

PRO 12 GRASS COLLECTION SYSTEM

<u>CLASSIC SERIES</u> <u>& SILVER EAGLE SERIES</u> 38621221 4 38621222

<u>XCALIBER SERIES</u> 38621223 & 38621224



ASSEMBLY • OPERATION • MAINTENANCE

MANUAL PART#: Q0390

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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 quickly. READ THE OPERATOR'S MANUAL!
- 3. Do not allow children to operate the vehicle. Do not allow adults to operate it without proper instruction.
- 4. Be especially watchful of children and pets darting into the area while operating.
- 5. Keep your eyes and mind on your unit while mowing or operating your attachment. Don't let others distract you.
- 6. Do not attempt to operate your unit or mower when not in the driver's seat.
- 7. Always stop unit when emptying the container.
- **8.** Stop unit, shut off deck attachment, set parking brake, shut off mower engine and remove spark plug wire before removing clogs, removing or replacing hose, boot, blower cone, or performing any maintenance.
- 9. Mow across the face of slopes (not steeper than 10 degrees); never up and down the face of the slope.
- **10.** It is recommended that the container be kept only half full when negotiating any 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 ear protection if the noise level is offensive.
- **13.** Wear eye protection to prevent debris from damaging your eyes.

SAFETY

WARNING! NEVER operate the unit 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**



Black letters on **ORANGE**



Black letters on YELLOW

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

It may also be used to alert against unsafe practices.

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

It may also be used to alert against unsafe practices.

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 (On most products, see owners manual for specifics) 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, as PECO elects, without charge if the defect appears within 90 days from the date of installation of such part or before the expiration of the original warranty period, whichever is later.

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., 100 Airport Road, 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. ANY MACHINE USED FOR RENTAL PURPOSES ARE GUARANTEED 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.

SECTION I INTRODUCTION AND DESCRIPTION

1-1 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.

1-2 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/blade 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 over the rear portion of the frame. The operator can engage the engine/blower/blade assembly by starting the engine.

Once the container is full of clippings, the operator can easily push and raise the lift handle, releasing the container's rear door and the container will pivot towards the ground.

Section II PREPARATION FOR USE

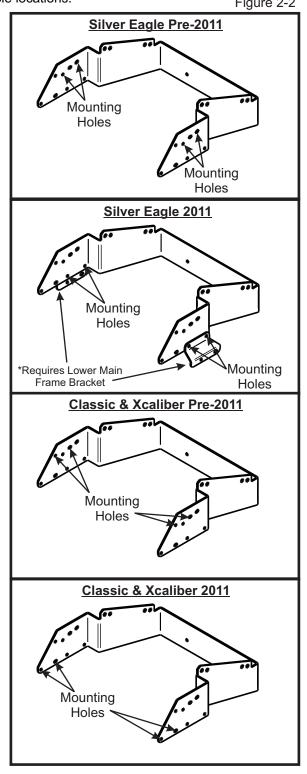
2-1 Preparation Of Mower

Carefully dismantle wooden shipping crate from around the components. Cut retaining straps and separate the parts. Remove and sort all parts for easy identification.

Note: Before each step of assembly it will help to study the exploded drawings on pages 15 through 20.

2-2 Lower Main Frame Installation

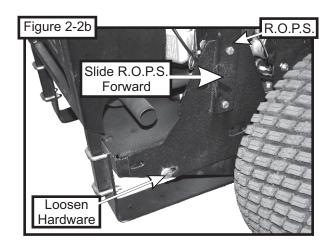
The lower main frame assembly P#(B0567) is designed to fit all model years for the Classic, Xcaliber and Silver Eagle series. Refer to Figure 2-2 for specific mounting hole locations. Figure 2-2



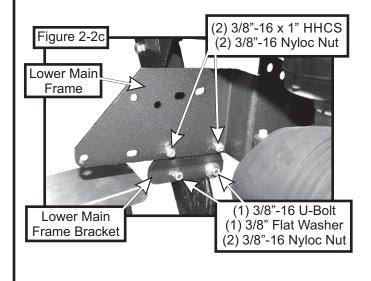
2-2 Lower Main Frame Installation Continued...

Silver Eagle 2011

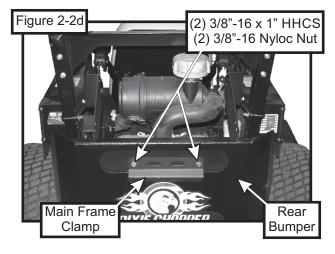
Loosen the hardware that secures the R.O.P.S. to the rear frame of the mower and slide the R.O.P.S. towards the front of the mower. Tighten all hardware when finished. Refer to Figure 2-2b.



Secure (1) left lower main frame bracket P#(B0625) and (1) right lower main frame bracket P#(B0626) to the lower main frame P#(B0567) using (2) 3/8"-16 x 1" HHCS P#(K1191) and (2) 3/8"-16 nyloc nuts P#(K1216) PER BRACKET. Secure the left and right lower main frame brackets to the R.O.P.S. using (1) 3/8"-16 x 2-1/8" u-bolt P#(K1119), (2) 3/8-16 nyloc nuts P#(K1216) and (1) 3/8" flat washer P#(K0047) PER BRACKET. Use the flat washers on the slotted holes in the left and right lower main frame brackets. See Figure 2-2c.

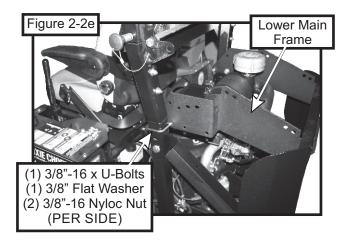


Secure the lower main frame to the rear bumper with (1) main frame clamp P#(B0302). Secure the main frame clamp to the lower main frame as shown in Figure 2-2d, using (2) 3/8"-16 x 1" HHCS P#(K1191) and (2) 3/8"-16 nyloc nuts P#(K1216).



Classic and Xcaliber 2011

Secure the lower main frame P#(B0567) to the R.O.P.S. using (1) 3/8"-16 x 2-1/8" u-bolt P#(K1119), (2) 3/8-16 nyloc nuts P#(K1216) and (1) 3/8" flat washer P#(K0047) PER SIDE. Use the flat washer on the slotted holes in the lower main frame. Refer to Figure 2-2e. Secure the lower main frame to the rear bumper with (1) main frame clamp P#(B0302). Secure the main frame clamp to the lower main frame as shown in Figure 2-2d, using (2) 3/8"-16 x 1" HHCS P#(K1191) and (2) 3/8"-16 nyloc nuts P#(K1216).



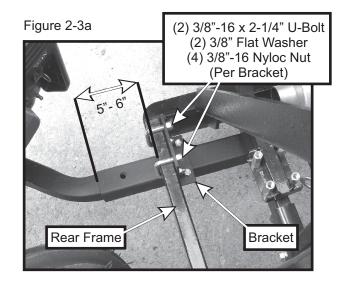
Classic and Xcaliber Pre-2011

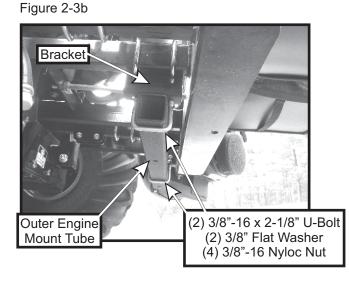
Refer to Figure 2-2a for reference. Secure the lower main frame P#(B0567) to the R.O.P.S. using (1) 3/8"-16 x 2-1/8" u-bolt P#(K1119), (2) 3/8-16 nyloc nuts P#(K1216) and (1) 3/8" flat washer P#(K0047) PER SIDE. Use the flat washer on the slotted holes in the lower main frame.

2-3 Outer Engine Mount Bracket and Outer Engine Mount Tube Installation

Xcaliber and Classic Series: Fasten the (2) outer engine mount brackets P#(B0569) to the rear frame of the mower using (2) 3/8"-16 x 2-1/4" u-bolt P#(K1436), (2) 3/8" flat washers P#(K0047) and (4) 3/8"-16 nyloc nut P#(K1216) (Per Bracket) as shown in Figure 2-3a. Use flat washers on the slotted holes.

From the underside of the mower, fasten the outer engine mount tube P#(B1117) to the outer engine mount brackets using (1) 3/8"-16 x 2-1/8" u-bolt P#(K1119), (2) 3/8" flat washers P#(K0047) and (2) 3/8"-16 nyloc nut P#(K1216) (Per Bracket). Use flat washers on the slotted holes. Position the outer engine mount tube so that 5" to 6" of the tube protrudes from the rear mower frame (Figure 2-3a). Tighten all hardware at this time. Refer to Figure 2-3a and 2-3b for reference.

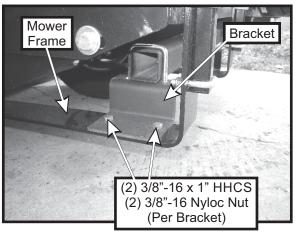


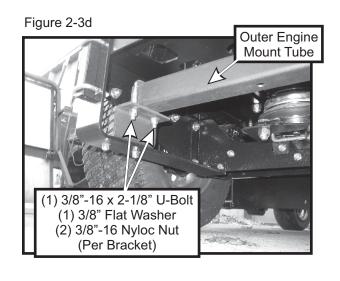


Silver Eagle Series: Fasten the (2) outer engine mount brackets P#(B0570) to the rear frame of the mower using (2) 3/8"-16 x 1" HHCS P#(K1191) and (2) 3/8"-16 nyloc nut P#(K1216) (Per Bracket). Refer to Figure 2-3c for reference.

From the underside of the mower, fasten the outer engine mount tube P#(B1117) to the outer engine mount brackets using (2) 3/8"-16 x 2-1/8" u-bolts P#(K1119), (2) 3/8" flat washers P#(K0047) and (4) 3/8"-16 nyloc nuts P#(K1216). Position the outer engine mount tube so that 5" to 6" of the tube protrudes from the rear mower frame (Figure 2-3a). Tighten all hardware at this time. Refer to Figure 2-3c and 2-3d for reference.

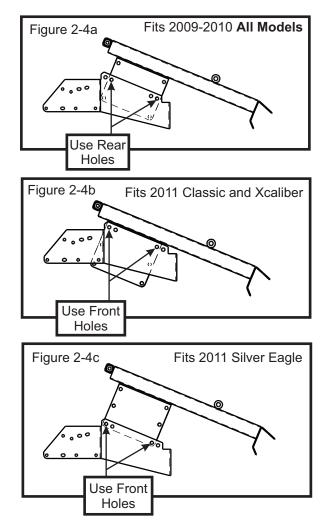




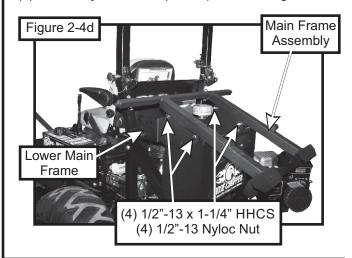


2-4 Main Frame Assembly Installation

The main frame assembly P#(A1097) is designed to fit the Silver Eagle, Classic and Xcaliber series mowers from 2009 to 2011. Review Figure 2-4a thru 2-4c for specific mounting hole locations that correspond to your mower model and year.

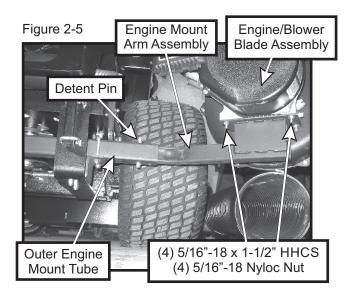


Secure the main frame assembly to the lower main frame using (4) 1/2"-13 x 1-1/4" HHCS P#(K1232) and (4) 1/2"-13 nyloc nuts P#(K1247). Refer to Figure 2-4d.



2-5 Engine Mount Arm Assembly and Engine/Blower/Blade Assembly Installation

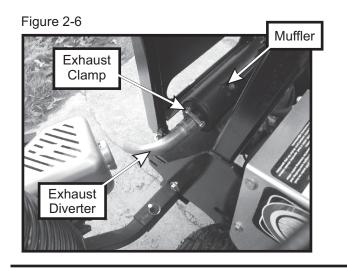
Slide the engine mount arm assembly P#(A0503) into the outer engine mount tube and align the holes on both parts. Secure the engine mount arm assembly with (1) detent pin P#(J0248). Position the engine/blower/blade assembly on top of the engine mount arm assembly and fasten with (4) 5/16"-18 x 1-1/2" HHCS P#(K1157) and (4) 5/16"-18 nyloc nuts P#(K1180). Refer to Figure 2-5 for reference.



2-6 Exhaust Diverter Installation

<u>Note:</u> The exhaust diverter is used on the Silver Eagle Series mower only.

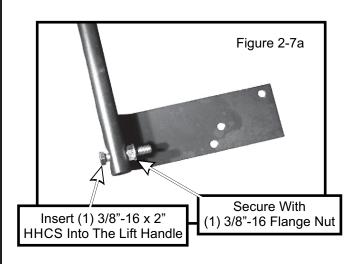
Remove the existing exhaust diverter. Insert the new exhaust diverter P#(J0282) onto the muffler and fasten using (1) exhaust clamp P#(X1064). Position the exhaust diverter as shown in Figure 2-6.



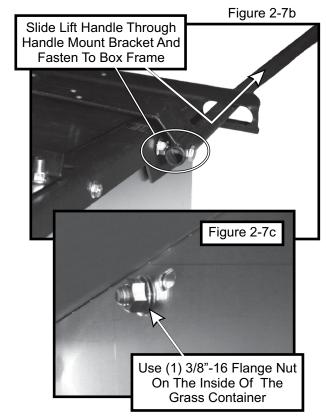
2-7 Lift Handle Installation

NOTE: Before continuing the lift handle installation, have someone assist you in turning the grass container upside down.

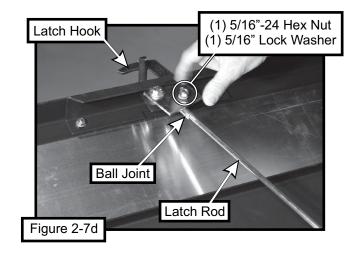
Insert (1) 3/8"-16 x 2" HHCS P#(K1208) into the lift handle P#(A0273), and secure with (1) 3/8"-16 flange nut P#(K1215). Thread the flange nut onto the bolt upside down, as shown in Figure 2-7a.



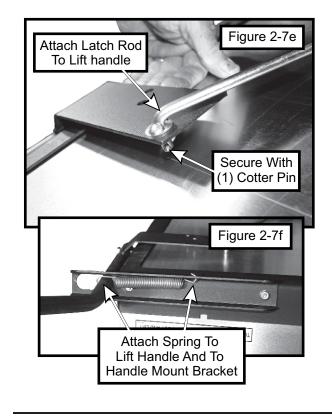
Slide the lift handle through the slot on the handle mount bracket. Insert the lift handle into the box frame as shown in Figure 2-11b, and secure using (1) 3/8"-16 flange nut P#(K1215) on the inside of the container as shown in Figure 2-7c.



Fasten the ball joint P#(K1442) to the end of the latch rod P#(A0620). Tighten the ball joint to approximately half way down the threads on the latch rod. Attach the ball joint to the latch hook as shown in Figure 2-7d, using (1) 5/16"-24 hex nut P#(K1444) and (1) 5/16" lock washer P#(K0043).



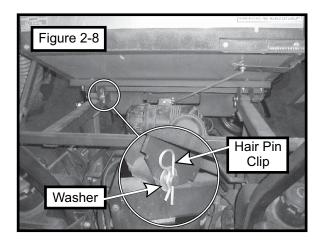
Attach the other end of the latch rod to the lift handle, as shown in Figure 2-7e. Attach on end of the spring P#(J0176) to the lift handle and the other end of the spring to the handle mount bracket as shown in Figure 2-7f. Adjust the ball joint up or down on the latch rod threads until the latch hook closes completely. After adjusting the latch hook, secure the latch rod to the lift handle using (1) cotter pin P#(K0094).



2-8 Aluminum Grass Container Installation

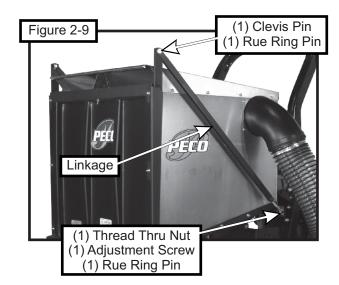
NOTE: It is recommended that (3) people assist in mounting the container.

With three people available, two can lower the container onto the frame while the third person inserts the pivot pins P#(K0172) through the holes. Insert the pins from the outside to the inside. Secure with (1) 5/8" washer P#(K0058) and (1) 5/32" x 2-5/8" hair pin clip P#(K0088) per pivot pin. Refer to Figure 2-8. To test the functionality of the dump mechanism, pull the lift handle away from the unit, and lift upward (Page 15). The door of the container should open and the box should pivot clockwise towards the ground.



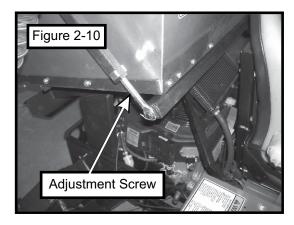
2-9 Door Linkage Installation

Insert (1) thread thru nut P#(K1422) into the end of the door linkage P#(B2526) with the square cutout. Thread the adjustment screw P#(K1435) into the thread thru nut. Attach (2) door linkages to the box assembly door frame using (1) clevis pin P#(K1418) and (1) rue ring pin P#(K1437) PER LINKAGE. Secure the adjustment screw to the main frame assembly using (1) rue ring pin P#(K1347). Refer to Figure 2-9.



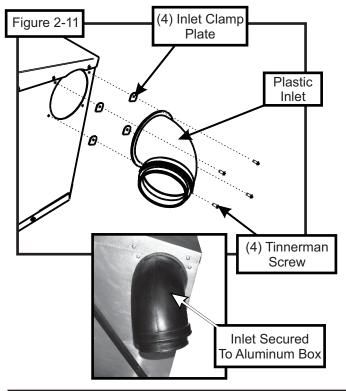
2-10 Dump Mechanism Adjustment

The linkage may be adjusted in two places, at the adjusting screw P#(K1435) and the latch assembly items. See page 11 for visual clarification. To change the door closure tightness, screw the adjusting screw (Figure 2-10) in or out. To adjust the latch, change the length of the latch rod by screwing the latch adjusting ball joint in or out. The latch hook pivot should be in the middle of the slot in the latch hook pivot plate. Slide the pivot back or forth and then re-tighten.



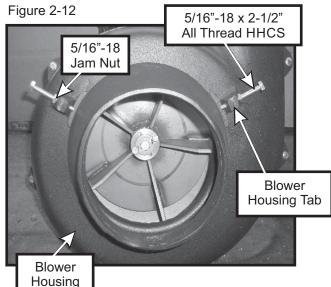
2-11 Inlet Installation

Remove the (4) tinnerman screws P#(K1092) and (4) inlet clamp plates P#(B1668) from the inlet opening on the aluminum box. Insert the plastic inlet from the inside of the aluminum box, through the inlet opening. Secure the inlet with (4) tinnerman screws and (4) inlet clamp plates. Refer to Figure 2-11.



2-12 Blower Cone Installation

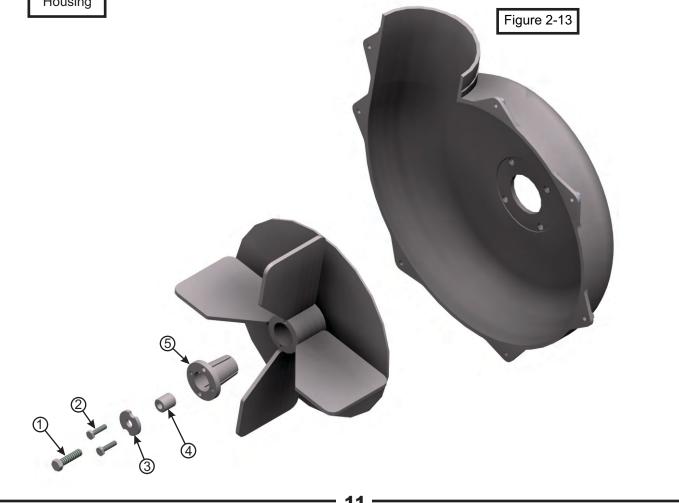
Thread (1) 5/16"-18 jam nut P#(K0120) onto each end of (2) 5/16"-18 x 2-1/2" HHCS P#(K0125). Now partially thread the bolts into each of the two tabs located on the blower housing. Place blower cone so the two tabs line up with the bolts then tighten completely. See Figure 2-12.



2-13 Impeller Blade Removal/Replacement

To Remove: First remove the 3/8"-16 x 1-1/2" HHCS P#(K1211) (#1), taper lock bushing washer P#(K0278) (#3) and spacer bushing P#(S3242) (#4) from the taper-lock bushing (#5). See Figure 2-13. Next remove the (2) 1/4"-20 x 1" HHCS (#2) and place them into the threaded holes of the taper-lock bushing P#(S4302) (#5). 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, carefully hit the base of the impeller, between each vein, with a hammer, then try again.

<u>To Replace</u>: Place impeller blade over the engine shaft. Slide the taper-lock bushing (#5) on to the engine shaft and into the impeller blade, aligning the **non-threaded** holes of the taper-lock bushing to the threaded holes of the impeller blade. Fasten by using (2) 1/4"-20 x 1" HHCS (#2), (1) spacer bushing (#4) (1) taper lock bushing washer (#3), and (1) 3/8"-16 x 1-1/2" HHCS (#1). Torque to the proper specifications in the torque chart on the back of this manual. Next, rotate the impeller blade to ensure that the blade is clear of contact on all sides of the blower housing.

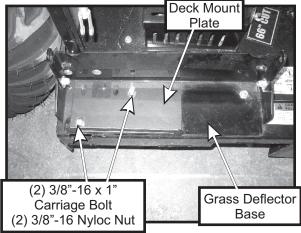


2-14 Boot to Mower Deck installation

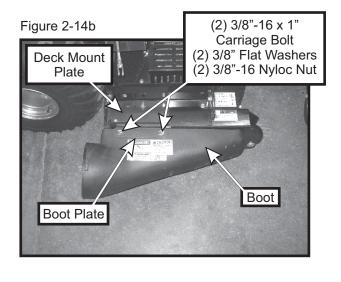
66" Mower Deck Instructions:

Remove (2) carriage bolts and (2) flange nuts from the grass deflector base. Fasten the deck mount plate P#(B1719) to the mower deck, where the existing hardware was removed, using (2) 3/8"-16 x 1" carriage bolt P#(K1182) and (2) 3/8"-16 nyloc nut P#(K1216). Insert the carriage bolts from the underside of the deck, so that the nyloc nuts are on top of the deck. Refer to Figure 2-14a for reference.

Figure 2-14a

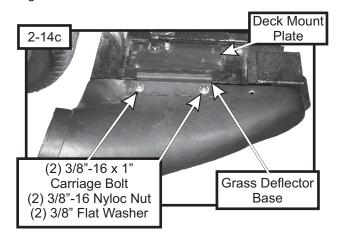


Fasten the boot plate P#(B1696) to the aluminum boot P#(E2411) using (2) 3/8"-16 x 1" carriage bolts P#(K1182), (2) 3/8" flat washers and (2) 3/8"-16 nyloc nut P#(K1216). Insert the carriage bolts from the inside of the boot so that the nyloc nuts are on the outside. This will prevent grass clipping from collecting on the bolts. Attach the boot and boot plate to the deck mount plate by tilting the boot forward and inserting the boot plate into the slot on the deck mount plate. See Figure 2-14b for reference.



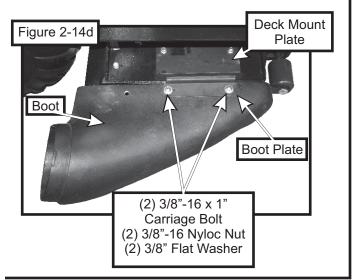
50" Mower Deck instructions:

Remove (2) carriage bolts and (2) flange nuts from the grass deflector base. Fasten the deck mount plate P#(B1719) to the mower deck, where the existing hardware was removed, using (2) 3/8"-16 x 1" carriage bolt P#(K1182) and (2) 3/8"-16 nyloc nut P#(K1216). Insert the carriage bolts from the underside of the deck, so that the nyloc nuts are on top of the deck. Fasten the boot plate P#(B1696) to the aluminum boot P#(E2408) using (2) 3/8"-16 x 1" carriage bolts P#(K1182), (2) 3/8" flat washers P#(K0047) and (2) 3/8"-16 nyloc nut P#(K1216). Tilt the boot plate upward and slide into the slot on the deck mount plate. Tighten all hardware. Refer to Figure 2-14c.



60" Mower Deck instructions:

Remove (2) carriage bolts and (2) flange nuts from the grass deflector base. Fasten the deck mount plate P#(B1719) to the mower deck, where the existing hardware was removed, using (2) 3/8"-16 x 1" carriage bolt P#(K1182) and (2) 3/8"-16 nyloc nut P#(K1216). Insert the carriage bolts from the underside of the deck, so that the nyloc nuts are on top of the deck. Fasten the boot plate P#(B1696) to the aluminum boot P#(E2408) using (2) 3/8"-16 x 1" carriage bolts P#(K1182), (2) 3/8" flat washers P#(K0047) and (2) 3/8"-16 nyloc nut P#(K1216). Tilt the boot plate upward and slide into the slot on the deck mount plate. Tighten all hardware. Refer to Figure 2-14d.



2-15 Length Of Hose Adjustment

The hoses in steps 2-16 and 2-17 must be cut to fit your machine. Follow steps 2-16 and 2-17. Do not cut the hoses until you have tried to fit them on your machine. Remember that the hoses have to be long enough to allow for enough clamping surface between the inlet, blower assembly, and the deck boot, but have to remain short enough to prevent hose "kinks".

2-16 Upper Hose Installation

Slide a 6" hose clamp P#(J0060) onto both ends of the 6" upper hose P#(F0001) (Figure 2-18a). Then slide one end of the 6" hose onto the inlet. Make sure there is about a two-inch overlap between the hose end and the container inlet. Proceed to slide the opposite end of the 6" hose onto the outlet of the blower assembly. See Figure 2-18 for details. Make sure both ends of the hose are clearly attached to the inlet and the blower assembly inlet. Tighten the hose clamps.

2-17 Lower Hose To Blower Cone

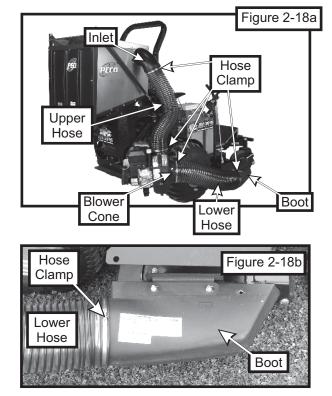
Installation

Slide a 8"-9" hose clamp P#(J0080-J0090) over both ends of the lower hose. Then proceed to slide the lower hose onto the blower cone. Tighten the hose clamp. The assembly should look like Figure 2-18a.

Note: Classic and Silver Eagle series uses 8" lower hose. Xcaliber series uses 9" lower hose.

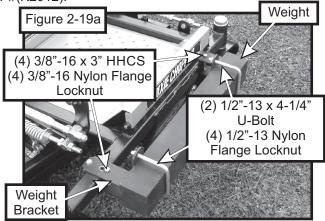
2-18 Lower Hose To Boot Installation

Take the unattached end of the lower hose and slide it over the circular end of the boot. Use the lower hose clamp to secure the hose to the boot (Figure 2-18b). Tip: Before securing clamp rotate hose counter-clockwise (away from yourself) approximately 1" to add in retaining boot to mower deck.

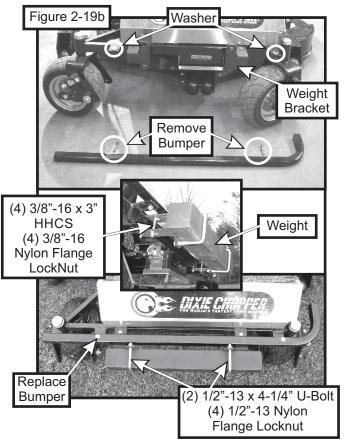


2-19 Front Weight Installation

Silver Eagle Series Installation: Fasten the (2) weight brackets P#(B0383) to the front bumper of the mower using (4) 3/8"-16 x 3" HHCS P#(K1198) and (4) 3/8"-16 nylon flange locknuts P#(K2038), as shown in Figure 2-19a. Use a rolling floor jack or someone to help you lift the weight P#(B2220) into position and fasten the weight to the weight brackets using (2) 1/2"-13 x 4-1/4" U-bolts P#(K0331) and (4) 1/2"-13 nylon flange locknuts P#(K2012).



Classic and Xcaliber Series Installation: Remove the front bumper and hardware from the mower as shown in Figure 2-15b. Place (2) washers P#(K1446) on the bumper mounting holes (Figure 2-19b). Follow the same installation procedure used on the Silver Eagle series. Replace bumper with existing hardware after weight has been installed.

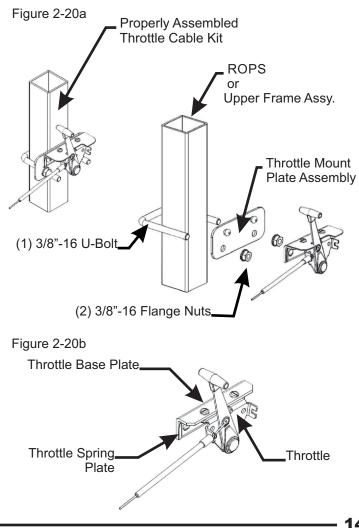


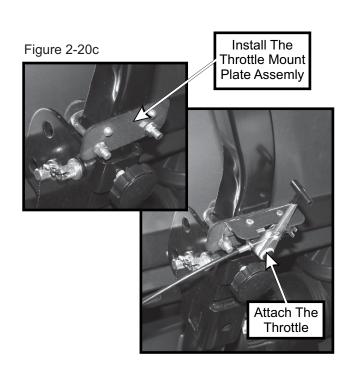
2-20 Throttle Cable Installation

To install the throttle cable kit to the ROPS (roll over protection system), place the 3/8" U-Bolt P#(K0136) onto the ROPS with the threads facing the front of the mower. Next slide on the throttle mount plate assembly P#(A0666) with the rivets also facing toward the front of the mower. Tighten the throttle mount plate assembly securely to the ROPS using (2) 3/8"-16 nyloc nuts P#(K1216) (Figure 2-20a). With the throttle cable facing toward the engine/blower/blade assembly, place the throttle base plate over the rivets, Slide the throttle cable kit to the right, moving the smaller end of the slot over the rivets. When positioned correctly, the throttle spring plate will snap into place (Figure 2-20b).

NOTE: If mower is not equipped with a ROPS Intall the throttle cable kit to the top frame assembly P#(A0585) using the same steps as above. Make sure to locate the throttle cable kit were it can be easily accessed from the operator's seat.

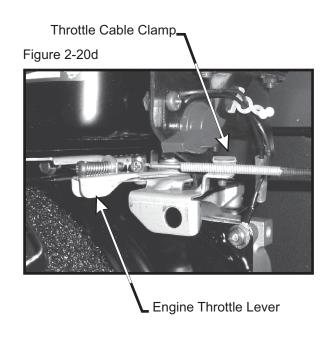
To remove the throttle cable kit, lift the throttle spring plate and slide the throttle kit to the left.

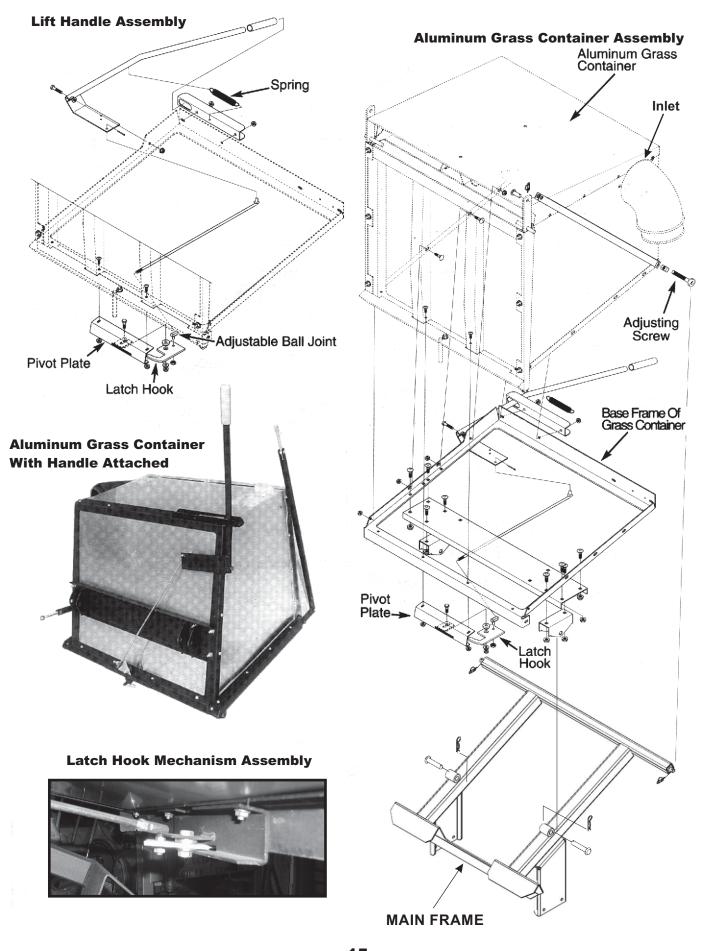


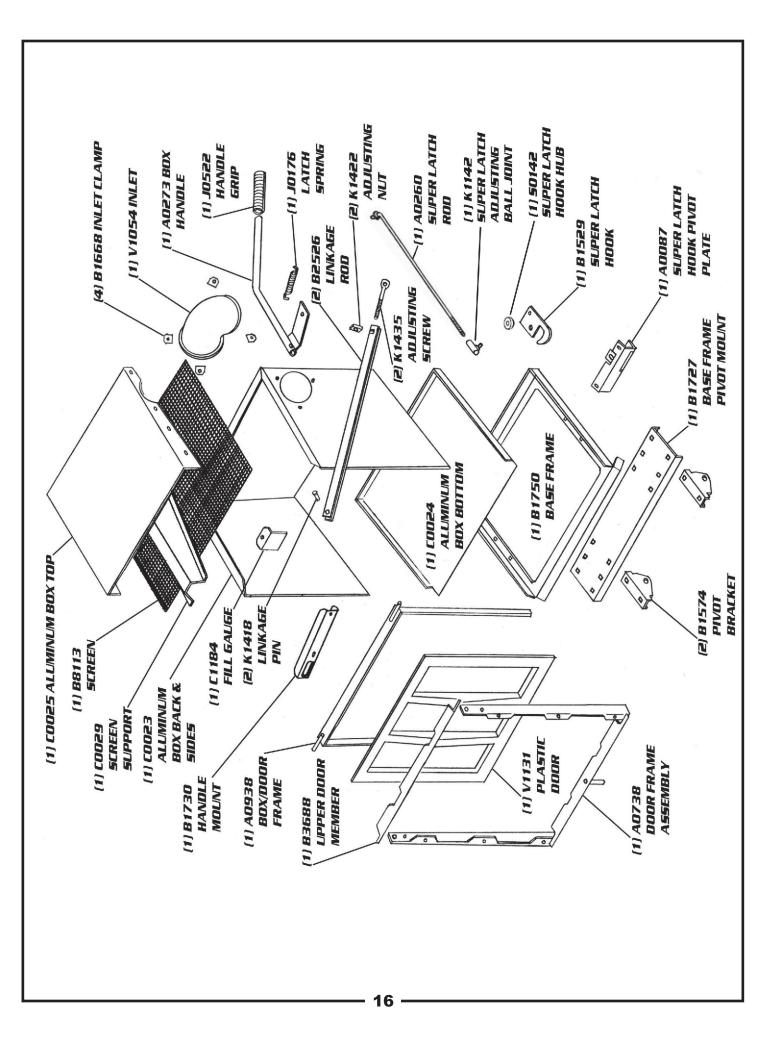


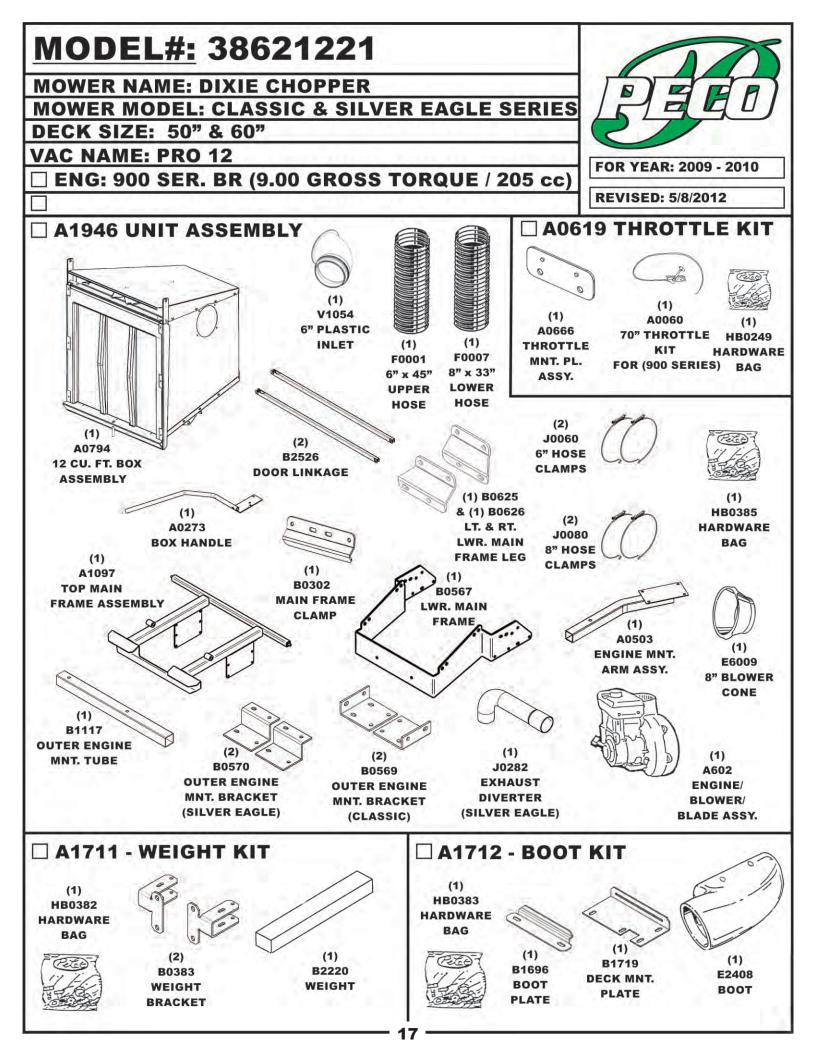
To fasten the throttle cable end to the engine, place the throttle control lever into the "stop" position. Rotate the engine throttle lever to the "stop" position. Thread the wire end of the throttle cable into the engine throttle lever eyelet and tighten the screw. Fasten the throttle cable sleeve to the clamp on the engine throttle. Rotate the throttle control lever into the "fast" position to check for proper installation.

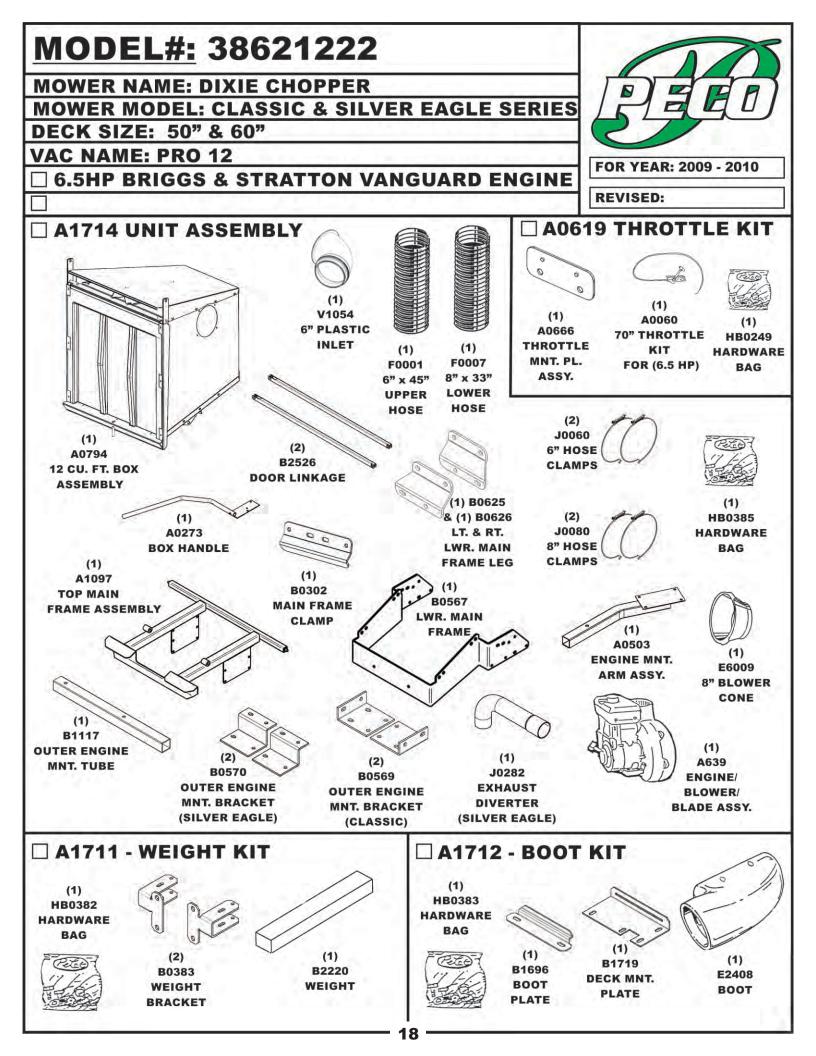
Note: Cable sleeve may need to be cut depending on the engine type. Once throttle cable is attached, pull the box handle to dump the box and be sure the cable does not alter the movement of the box.

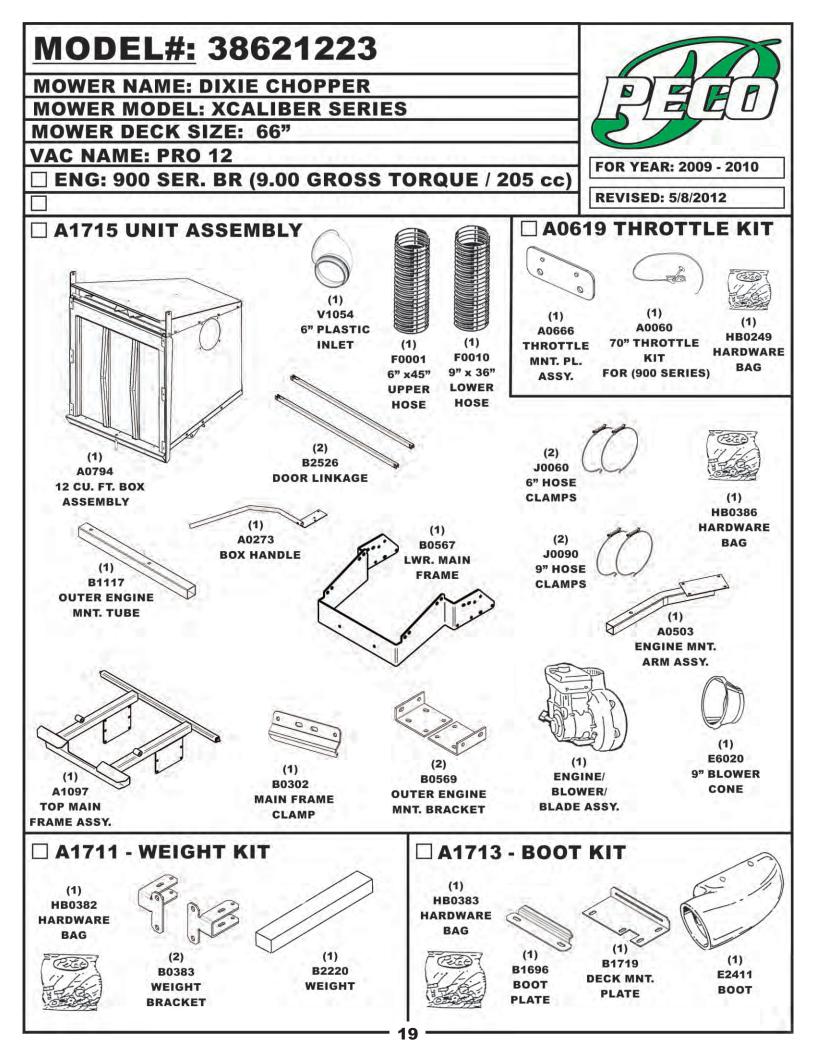


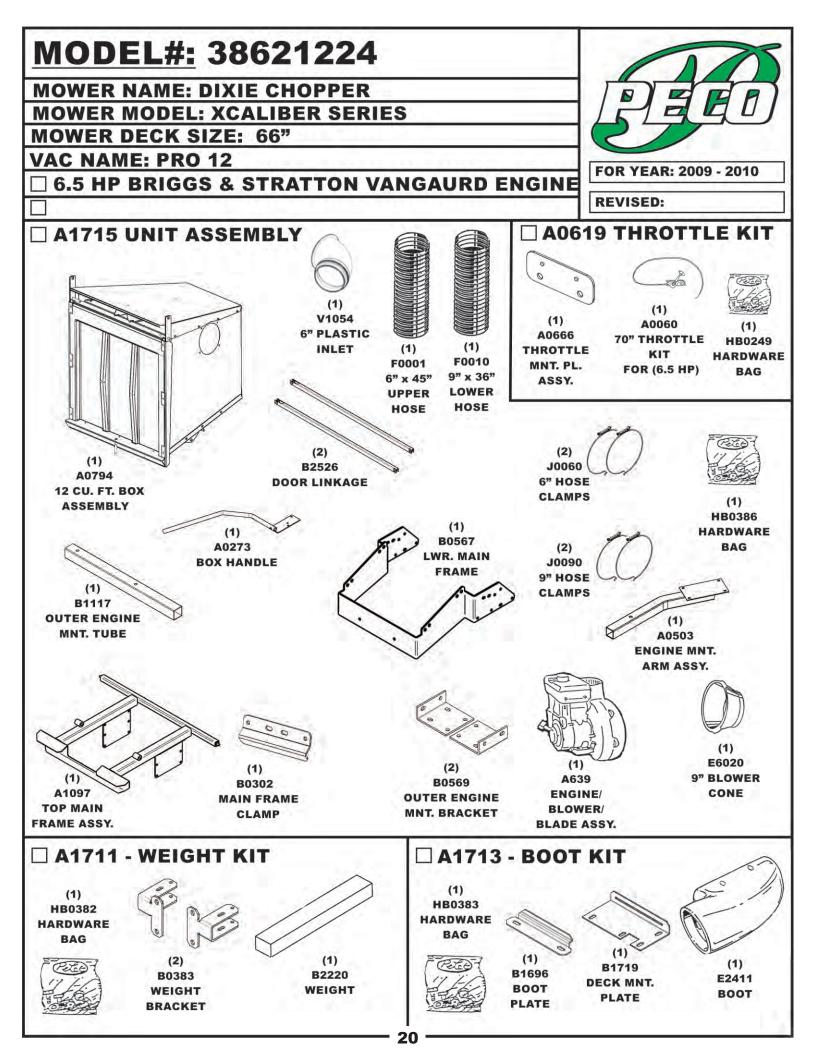












SECTION III OPERATING INSTRUCTIONS

3-1 General Safety

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

3-2 Operation & Tips On Mowing

- A. Perform BEFORE EACH USE maintenance list in paragraph 4-1.
- 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, and blower, engage the parking brake and turn the mower 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.

3-3 Unloading The Collection System

Note: Press the tab, located behind the operator's left side, downward to feel if the collection system is full. If the container is full there will be resistance when depressing the tab.

- A. Stop the forward movement of the mower.
- B. Disengage the mower deck.
- C. Using the throttle cable slow the engine down to idle.
- D. Push the dump handle, on the left of the operator, away from the unit. While holding the handle pushed away, move the handle upward. The container door will swing upward and the container will rotate downward. The container will release its contents.
- E. 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

4-1 Maintenance Checklist

Before each use:

- 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.
- 3. 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.
- 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:

- 1. Clean all debris from machine especially from the container, and off of safety decals. Replace any missing or illegible decals.
- 2. Clean all debris from the box screen.
- 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.



SAFETY DECALS

To promote safe operation, PECO supplies safety decals on all products manufactured. Damage can occur to safety decals either through shipment, use or reconditioning. Contact your local Service Center for replacement decals.



TORQUE SPECIFICATIONS Proper toque for American fasteners used on Peco equipment.											
AMERICAN Recommended Torque in Foot Pounds (Newton Meters).*											
Bolt Head	Markings	WRENCH SIZE (IN.) "A	(IN.	DIAMETER) "B" AND READ SIZE	SAE GRADE 2		AE DE 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)			
	SAE Grade 2 (No Dashes)	1/2	5/16	- 24 UNF	13 (17)	19	(26)	27 (37)			
	(No Bushoo)	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	1/2 - 13 UNC		76 (103)	106 (144)			
		3/4	1/2	- 20 UNF	55 (75)	85 (115)	120 (163)			
			9/16	- 12 UNC	70 (95) 1		(148)	153 (207)			
SAE Grade 5 (3 Dashes)		7/8	9/16	9/16 - 18 UNF		122	(165)	172 (233)			
		15/16	5/8	5/8 - 11 UNC		97 (131) 150		212 (287)			
		15/16	5/8	5/8 - 18 UNF		170	(230)	240 (325)			
		1-1/8		- 10 UNC	144 (195)		(360)	376 (509)			
	Dianeter B	1-1/8		- 16 UNF	192 (260)	297	(402)	420 (569)			
	iameter 1	1-5/16		- 9 UNC	166 (225)		(583)	606 (821)			
	Dia			- 14 UNF	184 (249)		(642)	668 (905)			
		1-1/2		- 8 ŲNC	250 (339)		(873)	909 (1232)			
Wrench	SAE Grade 8	1-1/2		12 UNF	274 (371)		(955)	995 (1348)			
Size "A"	(6 Dashes)	1-1/2		14 UNF	280 (379)		(977)	1019 (1381)			
\	(0 - 00.000)	1-11/16		8 - 7 UNC	354 (480)		1077)	1288(1745)			
•		1-11/16 1-7/8		3 - 12 UNF	397 (538)	890 (1206)		1444 (1957)			
	· · · · · · · · · · · · · · · · · · ·		1-1/4 - 7 UNC		500 (678)		· /	1817 (2462)			
		2-1/16	1-1/4 - 12 UNF		553 (749)	1241 (1682)		2013 (2728)			
_		2-1/16	1-3/8 - 6 UNC 1-3/8 - 12 UNF		655 (887) 746 (1011		· /	2382 (3228) 2712 (3675)			
		2-1/4		1-1/2 - 6 UNC				3161 (4283)			
		2-1/4		2 - 12 UNF	870 (1179) 979 (1327		(2973)	3557 (4820)			
Proper torque for metric fasteners used on Peco equipme											
	Diameter "B"		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)				
Wrangh			10	6 8	3 (4) 7.3 (10)		8.7 (12) 21.1 (29)	11.1 (15)) 27 (37)			
Wrench Size "A" Numbers appearing on bolt heads indicate ASTM class.			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					
			24	16 20	62 (84) 122 (165)	167 (226) 325 (440)	181 (245) 230 (312) 449 (608)			
			33	22	(/	443 (600)		611 (828)			
*Use 75% of the specified torque value for plated fasteners. Use 85% of the specified torque values for lubricated fasteners.		36	24	211 (286)	563 (763)		778 (1054)				
			41 46	27 30	418 (566)	821 (1112) 1119 (1516)		1138 (1542) 1547 (2096)			
							I	1047 (2000)			

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NOTES:



10 WALDEN DRIVE ARDEN, NORTH CAROLINA 28704 (800) 438-5823 OR (828) 684-1234 FAX: (828) 684-0858 EMAIL: peco@lawnvac.com WEBSITE: www.lawnvac.com