nut, Hex, 5/16-18	36	73-125-B	2	Exhaust Def. Weld.
13	935-516	2	Washer, Lock 5/16	37	73-127-A	1	Connection Control Rod
14	80-101-A	2	Spacer	38	73-126-A	1	Link, Exhaust Def.
15	80-144-A	2	Guide, Roller	39	65-416-12	4	Bolt, Hex Hd. $\frac{1}{4}$ -20 x $\frac{3}{4}$
16	945-516	2	Washer, 5/16	40	73-79-F	1	Blower Housing
17	65-516-20	2	Bolt, Hex Hd., 5/16-18 x 1 $\frac{1}{4}$	41	365-10	6	Nut, Hex Lock 10-24
19	564-C-516-6	1	Screw Set 5/16-18 x $\frac{3}{8}$	42	945-10	6	Washer, Flat
20	73-118-D	1	Fan	43	515-10-10	6	Screw, Rd. Hd. 10-24 x $\frac{3}{8}$
21	505-416-20	8	Screw - Flat Hd. $\frac{1}{4}$ -20 x 1 $\frac{1}{4}$	44	935-416	1	Lockwasher Spring $\frac{1}{4}$
22	79-129-C	1	Pivot Ring	45	945-416	4	Washer Plain $\frac{1}{4}$
23	73-119-A	1	Retainer, Fan	46A	73-415-A	1	Spacer - Fan B/S Engine
24	936-716	1	Washer, Spring Lock	46B	74-154-A	1	Spacer - Fan Kohler Engine

ON PLATE No. 646 The artwork is incorrect on AF-296 and AF-297 it should be a universal joint in place of where the hook is shown on the Control Rod. ON PLATE NO. 647 the artwork is also incorrect on AF-19.



Handle Assembly:

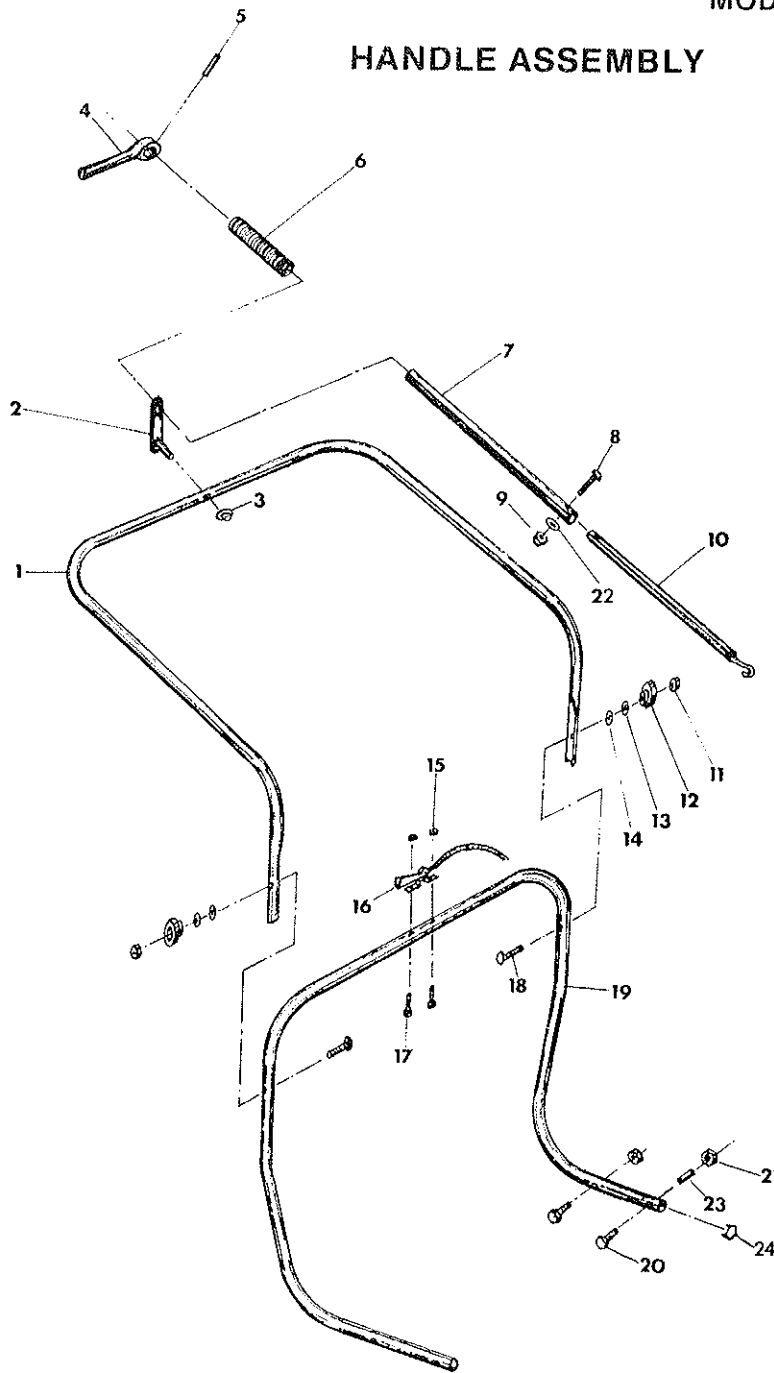
Plate No. 649 Item #10 Part No. 80-334-A should be SA-1003-A.

Blower Assembly:

Plate No. 668 Item #37 Part No. 73-127-A should be 81-65-A
 Universal Joint Add Item #47 Part No. 65-416-10 Bolt Hex. Hd.
 1/4-20-5/8 and add Item #48 Part No. 81-106-A Cotter Hairpin.

To attach Control Rod to Universal Joint, first remove cotter hairpin in Universal Joint and insert lower portion of Control Rod into Universal and reinsert cotter hairpin.

HANDLE ASSEMBLY



AF-299

PARTS LIST

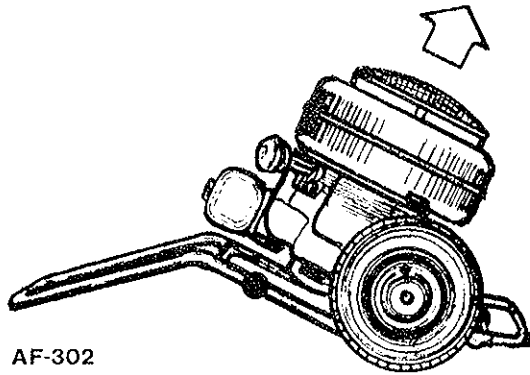
Ref. No.	Part No.	Qty. Per Unit	Description	Ref. No.	Part No.	Qty. Per Unit	Description
1	80-268-C	1	Upper Handle	13	936-516	2	Washer, Lock, Int. Tooth, 5/16
2	80-331-A	1	Hinge Weldment	14	935-516	2	Washer, Lock, Spring, 5/16
3	80-51-A	1	Cup Nut	15	365-8	2	Nut, Hex Lock, 8-32x½
4	76-34-A	1	Lever	16	80-314-A	1	Throttle Control Assembly
5	67-521-A	1	Roll Pin	17	515-8-8	2	Screw, Rd. Hd, Mach. 8-32x½
6	74-135-A	1	Spring	18	70-516-44	2	Carriage Bolt, 5/16-18x2¾
7	76-235-A	1	Control Rod Upper	19	80-220-C	1	Lower Handle
8	69-416-16	1	Bolt, Contour Hd., ¼-20x1	20	65-516-32	4	Bolt, Hex Hd., 5/16-18x2
9	335-416	1	Nut, Hex, ¼	21	365-516	4	Nut, Hex Lock, 5/16-18
10	80-334-A	1	Control Rod Weldment	22	935-416	1	Washer, Lock, ¼
11	365-516	2	Nut, Hex Lock, 5/16-18	23	80-238-A	1	Spacer
12	79-94-A	2	Plastic Knob	24	80-267-A	2	End Cap

INSTRUCTIONS FOR REMOVING OR INSTALLING THE BLOWER HOUSING

CAUTION: Before starting to work on the Engine or the equipment driven by the Engine, always remove the spark plug to prevent accidental starting.

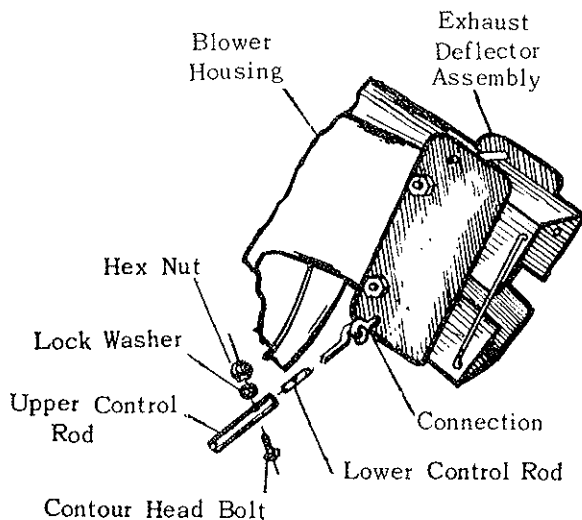
To Remove the Blower Housing:

Push the handle of the Hurricane down until the handle is resting on the ground, then push the blower guard down until it is also resting on the ground.



AF-302

Remove the contour head bolt, hex nut and lock washer, holding the upper and lower control rods together. Unhook the lower control rod from the exhaust deflector assembly.



AF-19

To loosen the top of the blower housing, unscrew the acorn nut and knob and remove the washer, spacer and clamp.

To loosen the bottom of the blower housing, remove the roller guides by unscrewing the nuts on each side. Remove the lock washers and pull out the roller guides bringing the bolts, washers and spacers with them.

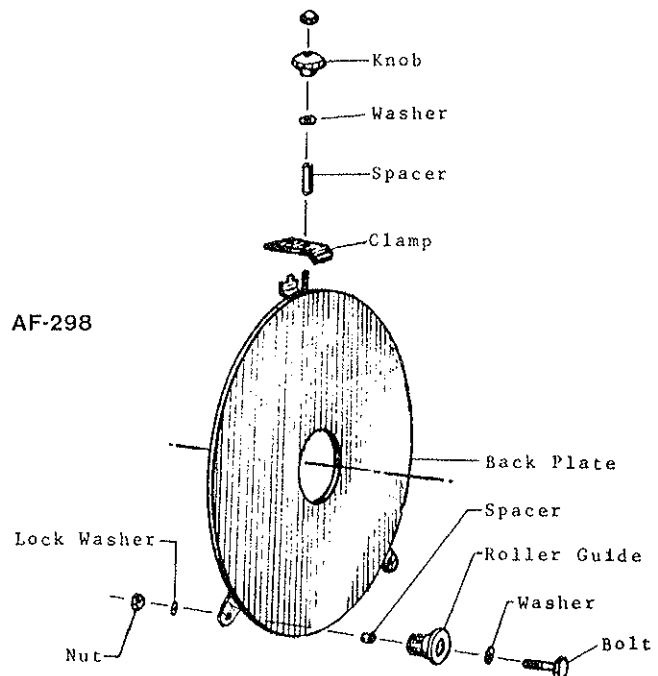
Remove the blower housing by lifting it off the fan.

To Install the Blower Housing:

Place the blower housing over the fan and position the pivot ring against the back plate.

Re-insert the bolts with the roller guides, washers and spacers. Add the washer, screw on the nut, and tighten.

At the top of the housing, replace the clamp, spacer, washer and screw on the knob and acorn nut.

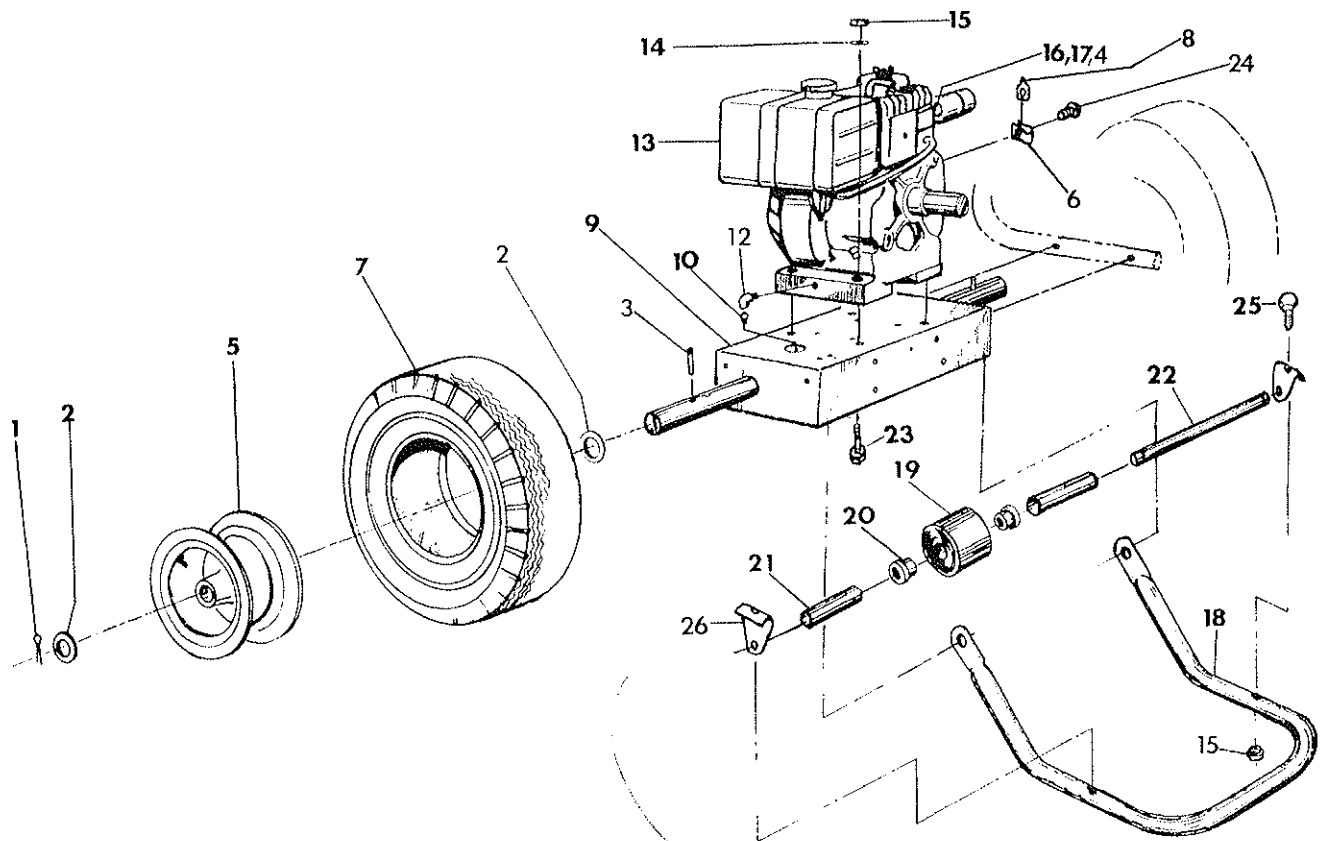


AF-298

CAUTION: Replace the spark plug, but before attaching the ignition wire to the spark plug, pull the recoil starter cord to rotate the fan, to make sure the fan can rotate freely.

Attach the ignition wire to the spark plug and your Hurricane Blower is ready for operation.

CHASSIS AND ENGINE ASSEMBLY

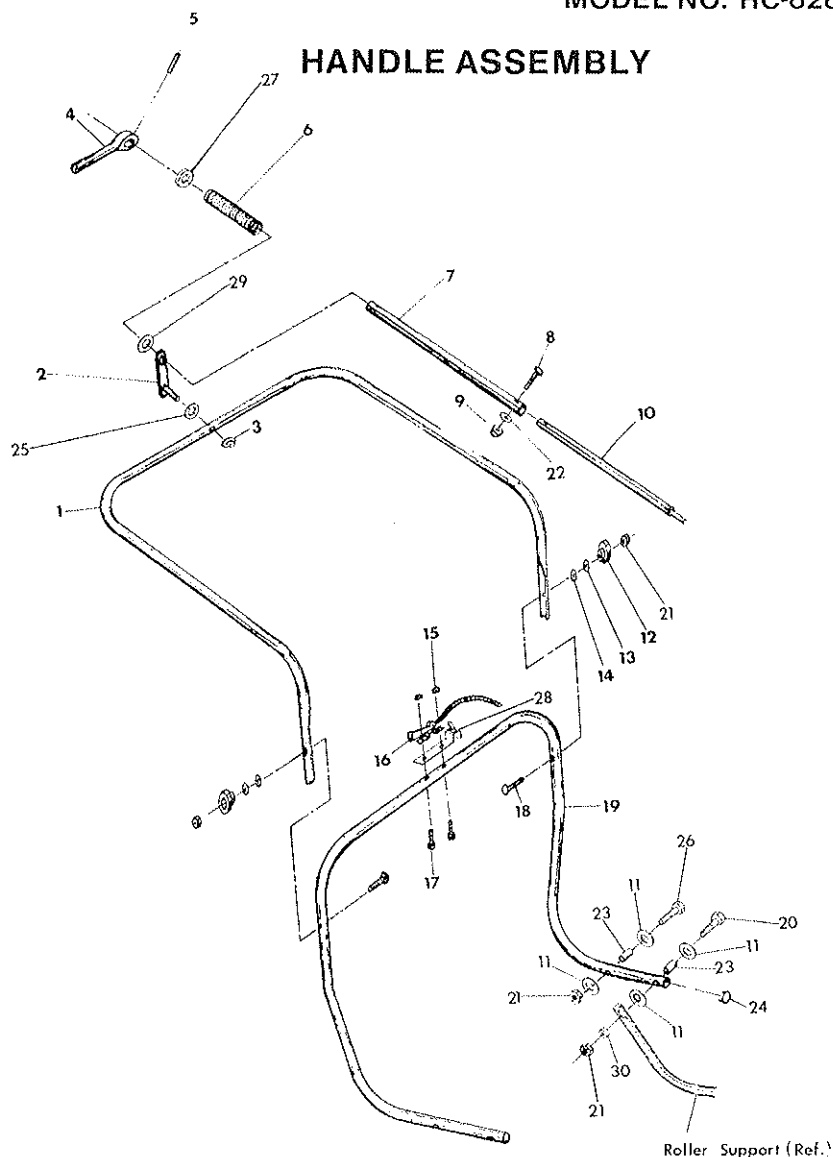


AF-300

PARTS LIST

Ref. No.	Part No.	Qty. Per Unit	Description	Ref. No.	Part No.	Qty. Per Unit	Description
1	380-432-20	2	Cotter Pin, 1/8 Dia x 1 1/4	14	945-516	4	Washer, Flat, 5/16
2	945-1216	4	Washer, Flat	15	365-516	6	Nut, Hex., Lock, 5/16
3	67-521-A	2	Roll Pin	16	69-125-A	1	Elbow, Street, 1x45° (Kohler only)
5	68-447-B	2	Wheel	17	67-68-A	1	Nipple, 1 x 3 (Kohler only)
4	73-240-A	1	Conduit Locknut (Kohler only)	18	80-338-C	1	Roller Support
5	68-447-B	2	Wheel	19	66-346-A	1	Roller
6	75-115-A	1	Throttle Cable Clip (Kohler only)	20	66-432-A OK 1/2 1/4	2	Bearing
7	68-312-A	2	Tire, 5.30x4.50x6	21	80-340-A	2	Spacer
8	66-96-A	1	Speed Nut 10-24, U-Type (Kohler)	22	80-339-A	1	Axle
9	73-360-C	1	Chassis Weldment	23	65-516-24	4	Bolt, Hex Hd., 5/16-18x1 1/2
10		1	Plug, Pipe (Supplied with engine)	24	515-10-8	1	Screw 10x24-1/2 Rd. Hd. (Kohler only)
12	57-81-A	1	Elbow (Supplied with Kohler engine)	25	65-516-24	2	Bolt, Hex Hd., 5/16-18x1 1/2
13	81-187-D	1	Engine, Tecumseh	26	81-02-A	2	Bracket
13	73-102-A	1	Engine, B & S				

"OBSERVE SAFETY AT ALL TIMES"

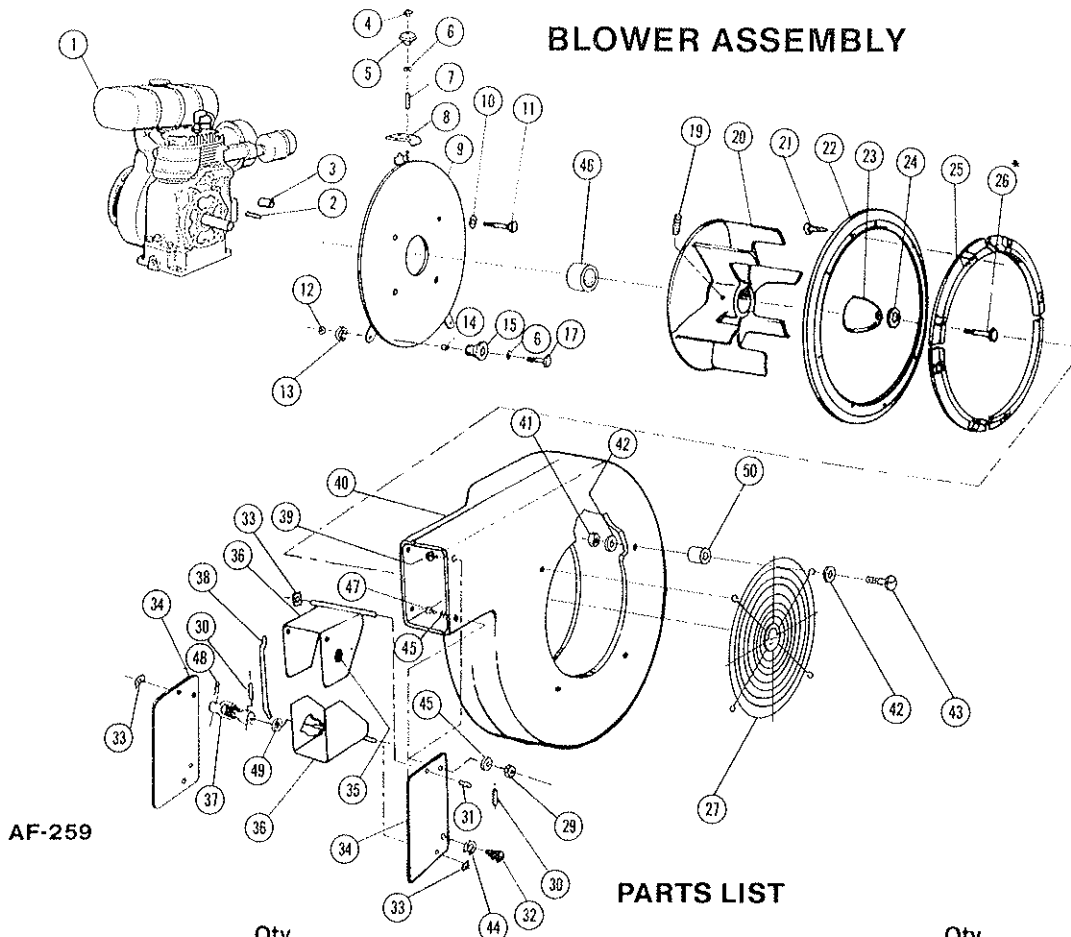


AF-299

PARTS LIST

Ref. No.	Part No.	Qty. Per Unit	Description	Ref. No.	Part No.	Qty. Per Unit	Description
1	80-269- C	1	Upper Handle	16	80-314-A	1	Throttle Control Assembly (Kohler and B & S) 83-25-B-20
2	80-331-A	1	Hinge Weldment	17	517-10-20	2	Screw Oval Hd. 10-24x1¼ (Kohler and B & S)
3	80-51-A	1	Cup Nut	18	81-94-A	2	Carriage Bolt, 5/16-18x2¾
4	76-34-A	1	Lever	19	80-220-C	1	Lower Handle (Kohler and B & S)
5	67-521-A	1	Roll Pin	19	81-75-C	1	Lower Handle (Tecumseh only)
6	74-135-A	1	Spring	20	65-516-32	2	Bolt, Hex. Hd., 5/16-18x2
7	76-235-A	1	Control Rod Upper	21	365-516	6	Nut, Hex Lock, 5/16-18
8	69-416-16	1	Bolt, Contour Hd., 1/4-20x1	22	935-416	1	Washer, Lock 1/4
9	335-416	1	Nut, Hex., 1/4-20	23	80-238-A	1	Spacer
10	SA-1003-A	1	Control Rod Assembly	24	80-267-A	2	Plastic Tube Cap
11	945-516	8	Flatwasher	25	945-616	1	Washer, Flat 3/8
12	79-94-A	1	Knob	26	65-516-28	2	Bolt, Hex Hd., 5/16-18-1¾
13	936-516	2	Washer, Lock, Int. Tooth, 5/16	27	55-161-A	1	Special Washer
14	935-516	2	Washer, Lock, Spring 5/16	28	SA-961-B	1	Stop Switch Assembly (Kohler only)
15	365-10	2	Nut, Hex Lock, 10-24 (Kohler and B & S)	29	81-164-A	1	Bushing
				30	74-126-A	2	Spacer

BLOWER ASSEMBLY



PARTS LIST

Ref. No.	Part No.	Qty. Per Unit	Description	Ref. No.	Part No.	Qty. Per Unit	Description
1		1	Engine	27	82-121-C	1	Grill Assembly
2	63-130-A	1	Fan Key 1/4x1 3/4	28	410-6-402	6	Pop Rivet
3	79-139-A	4	Spacer - Back Plate	29	365-416	3	Nut - Hex Lock 1/4-20
4	335-516-1	1	Nut, Lock 5/16-18 Stamped	30	60-62-A	2	Roll Pin, 1/8 Dia.x3/4
5	79-94-A	1	Knob, 5/16-18	31	73-372-A	1	Spring
6	945-516	3	Washer, 5/16	32	75-79-A	1	Knob
7	79-67-A	1	Spacer	33	75-80-A	2	Shaft, Retainer
8	79-51-A	1	Clamp	34	73-124-B	2	Exhaust, Side Plate
9	80-316-C	1	Back Plate Weldment	35	73-406-A	1	Friction Disc
10	935-616	4	Washer - Spring Lock 3/8	36	73-125-B	2	Exhaust Deft. Weld.
11	65-616-24	4	Bolt - Hex. Hd. 3/8-16x1 1/2	37	81-65-A	1	Universal Joint <i>82-251-A</i>
12	335-516	2	Nut, Hex. 5/16-18	38	73-126-A	1	Link, Exhaust Def.
13	935-516	2	Washer, Lock 5/16	39	65-416-12	4	Bolt, Hex, Hd. 1/4-20x3/4
14	80-101-A	2	Bushing	40	82-118-D	1	Blower Housing
15	80-144-A	2	Guide, Roller	41	364-416	4	Nut, Hex 1/4-20
17	65-516-20	2	Bolt, Hex Hd., 5/16-18x1 1/4	42	945-416	8	Washer, Flat
19	564-C-516-6	1	Set Screw 5/16-18x3/8	43	515-416-24	4	Screw, Rd. Hd. 1/4-20x1 1/2
20	73-118-D	1	Fan	44	935-416	1	Lockwasher Spring 1/4
21	505-416-20	8	Screw - Flat Hd. 1/4-20x1 1/4	45	945-416	4	Washer Plain 1/4
22	79-129-C	1	Pivot Ring	46	73-415-A	1	Spacer - Fan, Tecumseh & B&S
23	73-119-A-3	1	Retainer, Fan <i>82-139-B-3</i> <i>60-716-16</i>	46	74-154-A	1	Spacer - Fan, Kohler Engine
24	936-716	1	Lockwasher, Int. Tooth 7/16	47	65-416-10	1	Bolt Hex. Hd. 1/4-20-5/8
25	73-123-C	4	Anti-Wrap	48	81-106-C	1	Cotter Hairpin
*26	60-716-40	1	Bolt - Fan, 7/16-20x2 1/2	49	81-71-A	1	Sleeve
*26	60-616-40	1	Bolt - Fan, 3/8-24x2 1/2 (Tecumseh)	50	82-142-A	4	Spacer, Grille

*3/8 Bolt Torque to 29 to 33 ft. lbs.

*7/16 Bolt Torque to 55 to 59 ft. lbs.

10

11

12