



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:

www.FloorMachineParts.Com

Directly to Parts & Service:

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

By Fax: (517) 702-2041

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Serving the Cleaning Industry Since 1922

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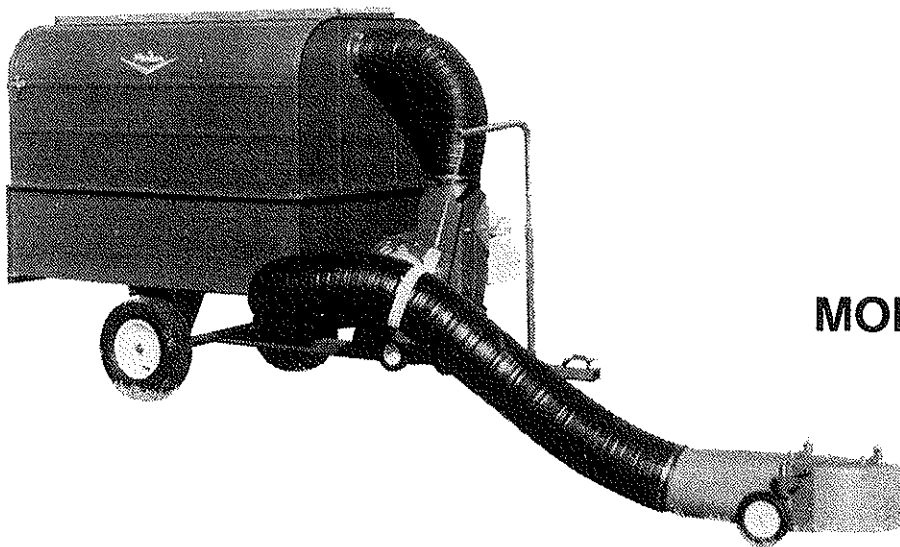
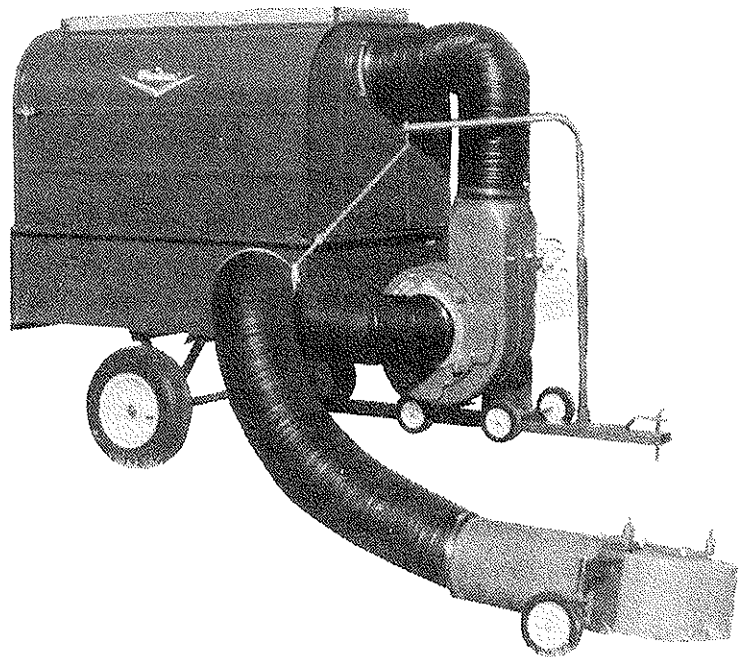
OWNER'S GUIDE



CONESTOGA™ TRAIL VAC

PATENT PENDING

MODEL TV-8828



MODEL TV-8844

PARKER SWEEPER COMPANY

Box 1728

Springfield, Ohio 45501-1728

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

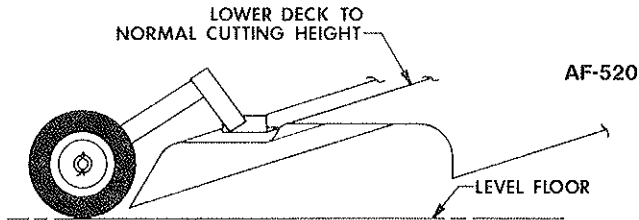
These instructions are designed to be used for right hand mower discharge **only**. A Boot Conversion Kit, MA-575-B is available for left hand mower discharge applications. This kit includes instructions for boot modification, engine mounting, and hose attachment.

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

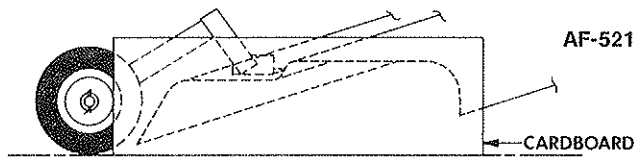
CAUTION

If it is desired to mow with the Trail Vac removed, the discharge extension or shield must be replaced on the mower deck. Never operate the mower without the Trail Vac boot or original equipment in place.

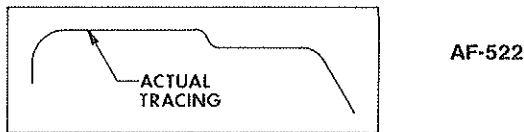
1. Lower mowing deck (on a level floor) to the normal cutting height.



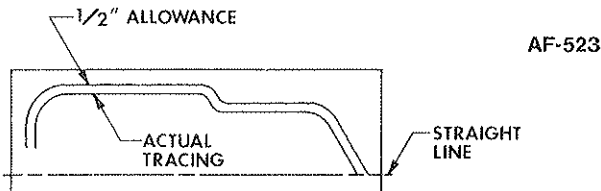
2. Make a template from a flap of the shipping carton. Place the straight edge on the floor so that the cardboard fully covers the discharge area of the mowing deck.



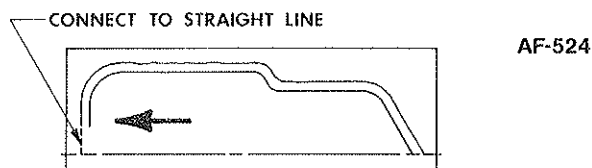
3. Trace the metal outline of the deck on the cardboard.



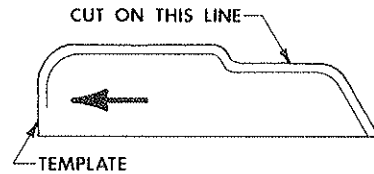
4. The opening in the boot should be approximately 1/2" larger than the deck to allow for proper fit and operation. To accomplish this, retrace the outline 1/2" larger on the cardboard. Draw a line parallel to the bottom straight edge of the cardboard from the lowest point of the deck.



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

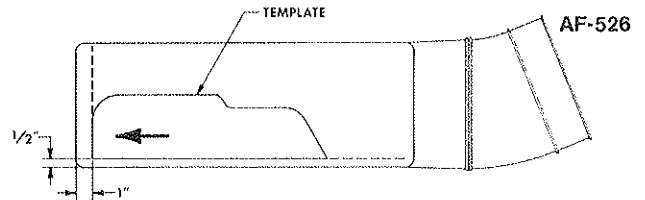


6. Cut out template with a sharp knife.

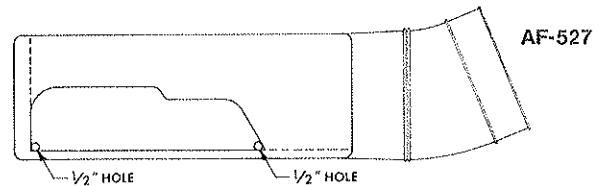


AF-525

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.

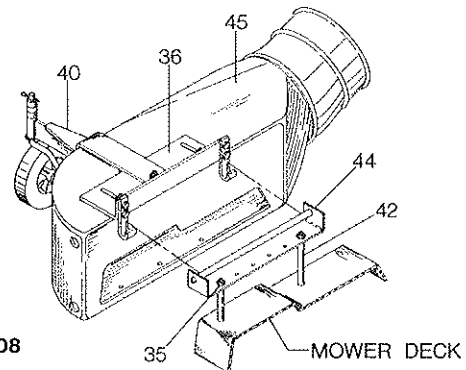


8. If everything is in order, drill a 1/2" hole tangentially at each bottom corner.



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 Boot Plate (36) by the two outside holes to top of Boot (45) using the Hex Hd. Bolts and Flatwashers against inside of Boot and Flatwashers and Lock Nuts on top of Boot Plate (36). Do not assemble Bolt to middle hole at this point.

12. Slide Boot Wheel Assembly (40) over Boot and Boot Plate. Secure top and bottom with hardware provided.

NOTE: Boot Plate (36) should be moved as close to the Boot as possible before tightening hardware.

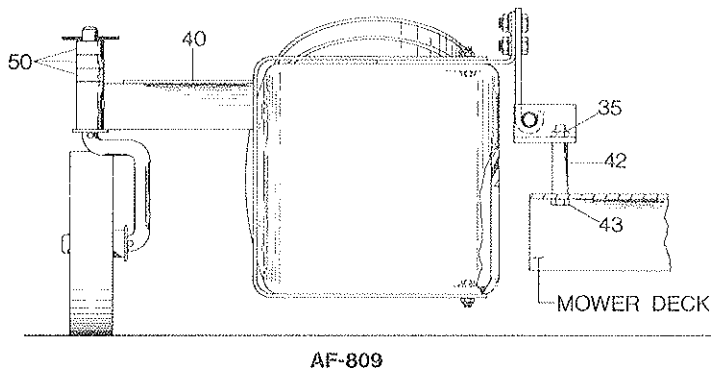
13. Attach Hinge Weldment (44) to Boot Plate (36).

14. Remove Nuts (35), Bolts (43) and Spacers (42) from Hinge Weldment (44).

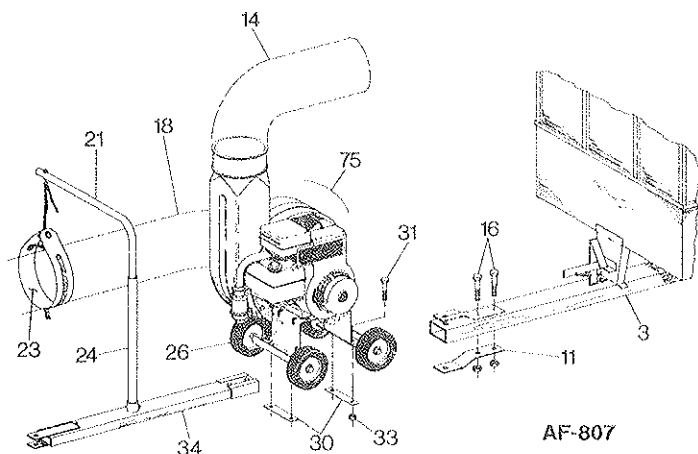
NOTE: FAILURE TO OBSERVE SAFETY INSTRUCTIONS MAY RESULT IN SERIOUS INJURY

ASSEMBLY INSTRUCTIONS (Cont.)

15. Position Boot (45) flush with end of mower discharge opening and mark location of outside Hinge Weldment bolt holes and drill two 5/16 diameter holes through mower deck.
16. Mount Hinge Weldment on the top of the mower deck keeping the boot opening concentric with the deck opening. Cut off Spacers (42) to fit between Hinge Weldment (44) and mower deck to keep Boot level. This may require Spacer (42) to be cut at an angle to match deck contour.
17. Attach Hinge Weldment to mower deck using Bolts (43), Spacers (42) and Nuts (35).
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 (50) to proper height so that bottom edge of boot is parallel to the ground as shown below.



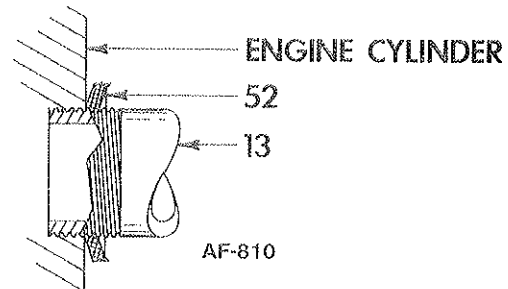
20. Inspect all hardware of boot-to-deck attachment to assure they have been tightened securely.



POWER PACKAGE ASSEMBLY

1. Place a block under Tongue (3) of Cart so that it is level with ground.
2. Remove Towing Clevis (11) from Tongue (3).
3. Place Engine Base and Blower Housing Assembly (75) on Tongue (3) so the front of Base is just behind hitching hole in Tongue (3).

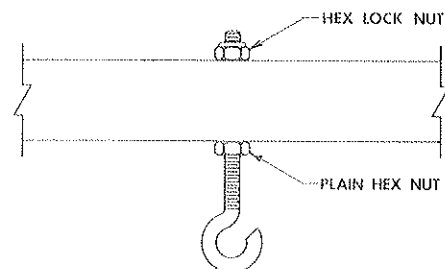
4. Secure Base to Tongue (3) using two Mounting Plates (30), underneath Tongue (3), Hex Hd. Bolts (31) and Lock Nuts (33).
5. Attach Muffler to Engine so Muffler is pointing down. Tighten Conduit Locknut (52) to Engine Cylinder with teeth of Locknut (52) away from Engine.



6. Secure Muffler to Bracket Weldment (55) with U-Bolt (53) and Locknuts (56).
7. Place one Washer (32) and Wheel (36) on each axle of Engine Base. Secure with End Caps (29).
8. Insert end of Towbar Extension (34) into Tongue (3) of Cart. Align holes in Towbar Extension (34) with those in Tongue (3) used for securing Towing Clevis (11).
9. Reassemble Hex Hd. Bolts (16) through top of Tongue (3), place Towing Clevis on Bolts (16) from the bottom, secure with Locknuts.
10. Insert Arm Stand (24) into Towbar Extension (34) and insert Arm (21) into Arm Stand.

HOSE ASSEMBLY

1. Attach smooth end of short Hose (14) to Canopy Assembly and secure with Clamp (13). Attach other end to Blower Housing with Clamp (19).
2. Attach long Hose (18) to front of Blower Housing and to the Boot Assembly. Secure with Clamps (30).
3. Assemble Sling (23) to Hose (18) at center of Hose. Place S-hook of Chain Assembly through holes in sling and hook link of chain on Eyebolt (50).
4. Place Eyebolt (50) through hole in Arm (21) so Hose (18) is not rubbing near tire of tractor. Secure with Hex Nuts.



5. Chain Assembly should be adjusted on Eyebolt (50) so Hose (18) does not drag on ground.
6. 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.

OPERATING INSTRUCTIONS

IMPORTANT

Read the engine manual carefully before operating TRAIL VAC.

1. The engine contains no oil when shipped. Be sure to fill the engine crankcase with the proper type and amount of oil.
2. Be sure boot is secured properly and all hoses are in place and secure.
3. Be sure Tailgate is in place and secure.

WARNING

When refueling, care should be taken not to spill fuel on hot engine. This could cause the fuel to ignite, resulting in serious injury to operator or damage to unit.

OPERATING TIPS

Best vacuum is obtained by running engine at full throttle.

Use good judgment. Do not mow in contour pattern if grades are so steep as to make tipping possible.

The boot should be adjusted to remain level by moving the spacers. To raise the boot, remove cotter hairpin from the caster spindle. Remove the spindle from the bearing and add spacers under the bearing on the spindle. Check boot instruction #19 for proper spacing.

The unique design of the Conestoga™ Trail Vac permits the operator to determine when the canopy is filled without leaving the tractor seat. The canopy will fill from the tailgate forward. As the unit fills, the louver will begin to close. The filling process should be terminated before the louver is completely closed to prevent clogging the hose and fan housing.

CAUTION

If it is desired to mow with the Trail Vac removed, the discharge extension or shield must be replaced on the mower deck. Never operate the mower without the Trail Vac boot or original equipment in place.

The Trail Vac is not supplied with a spark arrester muffler. If the Trail Vac is used in the state of California, the state law requires spark arrester mufflers be used to comply with Section 4442 of the California Public Resources Code. Contact your service center and have this muffler installed.

EMPTYING

Optional containers are available for easy removal of debris from unit. The containers break up compaction of grass and are easily emptied. Bagging liners can be used with the containers. When full, the liner is removed from the container, tied off, and set at the curb.

If containers are not used, cart may be dumped by tipping. To accomplish this, it is necessary to release the quick disconnect clamp that connects the hose to the canopy. Remove the back door and tailgate and release the cart latch.

CAUTION

Do not touch the muffler if it is hot.

Never remove Canopy Tailgate unless the power package is shut off. Serious personal injury may result if this caution is ignored.

LEAVES

The Conestoga™ Trail Vac was designed to vacuum grass clippings and leaves while mowing.

PICK-UP HOSES

Optional pick-up hoses are available. This allows pick up of large piles of leaves and to clean up around shrubs and foundations. Four-inch hose kit is No. 64-193-D or six-inch hose kit is No. MA-589-D. See your dealer for complete details.

If desired to remove the towbar extension from the cart tongue, remove the two 3/8-16 bolts that hold them together and install the clevis on top of cart tongue.

REMOVAL OF POWER PACKAGE

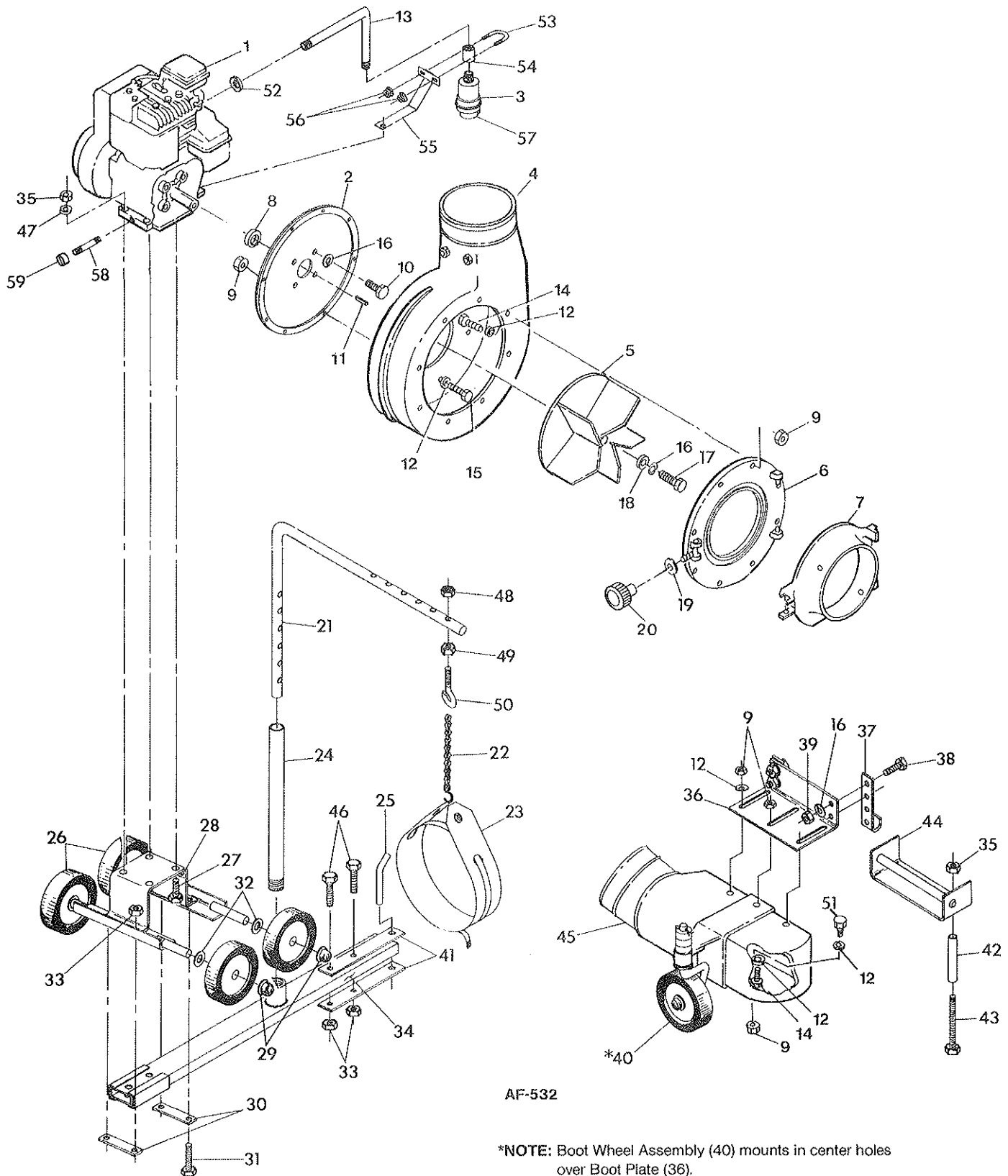
The power package can be removed from the Conestoga™ Cart by removing the boot and hose assembly at the blower housing and releasing the quick disconnect hose clamp at the canopy. Remove the four 3/8-16 x 3 bolts holding the Mounting Plates that secure the power package to the towbar. Roll the power package on its own wheels, off the towbar, to a storage area.

LUBRICATION

The wheels on the cart should be checked periodically to assure proper lubrication is maintained. Grease fittings are located on the hubs when lubrication is needed.

A few drops of oil on the boot wheel spindle and boot hinge assembly will help keep them operating smoothly.

POWER PACKAGE



AF-532

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-D	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	9	Lockwasher Spring 5/16
17	60-516-20	1	Bolt, Hex Head 5/16-24 x 1 1/4
18	82-138-B1	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	SA-1498-C	1	Hose Sling & Strap Assembly
24	84-295-A	1	Arm Stand
25	84-228-B	2	Hitch Pin
26	83-177-C	4	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	4	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	6	Nut Hex Lock 3/8-16
34	85-142-C	1	Towbar Extension Weldment
35	365-516	6	Nut Hex Lock 5/16-18
36	85-146-C	1	Boot Plate
37	85-147-B	2	Boot Hanger
38	65-516-12	4	Bolt, Hex Head 5/16-18 x 3/4
39	335-516	4	Nut, Plain Hex 5/16-18
40	SA-1310-B	1	Boot Wheel Assembly
41	81-141-A	2	Clevis
42	84-135-A	2	Spacer
43	72-516-80	2	Bolt, Hex Head 5/16-18 x 5
44	85-145-B	1	Hinge Weldment
45	84-131-D	1	Boot
46	65-616-44	2	Bolt, Hex Head 3/8-16 x 2 3/4
47	945-516	4	Flatwasher Plain 5/16
48	365-10	1	Nut, Hex Lock 10-24
49	335-10	1	Nut, Hex Plain 10-24
50	84-197-A	1	Eye Bolt
51	65-416-12	1	Bolt, Hex Head 1/4-20 x 3/4
52	63-262-A	1	Conduit Locknut 3/4
53	73-238-A	1	"U" Bolt 1/4-20
54	66-231-A	1	Coupling 3/4 x 1 5/8
55	85-27-B	1	Bracket Weldment
56	362-416	2	Nut, Hex Lock Serrated Flange 1/4-20
57	****	1	Side Out Deflector (supplied with engine)
58	85-28-A	1	Nipple 1/4 x 1 1/2
59	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

WARRANTY INFORMATION

Parker Sweeper Company warrants each new piece of equipment manufactured under its name except the engine, to be free of defects in materials and workmanship under normal use and service. Parker Sweeper Company's obligation is limited to repair or replacement at its option for one (1) year (ninety (90) days for commercial service) from date of purchase.

If trouble should occur with the engine, please contact the manufacturer listed below, giving them all information: Name of unit purchased from company (Parker Trail Vac 8828, etc.), problem with engine, model no. of engine, etc.; when unit was purchased; and your complete return address complete with zip code. Failure to provide complete information will result in unnecessary delay of repair and return of unit.

Proper assembly of replacement parts is the responsibility of the owner or mechanic doing the work. Parker Sweeper Company warranty only applies to the original purchased unit and/or replacement parts if assembled correctly by a qualified mechanic. Under no circumstances does the warranty extend beyond the original time specified from date of purchase.

ENGINE:

Briggs & Stratton Company
P.O. Box 702
Milwaukee, Wisconsin 53201

SAFETY CHECK LIST

BEFORE USING THIS UNIT CHECK ALL OF THE FOLLOWING ITEMS EACH TIME:

1. Is the engine oil level correct on both units?
2. Do the wheels of the cart have grease?
3. Are all bolts tight on all parts of the unit?
4. Are all hoses secure?
5. Is the rear gate of the cart and tailgate of the canopy in place correctly and secured with latch and pins?
6. Has the area to be mowed or cleaned been policed for obstacles?

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.