

GRASS COLLECTION SYSTEM

TRAILER/VAC FOR ZERO TURN & RIDING MOWERS

MODEL 492003 & 492005



OPERATOR'S MANUAL

ASSEMBLY • OPERATION • MAINTENANCE

PECO GRASS COLLECTION SYSTEM

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SAFETY

- **1.** Read the operator's manual carefully and familiarize yourself with the proper use of your attachment. Do not allow anyone who is not acquainted with the Safety Instructions to use your attachment.
- 2. Know the controls and how to stop them quickly. READ THE OPERATOR'S MANUAL!
- 3. Do not allow children to operate the machine. Do not allow adults to operate it without proper instruction.
- **4.** Be especially watchful of children and pets entering into the area while operating.
- **5.** Keep your eyes and mind on your machine while mowing or operating your attachment. Don't let others distract you.
- **6.** Do not attempt to operate your machine when not in the driver's seat.
- **7.** Always shut off blades and engine when emptying the container.
- **8.** Stop machine, shut off deck attachment, set parking brake, shut off engine and remove ignition key before removing clogs, removing or replacing hose, boot, blower cone, or performing any maintenance.
- 9. Mow across the face of slopes (not more than 10 degrees); never up and down the face.
- **10.** It is recommended that the container be emptied when half full while operating on slopes. Start mowing on slopes when the container is empty.
- **11.** Inspect your lawn and remove any foreign objects before mowing. Never deliberately run the mower across any foreign object.
- **12.** Wear hearing protection.
- **13.** Wear eye protection to prevent debris from getting into your eyes.

SAFETY

WARNING! NEVER operate the mower unless the discharge guard and either the deflector assembly or the vacuum collector adapter are fastened securely in place.

WARNING! Do not work around the mower deck boot or the blower area until you are certain that the mower blades and the blower impeller have stopped rotating.

WARNING! To avoid serious injury, perform maintenance on the vacuum collector; **ONLY AFTER STOPPING THE MOWER'S ENGINE AND WAITING FOR ALL MOVING PARTS TO COME TO A COMPLETE STOP.** Set the parking brake. Always remove the ignition key before beginning maintenance.

WARNING! For your own personal safety, ALWAYS mow ACROSS the face of slopes and NEVER UP and DOWN the face. NEVER attempt to mow excessively steep slopes, and use caution when turning on any slope.

Safety Alert Symbol



This Safety Alert Symbol means: "ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!"

This symbol is used to call attention to safety precautions that Should be followed by the operator to avoid accidents. When you see this symbol, carefully read the message that follows and heed its advice. Failure to comply with safety precautions could result in death or serious bodily injury.

Safety Signs

The signal words **DANGER, WARNING,** and **CAUTION** are used on the equipment safety signs. These words are intended to alert the viewer to the existence and the degree of hazard seriousness.



This signal word indicates a potentially hazardous situation which, if not avoided, will result in death or serious injury.

White letters on RED



This signal word indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

Black letters on **ORANGE**

It may also be used to alert against unsafe practices.



This signal word indicates a potentially hazardous situation which, if not avoided, will result in minor or moderate injury.

It may also be used to alert against unsafe practices.

Black letters on YELLOW

3

PECO LIMITED WARRANTY FOR NEW PRODUCTS

A. WHAT IS UNDER WARRANTY?

PECO extends the following warranties to the original purchaser of each new PECO consumer product subject to the following limitations.

- **1. PRODUCT WARRANTY:** Any part of any consumer product, which is defective in material or workmanship as delivered to the purchaser will be repaired or replaced, as PECO elects, without charge for parts or labor, if the defect appears within 12 months from the date of delivery of the product to the original purchaser. ALL DEFECTIVE PARTS MUST BE RETURNED TO PECO FOR INSPECTION TO DETERMINE VALIDITY OF WARRANTY CLAIMS. Freight and mailing will be borne by the customer.
- **2. PARTS REPLACED DURING WARRANTY:** Any new PECO part which is furnished in performance of this warranty and is defective in material or workmanship as delivered to the purchaser will be repaired or replaced, before the expiration of the original warranty period, whichever is later.
- **3. COMMERCIAL USE:** Products put to personal use around a single household or residence is considered 'Residential'; Products put to any business use (agricultural, commercial, or industrial) or used at multiple locations is considered 'Commercial.' Products designated as 'Commercial' are warrantied for 12 months from the date of delivery of the product to the original purchaser when used for in commercial applications. Products designated as 'Residential' are warrantied for 90 days from the date of delivery of the product to the original purchaser when in commercial applications.

B. SECURING WARRANTY ADJUSTMENTS

Call PECO for Return Authorization. Damaged or broken parts other than engines or batteries, must be returned to New PECO, Inc. at 10 Walden Drive, Arden, NC 28704 before any warranty adjustment can be authorized. At the time of requesting warranty adjustment, the purchaser must present evidence of the date of delivery of the product. The purchaser shall pay any charge for the product to and from Arden, NC.

C. ITEMS NOT COVERED BY PECO WARRANTY

Engines and batteries attached to PECO products are covered under a separate warranty by the respective manufacturer.

D. UNAPPROVED ALTERATION OR MODIFICATION

All obligations of New PECO, Inc. under this warranty shall be terminated if products are altered or modified in ways not approved by New PECO, Inc.

E. ACCIDENTS AND NORMAL MAINTENANCE

The warranty covers only defective material and workmanship. It does not cover depreciation or damage caused by normal wear, accident, improper use or abuse of products. The cost of normal maintenance and normal replacement of service items such as belts, cutting blades, hoses, etc., which are not defective shall be paid for by the purchaser.

F. NO REPRESENTATIONS ADDITIONAL WARRANTIES. DISCLAIMER

Neither New PECO, Inc. nor any company affiliated with it makes any warranties, representations or promises as to the quality of performance of its products other than those set forth herein. Except as described above, New PECO, Inc. makes no other warranties AND SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF FITNESS AND MERCHANTABILITY.

G. PRODUCTS USED FOR RENTAL OR LEASE PURPOSES ARE WARRANTIED FOR 45 DAYS FROM DATE OF ORIGINAL SALE ONLY

H. REMEDIED EXCLUSIVE

The only remedies the purchaser has in connection with the breach or performance of any warranty on New PECO, Inc. consumer products are set forth above. In no event will PECO be liable for special incidental or consequential damages.

1. NO SERVICE CENTER WARRANTY

The selling Service Center makes no warranty on his own on any item warranted by New PECO, Inc. unless he delivers to purchaser a separate written warranty certificate specifically warranting the item. The dealer has no authority to make any representation or promise on behalf of PECO or to modify the terms of this warranty in any way.

2017 (v1.0)

SECTION I INTRODUCTION AND DESCRIPTION

Introduction

We are pleased to have you as a PECO customer. Your collection system has been designed to give you a low maintenance, simple, and effective way to collect the grass clippings from your mower. This manual is provided to give you the necessary instructions to properly mount and operate the collection system on your mower. Please read this manual thoroughly. Understand what each control is for and how to use it. Observe all safety decal precautions on the machine and noted throughout the manual.

NOTE: all references made to right, left, front, rear, top or bottom are as viewed from the normal operator's position on the mower.

Description

The collection system is designed for turf maintenance where there is a need to collect the grass clippings as the mower cuts the turf. It is also good for picking up leaves and twigs in pre-season and post-season cleanup.

The engine blower assembly is mounted on the right side of the unit. The blower draws grass clippings from the discharge area of the cutter deck up to the aluminum container mounted to the rear of the mower. The operator can engage the engine blower assembly by starting the engine. Once the container is full of clippings, the operator can easily remove the trailer door, unlock and raise the lift handle and the container will pivot towards the ground.

NOTE: For the following installation steps, notice that each hardware bag is numbered corresponding to the assembly steps. Example: Bag #1 contains all the necessary hardware to complete the Assembly #1 (Steps A1-1 through A1-6). When completing an assembly you may notice extra hardware in the bag. Keep the extra hardware in need of replacement.

SECTION II INSTALLATION FOR USE

A1-1 Preparation Of Parts

Carefully dismantle shipping container by cutting retaining straps and removing container top for access to parts. The collection system will have various parts located inside. Remove and sort all parts for easy identification. See Figure 1 for details.

NOTE: before each step of assembly it will help to study the exploded drawings on page 8 and 9.

Figure 1 Container and Part Separation





A1-2 Attaching Pan Front To Trailer Pan

Stand trailer pan (Figure 2) on end with holes aligned to the pan front. Use (7) 1/4" x 1/2" carriage bolts P#(K1005), (7) 1/4" flange nuts P#(K1126) and (7) 1/4" flat washers P#(K0037) to assemble. Place each carriage bolt from the inside of the pan out so the head of the bolt creates a smooth edge inside the trailer. Place a washer and nut on the outside of the pan leaving each nut snug (not fully tightened).

Figure 2 Pan Front Assembly

Pan Front

A1-3 Attaching Pan Front Braces

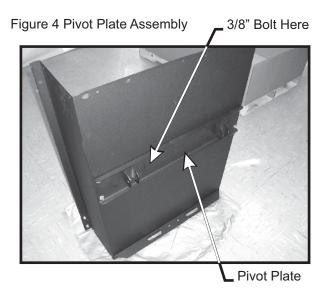
Align the holes of (1) pan front brace to each top corner of the pan/pan front previously assembled. Use (3) 1/4" x ½" carriage bolts P#(K1005), (3) 1/4" flange nuts P#(K1126) and (3) 1/4" flat washers P#(K0037) per brace (Figure 3) to assemble. Place each carriage bolt with the head of the bolt on the top side and fasten using a washer and nut for each bolt. After both braces have been assembled tighten all nuts (including nuts from step 2-2).

Figure 3 Pan Front Brace Assembly



A1-4 Attaching Pivot Plate

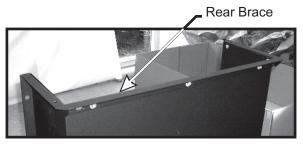
Flip the pan over so the pan front is resting on the ground (Figure 4). Align the holes of the pivot plate to the bottom of the pan. Use (4) 1/4" x 1/2" carriage bolts P#(K1005), (4) 1/4" flange nuts P#(K1126), (4) 1/4" flat washers P#(K0037), (1) 3/8" x 3/4" carriage bolt P#(K1181) and (1) 3/8" flange nut P#(K1215) to assemble. Place each 1/4" carriage bolt to the outside four corners of the pivot plate with the head of the bolt to the inside of the pan out and fasten using a washer and nut for each bolt. Place the 3/8" carriage bolt (inside-out) on the left hand side to Figure 4 as shown and fasten using a 3/8" nut.



A1-5 Attaching Pan Rear Brace Assembly

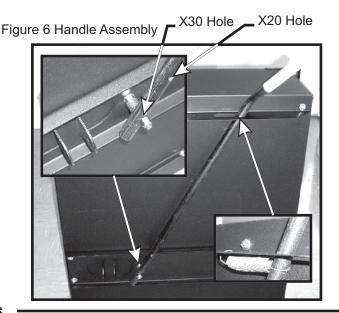
Align the holes of the pan rear brace assembly to the pan. Use (7) 1/4" x 1/2" carriage bolts P#(K1005), (7) 1/4" flange nuts P#(K1126) and (7) 1/4" flat washers P#(K0037) to assemble. Place each carriage bolt with the head of the bolt to the inside of the pan out and fasten using a washer and nut for each bolt (Figure 5).

Figure 5 Pan Rear Brace Assembly



A1-6 Attaching Dump Handle

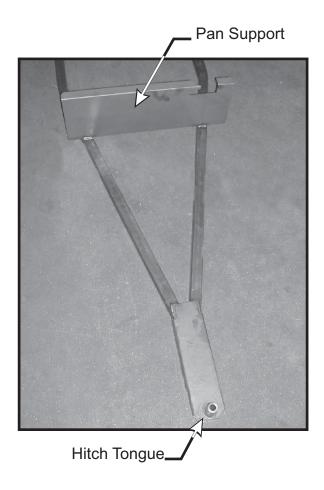
Flip the pan over so the pan rear brace is resting on the ground (Figure 6). Slide the handle through the slot in the pan front, straight end first. Position the handle so that the bend is facing away from the pan (down). Notice the (2) mounting holes on the handle. The hole closest to the end is for mounting on the X30 and the next hole up is for mounting on the X20. Use (1) 3/8" x 2-1/2" carriage bolt P#(K1186), (1) 3/8" flange nut P#(K1215), (1) 1/2" spacer bushing P#(S3143) and (1) 3/8" nyloc nut P#(K1216) to assemble. Place the carriage bolt from the inside-out and fasten with a flange nut. Next place the bushing, another flange nut, the handle, and then the nyloc nut. Do not tighten the nyloc tight to the handle, this will prevent handle from pivoting properly. Next, connect one end of the handle spring P#(J0310) to the slot in the pan front and wrap the opposite end around the handle (Figure 6). Place handle grip P#(J0522) on the end of the handle to complete the assembly.



A2-1 Attaching Pan Support To Trailer Hitch

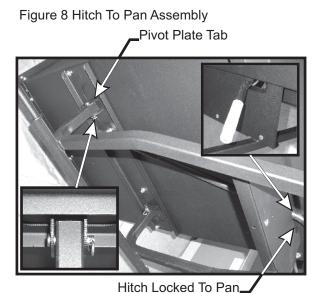
Align the holes of the pan support to the hitch (Figure 7) with the pan support mounting to the edge closest to the tongue of the hitch. Use (3) 1/4" x 1/2" carriage bolts P#(K1005), (3) 1/4" flange nuts P#(K1126) and (3) 1/4" flat washers P#(K0037) to assemble. Place each carriage bolt from the side closest to the tongue and fasten using a washer and a nut for each bolt.

Figure 7 Pan Support Assembly



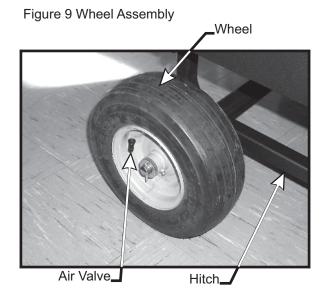
A2-2 Attaching Hitch To Pan

Align each pair of pivot plate tabs to the holes in the hitch tube with the tube fitting between the tabs (Figure 8). Use (1) $\frac{1}{2}$ " x 2" detent pin P#(K0082) and (1) $\frac{1}{8}$ " hair pin clip P#(K0086) per side of the hitch to assemble. Place the detent from the outside-in and fasten using the hair pin clip for each side. Next, slide handle out and lock the hitch to the pan.



A2-3 Attaching Wheels To Hitch

With the pan and hitch in the upright position attach a wheel P#(H3001) to each end of the hitch axle. Use (1) 3/4" flat washer P#(K0061) and (1) 1/8" x 1-1/2" cotter pin P#(K0085) per wheel to assemble. Place the wheel with the air valve facing away from the hitch, washer, followed by the cotter pin (Figure 9).



A3-1 Attaching Locator Pins To Left And Right Side Panels

For each aluminum side panel (left & right) use (1) 1/4" locator pin nut P#(B4251), (1) 1/4" lock washer P#(K0039), (1) 1/4" flat washer P#(K0037) and (1) 1/4" x ½" hex bolt P#(K1105) per panel to assemble. Place the flat washer on the hex bolt and insert through the panel. Fasten using the lock washer followed by the locator pin nut (Figure 10 continued on page 9).

MODEL#: 492003U

VAC NAME: 20 CUBIC FOOT TRAILER VAC

ENG: 550 SER. BR (5.50 GROSS TORQUE / 127 cc)

HARDWARE BAG

UNASSEMBLED TRAILER VAC FOR

REVISED: 2/25/2013 ZERO TURN AND RIDING MOWERS A1169 - Unassembled Package (1) E8010 (1) V1023 6" INLET RING PLASTIC TOP V1052 LT. SIDE 6" INLET PANEL C0004 B8135 FRONT **FILTER** PANEL HB0336 SCREEN UNIT ASSY. H.W. BAG C0005 B0142 RT. SIDE (4) J1000 2"-10", HOSE HEADER PANEL C2135 1LT. & 1RT. CLAMPS SIDE PANEL BRACE (1) B0133 PAN FRONT (2)(1) E6004 7" BLOWER B0138 PAN FRONT CONE (1) A0527 PAN REAR (1) A0837 BRACE ASSY. ENGINE MOUNT B0134 ARM ASSEMBLY B3492 DUMP HANDLE (1) A630 550 SERIES B0136 BRIGGS & STRATTON (1)PIVOT W/ BLOWER & BLADE V0001 SUPPORT PLASTIC DOOR B0574 (1) 6" x 60" A0262 PAN SUPPORT TAIL GATE **UPPER** ASSEMBLY HOSE A1100 CHASSIS A0121 SMALL ASSEMBLY UNIVERSAL BOOT KIT A0849 BOOT KIT PECO **HARDWARE BAG** (1) 7" x 66" A0137 LARGE UNIVERSAL BOOT KIT H5001 LOWER WHEEL A0856 BOOT KIT PECO HOSE

MODEL#: 492003A

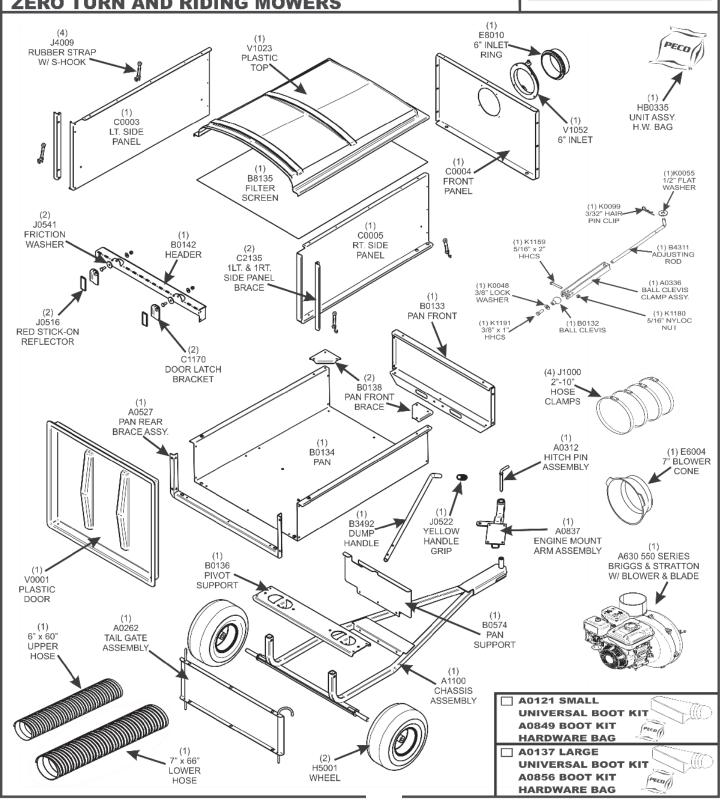
VAC NAME: 20 CUBIC FOOT TRAILER VAC

ENG: 550 SER. BR (5.50 GROSS TORQUE / 127 cc)

FULLY ASSEMBLED TRAILER VAC FOR ZERO TURN AND RIDING MOWERS



REVISED: 5/7/2012

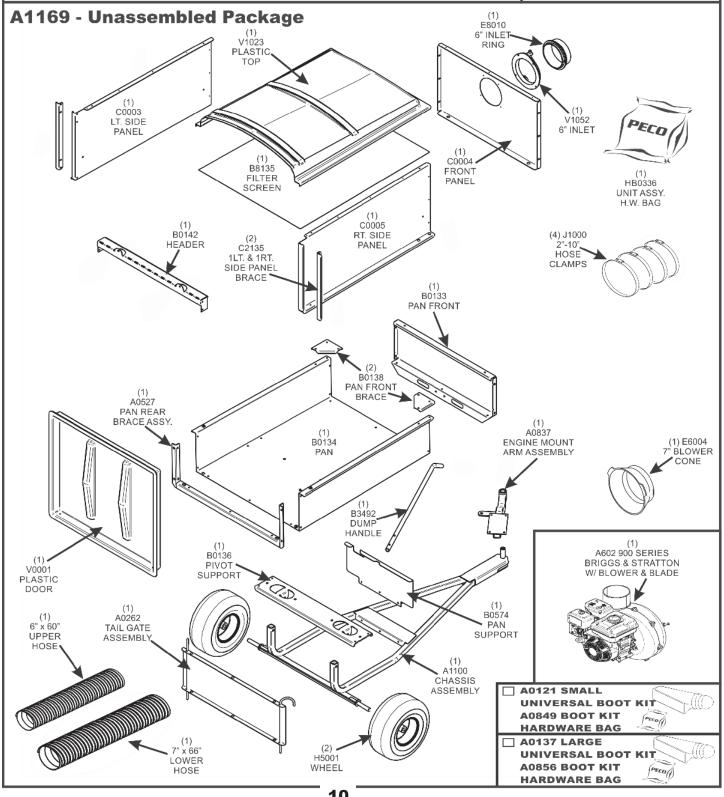


MODEL#: 492005U

VAC NAME: 20 CUBIC FOOT TRAILER VAC 900 SER. BR (9.00 GROSS TORQUE / 205 cc)

REVISED: 2/25/2013

UNASSEMBLED TRAILER VAC FOR ZERO TURN AND RIDING MOWERS



MODEL#: 492005A

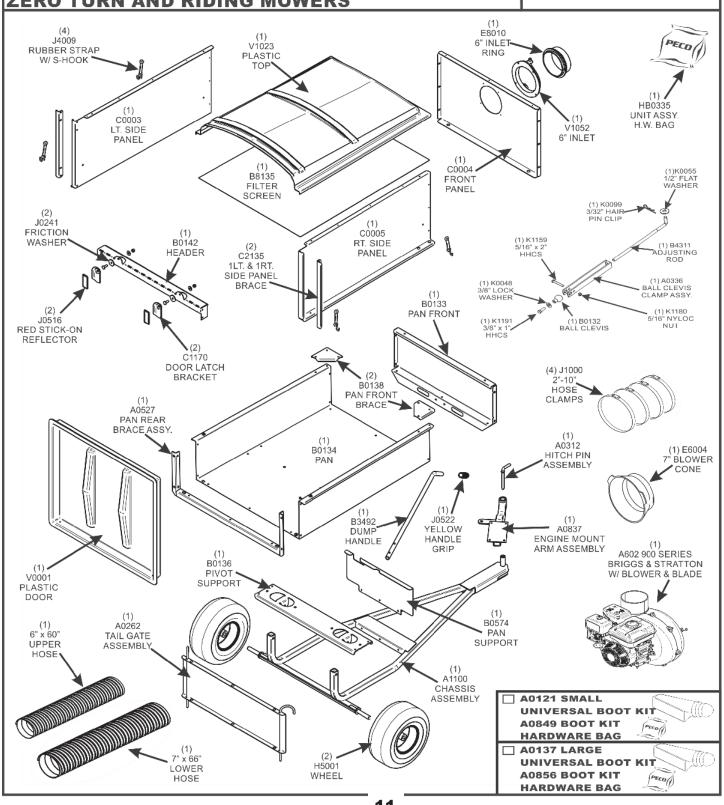
VAC NAME: 20 CUBIC FOOT TRAILER VAC

ENG: 900 SER. BR (9.00 GROSS TORQUE / 205 cc)

PEED

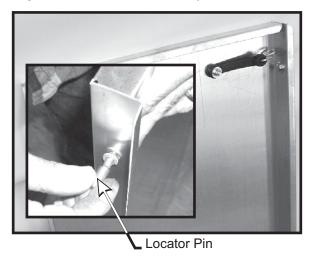
REVISED: 5/7/2012

FULLY ASSEMBLED TRAILER VAC FOR ZERO TURN AND RIDING MOWERS



A3-1 Attaching Locator Pins To Left And Right Side Panels Continued

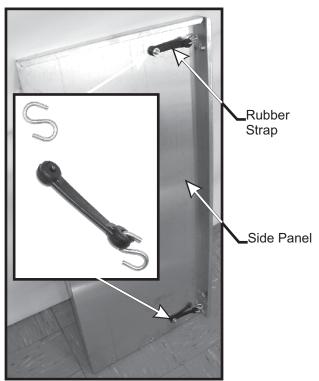
Figure 10 Locator Pin Assembly



A3-2 Attaching Straps To Left And Right Side Panels

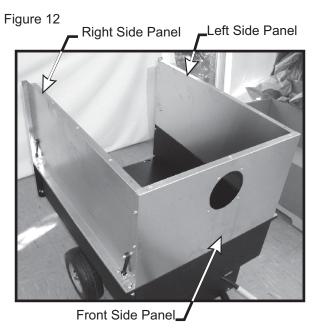
Remove 'S' hook from one end of each (4) rubber straps P#(J4009) (Figure 11). Use (2) rubber straps, (2) 1/4" x 1" carriage bolts P#(K1020), (2) 1/4" nyloc nuts P#(K1128) and (2) 1/4" flat washers P#(K0037) to assemble for each side panel. Place carriage bolt through the back side of each panel (2 places) followed by the end of the strap with the 'S' hook removed. Fasten using the flat washer followed by the nyloc nut.

Figure 11 Strap Assembly



A3-3 Attaching Front, Left And Right Side Panels

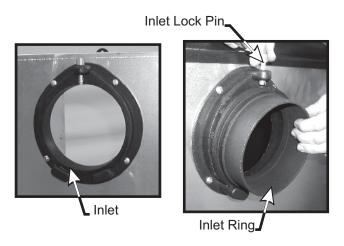
Place front side panel on top of the pan assembly and align bottom to the carriage bolt heads (Figure 12). Place the right side panel first and align holes to the front side panel. To assemble each side panel to the front side panel use (3) blunt tip sheet metal screws ½" long P#(K1096). Note that the panels are pre-threaded and there is no need for fasteners.



A3-4 Attaching Inlet / Inlet Ring

Place inlet through hole on the front side panel and align the (4) holes (Figure 13). Use (4) blunt tip sheet metal screws 3/4" long P#(K1092) to assemble. Note that the front side panel is pre-threaded. Next raise the inlet lock pin, insert the inlet ring into the inlet by aligning lower grooves of the inlet to the inlet ring and lower lock pin to fasten inlet ring into place.

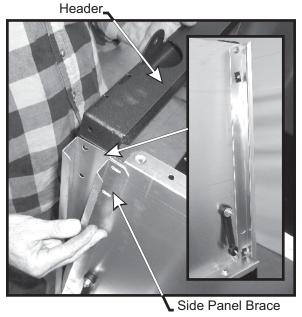
Figure 13 Inlet / Inlet Ring Assembly



A3-5 Attaching Header And Side Panel Braces

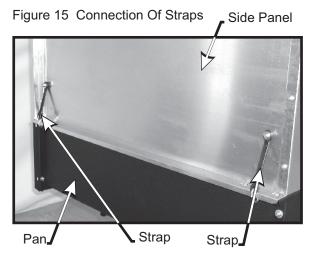
Align the holes of the header in-between the top-rear of the side panels (Figure 14). Place (1) side panel brace (1 brace per side panel) to the outside of the rear side panel and align the holes. Use (3) blunt tip sheet metal screws ½" long P#(K1096) and (3) 1/4" flat tinnerman nuts P#(K0029) per side. Place the top sheet metal screw from the outside-in and fasten using a tinnerman nut. Place the bottom two sheet metal screws from the inside-out and fasten using the tinnerman nuts. See Figure 14 for screw insertion direction.

Figure 14 Header And Side Panel Braces Assembly



A3-6 Connecting Straps

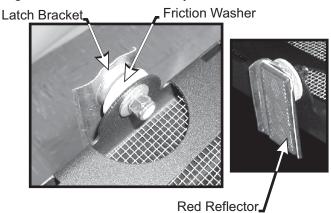
Connect straps to the pan by using the 'S' hook (Figure 15). This will prevent the sides from moving for the following steps.



A3-7 Attaching Door Latch

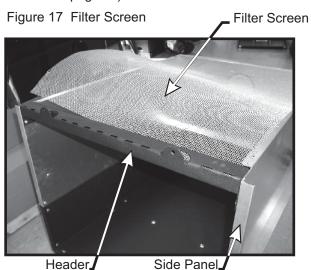
On the header locate the two tabs (Figure 16) for mounting each latch assembly. Use (1) latch bracket P#(C1170), (1) 3/8" x 1" carriage bolt P#(K1182), (1) friction disc P#(J0541), (1) 3/8" flat washer P#(K0047), (1) 3/8" nyloc nut P#(K1216) and (1) red reflector per header tab. For each tab place the carriage bolt through the latch bracket followed by the friction washer. Place the bolt then through the header tab and fasten using the flat washer followed by the nyloc nut. Tighten the nyloc nut so the bracket is tight but will also rotate. Finish the assembly by adhering the red reflector to the latch bracket.

Figure 16 Door Latch Assembly

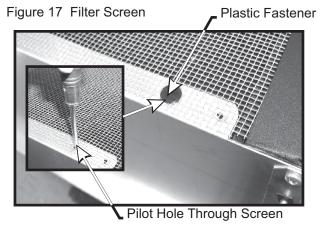


A4-1 Attaching Filter Screen

Place the filter screen, wide end towards the header, on top of the side panels (Figure 17). Slide the screen underneath the lip of the header shown. Use (4) plastic flathead panel fasteners P#(K1265) to assemble. Notice on top of the side panels, there are pre-threaded holes and (4) plain holes at the four corners of the top. Use a Phillips screw driver to make a pilot hole in the screen through each of the (4) holes (this will allow easier installation of the plastic fasteners). Fasten the screen to the side panels using the plastic fasteners. (Figure 17 continued on page 11)



A4-1 Attaching Screen Continued



A4-2 Attaching Plastic Top

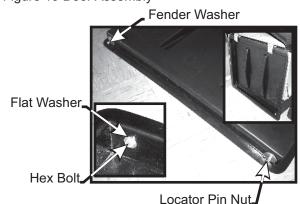
Place the plastic top on top of the side panels and align holes. Use (11) sharp tip sheet metal screws 3/4" long P#(K0010) to fasten the plastic top (Figure 18). Note that the top of the side panels are pre-threaded.



A4-3 Attaching Door

Locate the (2) pre-drilled holes in the plastic door. Use (1) 1/4" x 1/2" hex bolt P#(K1105), (1) 1/4" flat washer P#(K0037), (1) large fender washer P#(K0041) and (1) locator pin nut P#(B4251) per hole (Figure 19). Place the flat washer onto the hex bolt, place through the door and fasten using the fender washer followed by the locator pin nut. Insert the door to the pan and rotate each door latch to lock door in place.

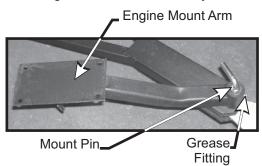
Figure 19 Door Assembly



A5-1 Attaching Engine Mount Arm

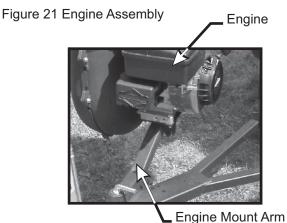
At the end of the trailer tongue (Figure 20) slide the engine mount arm onto the mount pin until the engine mount arm bushing is resting on the washer welded to the mount pin. Grease fitting before use.

Figure 20 Engine Mount Arm Assembly



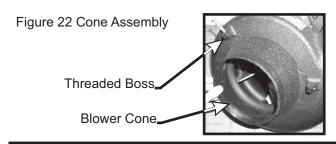
A5-2 Attaching Engine

Place engine onto the engine mount arm (Figure 21). Align the holes of the mount arm to the engine footprint. Use (4) 5/16" x 1-1/2" all thread hex bolts P#(K1157) and (4) 5/16" flange nuts P#(K1178) to assemble. Place hex bolts through the top of the engine footprint and fasten on the underside of the engine mount arm with flange nuts.



A5-3 Attaching Blower Cone

Connect the blower cone to the front face of the blower housing. Align the (2) threaded bosses of the blower to the (2) tabs of the cone. Use (2) 5/16" x 2" all thread hex bolts P#(K1159) to assemble. Place bolts through the threaded bosses to secure the blower cone.



A5-4 Blower Cone Installation

Thread (1) 5/16"-18 jam nut P#(K0120) onto each end of (2) 5/16"-18 x 2-1/2" HHCS P#(K0125). Now partially thread the bolts into each of the two tabs located on the blower housg. Place blower cone so the two tabs line up with the bolts then tighten completely. See Figure 23.

(2) 5/16"-18 x 2-1/2"

ALL THREAD HHCS BOLTS

the impeller, between each vein, with a hammer, then try (2) 5/16"-18 JAM NUTS again. **To Replace**: Place impeller blade over the engine shaft. Slide the taper-lock bushing on to the engine shaft and into the impeller blade, aligning the non-threaded holes Figure 23 of the taper-lock bushing to the threaded holes of the impeller blade. Fasten by using (2) 1/4"-20 HHCS grade #8 bolts, (1) spacer washer and (1) HHCS bolt w/ washer. Torque to the proper specifications in the torque chart on the back of this manual. Next, rotate the impeller blade to insure that the blade is clear of contact on all sides of the blower housing. **BLOWER HOUSING TAB** Figure 24 **BLOWER CONE TAB BLOWER HOUSING** IMPELLER BLADE

A5-5 Impeller Blade Removal/Replacement

To Remove: First remove the center bolt (#1), washer

(#2) and spacer (#3) from the taper-lock bushing (#5).

See Figure 24. Next remove the (2) 1/4"-20 bolts (#4)

and place them into the threaded holes of the taper-lock bushing (next to the holes they were removed from). Gradually thread each bolt evenly into the taper-lock bushing, forcing the blade to break-away from the taper-

lock bushing. If the impeller will not move, hit the base of

A5-6 Attaching Trailer To Mower

Place trailer tongue onto the rear of the mower and align the holes of the tongue to the mower's hitch plate. Use (1) release pin P#(A0312) to fasten the trailer to the mower (Figure 25).

Figure 25 Trailer To Mower Assembly

Release Pin

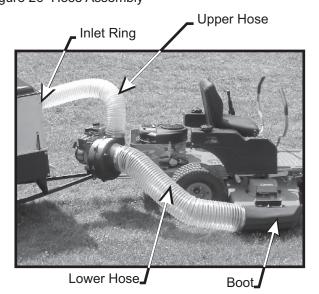
A5-7 Attaching Upper Hose, Boot And Lower Hose

Trailer Tongue

Place (1) 6" hose clamp P#(J6011) over each end of the upper hose. Fit one end of the hose over the top of the blower housing and opposite end onto the inlet ring. Tighten hose clamps. Next attach the boot to the mower deck (refer to included Universal Plastic Boot Assembly Instructions). Place (1) 7" hose clamp P#(J6006) over each end of the lower hose. Fit one end of the hose over the blower cone and opposite end onto the boot. Tighten hose clamps. Following installation of the upper and lower hoses, swing the engine to position the lower hose so that it is clear (approximately 2") of the mowers rear tire. If the lower hose binds or bends because of excess hose, remove one end and cut off excess hose so that hose looks similar to Figure 26.

Figure 26 Hose Assembly

Hitch Plate.



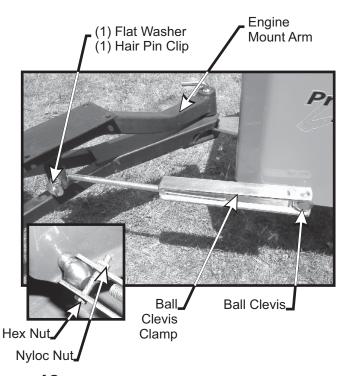
A5-8 Adjusting Upper Hose

To Check the length of the upper hose, position the mower with collection system attached in a full left hand turn. The upper hose should have approximately 2" of excess hose for turning. Any hose excess over 2" should be removed. this will add in collection efficiency. If, when turning, the lower hose rubs the mowers rear tire, adjust the engine stay assembly from section A5-9.

A5-9 Attaching Engine Stay Assembly

Mount (1) ball clevis P#(B0132) to the rear-right side of the mower's frame as shown in Figure 27 by drilling a hole (3/8" drill bit) through the mower's frame. Make sure before drilling that there is ample room on the opposite side of the mowers frame for a bolt. Use (1) 3/8" x 1" hex bolt P#(K1191) and (1) 3/8" flat washer P#(K0047) to fasten ball clevis. With the engine mount arm positioned so that the lower hose is clear of the mowers rear wheel, assemble the engine stay linkage shown in Figure 27. Use (1) ball clevis clamp P#(A0336), (1) 5/16" x 2 all thread hex bolt P#(K1159), (1) 5/16" nyloc nut P#(K1180), (1) adjusting rod P#(B4311), (1) ½" flat washer P#(K0055) and (1) 3/32" x 2" hair pin clip P#(K0099) to assemble. Thread adjusting rod until it will fit into the engine mount arm where previously positioned and fasten using the flat washer followed by the hair pin clip.

Figure 27 Engine Stay Assembly



SECTION III OPERATING INSTRUCTIONS

General Safety

Only qualified people familiar with this operator's manual and the mower's operator's manual should operate this machine.

Operation & Tips On Mowing

- A. Perform BEFORE EACH USE, perform maintenance list from Section 4.
- B. Start the engine/blower/blade assembly.
- B. Start mower.
- C. With the mower at high idle speed, engage the mower deck.
- D. Proceed to operate the control levers of the mower.

NOTE: If the collection system does not appear to be collecting the grass clippings; disengage the deck, engage the parking brake and turn the mower and blower off. Check the upper hose, lower hose, top screen and boot for clogs.

To obtain the maximum effectiveness from your collection system the tips listed below should be followed:

- * Watch your speed- Normal conditions will allow a speed of up to approximately 5 mph, but thick, heavy damp conditions will require reduced ground speed.
- * Mow with sharp blades- A sharp blade cuts cleaner.
- * Wet grass and leaves will decrease effectiveness and will increase horsepower requirements.
- * Mow at higher cutting heights- Remove and mulch no more than 2" of grass length with each mowing. (Experts recommend not cutting off more than 1/3 of the grass blade length at any given time.)
- * Mow twice, at different height settings, (high, then low), if grass is extra tall.
- * Remember that horsepower requirements will vary with the mowing conditions such as type and height of turf grass, moisture content, amount of leaves, whether the terrain is flat or hilly, etc.

Unloading The Collection System

NOTE: Collection system blower will have an audible change in tone when the collection system is full.

- A. Stop the forward movement of the mower.
- B. Disengage the mower deck.
- C. Turn off the collection system blower.
- D. Detach the upper hose from the inlet mount.
- E. Pull the dump handle, on the left of the operator, away from the container to unlock. While holding the handle move the handle upward. The container will swing upward and the container will rotate downward. The container will release its contents.
- F. Once the contents of the container have fallen out, the container is ready to move back into its normal operating position. With the handle in the 'away' position, pull the handle downward until it stops. Move the handle towards the center of the mower. This motion will allow the latch to lock back into collection position.

NOTE: If you do not hold the handle away from the mower as you pull the handle downward, the latch will not lock and the container can unexpectedly release the contents collected.

SECTION IV MAINTENANCE

Maintenance Checklist

Before each use:

- 1. Check blades and spindles to be sure that no foreign objects, such as wire or steel strapping bands, are wrapped around them.
- Inspect blades for wear. Replace if necessary. If it is necessary to sharpen the blades, remove the blades from the spindles before sharpening. DO NOT sharpen blades while still attached to the mower.
- Make sure all shields are in place and in good condition. Repair or replace any missing or damaged shields
- 4. Listen for abnormal sounds, which might indicate loose parts, damaged bearings, or other damage. Correct any deficiency before continuing operation.
- 5. Check for wear or deterioration of the upper or lower hoses. If there are any portions of the hose that have been torn or worn through, replace with genuine PECO parts.

After Each Use:

- Clean all debris from machine especially from the container, and off of safety decals. Replace any missing or illegible decals
- Inspect unit for worn or damaged components. Repair
 or replace before the next use. Any replacement
 component installed during repair shall include the
 components current safety decal specified by the
 manufacturers to be affixed to the component.

SECTION V PARTS AND SERVICE

THE SERIAL NUMBER PLATE IS LOCATED ON THE PAN SUPPORT NEAR THE DUMP HANDLE

Parts And Service Information

PECO collection system owners should record the name and telephone number of their Service Center. Your Service Center will be happy to supply replacement parts, accessories, and do any service or repairs to your collection system. If for any reason your Service Center is unable to service your collection system or supply replacement parts, contact PECO and include the following information on the chart below.



WRITE THE MODEL AND SERIAL NUMBER IN THE BOX ABOVE FOR FUTURE REFERENCE.

| Unit Model Number: | | |
|--------------------------|--------|------|
| Unit Engine Size: | | |
| Unit Serial Number: | | |
| Date of purchase:/ | | |
| Dealer/Distributor Name: | | |
| Dealer's/Distributor's: | State: | Zip: |
| Phone Number: | _ | |
| | | |

Address: PECO Inc. 10 Walden Drive Arden, NC 28704

Phone #: (828) 684-1234 or Toll Free: (800) 438-5823

Email: peco@lawnvac.com

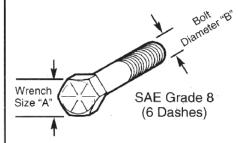
TORQUE SPECIFICATIONS

AMERICAN

Bolt Head Markings

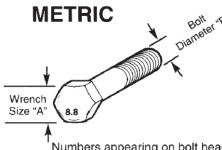






Proper toque for American fasteners used on Peco equipment. Recommended Torque in Foot Pounds (Newton Meters).*

| | | | - | |
|--------------------------|---|----------------|----------------|----------------|
| WRENCH SIZE (IN.) "A" | BOLT DIAMETER (IN.) "B" AND THREAD SIZE | SAE GRADE 2 | SAE GRADE 5 | SAE GRADE 8 |
| 7/16 | 1/4 - 20 UNC | 6 (7) | 8 (11) | 12 (16) |
| 7/16 | 1/4 - 28 UNF | 6 (8) | 10 (13) | 14 (18) |
| 1/2 | 5/16 - 18 UNC | 11 (15) | 17 (23) | 25 (33) |
| 1/2 | 5/16 - 24 UNF | 13 (17) | 19 (26) | 27 (37) |
| 9/16 | 3/8 - 16 UNC | 20 (27) | 31 (42) | 44 (60) |
| 9/16 | 3/8 - 24 UNF | 23 (31) | 35 (47) | 49 (66) |
| 5/8 | 7/16 - 14 UNC | 32 (43) | 49 (66) | 70 (95) |
| 5/8 | . 7/16 - 20 UNF | 36 (49) | 55 (75) | 78 (106) |
| 3/4 | 1/2 - 13 UNC | 49 (66) | 76 (103) | 106 (144) |
| 3/4 | 1/2 - 20 UNF | 55 (75) | 85 (115) | 120 (163) |
| 7/8 | 9/16 - 12 UNC | 70 (95) | 109 (148) | 153 (207) |
| 7/8 | 9/16 - 18 UNF | 79 (107) | 122 (165) | 172 (233) |
| 15/16 | 5/8 - 11 UNC | 97 (131) | 150 (203) | 212 (287) |
| 15/16 | 5/8 - 18 UNF | 110 (149) | 170 (230) | 240 (325) |
| 1-1/8 | 3/4 - 10 UNC | 144 (195) | 266 (360) | 376 (509) |
| 1-1/8 | 3/4 - 16 UNF | 192 (260) | 297 (402) | 420 (569) |
| 1-5/16 | 7/8 - 9 UNC | 166 (225) | 430 (583) | 606 (821) |
| 1-5/16 | 7/8 - 14 UNF | 184 (249) | 474 (642) | 668 (905) |
| 1-1/2 | 1 - 8 UNC | 250 (339) | 644 (873) | 909 (1232) |
| 1-1/2 | 1 - 12 UNF | 274 (371) | 705 (955) | 995 (1348) |
| 1-1/2 | 1 - 14 UNF | 280 (379) | 721 (977) | 1019 (1381) |
| 1-11/16 | 1-1/8 - 7 UNC | 354 (480) | 795 (1077) | 1288(1745) |
| 1-11/16 | 1-1/8 - 12 UNF | 397 (538) | 890 (1206) | 1444 (1957) |
| 1-7/8 | 1-1/4 - 7 UNC | 500 (678) | 1120 (1518) | 1817 (2462) |
| 1-7/8 | 1-1/4 - 12 UNF | 553 (749) | 1241 (1682) | 2013 (2728) |
| 2-1/16 | 1-3/8 - 6 UNC | 655 (887) | 1470 (1992) | 2382 (3228) |
| 2-1/16 | 1-3/8 - 12 UNF | 746 (1011) | 1672 (2266) | 2712 (3675) |
| 2-1/4 | 1-1/2 - 6 UNC | 870 (1179) | 1950 (2642) | 3161 (4283) |
| 2-1/4 | 1-1/2 - 12 UNF | 979 (1327) | 2194 (2973) | 3557 (4820) |



Numbers appearing on bolt heads indicate ASTM class.

*Use 75% of the specified torque value for plated fasteners. Use 85% of the specified torque values for lubricated fasteners.

Proper torque for metric fasteners used on Peco equipment.

Recommended torque in foot pounds (newton Meters).*

| WRENCH SIZE (mm) "A" | BOLT DIA. (mm) "B" | ASTM 4.6 | ASTM 8.8 | ASTM 9.8 | ASTM 10.9 |
|----------------------------|--------------------------|-------------|-------------|-------------|--------------|
| 8 | 5 | 1.8 (2.4) | | 5.1 (6.9) | 6.5 (8.8) |
| 10 | 6 | 3 (4) | | 8.7 (12) | 11.1 (15) |
| 13 | 8 | 7.3 (10) | | 21.1 (29) | 27 (37) |
| 16 | 10 | 14.5 (20) | | 42 (57) | 53 (72) |
| 18 | 12 | 25 (34) | 74 (100) | 73 (99) | 93 (126) |
| 21 | 14 | 40 (54) | 118 (160) | 116 (157) | 148 (201) |
| 24 | 16 | 62 (84) | 167 (226) | 181 (245) | 230 (312) |
| 30 | 20 | 122 (165) | 325 (440) | | 449 (608) |
| 33 | 22 | | 443 (600) | | 611 (828) |
| 36 | 24 | 211 (286) | 563 (763) | | 778 (1054) |
| 41 | 27 | | 821 (1112) | | 1138 (1542) |
| 46 | 30 | 418 (566) | 1119 (1516) | | 1547 (2096) |

| NOTES | |
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