

PTO-X DRIVEN - GRASS COLLECTION SYSTEM Model# 23651201

Predator Pro RS ProCat MX & ProCat 52" & 61" DECK **MODEL YEAR:** WERS 2019 - Newer PRO

6000 Series, 6000MX Series, 7001 & 7002 Series

OPERATOR'S MANUAL

ASSEMBLY • OPERATION • MAINTENANCE

MANUAL PART#: Q0548

Initial Release - Nov 2019

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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.
- Know the controls and how to stop them guickly. READ THE OPERATOR'S MANUAL! 2.
- 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.
- Do not attempt to operate your machine when not in the driver's seat. 6.
- **7.** Always shut off blades and engine when emptying the container.
- Stop machine, shut off deck attachment, set parking brake, shut off engine and remove ignition key before 8. removing clogs, removing or replacing hose, boot, blower cone, or performing any maintenance.
- Mow across the face of slopes (not more than 10 degrees); never up and down the face. 9.
- **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.



White letters on RED

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



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.

This signal word indicates a potentially hazardous situation which, if not

It may also be used to alert against unsafe practices.

avoided, will result in minor or moderate injury.

It may also be used to alert against unsafe practices.

2017 (v1.0)

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 within 90 days or 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 the date of delivery of the product to the original purchaser when the date of delivery of the product to the original purchaser when the date of delivery of the product to the original purchaser when the date of delivery of the product to the original purchaser when the date of delivery of the product to the original purchaser when the date of delivery of the product to the original purchaser when the date of delivery of the product to the original purchaser when the date of delivery of the product to the original purchaser when the date of delivery of the product to the original purchaser when the date of delivery of the product to the original purchaser when 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.

Section I - INTRODUCTION AND DESCRIPTION

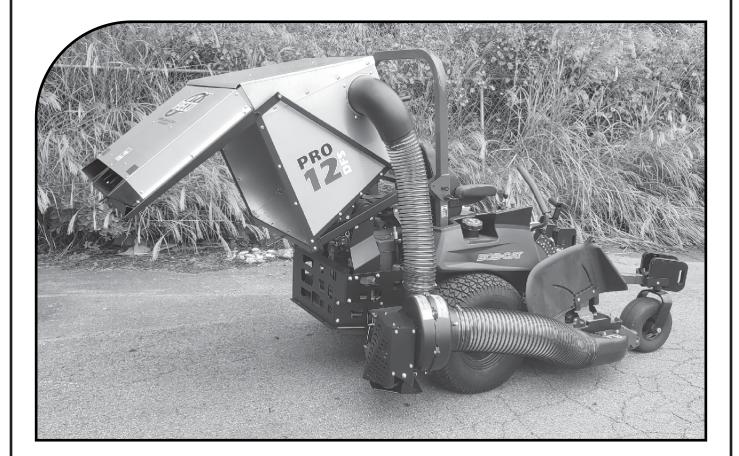
Introduction

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. The manuals are provided to give you the necessary instructions to properly mount, operate and maintain 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 grass 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 used for picking up leaves in pre-season and post-season cleanup. The blower, mounted on the right side of the unit, uses a belt and gearbox system from the engine PTO shaft. Drive train protection comes through belt slippage. The blower draws grass clippings from the discharge area of the cutting deck back to the collection bags at the rear portion of the mower frame. The operator can engage the blower by switching the PTO Switch to the ON position. Once the collection unit is full with clippings, it can be easily released for dumping.



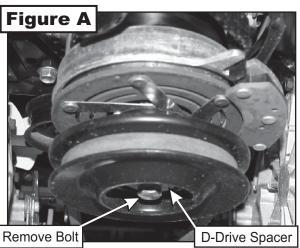
Section II - INSTALLATION FOR USE

Preparation Of Mower

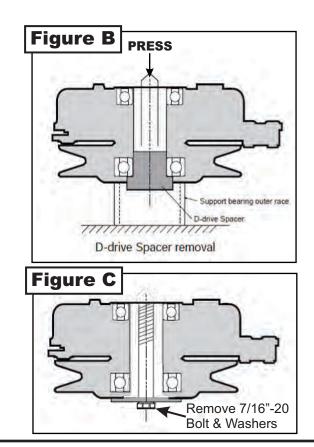
NOTE: The mower deck PTO belt must be removed from the electric clutch before continuing with the installation. Refer to your mower's owner's manual for instructions on PTO belt removal.

NOTE: Engine Pulley Installation is for PTO Models only.

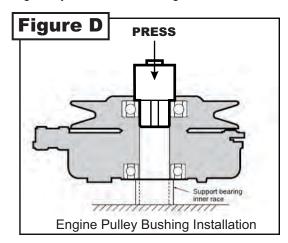
From the underside of the engine, disconnect the wiring harness attached to the electric clutch. Remove the bolt and electric clutch from the mower. Refer to Figure A.



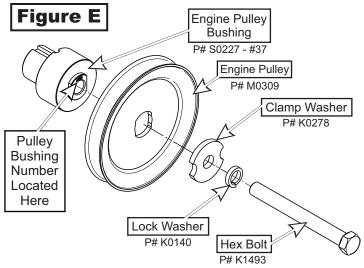
Upon removal of clutch determine if your mower is equipped with a D-drive spacer. If so, proceed to Figure B. If your mower is equipped with a bolt, fender and lock washer without D-drive spacer proceed to Figure C. Remove the D-drive spacer using an arbor press or equivalent. On removal, adjacent bearing OUTER race must be supported or bearing damage may occur. Refer to Figure B.



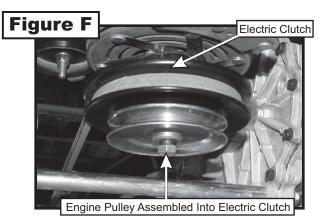
The engine pulley assembly must be installed using an arbor press or equivalent. During installation, opposite bearing inner race must be supported or bearing damage may occur. Refer to Figure D.



Once the Engine Pulley Bushing is installed, reattach the clutch assembly & deck PTO belt to the mower and then review Figure E.



To assemble and fasten the Engine Pulley, align the Engine Pulley Bushing to the mower's clutch pulley and fasten using (1) Clamp Washer, (1) Lock Washer, and (1) Hex Bolt. <u>Torque the bolt to 55 ft./lbs.</u> The added pulley will power the collection system and should resemble Figure F when installed.



Preparation of Mower (Continued)

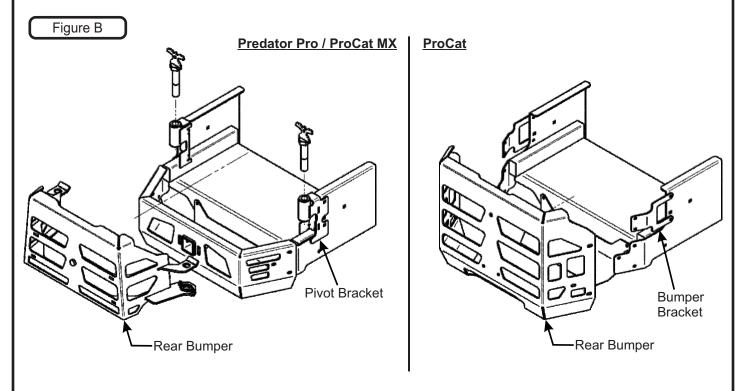
Before installing your Grass Collection Unit, remove the mower's rear bumper, and if applicable, the lower hardware securing the oil cooler. Refer to Figures A and B below.

After removing the lower hardware securing the oil cooler, gently lift the oil cooler up and over the engine towards the rear of the operator's seat.

Note: Some parts and features have been hidden from view for visual clarity.



Note: Set aside the lower hardware used to secure the oil cooler as it will be reinstalled later.



Note: When removing the bumper, do not remove the Pivot Brackets or the Bumper Brackets.

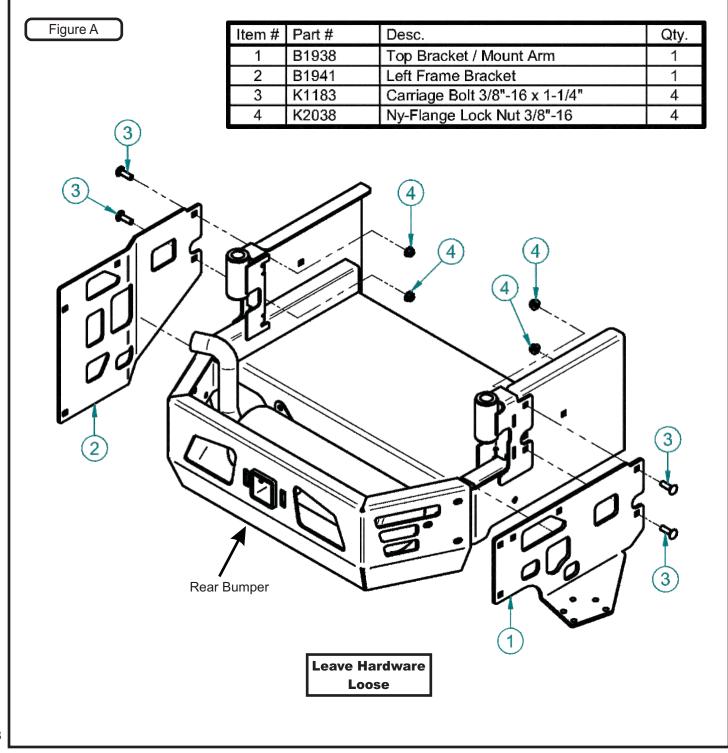
Left Frame Bracket & Top Bracket / Mount Arm Installation

Position the Left Frame Bracket (Item #2) to the left side of the mower and align the bolt holes of the Left Frame Bracket to those of the left rear mower. If applicable, before securing the Left Frame Bracket, reposition and align the left side of the lower oil cooler bracket holes. Then secure the Left Frame Bracket and the left side of the lower oil cooler bracket by using (2) 3/8"-16 x 1-1/4" Carriage Bolts (Item #3), (2) 3/8"-16 Ny-Flange Lock Nuts (Item #4) and the previously removed hardware. Refer to Figure A Below.

Next, position the Top Bracket / Mount Arm (Item #1) to the right side of the mower and align the bolt holes of the Top Bracket / Mount Arm to those of the right rear mower. If applicable, before securing the Top Bracket / Mount Arm, reposition and align the right side of the lower oil cooler bracket holes. Then secure the Top Bracket / Mount Arm and the right side of the lower oil cooler bracket by using (2) 3/8"-16 x 1-1/4" Carriage Bolts (Item #3), (2) 3/8"-16 Ny-Flange Lock Nuts (Item #4) and the previously removed hardware. Refer to Figure A Below.

Note: Some parts and features have been hidden from view for visual clarity.

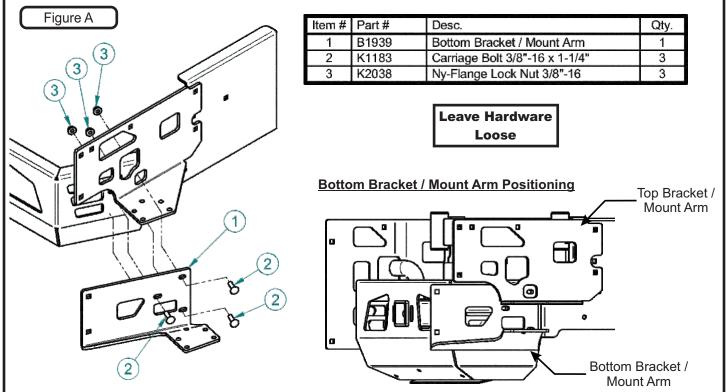
Leave all hardware relatively loose until the end of the Rear Frame Bracket Installation on the next page.



Bottom Bracket / Mount Arm Installation

Position the Bottom Bracket / Mount Arm (Item #1) under the Top Bracket / Mount Arm and align the bolt holes of the Bottom Bracket / Mount Arm to the bolt holes located on the bottom right rear of the mower. Refer to Figure A. Secure the Bottom Bracket / Mount Arm by using (3) 3/8"-16 x 1-1/4" Carriage Bolts (Item #2) and (3) 3/8"-16 Ny-Flange Lock Nuts (Item #3).

Note: Leave all hardware relatively loose until the end of the next step. Some parts and features have been hidden from view for visual clarity.



Rear Frame Bracket Installation

Position the Rear Frame Bracket (Item #1) between the Left Frame Bracket & Top Bracket / Mount Arm and align the bolt holes. Loosely secure the Rear Frame Bracket by using (6) 3/8"-16 x 1" Carriage Bolts (Item #2) and (6) 3/8"-16 Ny-Flange Lock Nuts (Item #3). Once the Rear Frame Bracket has been loosely secured, tighten all hardware at this time.

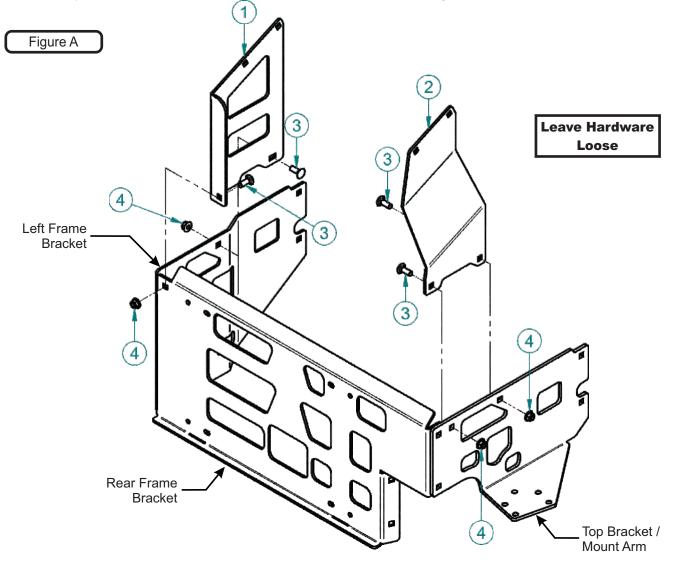
Figure	Tighten Hardward This Tin	e at			
Item #	Part #	Desc.	Qty.	(2) ***	
1	B1940	Rear Frame Bracket	1	ی 🕑	
2	K1182	Carriage Bolt 3/8"-16 x 1"	6	(2)	p 🔞
3	K2038	Ny-Flange Lock Nut 3/8"-16	6		2

Main Frame Legs Installation

To Install the Left Main Frame Leg (Item #1), position and align the bolt holes of the Left Main Frame Leg to those of the Rear Frame Bracket & Left Frame Bracket. Loosely secure the Left Main Frame Leg by using (2) 3/8"-16 x 1" Carriage Bolts (Item #3) and (2) 3/8"-16 Ny-Flange Lock Nuts. Refer to Figure A. Leave hardware relatively loose.

Next, position and align the bolt holes of the Right Main Frame Leg (Item #2) to those of the Top Bracket / Mount Arm. Loosely secure the Right Main Frame Leg by using (2) 3/8"-16 x 1" Carriage Bolts (Item #3) and (2) 3/8"-16 Ny-Flange Lock Nuts. Refer to Figure A. Leave hardware relatively loose until the completion of the Main Frame Assembly Installation on the next page.

Note: Some parts and features have been hidden from view for visual clarity.



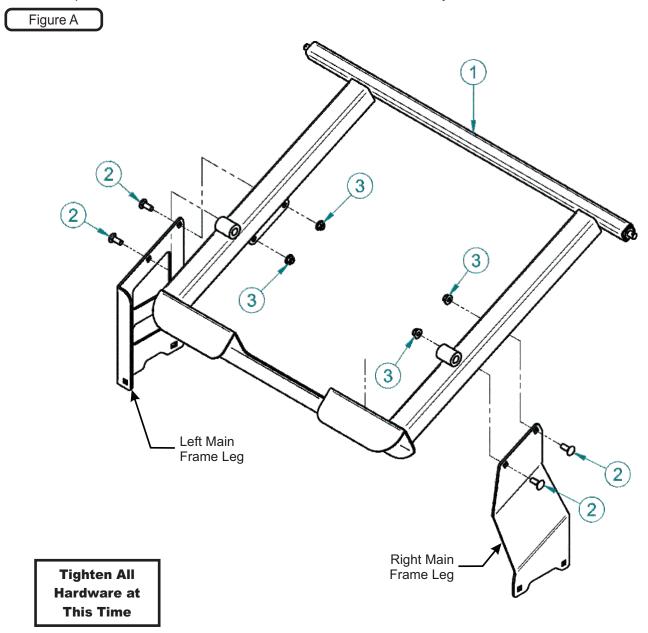
Item #	Part #	Desc.	Qty.
1	B1942	Left Main Frame Leg	1
2	B1943	Right Main Frame Leg	1
3	K1182	Carriage Bolt 3/8"-16 x 1"	4
4	K2038	Ny-Flange Lock Nut 3/8"-16	4

Main Frame Assembly Installation

Position the Main Frame Assembly (Item #1) between the Left & Right Main Frame Legs and align the bolt holes of the Main Frame Assy to those of the Left & Right Main Frame Legs. Loosely secure the Main Frame Assy by using (2) 3/8"-16 x 1" Carriage Bolts (Item #2) and (2) 3/8"-16 Ny-Flange Lock Nuts (Item #3) per side. Refer to Figure A.

Once secured, tighten all hardware at this time.

Note: Some parts and features have been hidden from view for visual clarity.



Item #	Part #	Desc.	Qty.
1	A1192	Main Frame Assembly	1
2	K1182	Carriage Bolt 3/8"-16 x 1"	5
3	K2038	Ny-Flange Lock Nut 3/8"-16	4

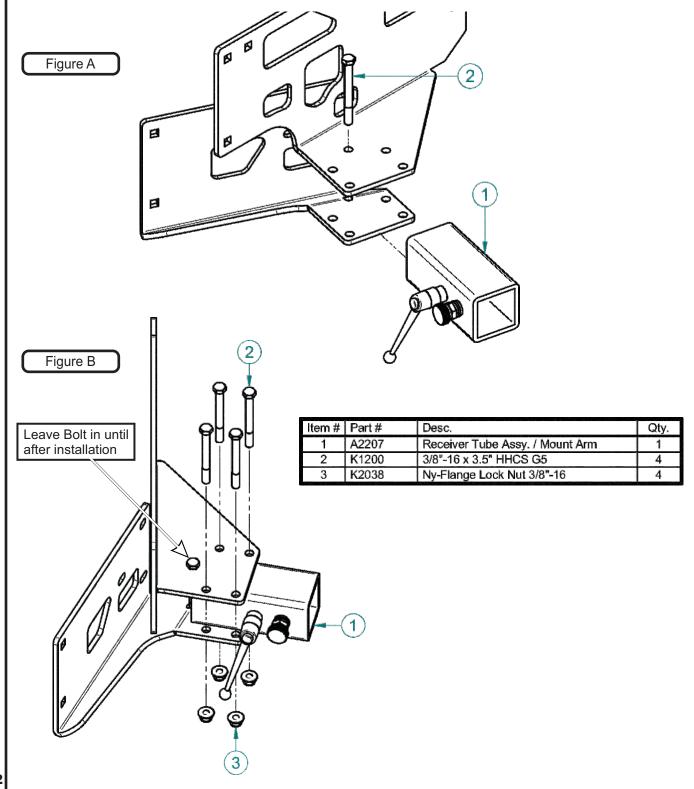
Receiver Tube Assy / Mount Arm Installation

Prepare the installation of the Receiver Tube Assy / Mount Arm (Item #1) by inserting (1) 3/8"-16 x 3-1/2" HHCS (Item #2) into the rear bolt hole on the horizontal tabs of both the Top & Bottom Bracket / Mount Arm. This will serve as a stop to help position the Receiver Tube Assy. Refer to Figure A.

Next, place the Receiver Tube Assy in between the Top & Bottom Bracket / Mount Arm and push the Receiver Tube Assy in until it is stopped by the HHCS. Secure the Receiver Tube Assy by using (4) 3/8"-16 x 3-1/2" HHCS (Item #2) and (4) 3/8"-16 Ny-Flange Lock Nuts (Item #3). Refer to Figure B.

Once the Receiver Tube Assy is secured, remove the extra 3/8"-16 x 3-1/2" HHCS.

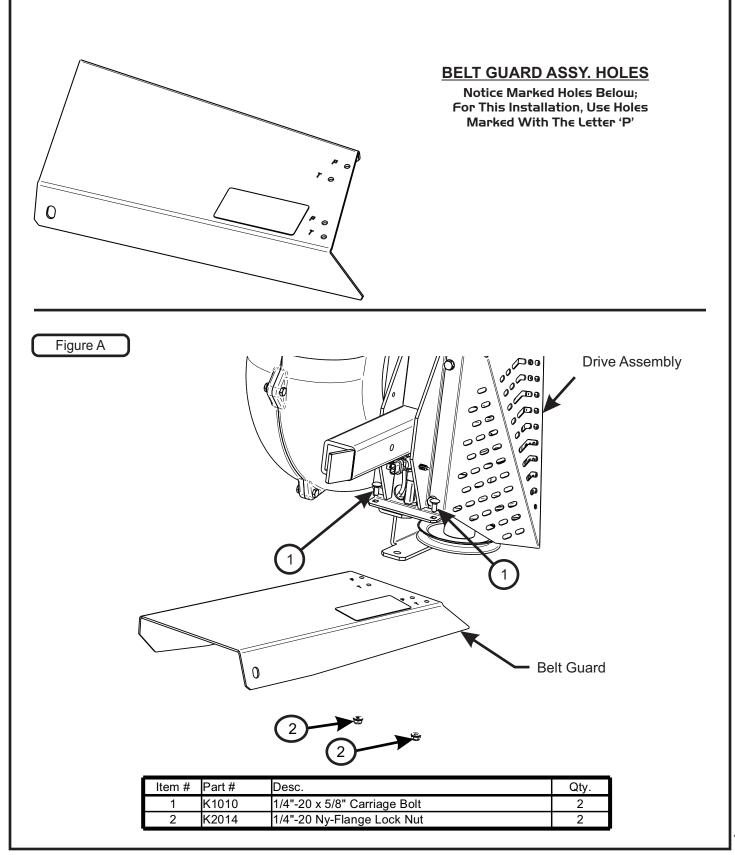
Note: Some parts and features have been hidden from view for visual clarity.



PTO Drive Assembly

Once the Mount Arm Assembly is installed and secured to the mower, assemble the Drive Assembly P#(A2061_01), Belt Guard Assembly P#(A2069_02) & Idler Mount Assembly P#(A2067_02).

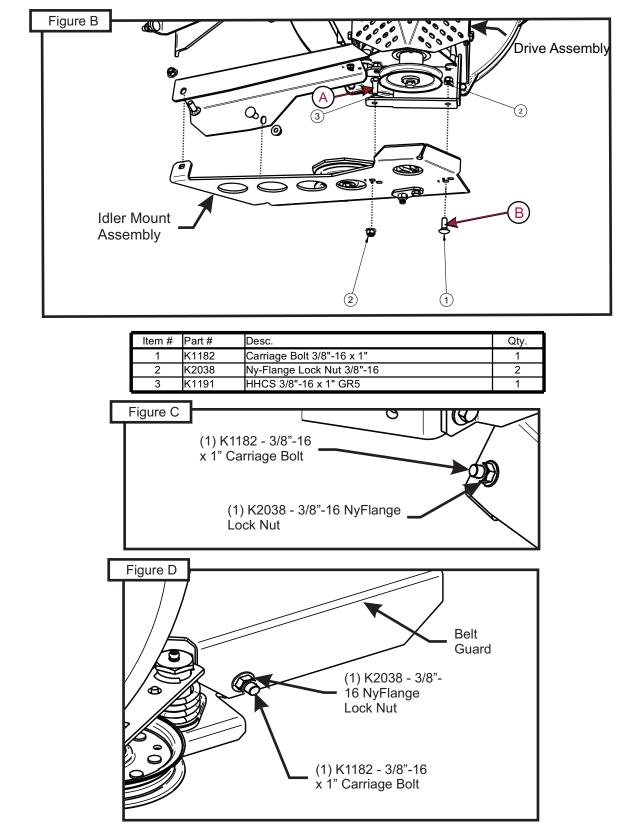
First, attach the Belt Guard Assembly P#(A2069_02) to the Drive Assembly P#(A2061_01) using (2) 1/4"-20 x 5/8" Carriage Bolts P#(K1010) and (2) 1/4"-20 Ny-Flange Lock Nuts P#(K2014). Refer to Figure A. Leave Bolts Loose.



PTO Drive Assembly (Continued)

Attach the Idler Mount Assembly P#(A2067_02) to the Drive Assembly using (1) 3/8"-16 x 1" HHCS (A) P#(K1191), (1) 3/8"-16 x 1" Carriage Bolt (B) P#(K1182) and (2) 3/8"-16 Ny-Flange Lock Nuts P#(K2038). Refer to Figure B. Leave Bolts Loose (Note: Orientation of bolts A & B.)

Next, secure the Idler Mount Assembly P#(A2067_02) to the Belt Guard Assembly P#(A2069_02) using (2) 3/8"-16 x 1" Carriage Bolts P#(K1182) and (2) 3/8"-16 Ny-Flange Lock Nuts P#(K2038). Refer to Figure C & D. Tighten All Bolts.

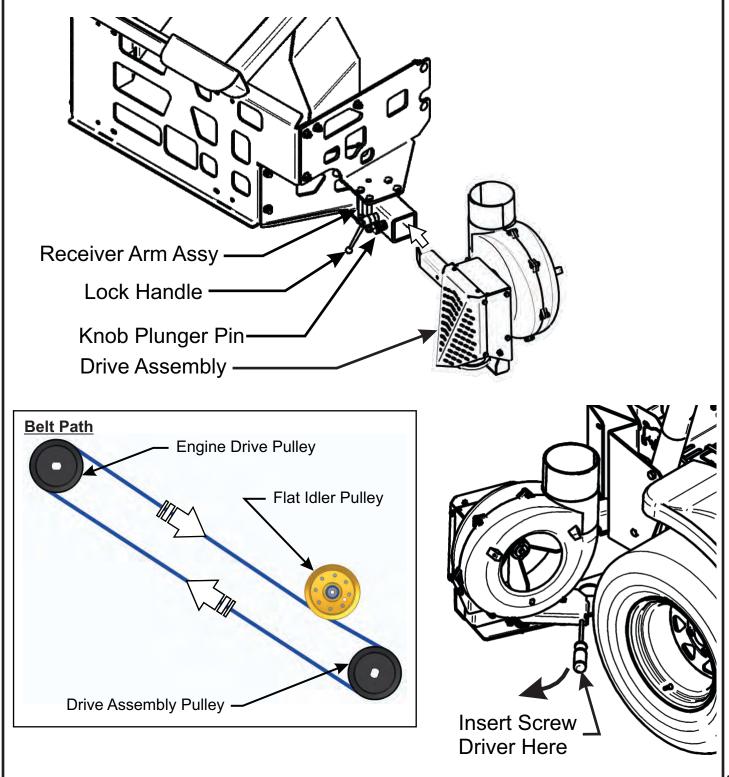


Drive Assembly and Belt Installation

(Note: It is recommended that someone assist during this step.)

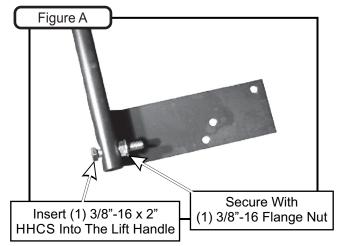
Insert the Drive Assembly into the receiver tube on the Mount Arm Assembly until the Knob Plunger Pin engages. Once in place, turn Lock Handle clockwise until tight. Next, feed the AK80 Belt P#(M0322) between the Belt Guard and the Idler Mount Assembly. Place belt around the Engine Drive Pulley on the underside of the mower. While one person inserts a screw driver (or similar tool) into the Idler Mount Assembly and rotates lever arm clockwise, enough to relieve all tension from belt, place belt around the Drive Assembly Pulley. Once the belt is in position, carefully release the tension to tighten belt.

Refer to the images below.

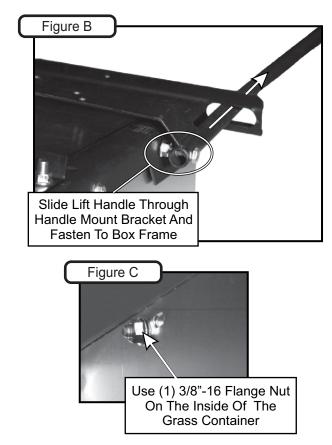


Lift Handle Installation

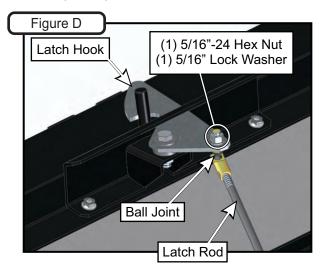
NOTE: Before continuing the Lift Handle installation, have someone assist you in turning the Box Assembly upside down. Insert (1) 3/8"-16 x 2" HHCS P#(K1208) into the Lift Handle P#(A0897), and secure with (1) 3/8"-16 Flange Nut P#(K1215). Thread the flange nut onto the bolt upside down, as shown in Figure A. Do not tighten the nut fully at this time.



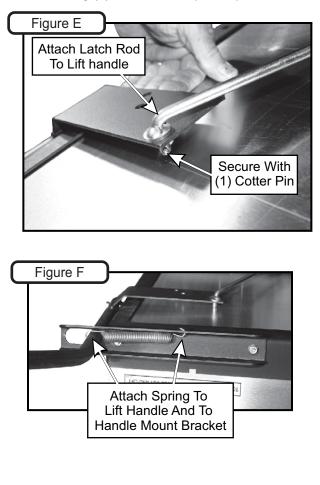
Slide the Lift Handle through the slot on the Handle Mount Bracket. Insert the Lift Handle into the Box Frame as shown in Figure B, and secure using (1) 3/8"-16 Flange Nut P#(K1215) on the inside of the Box as shown in Figure C. Now test the movement of the handle. It should have full-range of movement in the slot. If the handle does not have full-range of movement, adjust the 3/8"-16 Flange Nut from step A. Once achieved, tighten the fasteners.



Fasten the Ball Joint P#(K1442) to the end of the Latch Rod P#(A2107). 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 D, using (1) 5/16"-24 Hex Nut P#(K1444) and (1) 5/16" Lock Washer P#(K0043).

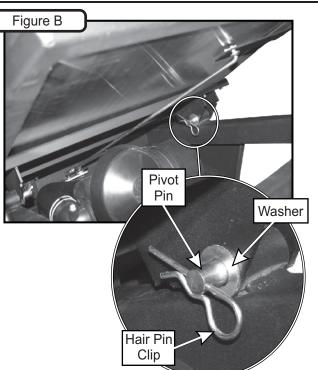


Attach the other end of the Latch Rod to the Lift Handle, as shown in Figure E. Attach one end of the Spring P#(J0176) to the Lift Handle and the other end of the Spring to the Handle Mount Bracket as shown in Figure F. Adjust the Ball Joint up or down on the Latch Rod threads until the Latch Hook closes completely. After adjusting the Latch Hook, secure the Latch Rod to the Lift Handle using (1) Cotter Pin P#(K0094).



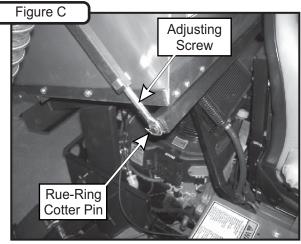
Aluminum Box Assembly Installation

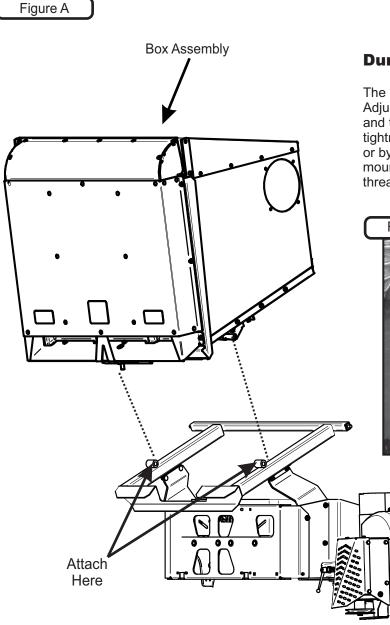
NOTE: It is recommended that two extra people assist in mounting the Box Assembly. Two can lower the Box onto the frame while the third person inserts the Pivot Pins P#(K0172) through the holes. Insert the Pins from the outside to the inside. Secure with (1) 5/8" Washer P#(K0058) and (1) 5/32" x 2-5/8" Hair Pin Clip P#(K0088) per Pivot Pin (Figure B). Reattach the bottom ends of the door opening linkages to the Main Frame by using (1) Rue-Ring Cotter Pin P#(K1437) per side. To test the functionality of the dump mechanism, pull the Lift Handle away from the unit, and lift upward. The Door of the Box Assembly should open and the Box should pivot clockwise towards the ground.



Dump Mechanism Adjustment

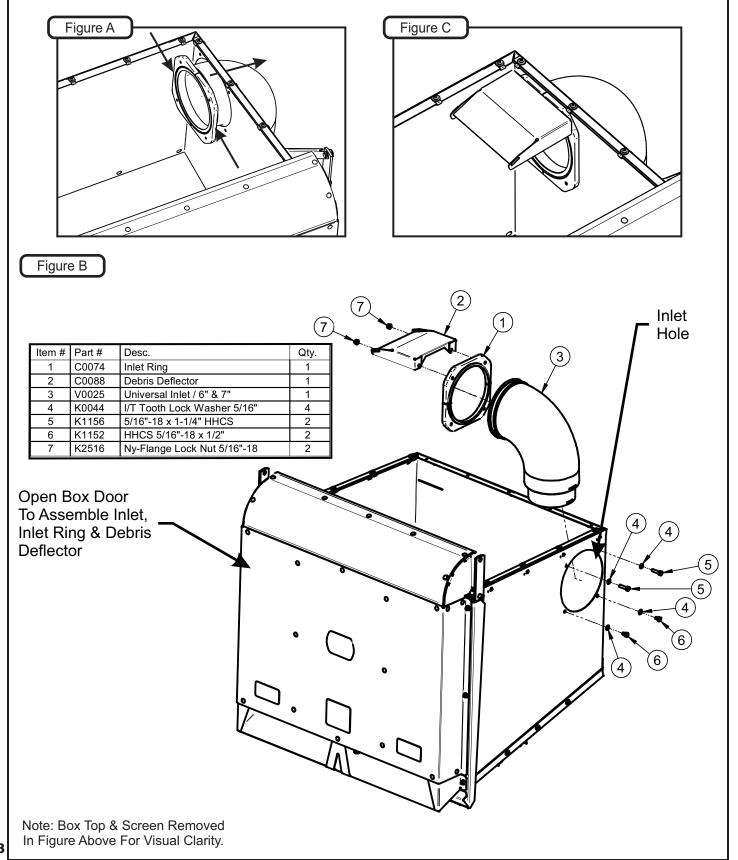
The mechanism may be adjusted in three places, at the Adjusting Screw P#(K1435), at the Latch Hook Pivot Bolt and the linkage Ball Joint. To change the door closure tightness, thread the Adjusting Screw (Figure C) in or out or by adjusting the Latch Hook Pivot Bolt within its' mounting slot. To adjust the Latch Hook closure angle, thread the Linkage Ball Joint in or out.





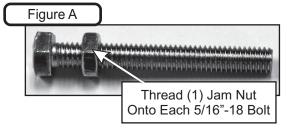
Inlet, Inlet Ring & Debris Deflector Installation

Open box door. From inside box, slide Inlet (Item #3) halfway into inlet hole (See Figure A). Take each half of the Inlet Ring (Item #1) and attach around matching groove in Inlet (Item #3). Slide Inlet (Item #3) & Inlet Ring (Item #1) against inlet hole and align four holes. Fasten Inlet Ring (Item #1) bottom holes using (2) 5/16" IT Tooth Lock Washers (Item #4) & (2) 5/16"-18 x 1/2" HHCS (Item #6) (See Figure B). Fasten Inlet Ring (Item #1) top holes using (2) 5/16" IT Tooth Lock Washers (Item #4) & (2) 5/16"-18 x 1/2" HHCS (Item #6) (See Figure B). Slide Debris Deflector (Item #2) over inside top bolt threads (Item #5). Fasten Debris Deflector (Item #3) using (2) 5/16"-18 Ny-Flange Lock Nuts (Item #7). Final assembly should resemble Figure C.

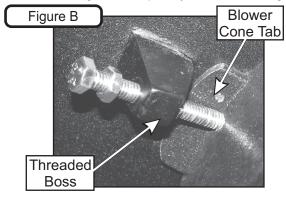


Blower Cone Installation

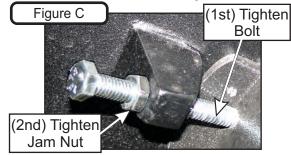
Thread (1) 5/16"-18 Jam Nut P#(K0120) onto each end of (2) 5/16"-18 x 2-1/2" HHCS P#(K0125) as shown in Figure A.



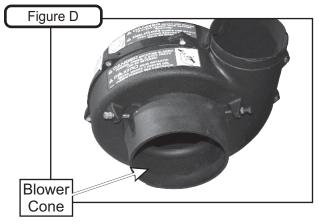
Now partially thread (1) bolt into each of the two threaded bosses located on the Blower Housing. Place 8" Blower Cone P#(E6009) so the two tabs line up with the bolts and tighten completely as shown in Figure B.



Once the (2) bolts are tight, tighten the Jam Nuts against the threaded boss as shown in Figure C.

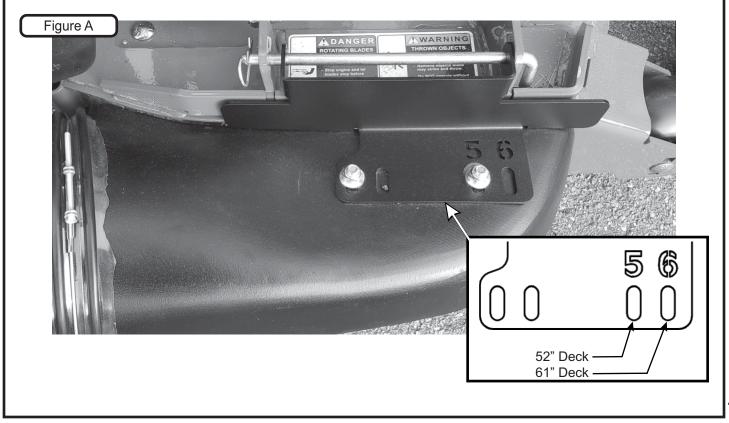


Refer to Figure D for proper Blower Cone installation reference.



Boot Kit Installation

The Boot Plate has designated slots based on the mower's deck size. If your mower has a 52" deck size, use the slots designated with a "5". If your mower has a 61" deck size, use the slots designated with a "6". Refer to Figure A.



Boot Kit Installation (Continued)

First, loosely secure the Boot Plate (Item #2) to the Aluminum Boot (Item #1) using (2) 3/8"-16 x 1" Carriage Bolts (Item #3) and (2) 3/8"-16 Ny-Flange Lock Nuts (Item #4). Insert the Carriage Bolts from the inside of the Boot so the threads are on the top of the Boot. This will prevent grass clippings from collecting on the threads. Refer to Figure B.

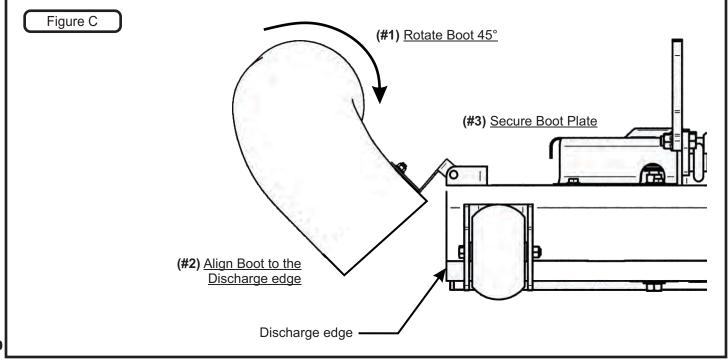
(1)

(Figure	В		
	Item #	Part #	Desc.	Qty.
	1	E1030	BOOT	1
	2	B1062	Boot Plate	1
	3	K1182	Carriage Bolt 3/8"-16 x 1"	2
	4	K2038	Ny-Flange Lock Nut 3/8"-16	2
	5	B0288	Boot Rod	1
	6	K0099	Hair Pin Clip 3/32"	1

Next, position the Boot Plate to the deck edge rotated at 45° **(#1)** (refer to Figure C) aligning the Boot Plate to the deck's discharge chute mount bracket **(#2)**. Secure the Boot Plate **(#3)** to the mower's discharge chute mount bracket by using (1) Boot Rod (Item #3) and (1) Hair Pin Clip (Item #4). Refer to Figure C.

3

With the Carriage Bolts still loose, adjust the position of the boot so that there is no gap between the mower's discharge edge and the Boot. Once the boot is correctly positioned, tighten all hardware.



Length Of Hose Adjustment

The hoses in the following steps must be cut to fit your machine. Do not cut the hoses until you have tried to fit them on your machine. Remember that the hoses need to be long enough to allow for the opening and closing of the collection system as well as allowing ample clamping surface between each component.

Upper Hose Installation

Slide a Hose Clamp P#(J0060) over one end of the 6" Upper Hose. Secure this end of the 6" Upper Hose to the Blower Outlet. See Figure below for details. Secure opposite end of the 6" Upper Hose to the Inlet. Make sure both ends are securely fastened by tightening the Hose Clamp and rotating the Inlet Snap Fastener towards the hose to lock in place.

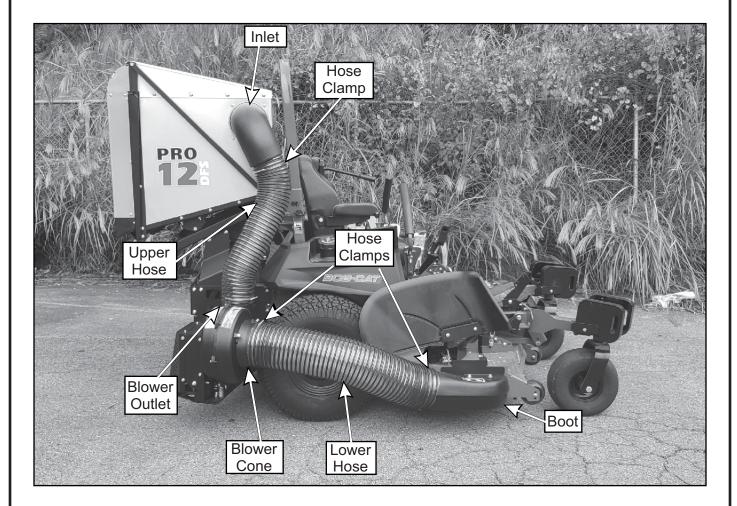
Lower Hose To Blower Cone Installation

Slide a Hose Clamp P#(J0080) over both ends of the Lower Hose. Secure one end of the Lower Hose to the Blower Cone and fasten by tightening the Hose Clamp.

Lower Hose To Boot Installation

Take the unattached end of the Lower Hose and secure it to the circular end of the Boot and fasten by tightening the Hose Clamp.

Tip: Before securing Hose Clamp fully, rotate Lower Hose counter-clockwise (away from yourself) approximately 1" to aid in retaining Boot to mower deck.



Wire Harness Installation



To Prevent Serious Injury-Proper Installation Of Safety Interlock Harness Is Mandatory. Please Check That All Interlock Points Work Correctly Once Installed.

Route the Wiring Harnesses' Female Quick Connector around the engine, between the ROPS and the engine through the opening in the rear bumper. Connect the Quick Connector to the Male Quick Connect Plug (#1) located on the PTO Drive. Refer to Figure A.

Disconnect the mower's clutch from the mower's harness and connect the Wiring Harnesses' Engine Connector (#2) to the clutch wiring and to the mower's harness.

Figure A

Route the Positive Lead w/ Fuse Block to the positive terminal of the battery (#3) using the Ring Terminal of the Positive Lead to secure the attachment. Route the Negative Lead to the Negative Terminal of the mower's battery (#4) using the Ring Terminal of the Negative Lead to secure the attachment. Refer to Figure A.

Refer to the next page for the installation of the PTO Engagement Rocker Switch (P#P0293).

Refer to Figure D on page 24 for the wire diagram.

(#1) Wire Harness Quick Connector

(#3) Positive Lead w/ Fuse Block to Battery Positive Terminal

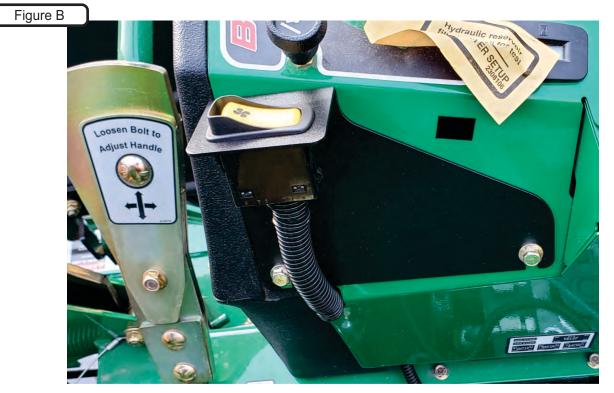
(#4) Negative Lead to Battery Negative Terminal

(#2) Wire Harness Engine Connector

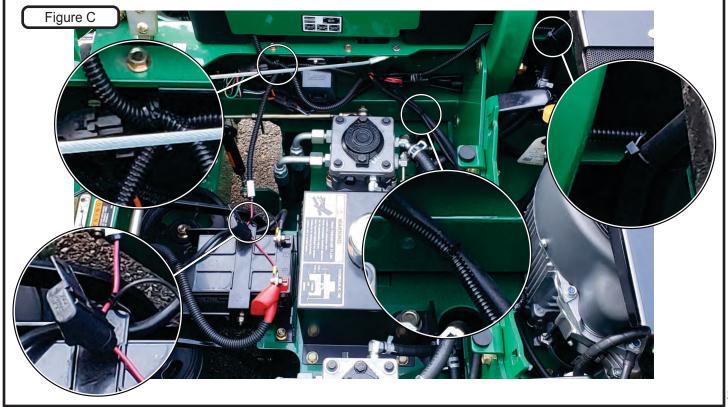
Wire Harness Installation (Continued)

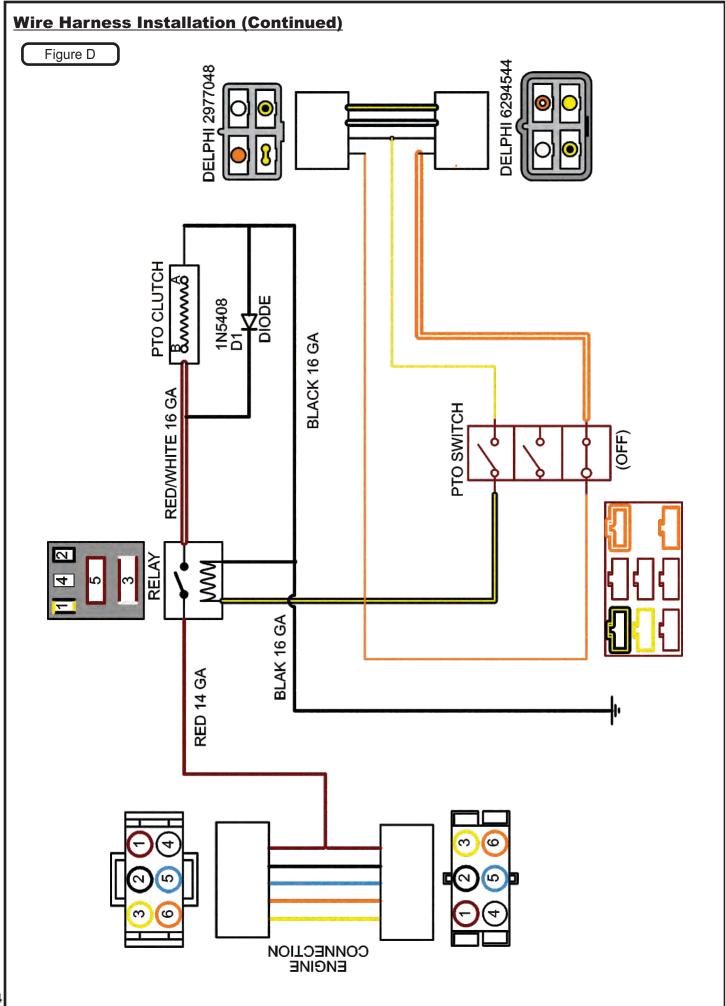
Loosen the (2) bolts located on the mower's side panel below the mower's controls. Align and position the Switch Mount Bracket's P#(B1955) slots behind the (2) bolts. Tighten the (2) bolts to secure Switch Mount Bracket. Refer to Figure B.

Place the PTO Engagement Rocker Switch P#(P0293) into the Switch Mount Bracket. Route the Wiring Harness' (2) Switch Connectors up through the bottom of the side panel and connect them to the PTO Engagement Rocker Switch. To protect the Switch Connectors, wrap the 4.6" Poly Loom P#(P0297) around the Switch Connectors and secure using (2) Zip Ties P#(J0245). Refer to Figure B.



Use the Zip Ties (P#J0245) that are provided to secure the Wiring Harness in place. Refer to Figure C for the recommended zip tie points.





Impeller Blade Removal/Replacement

To Remove: First remove the 5/16"-24 x 1" HHCS P#(K0428) **(#1)**, Taper Lock Bushing Washer P#(K0284) **(#3)**, (2) 5/16 Flat Wahers P#(K0042) and Spacer Bushing P#(S0159) **(#4)** from the Taper-Lock Bushing P#(S0157) **(#5)**. Next remove the (2) 1/4"-20 x 1" HHCS **(#2)** and place them into the threaded holes of the Taper-Lock Bushing **(#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.

To Replace: 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) 5/16"-24 x 1" 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.



Weight Kit Installation

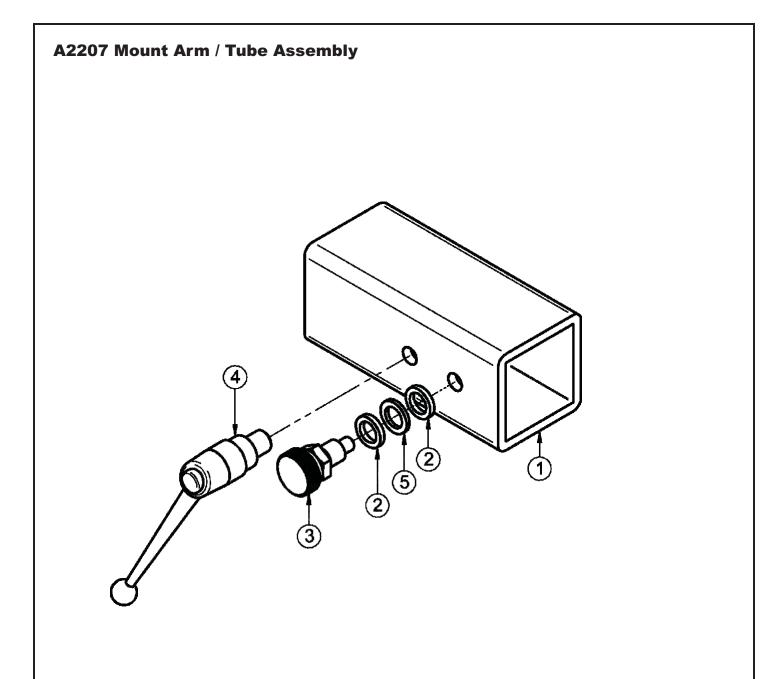
Position the Dual Weight Bracket Base (Item #2) under the caster tubing w/ opening towards caster fork. Next, position the Weight Bracket Clamp (Item #3) on top of caster tubing w/ opening towards caster fork.

Align the (4) holes of the Weight Bracket Clamp (Item #3) to the holes in the Dual Weight Bracket Base (Item #2). Loosely fasten the Weight Bracket Clamp (Item #3) to the Weight Bracket Base (Item #2) using (4) 5/16"-18 x 3" Bolts (Item #4.1) & (4) 5/16"-18 Ny-Flange Lock Nuts (Item #4.2).

Position the Weight Bracket Base and the Weight Bracket Clamp assembly along the caster tubing to prevent interference from caster forks or any other objects. Tighten the fasteners in an 'X' pattern until assembly is firmly clamped to caster tubing. Do not over tighten, over tightening may result in the bending of the Weight Bracket Clamps (Item #3).

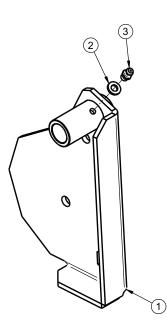
Insert (1) Weight (Item #1) Into the Weight Bracket Base (Item #2) & align the holes of the Weight w/ the holes of the Weight Bracket Base (Item #2). Fasten the Weight (Item #1) to the Weight Bracket Base Using (1) Clevis Pin (Item #4.3) & (1) Hair Pin Clip (Item #4.4) per weight. Repeat for additional weight. Refer to the Figure Below.

Item #	Part #	Desc.	Qty.
1	Y0025	28 lb. Suitcase Weight	2
2	B1014	Dual Weight Bracket / Base	1
3	B1015	Weight Bracket / Clamp	1
4	HB0687	Dual Weight Kit Hardware Bag	1
4.1	K1472	HHCS 5/16"-18 x 3" GR5	4
4.2	K2516	Ny-Flange Lock Nut 5/16"-18	4
4.3	K1473	Clevis Pin 1/2" x 3"	2
4.4	K1478	Hair Pin Cotter / Double Loop	2
	1		



Item#	Part#	Desc.	Qty.
1	B0931	Tube / Mount Arm	1
2	J0013	Nylon Flat Washer 1/2" x .750"OD Grade 6/6	2
3	J0020	Knob Plunger Pin 1/2"-13	1
4	J0009	Adjustable Handle 1/2"-13 x .59 Male	1
5	K0027	Flat Washer 1/2" / .787 OD x .512 ID x .090 T	1

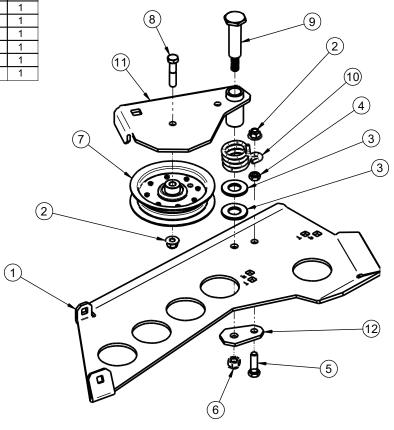
A2092 Idler Arm Assembly



Item #	Part #	Desc.	Qty.
1	A2070_01	Idler Arm Weldment	1
2	K1467	Flat Washer M6 x 12mm OD	1
3	J0801	1/4"-28 Zirc Fitting	1

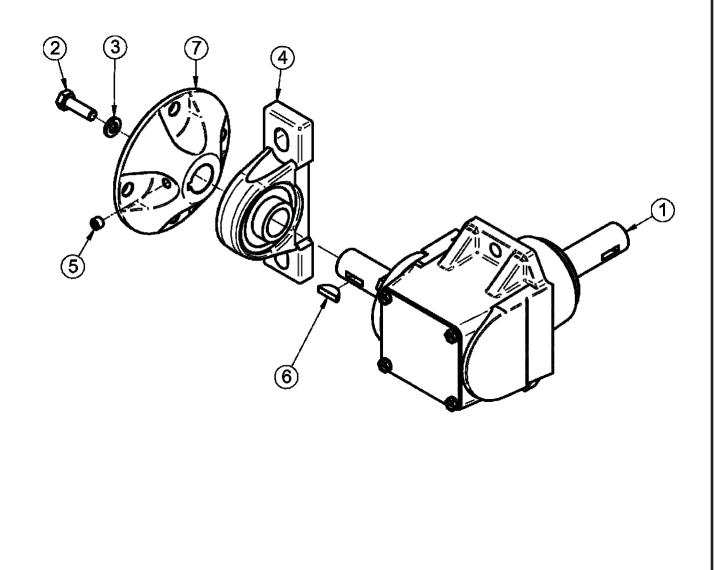
A2067_02 Idler Mount Assembly

Item #	Part #	Desc.	Qty.
1	B0958_02	Idler Mnt PI	1
2	K2038	Ny-Flange Lock Nut 3/8"-16	2
3	K1463	Flat Washer .720 ID x 1.500 OD x .250 T	2
4	K1219	Jam Nut 3/8"-16	1
5	K1192	HHCS 3/8"-16 x 1-1/4" GR5	1
6	K0329	Nylock Nut 7/16"-14 GR8	1
7	M0003	Idler Pulley	1
8	K1462	HHCS 3/8"-16 x 1-3/4" GR8	1
9	K1464	Shoulder Bolt 7/16"-14 / Idler	1
10	J0024	Torsion Spring	1
11	A2092	Idler Arm Assy	1
12	B0974	Idler Base Plate	1



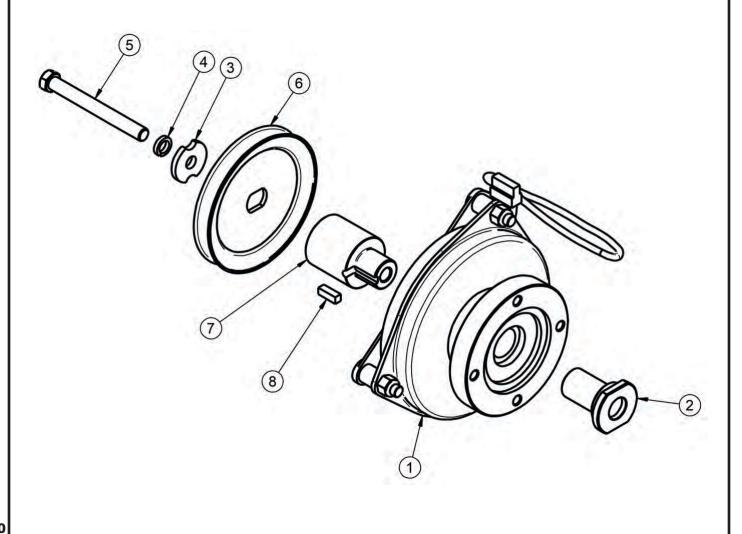
A2058 Gearbox Sub-Assembly

Item #	Part #	Desc.	Qty.
1	M0002	Gearbox	1
2	K0428	HHCS 5/16"-24 x 1" GR8	1
3	K0043	Lock Washer 5/16"	1
4	N0002	Pillow Block Bearing 7/8"	1
5	K0035	Set Screw 5/16"-18 x 1/4" Cup Point	1
6	J0272	Woodruff Key #9	1
7	A2048	Clutch Flange Assy	1

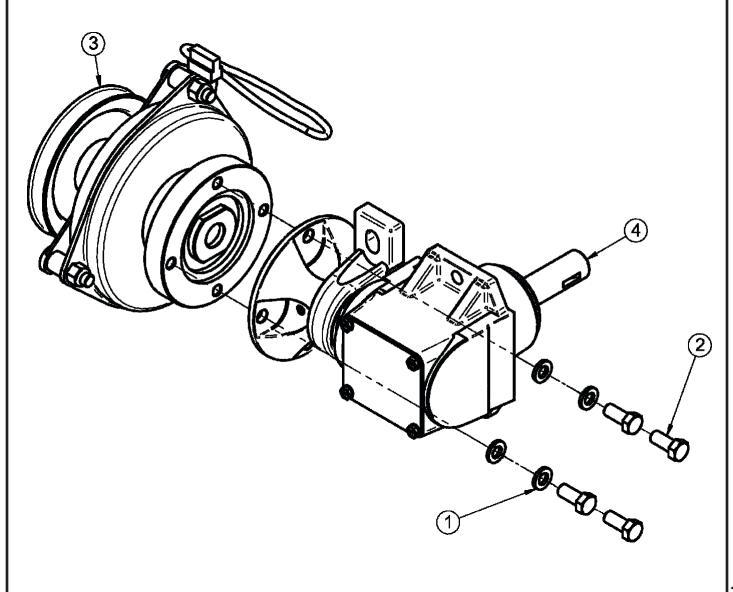


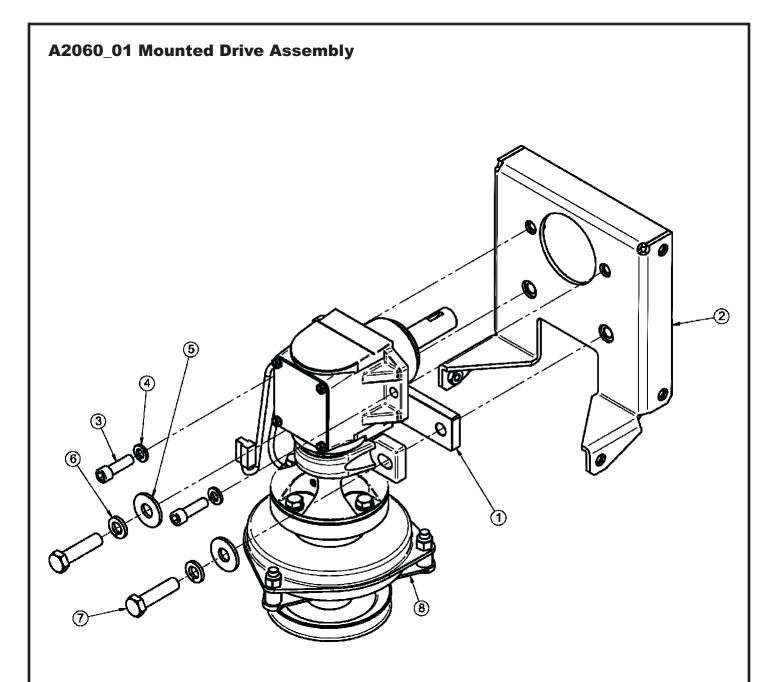
A2059_01 Clutch Sub-Assembly

Item #	Part #	Desc.	Qty.
1	M0001	Electric Clutch (Ogura 110 Ft-Lb Clutch/Brake)	1
2	S0007	Clutch Shaft	1
3	K0278	Double Indented Washer 7/16" / 1.375 OD x .440 ID x .179 T	1
4	K0140	Lock Washer 7/16" / High-Collar Helical Spring	1
5	K0359	HHCS / 7/16"-20 x 4.00" w/ Patch	1
6	M0309	A-Section Pulley / 4.75 OD	1
7	S0221	Eng. Pulley Bushing #27	1
8	K0076	Key 1/4" x 3/4" Long	1



Item #	Part #	Desc.	Qty.
1	K0048	Lock Washer 3/8"	4
2	K0343	HHCS 3/8"-16 x 7/8" GR8	4
3	A2059_01	Clutch Sub-Assy	1
4	A2058	Gearbox Sub-Assy	1

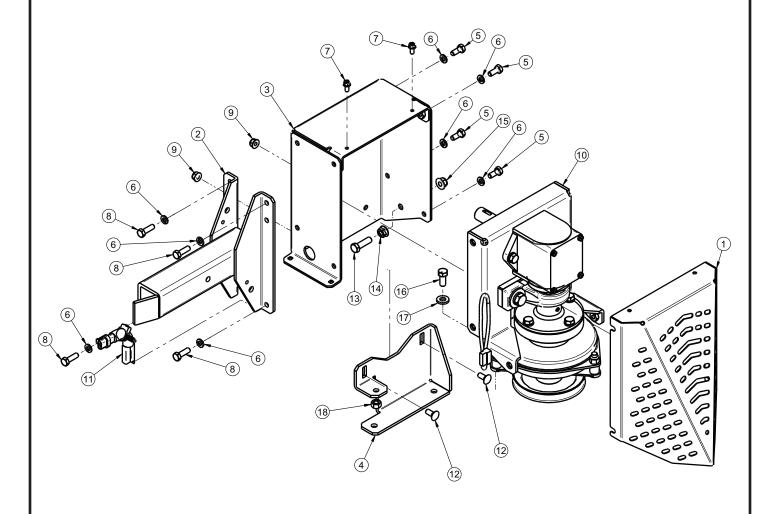


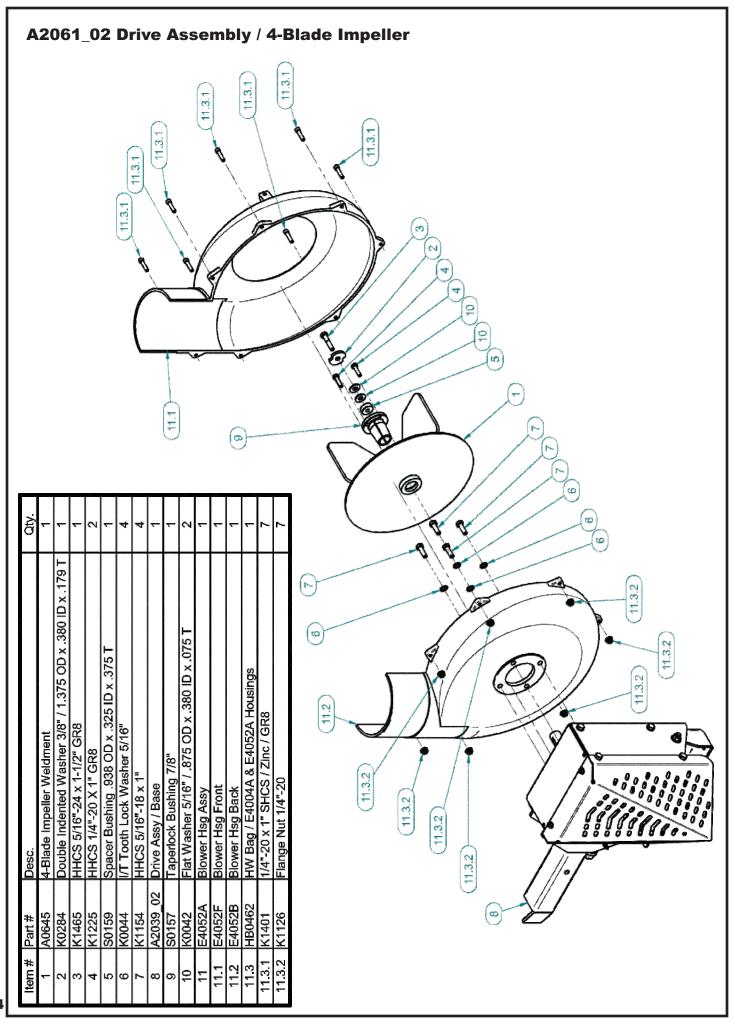


ltem#	Part#	Desc.	Qty.
1	B0940	Spacer Plate	1
2		Drive Mnt Assy	1
3	K0309	3/8"-16x1-1/4"SHCS	2
4	K0048	Lock Washer 3/8"	2
5		Flat Washer 1/2"/1.383ODx.560IDx.120T	2
6		Lock Washer 1/2"	2
7	K1234	HHCS 1/2"-13x2"	2
8	A2057_01	Drive Assy	1

A2039_01 Base Drive Assembly

Item #	Part #	Desc.	Qty.
1	B0938	Drive Guard	1
2	A2032	Drive Arm Assy	1
3	A2035_01	Housing Mnt Assy	1
4	B0942_01	Anti-Rotation Brkt	1
5	K1153	HHCS 5/16"-18 x 3/4"	4
6	K0043	Lock Washer 5/16"	8
7	K0353	HWHTCS 1/4"-20 x 1/2"	2
8	K1154	HHCS 5/16"-18 x 1"	4
9	K2516	Ny-Flange Lock Nut 5/16"-18	2
10	A2060_01	Mounted Drive Assy	1
11	P0271	Quick Connect Wire Harness	1
12	K1142	5/16"-18 x 3/4" Carraige Bolt	2
13	K0509	3/8"-16 x 1-1/4" GR8 HHCS	1
14	K1215	Flange Nut 3/8"-16	1
15	K2038	Ny-Flange Lock Nut 3/8"-16	1
16	K0343	HHCS 3/8"-16 x 1-1/8" GR8	1
17	K1477	Flat Washer / 3/8" / .406 ID x .812 OD x .125 Thk	1
18	K1476	Reverse Lock Nut / 3/8"-16 Grade C	1

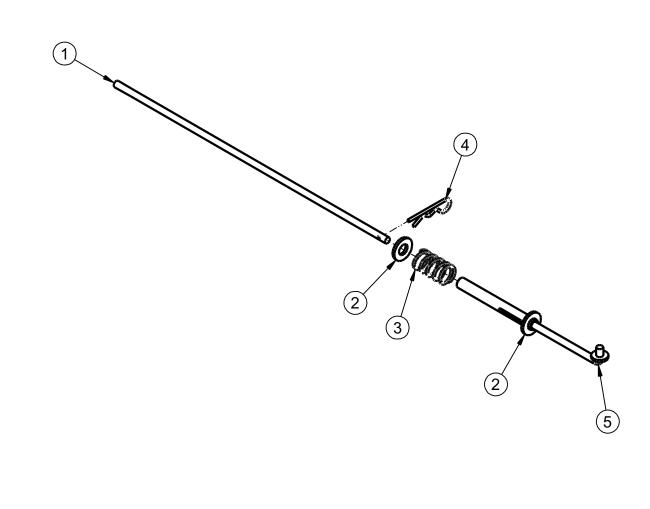




A2100 6512 Box Assembly Exploded Parts View

4	Part #	Desc.	Qty.	
1	B1750	Base Frame	1	
2	B1727	Base Frame Pivot Mount	1	
3	B1574	Pivot Bracket	2	
4	C0024	Box Bottom	1	
5	C0080	Box Back & Sides	1	
6	C0081	Вох Тор	1	
7	A0938	Frame Weldment / Box Opening	1	
8	V1131	12 Box Door	1	
9	A0738	Frame Weldment / Door Stiffener	1	
10	B1730	Latch Handle Mount Bracket	1	
11	B0996	Latch Hook	1	
12	C0075	Dust Diverter	1	
13	V0051	Dust Flap	1	
14	B3688	Upper Door Member	1	
15	C0076	Left Dust Diverter Brace	1	
16	C0077	Right Dust Diverter Brace	1	
17	C0079	Right Outer Dust Flap Brace	1	
18	C0078	Left Outer Dust Flap Brace	1	
19	B0991	Dust Diverter Guard Bracket	1	
20	A2104	Latch Mount Plate Assy.	1	
21	V0052A	Dust Seal / Top Sides	1	
22	V0052B	Dust Seal / Long Door Sides	2	
23	B1006	Dust Flap Stiffener	1	- (6)
24	B1007	Screen Clamp Strip / Side	2	
25	C0087	Screen Support	1	
26	V0052C	Dust Seal / Short Door Sides	2	
27	B1008	Screen Clamp Strip / Rear Door	1	
28			1 · · · · · · · · · · · · · · · · · · ·	
20	B8113	Screen / Steel Wire Mesh		
(13		6	25

Item #	Part #	Desc.	Qty.
1	B1000	Latch Rod / Hook Side	1
2	K0400	1/2" Flat Washer 1.084 OD x .528 ID x .120 T	2
3	J0303	Spring	1
4	K0086	Hair Pin Clip .125 OD x 2.50	1
5	A2106	Latch Rod Weldment	1



	Owner's Manual: Q0548		Vac Type: P12	Drive Type: PTO-X	Fits Year(s): 2019-Newer	(1) HB0738 HB0738 Mount Kit Hardware Bag Mount Kit Hardware Bag Mount Arm Hardware Bag Mount Arm Hardware Bag Mount Arm (1) (1) Bag Boot (1) (1) Bag Boot (1) (1) Bag Boot (1) (1) Bag Boot (1) (1) Bag Bag Bag Bag Bag Bag Bag Bag
el #: 23651201	:: Bob-Cat ProCat, ProCat MX & Predator Pro	6000 Series, 6000MX Series, 7001 & 7002			Fits Y	A2273 Mount Kit (1) Period (1) Bag (1) Period (1) Bracket (1) (1) (1) Bracket (1) (1) (1) Bracket (1) (1) (1) Constrained (1) (1) (1) Bracket (1) (1) (1) Constrained (1) (1) (1) Bracket (1) (1) (1) Bracket (1) (1) (1) Constraine Bag (1) (1) Rark Frame Bag (1) (1) Rark Frame Bag (1) (1) Rark Frame Bag (1) (1) Assy (1) (1) (1) (1) Assy (1)<
Unit Model #	Mower & Type: Bob-	/ / / / / / / / / / / / / / / / / / /	Deck Size: 52"- 61"	Deck Type: AirFX	Red Drawing Revision #:0	A2274 Vac Kit PELO MACYONA A2274 Vac Kit PELO Vac Kit Hardware Bag (1) FOOR0-38 Parton (1) FOOR0-38 Parton (1) FOOR0-38 Parton (1) FOOR0-38 Parton (1) (1) FOOR0-38 Parton (1) (1) FOOR0-38 Parton (1) (1) FOOR0-38 Parton (1) (1) FOOR0-38 Parton (1) (1) (1) (1) (1) (1) (1) (1)

SAFETY DECALS

To promote safe operation, New PECO, Inc. 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.





Part# R0022 Designed & Built In The USA



Part #: R2007 Danger - Never Use Hands





Part #: R2008 Danger - Rotating Blades

IMPORTANT Hoses are subject to normal wear and deterioration. Check hoses frequently and if they become defective, install new hoses.

For best collection results, trim hoses so there are no more than 2 inches excess hose with mower deck lowered.

Part #: R1054 Important - Hose Wear





Part #: R1057 - (2) Red Reflectors



Part # R0024 Danger - Keep Hands Clear



Part #: R1051 Warning - Hearing Protection



Part #: R1069 Warning - Turn Off Blower



Part # R0025 Danger - Rotating Blades

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 And Tips On Mowing

- A. Perform BEFORE EACH USE the maintenance list referenced in Section IV.
- B. Start mower.
- C. With the mower at high idle speed, engage the mower deck.
- D. While seated in the operator's seat, move Bagger PTO switch to the on position. With the PTO assembly engaged, you can 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 PTO assembly, then, engage the parking brake and turn the mower off. Check upper and lower hoses for any 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 4 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.

Disengagement Of The PTO Assembly

A. To disengage the PTO assembly, move Bagger PTO switch to the off position.

WARNING: DO NOT TOUCH the PTO assembly, pulleys, or the belt until the tractor is turned off.

Unloading The Collection System

- A. Stop the forward movement of the mower, engage the parking brake.
- B. Disengage the mower deck.
- C. Disengage the blower.
- D. Verify that the dump area is clear.
- E. 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.
- F. Once the contents of the container have fallen out, the container is ready to move back into its normal operating position. Pull the handle downward until positive latching is achieved.
- **NOTE:** Do not allow collection system to become overfilled as potential damage may occur to your equipment. Also, be sure to clean the screen as needed.

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.
- 2. 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. Perform lubrication per instructions.
- 5. Listen for abnormal sounds, which might indicate loose parts, damaged bearings, or other damage. Correct any deficiency before continuing operation.
- 6. With the engine off, engage the blower assembly. Check the belt tension and inspect the pulley belt for cracks or tears.
- 7. 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 immediately.

After Each Use:

- 1. Clean all debris from machine especially from the container, underneath the belt shields, and safety decals. Replace any missing or illegible decals.
- 2. Under normal usage, the collection unit is subject to deterioration and wear. Inspect the unit for worn or damaged components. Repair or replace before the next use. Any replacement component installed during repair shall include the component's current safety decal specified by the manufacturers to be affixed to the component.
- 3. Check belt for proper tension.

Lubrication

Gearbox:

NOTE: The gearbox is filled with 6.0 oz. of Mobilube HD Plus 80W-90 oil and permanently sealed. There is no need for scheduled lubrication. The oil level should only be checked if a leak is observed or if a change in gearbox noise is noticed.

Operators are recommended to check for leaks weekly. If a leak is observed, both the gasket and the seals are recommended to be replaced.

Replace the oil using 5.5 oz. of the recommended Mobilube HD Plus 80W-90 oil. Be sure to <u>not</u> overfill.

Blower Assembly:

- **NOTE:** The following is for older PTO models that contain a greaseable zirc fitting. Newer models contain maintenance-free bearings and are without a greasable fitting.
- 1. On initial use: Grease the fitting on the blower shaft.
- 2. Every 25 hours of use: Re-grease the grease fitting.

NOTE: Use only white lithium based grease for lubrication of the shaft on the blower assembly.

SECTION V - PARTS & SERVICE

Parts And Service Information

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 New PECO, Inc. and include the following information on the chart below.

DOCUMENT THE FOLLOWING INFORMATION FOR FUTURE REFERENCE

Jnit Model Number:		
Jnit Engine Size:		
Init Serial Number:		
Date of purchase:/		
Dealer/Distributor Name:		
\ddress:	State:	Zip:
hone Number:		
New PE	CO, Inc.	
10 Walden Dr Arden,	North Carolina 28704	l.
Phone: 1-800-438-5	5823 828-684-1234	
Fax: 828-	-684-0858	
Email: <u>peco@</u>	lawnvac.com	
Website: www	v.lawnvac.com	

TORQUE SPECIFICATIONS

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

Bolt Hea	ld Markings	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)
\square		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 Dashes)	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)
A		7/8	9/16 - 12 UNC	70 (95)	109 (148)	153 (207)
	SAE Grade 5	7/8	9/16 - 18 UNF	79 (107)	122 (165)	172 (233)
	(3 Dashes)	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)
	14 m ¹⁷	1-1/8	3/4 - 16 UNF	192 (260)	297 (402)	420 (569)
	Diameter B	1-5/16	7/8 - 9 UNC	166 (225)	430 (583)	606 (821)
	Diant	1-5/16	7/8 - 14 UNF	184 (249)	474 (642)	668 (905)
1 /		1-1/2	1 - 8 ŲNC	250 (339)	644 (873)	909 (1232
		1-1/2	1 - 12 UNF	274 (371)	705 (955)	995 (1348
nch "A"	SAE Grade 8	1-1/2	1 - 14 UNF	280 (379)	721 (977)	1019 (138
	(6 Dashes)	1-11/16	1-1/8 - 7 UNC	354 (480)	795 (1077)	1288(1745
Т		1-11/16	1-1/8 - 12 UNF	397 (538)	890 (1206)	1444 (195
		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

METRIC Unameter "B" Unameter "B" B.8 Numbers appearing on bolt heads indicate ASTM class.

AMERICAN

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

^{>} rop	er torque	for metri	c fasteners	used on	Peco	equipment.
	Recomm	ended to	rque 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)

Troubleshooting

2017 (v1.0)

Collection System Performance

Problem	Possible Cause	Corrective Action
	Cutting blades are bent or unbalanced	Install new cutting blade
Abnormal Vibration	• Loose blower pulley or pulley assembly	• Tighten the pulley
	Impeller blade out of balance	Contact dealer to replace
	Low engine speed	 Always operate collection system at full throttle
Reduced collection system performance	 Plugged screen 	 Remove debris, leaves, or grass clippings from the screen
	Loose belt	Replace/tighten belt
	Full collection bags	• Empty the collection bags
	Collection bags are too full	Dump more frequently
	 Low engine speed 	 Always operate collection system at full throttle
	Grass is too wet	• Cut grass when it is dry
Blower and hoses plugging too frequently	Grass is too long	• Cut the grass several times
	Ground speed is too fast	Drive slower at full throttle
	Worn belt	Replace belt
	Loose belt	 Adjust the pulley and tighten belts
	Collection bags are too full	Dump more frequently
Debris blowout	 Plug/clog in the collection system 	Clean the collection system
	Ground speed is too fast	Drive more slowly at full throttle
	Plug in the blower housing	Clean the blower housing
Impeller doesn't rotate freely	Worn impeller blade	Contact dealer to replace
	 Shaft bearings bad/failing 	Contact dealer to replace





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