



Electronic Service Manuals

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Web site: www.Michco.Com

Parts Web site: www.FloorMachineParts.Com

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By Email: **Shop@Michco.com**

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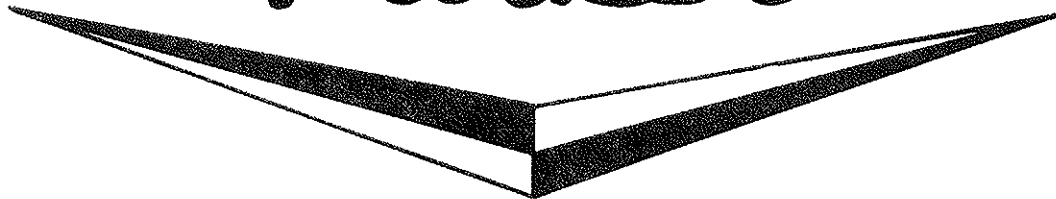
Serving the Cleaning Industry Since 1922

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OWNER'S GUIDE



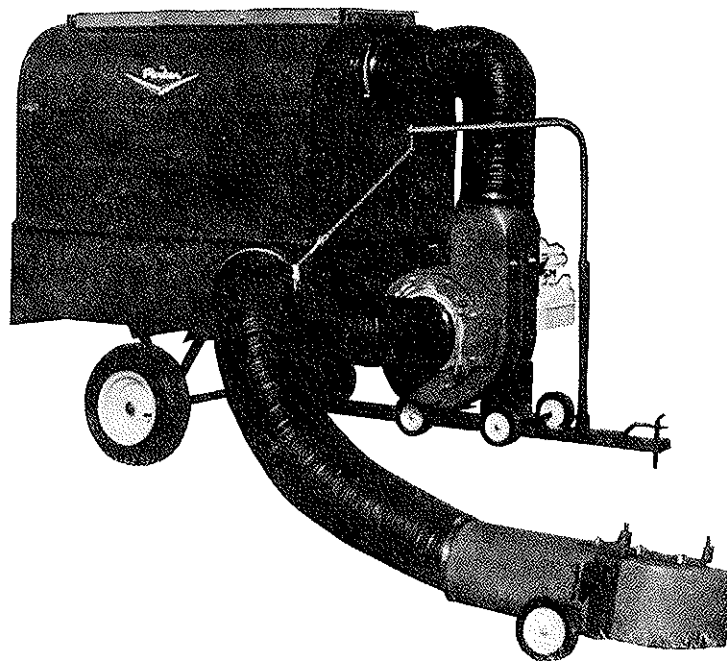
Parker®



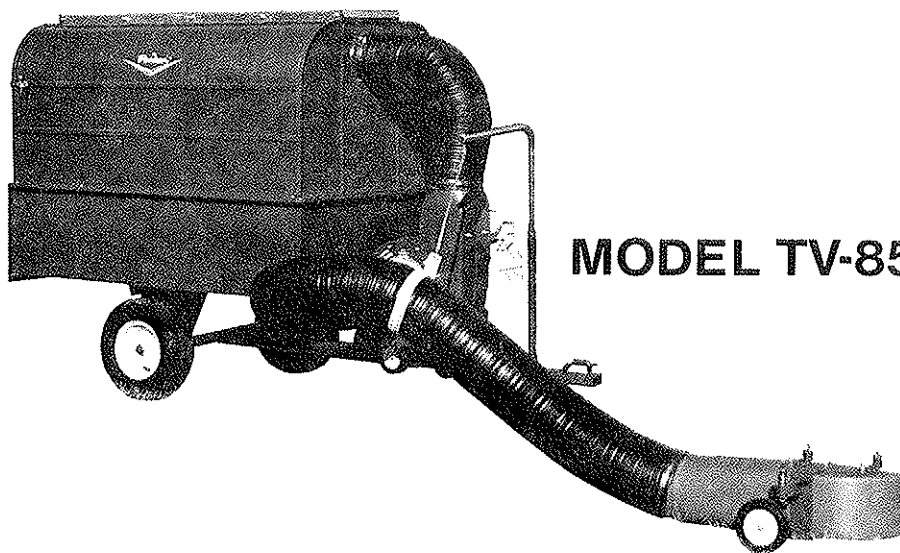
CONESTOGA™ TRAIL VAC

PATENT PENDING

MODEL TV-8528



MODEL TV-8544



PARKER SWEEPER COMPANY

Box 1728

Springfield, Ohio 45501-1728

Plate No. 1064

TO THE OWNER

These instructions were written to assist you in the assembly and operation of the Conestoga Trail Vac. **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. Do not allow anyone to operate the Conestoga Trail Vac without proper instructions.
2. Stop the towing unit engine before reaching into the boot or mower deck to dislodge sticks or other debris.
3. Stop the engine before attempting to make any adjustment or performing any maintenance work on the Conestoga Trail Vac.
4. When working on the engine, always remove the spark plug wire from the engine and attach it to the V shaped clip on the engine head.
5. Do not run the engine in an enclosed area. Exhaust gases contain carbon monoxide, an odorless and deadly poison.
6. Do not fill the fuel tank while the engine is running. Spilling gasoline on a hot engine may cause a fire or an explosion.
7. While machine is running, do not leave it unattended.
8. Before using the machine to pick up debris, police the area to be cleaned first, picking up any large objects such as cans, toys, dog bones and chunks of wood. If these pass through the machine, they could damage the impeller, bend the engine crankshaft or put a hole in the hose.
9. Avoid using the machine in dangerous places where steep slopes or loose debris will endanger the safety of the operator or other people.
10. Keep all nuts, bolts and screws tight to be sure the Conestoga Trail Vac is in safe working condition.
11. Do not start or run engine unless hose is properly secured as injury may result.
12. Empty contents from cart and containers promptly. To not do so could cause spontaneous combustion.

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 Conestoga Trail Vac |
| | 5. Serial No. if available |

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.

OBSERVE ALL SAFETY RULES. YOUR INJURIES MAYBE THE ONES YOU PREVENT.

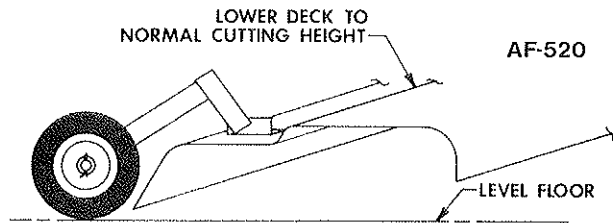
ASSEMBLY INSTRUCTIONS

INSTRUCTIONS FOR PREPARING AND ATTACHING BOOT TO MOWER DECK

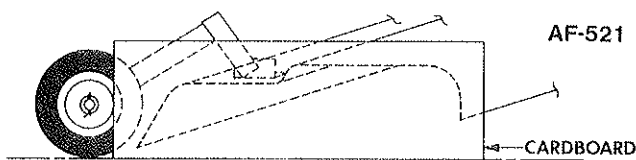
These instructions are designed to be used for right hand mower discharge **only**. A Boot Conversion Kit, MA-575-B is available for left hand mower discharge applications. This kit includes instructions for boot modification, engine mounting, and hose attachment.

NOTE: Remove the discharge extension or shield from the mower deck.

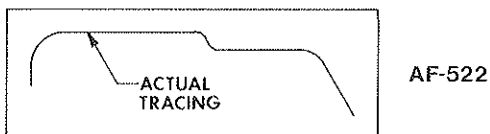
1. Lower mowing deck (on a level floor) to the normal cutting height.



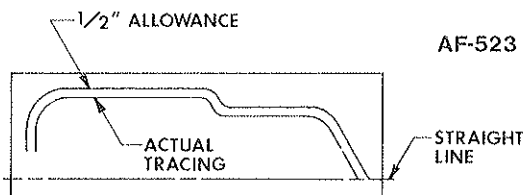
2. Make a template from a flap of the shipping carton. Place the straight edge on the floor so that the cardboard fully covers the discharge area of the mowing deck.



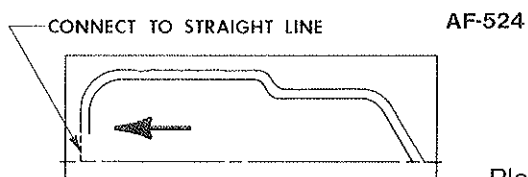
3. Trace the metal outline of the deck on the cardboard.



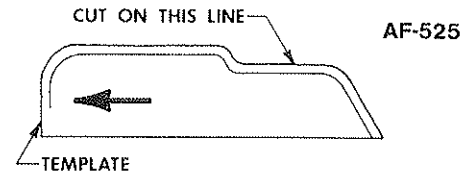
4. The opening in the boot should be approximately 1/2" larger than the deck to allow for proper fit and operation. To accomplish this, retrace the outline 1/2" larger on the cardboard. Draw a line parallel to the bottom straight edge of the cardboard from the lowest point of the deck.



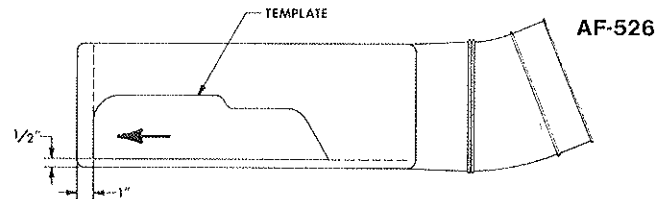
5. Connect the front outline of the deck to the straight line. Place an arrow on the template indicating the front of the deck.



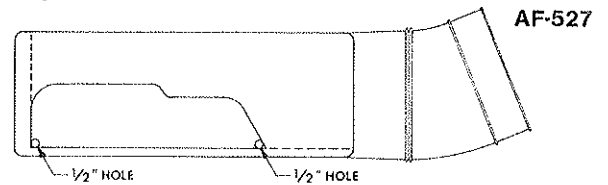
6. Cut out template with a sharp knife.



7. Place the template on the boot, adjusting it so that the template is approximately 1" back from the front edge and 1/2" from the bottom edge. With a black marking pen trace the outline on the boot. Before proceeding further, hold boot against deck opening to be sure that the opening corresponds.

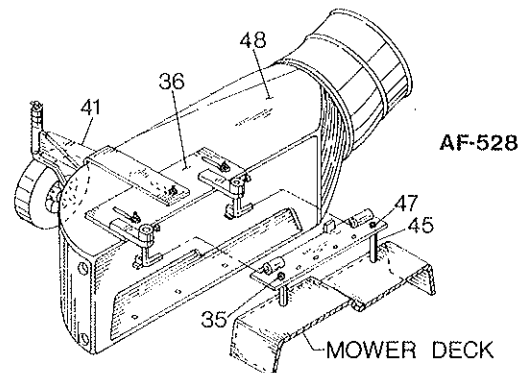


8. If everything is in order, drill a 1/2" hole tangentially at each bottom corner.



9. Use a saber saw with a medium cut blade 1/2" wide to cut the outline of the template from the boot. **NOTE:** This will cause each corner to have a 1/4" radius.

10. Use a file to remove the rough edges.



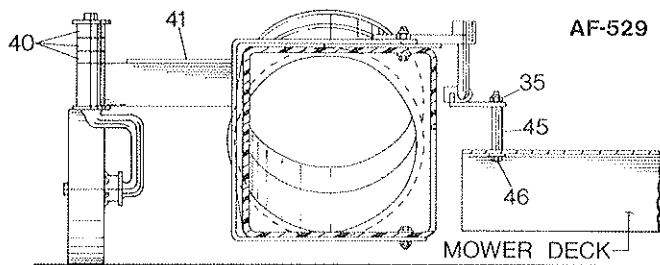
11. Attach hinge assembly (36) by the two outside holes to top of boot (48) using hex head bolts, flatwashers against inside of boot and flatwashers and lock nuts on top of hinge assembly. Do not assemble a bolt in the middle of the hinge assembly.

12. Slide caster wheel assembly (41) over boot and hinge assembly. Secure top and bottom with hardware provided.

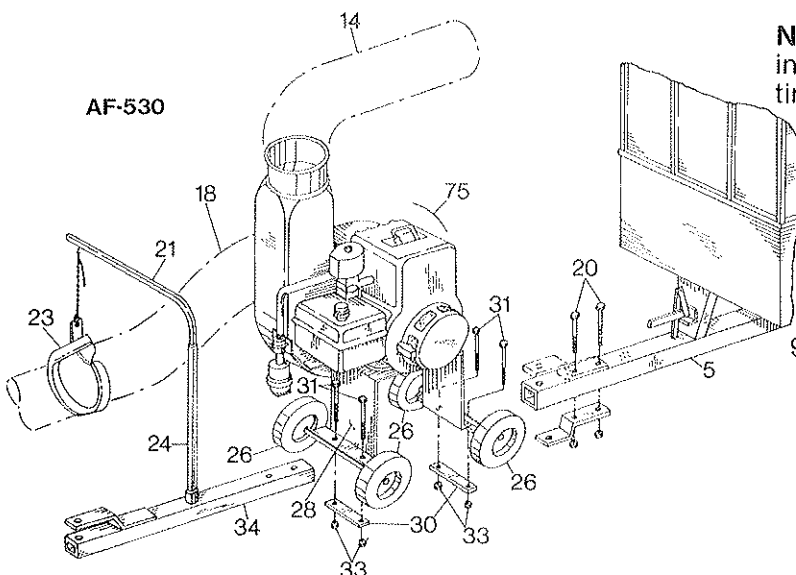
NOTE: Hinge assembly (36) should be moved as close to the boot as possible before tightening hardware.

ASSEMBLY INSTRUCTIONS (Continued)

13. Attach deck plate assembly (47) to Hinge Assembly (36).
14. Remove nuts, bolts and spacers from deck plate assembly (47).
15. Position boot (48) flush with end of mower discharge opening and mark location of outside deck plate bolt holes and drill two 5/16 diameter holes thru mower deck.
16. Mount hinge assembly on the top of the mower deck keeping the boot opening concentric with the deck opening. Cut off spacers (45) to fit between hinge assembly (47) and mower deck to keep boot level. This may require spacer (45) to be cut at an angle to match deck contour.
17. Attach hinge assembly to mower deck using full thread hex head bolts (46), spacers (45), and hex lock nuts (35) provided.
18. Excess bolt length should be cut off with hacksaw to permit minimum of two full threads and maximum of 1/4" to protrude thru hex lock nut.
19. Boot can now be adjusted up and down and in and out. For best performance, boot should be positioned 1" to 1 1/2" from end of deck. Adjust caster wheel by positioning spacers (40) to proper height so that bottom edge of boot is parallel to the ground as shown below.



20. Inspect all hardware of boot-to-deck attachment to assure they have been tightened securely.

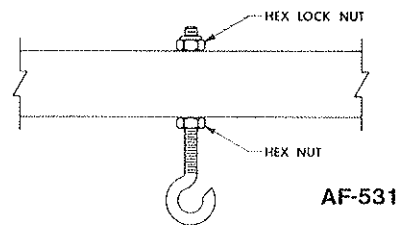


POWER PACKAGE ASSEMBLY

1. Attach engine and blower housing assembly (75) to tongue (5) and towbar extension (34) using two mounting plates (30) and four hex head bolts (31) and nuts (33).
2. Attach muffler to engine making sure that lock nut is drawn tight. Secure with "U"-bolt. Remove oil drain plug from engine inserting pipe drain in its place.
3. Install four wheels (26) on axles of engine base (28) using washers and push-on retainer caps.
4. Insert Arm Stand (24) in towbar extension (34).
5. Insert Arm (21) in Arm Stand (24).

FINAL ASSEMBLY

1. Remove the two bolts securing the clevis (for towing) from the cart towbar.
2. Slide rear of towbar extension (34) into the end of the tongue of the cart.
3. Attach towbar (34) to the tongue (5) with bolts (20) having the clevis on the underside of the tongue.
4. Attach the collar end (smooth end) of short hose (14) to canopy assembly and secure with clamp (13). Attach other end to blower housing with clamp (19).
5. Attach long hose (18) to front of blower housing and to the boot assembly. Secure both ends with clamps (30).
6. Attach eyebolt (53) to Arm (21) using hex nuts.



7. Extend the Arm to a position that prevents the hose from rubbing the rear tire.
 8. Place sling (23) around hose, and attach to eyebolt with "S" hook and chain.
- NOTE:** Hose height may be adjusted by lengthening or shortening the chain to prevent dragging or tire interference.

9. If, after use, hose is excessively long, it may be shortened as necessary using bolt cutters or hacksaw. **DO NOT CUT TOO SHORT!** To determine correct length of boot hose, park the tractor with the Trail Vac in a full left hand turn. Hose should not be stretched tightly. If hose is too long when placed in this mode, then hose should be cut off.

CANOPY ASSEMBLY TV-8528

YOUR SAFETY IS OUR CONCERN. READ ALL SAFETY RULES AND OPERATING INSTRUCTIONS BEFORE ATTEMPTING TO OPERATE THIS EQUIPMENT. FAILURE TO FOLLOW SAFETY RULES AND OPERATING INSTRUCTIONS MAY RESULT IN SERIOUS INJURY.

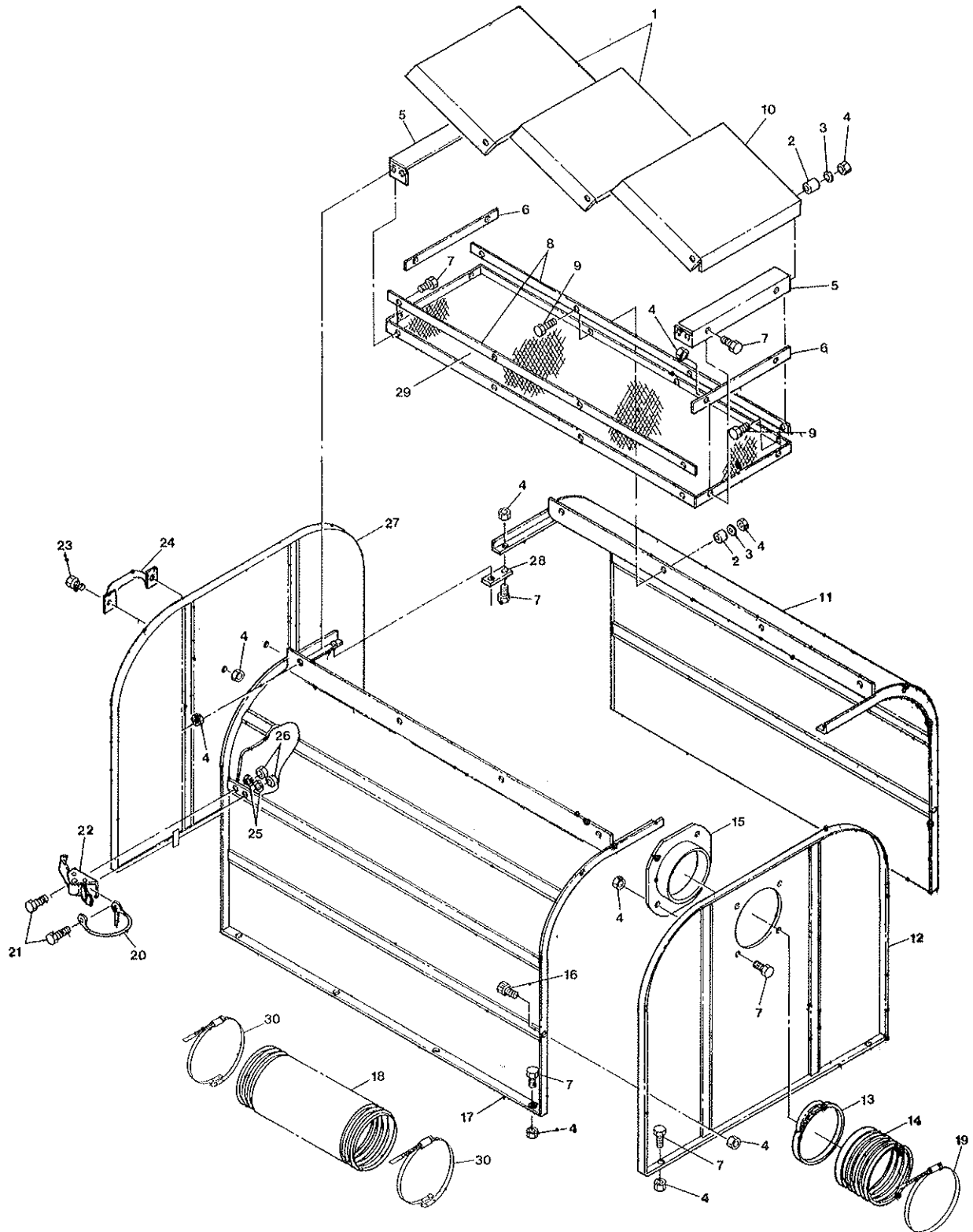
NOTE: When first assembling, all bolts should be installed finger tight. Final tightening instructions will follow.

1. Start assembly by setting left canopy (11) and right canopy (17) upright on the floor and secure together at the top with Link (28), two Hex Head Bolts (7) and two Hex Lock Nuts (4) at both ends. **NOTE:** From this point on, front and rear of the canopy are determined by the two holes on each side (1 and 2) on the rib near the end of the canopy. This end is the **rear** of the canopy. The opposite end is the **front**.
2. Install Screen Assembly (29) to canopy (11-17) using two Retaining Strips (8), four Hex Head Bolts (9), and four Hex Lock Nuts (4). Omit spacers (2) and flatwashers (3) at this time. Do not install four end bolts at this time.
3. Install two end caps (5) between canopy (11-17) and screen (29) with two retaining strips (6) on the inside. End caps should be flush with ends of canopy.
4. Secure rear end cap (5) with two Hex Head Bolts (7) and two Hex Lock Nuts (4).
5. Secure front end cap (5) with two Hex Head Bolts (9) and two Hex Lock Nuts (4). Omit spacer (2) and flatwasher (3) at this time.
6. Install retainer strips (6) front and rear using four Hex Head Bolts (7) and four Hex Lock Nuts (4).
7. Assemble hose adaptor (15) to canopy front assembly (12) using four Hex Head Bolts (7) and four Hex Lock Nuts (4).
8. Install canopy front assembly (12) to canopy (11-17) using four socket head cap screws (16) and four hex lock nuts (4). **NOTE:** Screw (16) head must be next to canopy with nut (4) against front.
9. Attach louvers (1) to Hex Head Bolts installed in paragraph 2. by removing Hex Lock Nuts (4). Slide louver holes over bolts and add spacer (2) and flatwasher (3). Secure with Hex Lock Nut (4).
10. Attach front louver (10) to Hex Head Bolts installed in paragraph 5 by removing Hex Lock Nuts (4). Slide louver holes over bolts and add spacer (2) and flatwasher (3). Secure with Hex Lock Nut (4).
11. Install two latches (22) to rear sides of canopy (17-11) using 4 round head screws (21), four split lock washers (25) and four Hex nuts (26). **NOTE:** Wire ring on lock assembly (20) must be secured under the screw head toward the front of the canopy.
12. Beginning with paragraph one, tighten all bolts and nuts and inspect to assure all assembly procedures are complete to this point.
13. With an able-bodied person to assist, lift the completed canopy onto the top sides of the cart. **NOTE:** Carefully align bottom flange of canopy and sides of cart.
14. Secure aligned canopy to cart with C-clamps or vise grips in at least four places.
15. **NOTE:** Canopy must be centered on side rails of cart body to assure cart rear gate can be removed.
CAUTION: The Canopy must be flush at the back, with the front of the Cart Rear Gate, to allow the Canopy Tail Gate (27) Tab to fit behind the Cart Rear Gate when the Canopy Tail Gate (27) is latched in place.
Drill 10 mounting holes in side rails of cart using 9/32 diameter drill thru holes in bottom flange of canopy.
16. Attach canopy to cart using ten Hex Head Bolts (7) and ten Hex Lock Nuts (4).
17. Place bottom of canopy tailgate on top of cart rear gate and against canopy, with tabs of canopy tailgate behind cart rear gate. Secure with latches on both sides of canopy.
18. Slide cotter pins attached to latches thru holes provided in latches to assure latches remain secured.

MAINTENANCE

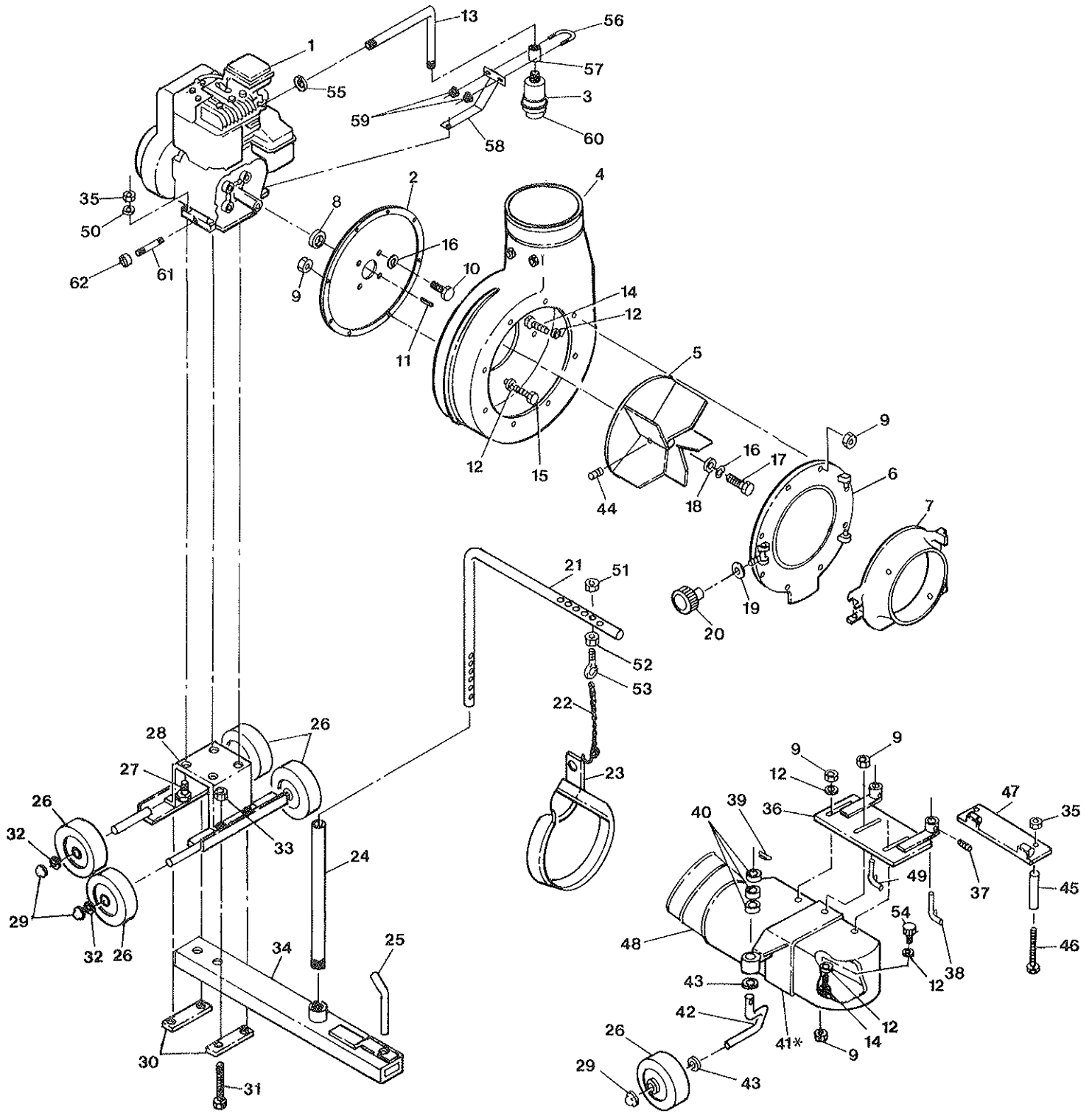
1. **NOTE:** Periodic inspection of the Canopy should be made and all bolts should be routinely tightened to assure the Canopy remains structurally sound.
2. For a "like new" appearance, wash the Canopy and Blower Housing with soap and water, rinse with clear water and wipe dry. Do not use harsh abrasives or cleaners as they will dull the finish.

CANOPY PACKAGE



AF-516

POWER PACKAGE



AF-532

*NOTE: Boot Wheel Assembly (41) mounts in center holes over Boot Plate Weldment (36).

POWER PACKAGE PARTS LIST

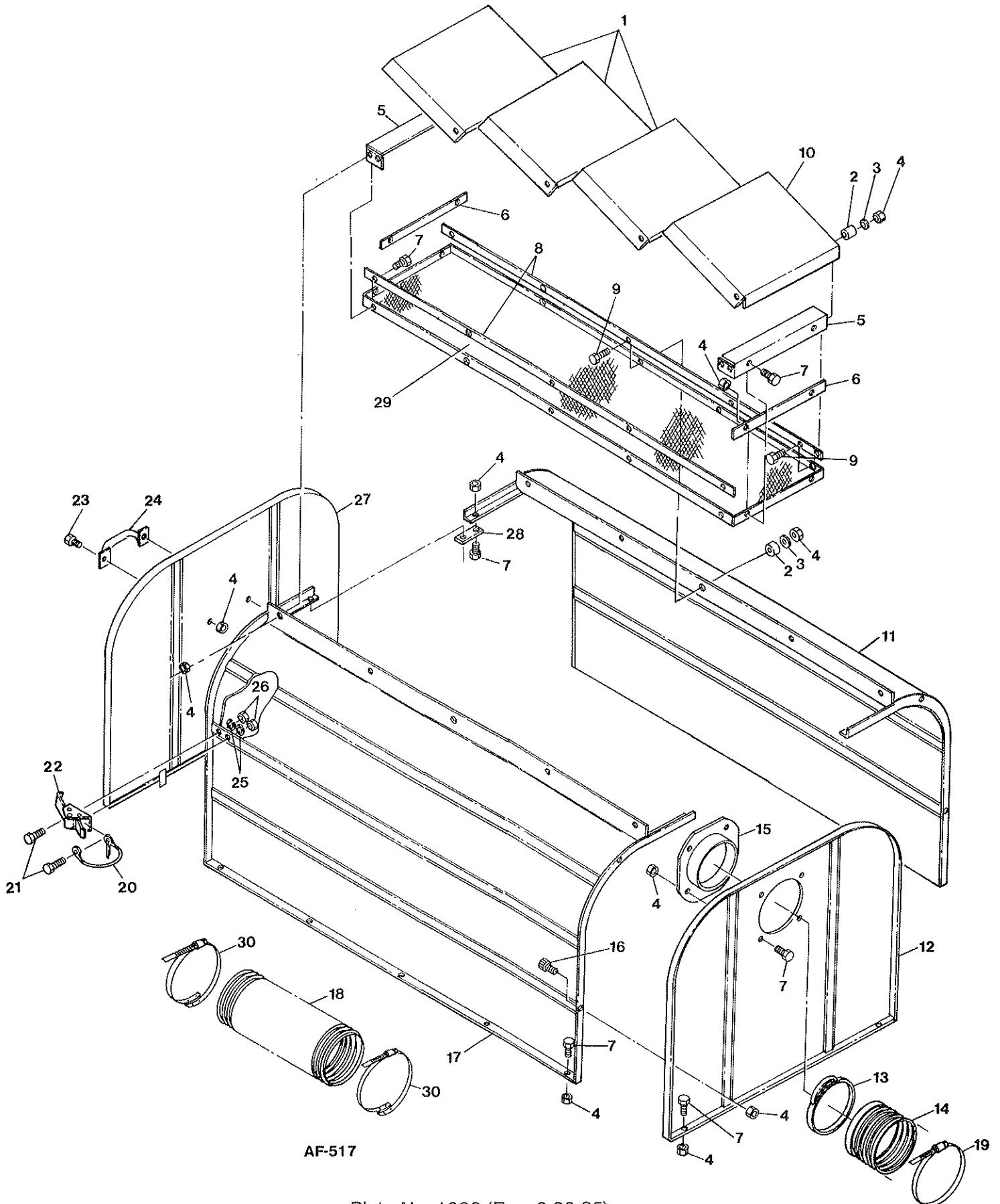
Ref. No.	Part No.	Qty. Per Unit	Description
1	85-03-D***	1	Engine
2	84-239-C	1	Back Cover & Gasket
3	****	1	Muffler (supplied with engine)
4	SA-1304-C	1	Blower Housing & Liner Assy.
5	61-14-E	1	Fan Wheel
6	SA-1336-D	1	Front Cover Assembly
7	63-195-D	1	Collar
8	73-20-A	1	Spacer
9	365-416	20	Nut Hex Lock 1/4-20
10	60-516-10	4	Bolt Hex Head 5/16-24 x 5/8
11	61-65-A	1	Key, Engine
12	945-416	22	Flatwasher Plain 1/4
13	85-24-B	1	Muffler Pipe
14	65-416-16	11	Bolt Hex Head 1/4-20 x 1
15	65-416-14	8	Bolt Hex Head 1/4-20 x 7/8
16	935-516	5	Lockwasher Spring 5/16
17	60-516-20	1	Bolt Hex Head 5/16-24 x 1 1/4
18	82-138-B-1	1	Special Washer
19	945-816*	1	Flatwasher Plain 1/2
20	80-29-A*	1	Adjusting Knob
21	84-343-C	1	Arm
22	84-253-A	1	Chain Assembly
23	84-251-B	1	Sling
24	84-295-A	1	Arm Stand
25	84-228-B	2	Hitch Pin
26	83-177-C	5	Wheel
27	65-516-28	4	Bolt Hex Head 5/16-18 x 1 3/4
28	84-324-C	1	Engine Base Weldment
29	76-254-A	5	Cap-End
30	84-320-A	2	Mounting Plate
31	65-616-48	4	Bolt Hex Head 3/8-16 x 3
32	46-81-A	4	Washer Special
33	365-616	4	Nut Hex Lock 3/8-16
34	84-357-C	1	Towbar Extension Weldment
35	365-516	6	Nut Hex Lock 5/16-18
36	84-115-C	1	Boot Plate Weldment
37	560-C-516-10	2	Screw Sq. Head Set 5/16-18 x 5/8
38	84-109-A	1	Hinge Front Weldment
39	81-106-A	1	Cotter Hair Pin
40	79-16-A	3	Spacer
41	84-275-B	1	Wheel Support Weldment
42	83-209-B	1	Axle
43	945-816	2	Flatwasher, Plain 1/2
44	564-C-516-16	1	Screw Allen Head Set 5/16-18 x 1
45	84-135-A	2	Spacer
46	72-516-72	2	Bolt Hex Head 5/16-18 x 4 1/2
47	84-233-B	1	Plate Deck Weldment
48	84-131-D	1	Boot
49	84-107-A	1	Hinge Rear Weldment
50	945-516	4	Flatwasher Plain 5/16
51	365-10	1	Nut Hex Lock 10-24
52	335-10	1	Nut Hex Plain 10-24
53	84-197-A	1	Eye Bolt
54	65-416-12	1	Bolt Hex Head 1/2-20 x 3/4
55	63-262-A	1	Conduit Locknut 3/4
56	73-238-A	1	"U" Bolt 1/4-20
57	66-231-A	1	Coupling 3/4 x 1 5/8
58	85-27-B	1	Bracket Weldment
59	362-416	2	Nut, Hex Lock Serrated Flange 1/4-20
60	****	1	Side Out Deflector (supplied with engine)
61	85-28-A	1	Nipple 1/4 x 1 1/2
62	85-29-A	1	1/4 Cap

*Supplied with item 6, but can be purchased separately.

***B & S Model No. 130212, Spec. 2141-01

****Supplied with engine, Muffler No. 393010, Deflector No. 222261

CANOPY PACKAGE



AF-517

CANOPY PACKAGE

PARTS LIST

Ref. No.	Part No.	Qty. Per Unit	Description
1	84-333-C	2	Louver
2	81-45-A	6	Spacer
3	960-416	6	Flatwasher, Plain (Thick) 1/4
4	365-416	36	Nut, Hex Lock 1/4-20
5	84-367-C	2	End Cap
6	84-84-B	2	Retainer Strip
7	65-416-12	24	Bolt, Hex Hd. 1/4-20 x 3/4'
8	84-82-B	2	Retainer Strip
9	65-416-16	6	Bolt, Hex Hd. 1/4-20 x 1
10	84-334-C	1	Front Louver
11	84-216-C	1	Canopy Side Silkscreen L.H. - (1 left)
12	84-91-C	1	Canopy Front Weldment
13	84-373-C	1	Clamp, Quick Release
14	84-345-B	1	8" Dia. Hose (Canopy)
15	84-96-D	1	Hose Adapter
16	524-416-12	4	Screw, Socket Hd. Cap 1/4-20 x 3/4
17	84-215-C	1	Canopy Side Silkscreen R.H.
18	84-130-B	1	8" Dia. Hose (Boot)
19	84-152-C	1	Clamp
20	SA-1302-A	2	Lock Assembly
21	515-416-10	4	Screw, Rd. Hd. Mach. 1/4-20 x 5/8
22	84-245-A	2	Latch
23	65-416-10	2	Bolt, Hex Hd. 1/4-20 x 5/8
24	84-296-B	1	Handle
25	935-416	4	Lockwasher, Spring 1/4
26	335-416	4	Nut, Plain Hex 1/4-20
27	84-117-C	1	Tailgate Silkscreen
28	84-88-A	2	Link
29	84-127-C	1	Screen Assembly
30	84-389-C	2	Hose Clamp (w/step)

NOTE: Canopy Package also includes parts for the Power Package.
These parts are:

84-343-C	1	Arm
84-197-A	1	Eye Bolt
335-10	1	Nut, Hex Plain 10-24
365-10	1	Nut, Hex Lock 10-24