



PTO DRIVEN GRASS COLLECTION SYSTEM

Model# 752208

Universal Category 1 - 3Pt Hitch Pro22 DFS



OPERATOR'S MANUAL

ASSEMBLY • OPERATION • MAINTENANCE

GRASS COLLECTION SYSTEM

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SAFETY

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

SAFETY

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

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

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

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

Safety Alert Symbol



This Safety Alert Symbol means: **“ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!”**

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

Safety Signs

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



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**

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.



Black letters on **YELLOW**

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

It may also be used to alert against unsafe practices.

PECO LIMITED WARRANTY FOR NEW PRODUCTS

New PECO, Inc. extends the following warranties to the ORIGINAL PURCHASER of each New PECO, Inc. consumer product purchased from one of our Dealers or directly from New PECO, Inc., subject to the following limitations:

A. ITEMS COVERED UNDER WARRANTY

1. **PRODUCT WARRANTY** – Any part or parts which are deemed defective in material or workmanship, as delivered to the original purchaser, will either be repaired or replaced, as New PECO, Inc. elects, without charge for parts or labor, if the defect appears within 12 months from the date of purchase of the product to the Original Purchaser.
2. **PARTS REPLACED DURING WARRANTY** – Any New PECO, Inc. 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 New PECO, Inc. elects, before the expiration of the original warranty period.

B. WARRANTY DISTINCTIONS

1. **RESIDENTIAL** - Products put to a personal use around a single household or residence are considered Residential. Products designated as “Residential” are warranted for 12 months from the date of purchase of the product, to the ORIGINAL PURCHASER with proof of purchase, when used for or in residential applications.
2. **COMMERCIAL** – Products put to any business use (agricultural, commercial or industrial) or used at multiple locations are considered Commercial. Products designated as “Commercial” are warranted for 12 months from the date of purchase of the product, to the ORIGINAL PURCHASER with proof of purchase, when used for or in commercial applications. Products designated as “Residential” are warranted for 90 days from the date of purchase of the product, to the ORIGINAL PURCHASER with proof of purchase, when used for or in Commercial applications.
3. **RENTAL** – Products used for Rental or Lease Purposes are warranted for 45 days from date of purchase of the product, to the ORIGINAL PURCHASER with proof of purchase, when used for or in a rental business.

C. ITEMS NOT COVERED BY NEW PECO WARRANTY

1. **ENGINES & BATTERIES:** Engines and Batteries attached to New PECO, Inc. products are covered under their respective separate manufacturer warranties and those companies must be contacted directly to file a warranty claim. Briggs & Stratton: https://www.briggsandstratton.com/na/en_us/support/warranty.html
2. **UNAPPROVED ALTERATION OR MODIFICATION:** All obligations of New PECO, Inc. under this warranty shall be terminated if products are altered or modified in any way not approved by New PECO, Inc.
3. **ACCIDENTS & NORMAL MAINTENANCE:** This warranty covers ONLY manufacturers defective material and workmanship. It does not cover depreciation or damage caused by normal wear & tear, accident, improper maintenance, misuse or abuse of products. New PECO, Inc. products must be operated and maintained in accordance with the instructions furnished in the manuals. The cost of normal maintenance and normal replacement of service items such as belts, cutting blades, hoses, bags, etc., which are not defective shall be paid for by the purchaser.
4. **NO SERVICE CENTER WARRANTY:** The selling Service Center/Dealer 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 Service Center or Dealer has no authority to make any representation or promise on behalf of New PECO, Inc. or to modify the terms of the original warranty in any way.
5. **NO REPRESENTATIONS ADDITIONAL WARRANTIES, DISCLAIMER:** Neither New PECO, Inc. nor any company affiliated with New PECO, Inc. 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.**
6. **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 New PECO, Inc. be liable for special incidental or consequential damages.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, search by your zip code on www.lawnvac.com or contact our Sales Department at New PECO, Inc. 800-438-5823 or email Sales@lawnvac.com.

Section I - INTRODUCTION AND DESCRIPTION

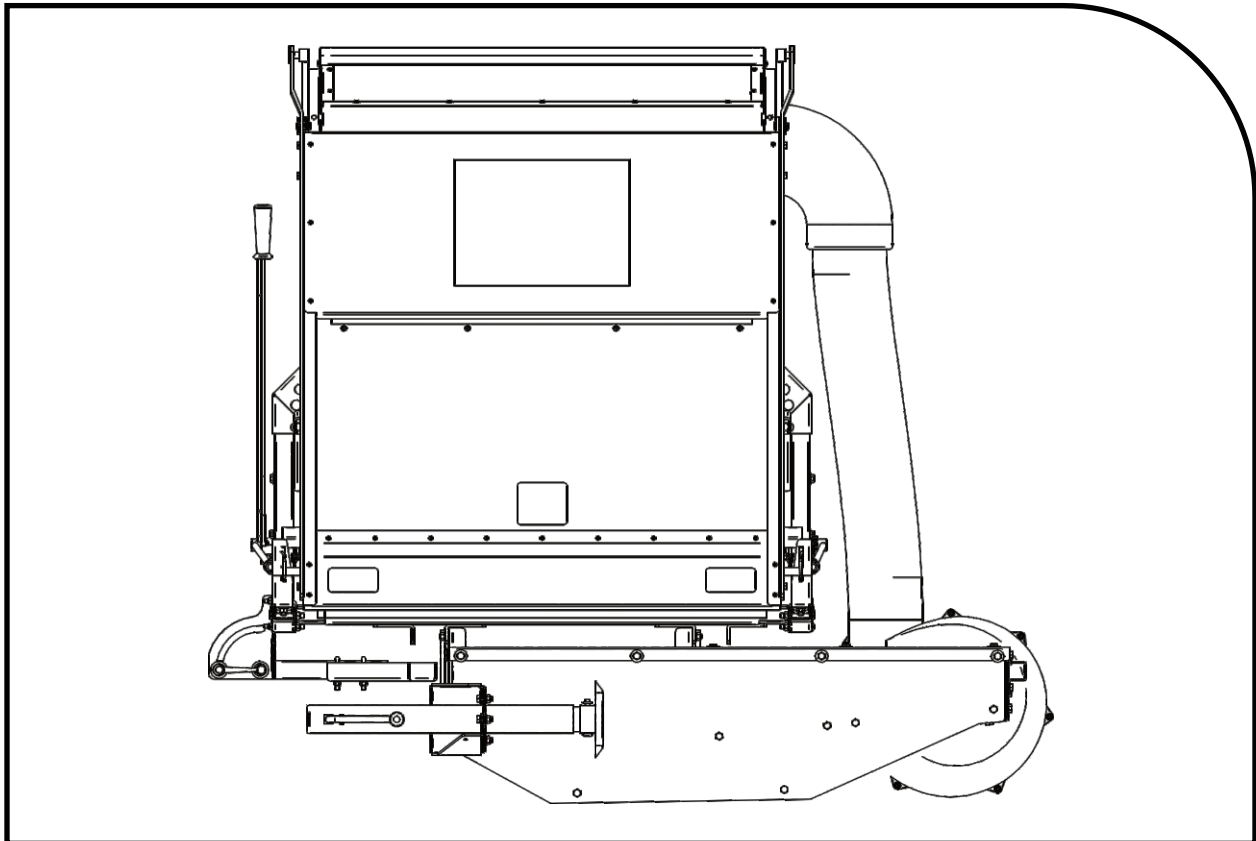
Introduction

We are pleased to have you as a PECO customer. Your collection system has been designed to give you a low maintenance, simple, and effective way to collect the grass clippings from your mower. This manual is provided to give you the necessary instructions to properly mount, 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 clean-up. 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 back and up to the aluminum container mounted to a three-point hitch at the rear of the mower. The operator can engage the engine/blower/blade assembly by engaging the mower's rear PTO. Once the container is full of clippings, the operator can easily pull and raise the lift handle. Using the lift handle, the operator releases the rear door, the container pivots towards the ground, and the clippings are dumped.



NOTE: Text displayed in a colored box will specify the particular Tractor being referenced. See the example below.

LS Tractor

John Deere

Kubota

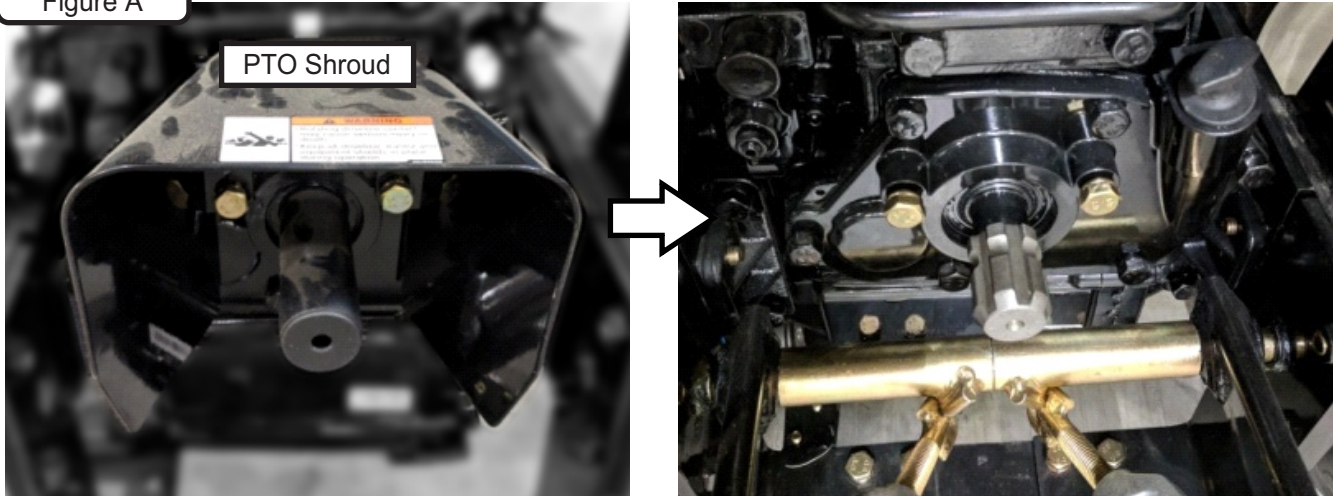
Section II - INSTALLATION FOR USE

Mower Preparations

Note: Read and review each step of this manual thoroughly.

Before the installation of your unit, if applicable, prepare your tractor by removing the PTO Shroud from the rear of the tractor. Refer to Figure A.

Figure A

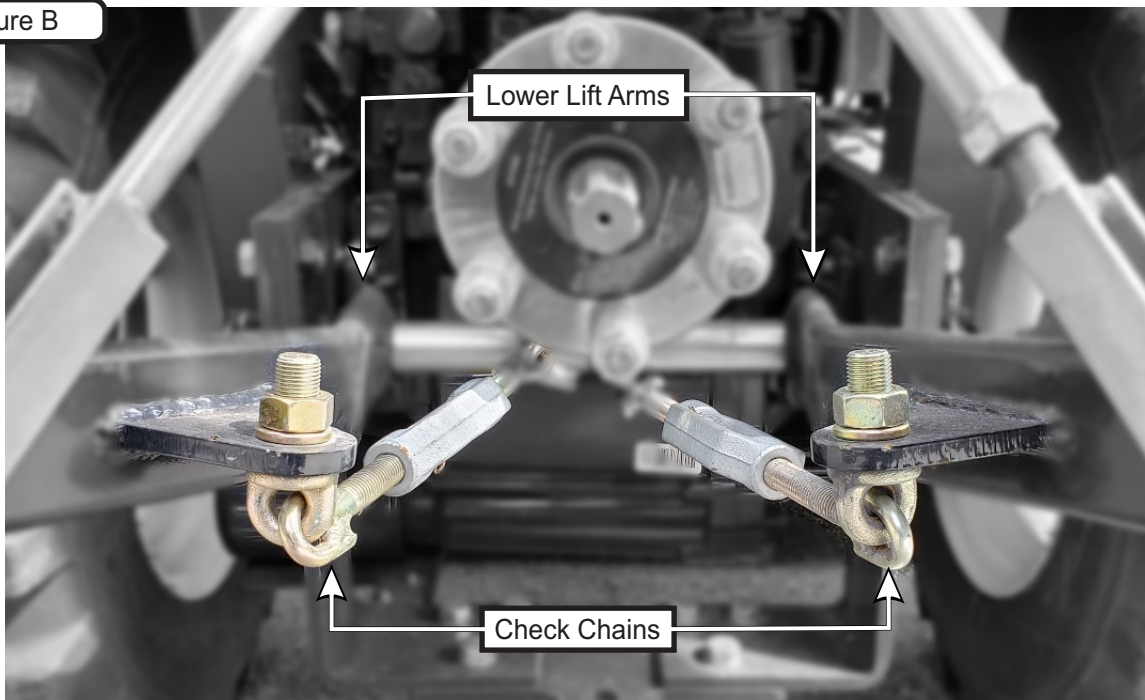


Next, check your tractor's check chain position. If the check chains are positioned between the tractor's lower lift arm, as depicted in Figure B, you may need to reposition the (2) check chains.

For **Kubota BX Series** Tractors, refer to the instructions on the next page.

Reposition the (2) check chains by flipping them and moving them to the bottom of the tractor's lower lift arms attachment points. Refer to Figure B. This will provide room for the driveshaft.

Figure B



Mower Preparations (Continued)

For Kubota BX Series Tractors

Remove the rear bottom bracket, as shown in Figure C, underneath your tractor's PTO and set aside the hardware. Replace the removed bracket with the provided Check Chain Mount Bracket P#(B2092) as shown in Figure D.

Figure C

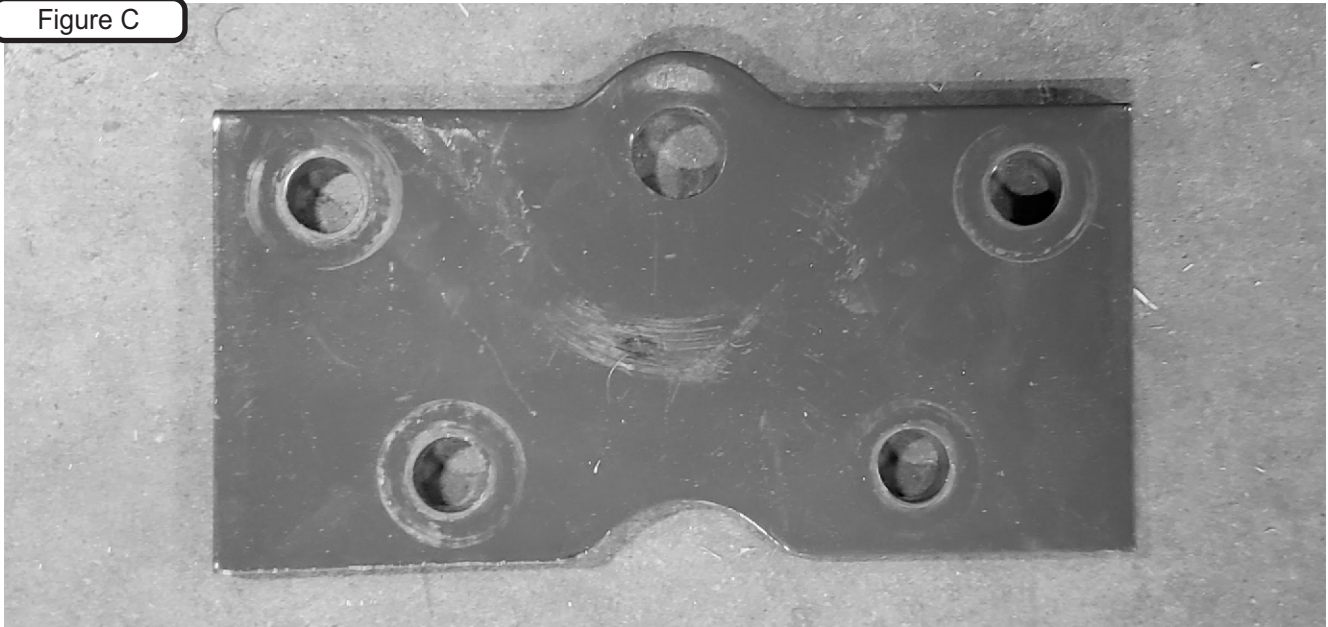
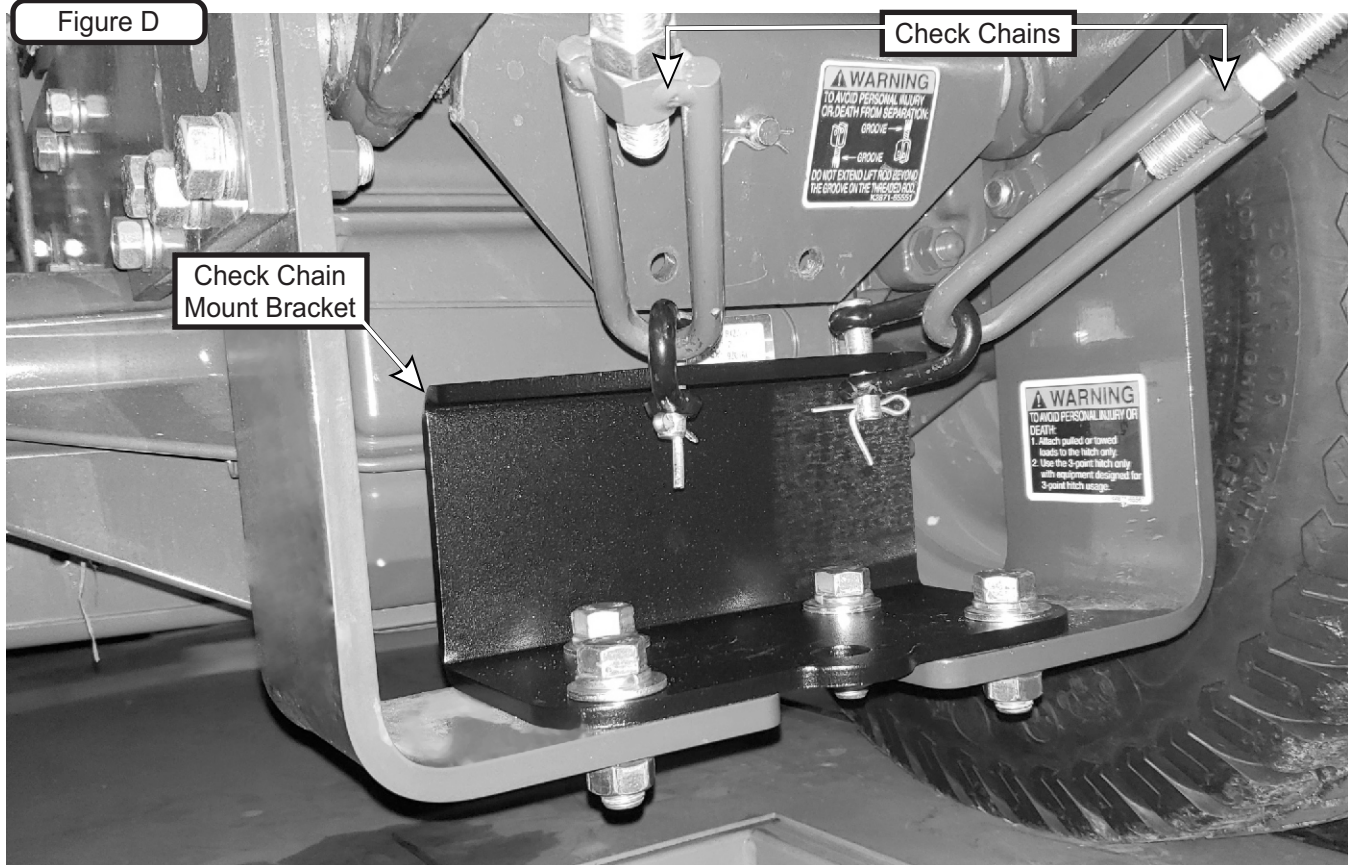


Figure D

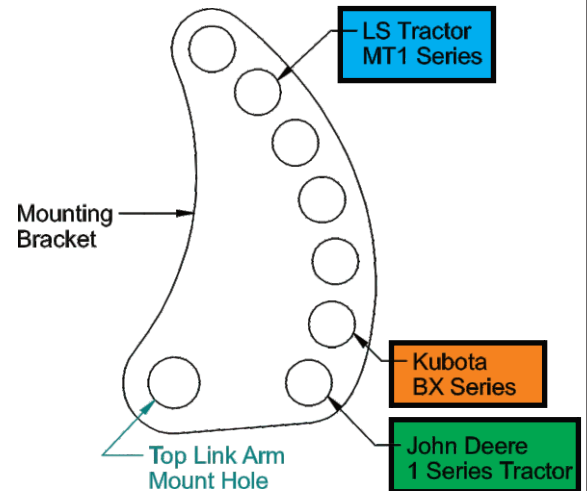
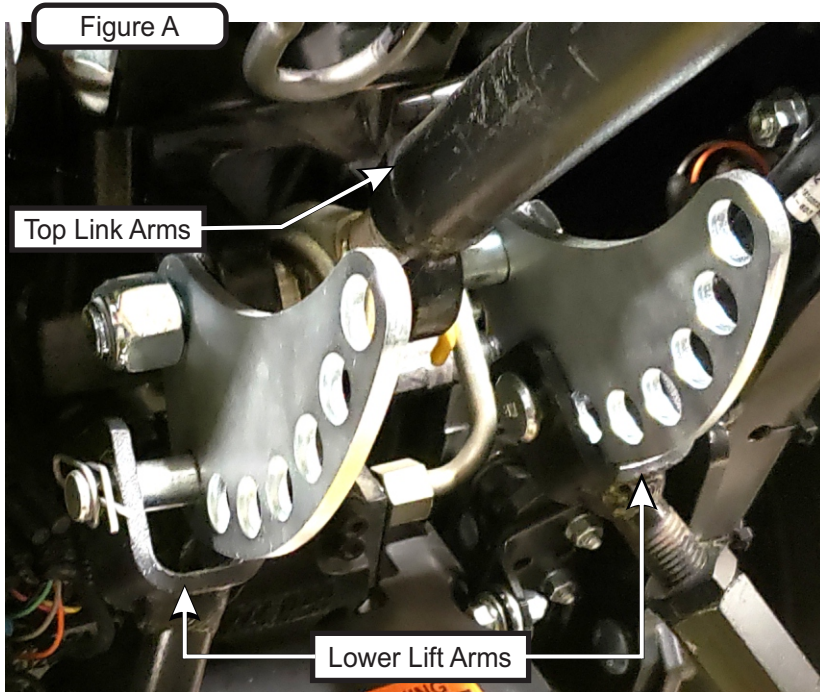


Reposition the (2) check chains from the rear of the tractor down onto the Check Chain Mount Bracket by flipping them and moving them down and securing them using the OEM hardware. Refer to Figure D.

Repositioning the check chains will provide room and clearance for the driveshaft.

Mower Preparations (Continued)

Lastly, install (2) Mounting Brackets to the top link arm and lower lift arms. Refer to Figure A for the positioning of the Mounting Brackets. Secure the Mounting Brackets to the top link arm by using (1) 3/4"-10 x 6" HHCS (Item #2) and (1) 3/4" Nyloc Nut (Item #3). Refer to Figure B.

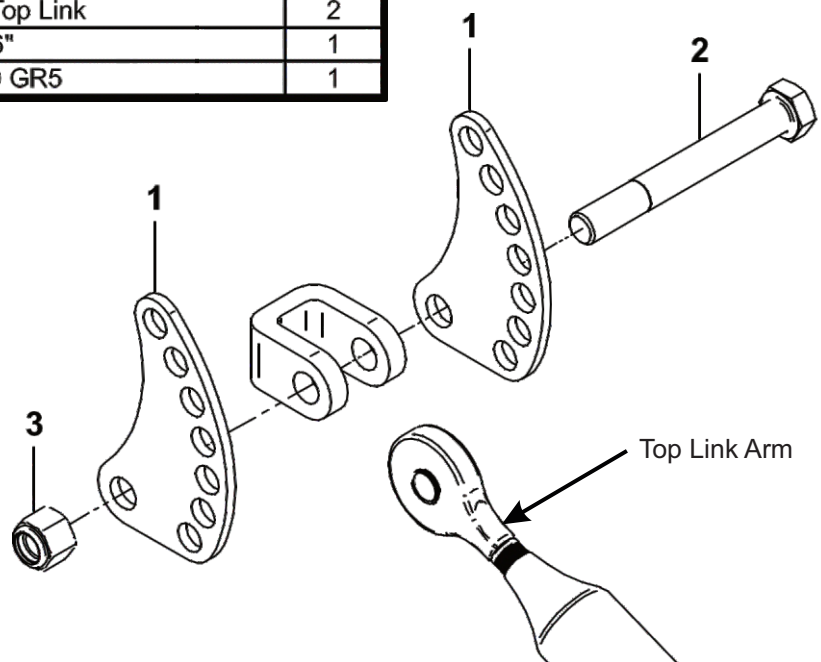
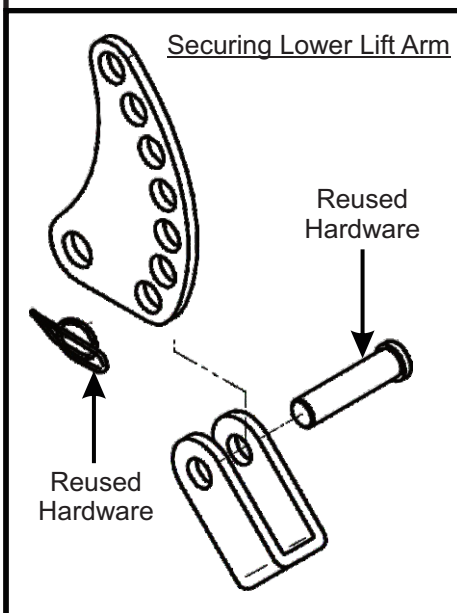


The Mount Brackets are designed to accommodate a range of lower lift arm positions. Rotate the Mount Brackets so that your lower lift arms are aligned and positioned to the mounting holes of the Mount Brackets. The lower lift arms should be positioned so that the collection unit will be sitting upright and perpendicular to the ground. Once the desired position is determined, secure the (2) lower lift arms to the Mounting Brackets by reusing the provided hardware. Refer to Figure B.

NOTE: Some part features have been hidden from view for visual clarity.

Figure B

Item #	Part #	Desc.	Qty.
1	B2014	Mount Bracket / Top Link	2
2	K0116	HHCS 3/4"-10 x 6"	1
3	K1433	Nyloc Nut 3/4"-10 GR5	1

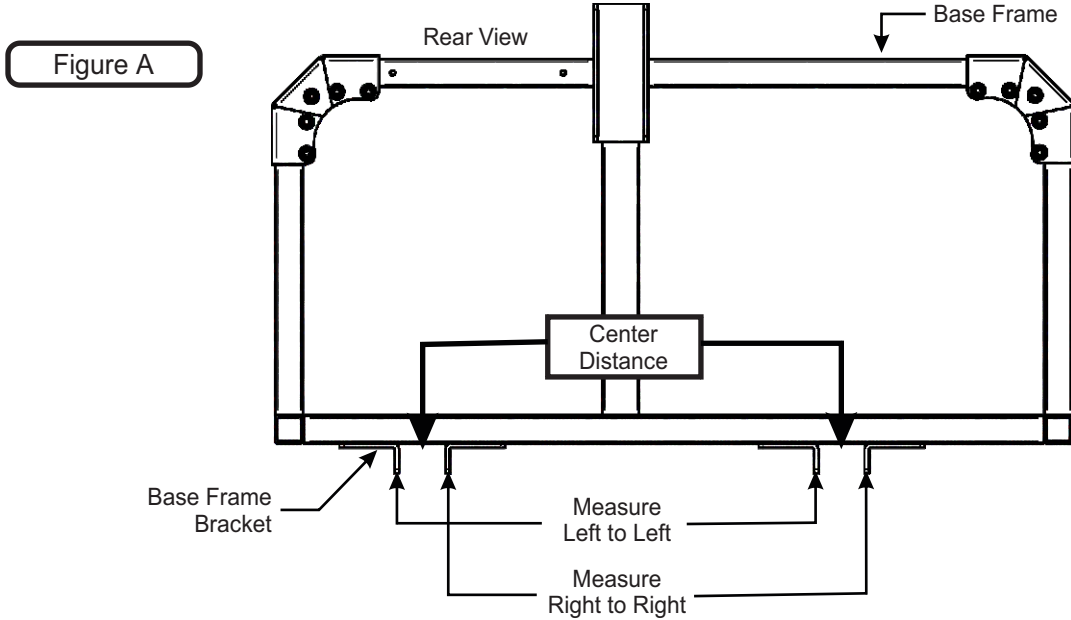


For Kubota BX Series, use (1) 3/4"-10 x 4" HHCS P#(K1500) for Item #2

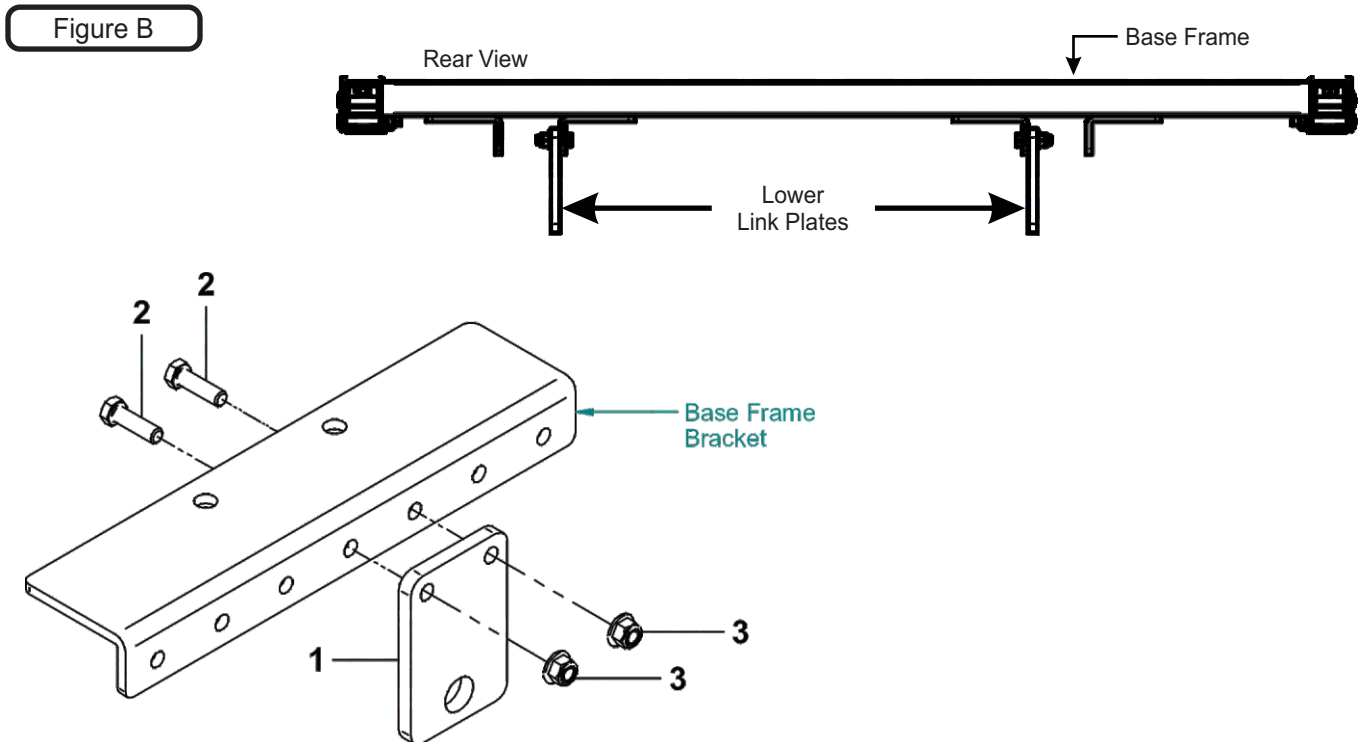
Link Plates Assembly & Installation

To accommodate the Grass Collection System, adjust the lower lift arms of the three-point hitch. Viewing from the rear, measure either from the left to left of the Base Frame Brackets or the right to right of the Base Frame Brackets to find the center of distance. Refer to Figure A. Adjust the three-point hitch lower lift arms to the measured distance.

NOTE: Some part features have been hidden from view for visual clarity.



Align the holes of the Lower Link Plates (Item #1) to the second set of holes from the rear of the Base Frame Bracket. Refer to Figure B. Secure the Lower Link Plates with (2) 3/8"-16 x 1-1/4" Hex Bolts (Item #2) and (2) 3/8"-16 Flange Nuts (Item #3) per Link Plate.



Item #	Part #	Desc.	Qty.
1	B1180	Lower Link Plate	1
2	K1192	HHCS 3/8"-16 x 1-1/4" GR5	2
3	K2038	Ny-Flange Lock Nut 3/8"-16	2

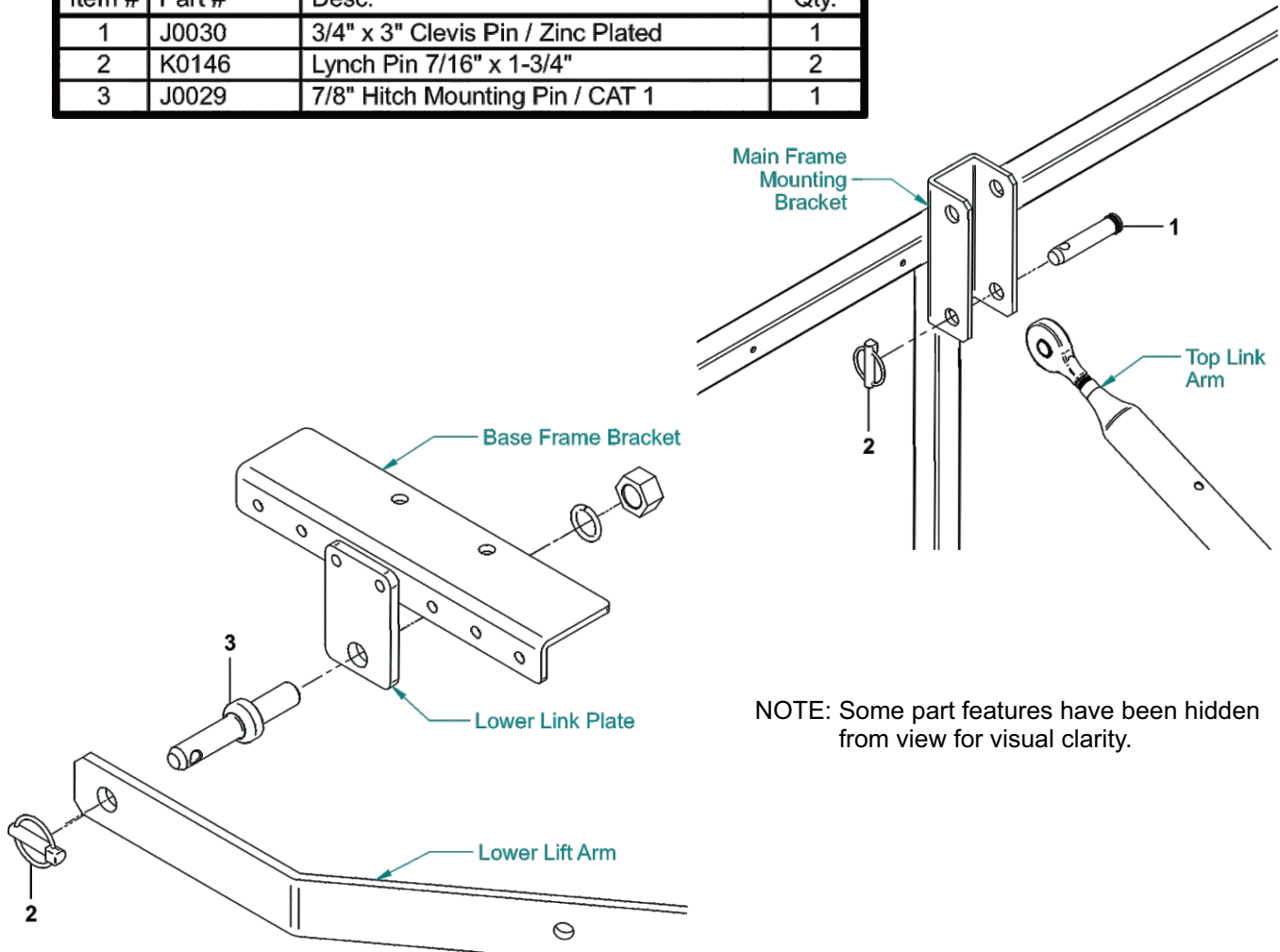
Base Frame 3-Pt Hitch Installation

Raise the Box and Main Frame Assembly until the Mounting Bracket of the Main Frame Assembly aligns with the top link arm. Secure the top link hitch socket using (1) 3/4" x 3" Clevis Pin (Item #1) and (1) 7/16" x 1-3/4" Lynch Pin (Item #2). Refer to Figure A.

Align the lower lift arm to the outside of the Lower Link Plates and secure the lower lift arm by using (1) 7/8" Hitch Mounting Pin (Item #3) and (1) 7/16" x 1-3/4" Lynch Pin (Item #2) per lower lift arm. Refer to Figure A.

Figure A

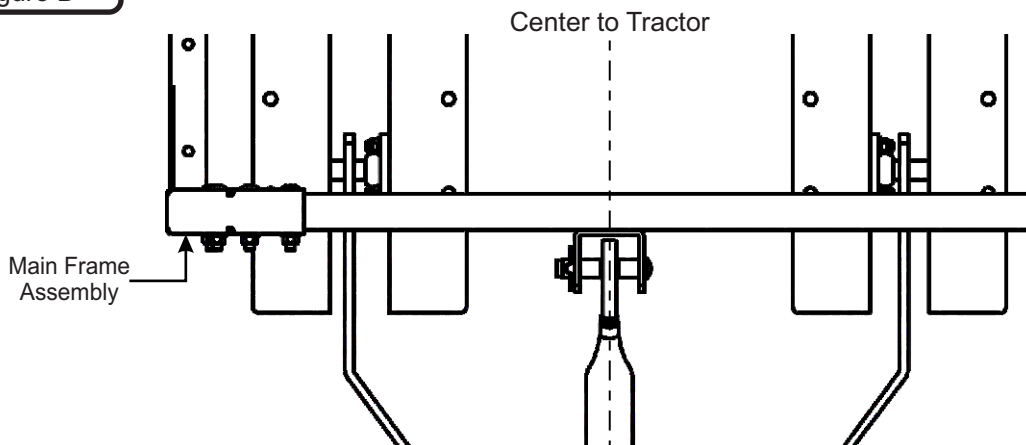
Item #	Part #	Desc.	Qty.
1	J0030	3/4" x 3" Clevis Pin / Zinc Plated	1
2	K0146	Lynch Pin 7/16" x 1-3/4"	2
3	J0029	7/8" Hitch Mounting Pin / CAT 1	1



NOTE: Some part features have been hidden from view for visual clarity.

Check that the Main Frame Assembly is centered with the Top Link Arm and that the Top Link Arm is centered to the tractor. Refer to Figure B.

Figure B

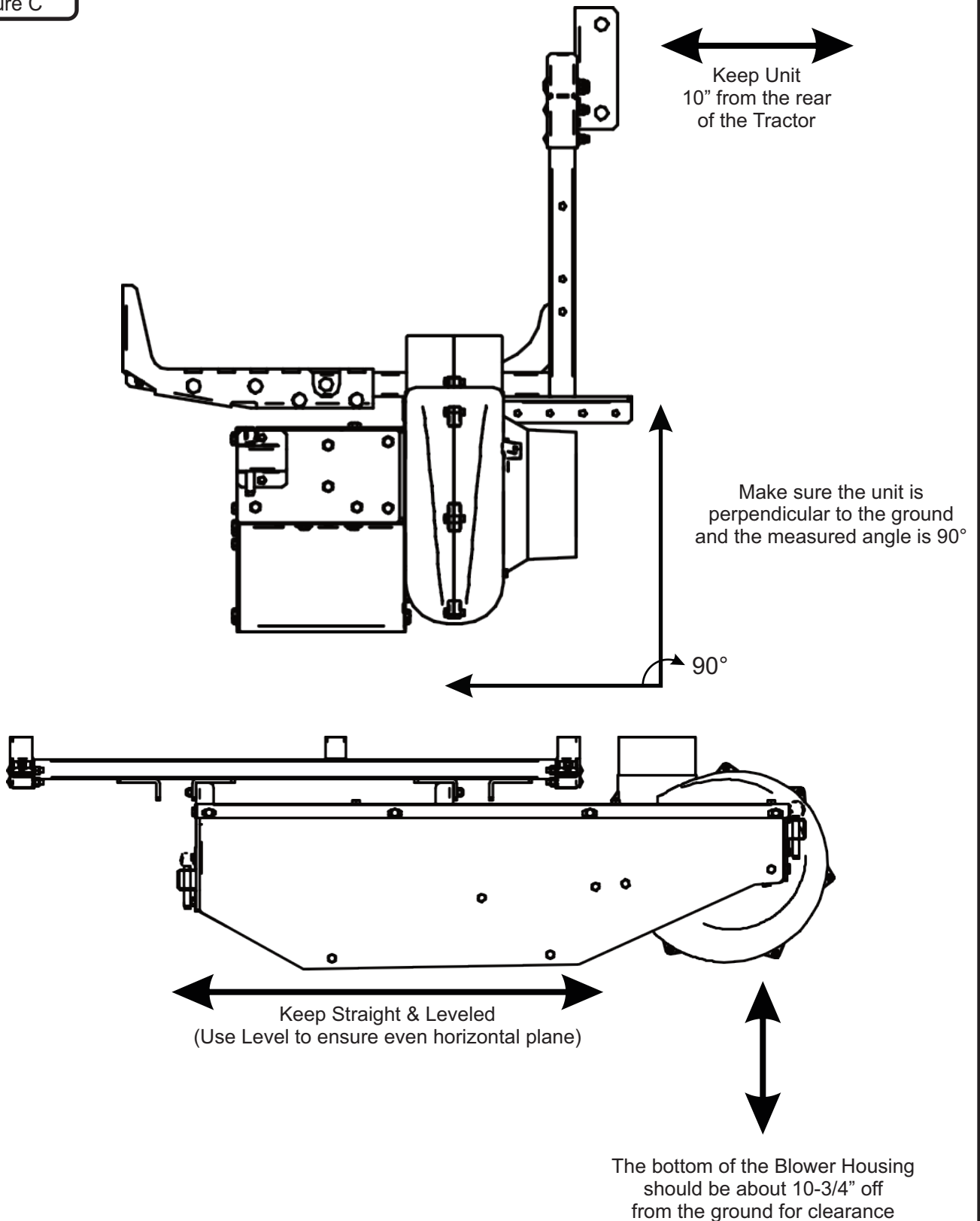


Base Frame 3-Pt Hitch Installation (Continued)

Once the Top Link Arm and Lower Lift Arms have been secured, check the positioning of the unit and make adjustments as needed to ensure the unit is correctly positioned. Refer to Figure C for correct unit position.

NOTE: Some part features have been hidden from view for visual clarity.

Figure C



PTO Drive Assembly & Installation

Position the Belt Drive Assy (Item #2) under the Base Frame Assy (Item #1) and align the mounting holes of the Drive Mount Brackets to those of the front set, innermost Base Frame Bracket. Refer to Figure A & Figure B.

NOTE: Some part features have been hidden from view for visual clarity.

Figure A

Item #	Part #	Desc.	Qty.
1	A2236	Base Frame / Pro 22DFS	1
2	A2351	Belt Drive Assy. / PTO-3PH	1
3	K1191	HHCS 3/8"-16 x 1" GR5	4
4	K2038	Ny-Flange Lock Nut 3/8"-16	4

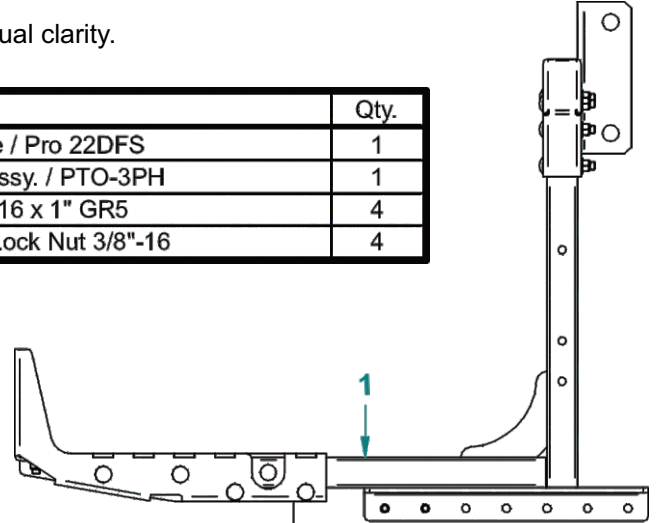
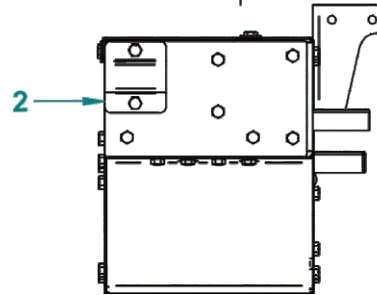
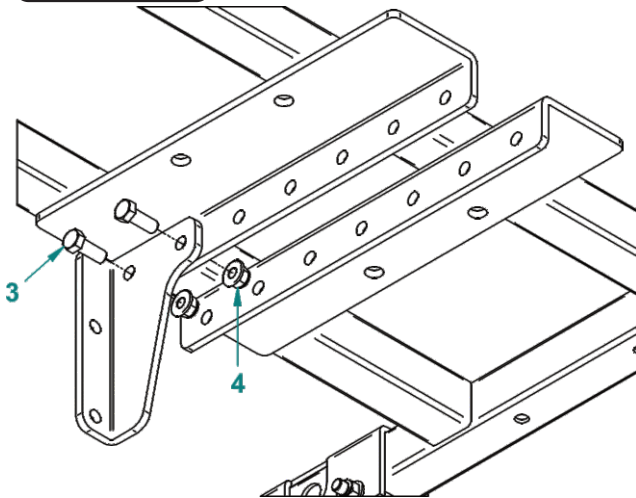


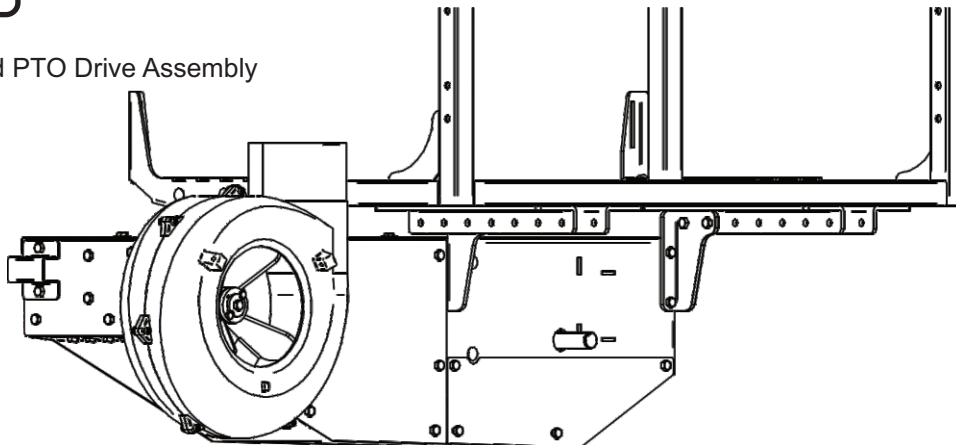
Figure B



Secure the PTO Drive Assy to the Base Frame Assy by using (2) 3/8"-16" x 1" HHCS (Item #3) and (2) 3/8"-16 Ny-Flange Lock Nuts (Item #4) per Drive Mount Bracket. Refer to Figure B above.

Figure C

Installed PTO Drive Assembly



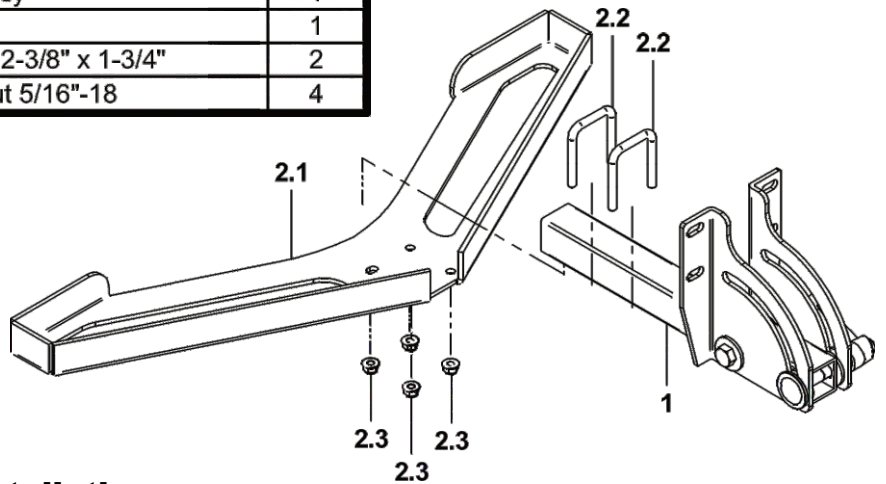
PTO Drive Stand & Stand Foot Assembly

Install the Stand Foot Sub Assembly (Item #2) to the PTO Drive Stand Assembly (Item #1) by securing the Stand Foot (Item #2.1) to the Stand Pivot Assembly by using (2) 5/16" U-Bolt (Item #2.2) and (4) 5/16" Ny-flange Lock Nuts (Item #2.3). Refer to Figure A.

You can adjust the positioning of the Stand Foot to best suit your needs by loosening the U-Bolts and sliding the Stand Foot up and down then re-tightening the U-Bolts.

Figure A

Item #	Part #	Desc.	Qty.
1	A2237	Stand Pivot Assy	1
2	A2263	Stand Foot Sub Assy	1
2.1	B1900	Stand Foot	1
2.2	K1098	U-Bolt / 5/16"-18 x 2-3/8" x 1-3/4"	2
2.3	K2516	Ny-Flange Lock Nut 5/16"-18	4

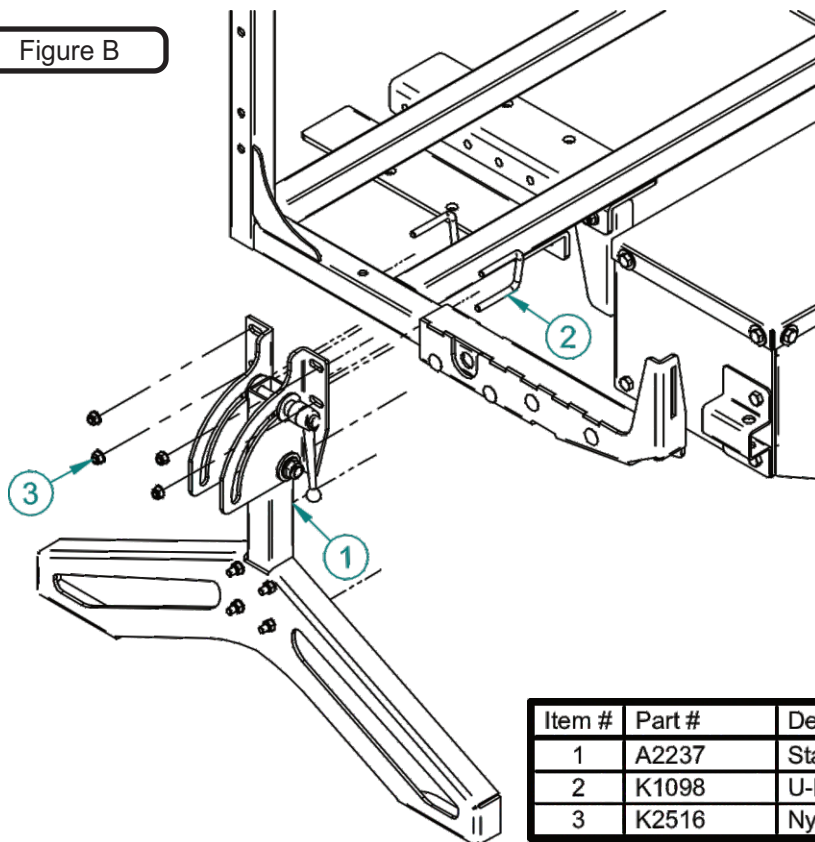


PTO Drive Stand Assembly Installation

Install the PTO Drive Stand Assy (Item #1) with (2) 5/16"-18 U-Bolts (Item #2) and (4) 5/16" Ny-Flange Lock Nuts (Item #3). Refer to Figure B.

NOTE: Some part features have been hidden from view for visual clarity.

Figure B



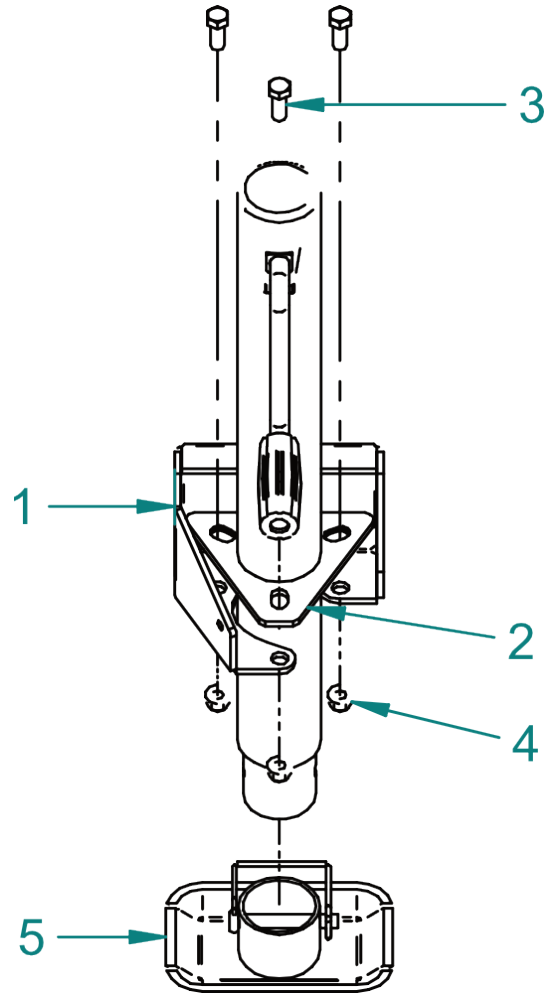
Item #	Part #	Desc.	Qty.
1	A2237	Stand Pivot Assy	1
2	K1098	U-Bolt / 5/16"-18 x 2-3/8" x 1-3/4"	2
3	K2516	Ny-Flange Lock Nut 5/16"-18	4

Jack Stand Assembly & Installation

Your Collection Unit will include an A-Frame Jack (Item #2) with a Jack Foot (Item #5) and a separate Jack Stand Bracket (Item #1). Assemble the A-Frame Jack to the Jack Stand Bracket by using (3) 3/8"-16 x 1" GR5 HHCS (Item #3) and (3) 3/8"-16 Ny-Flange Lock Nuts (Item #4). Refer to Figure A.

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

Figure A



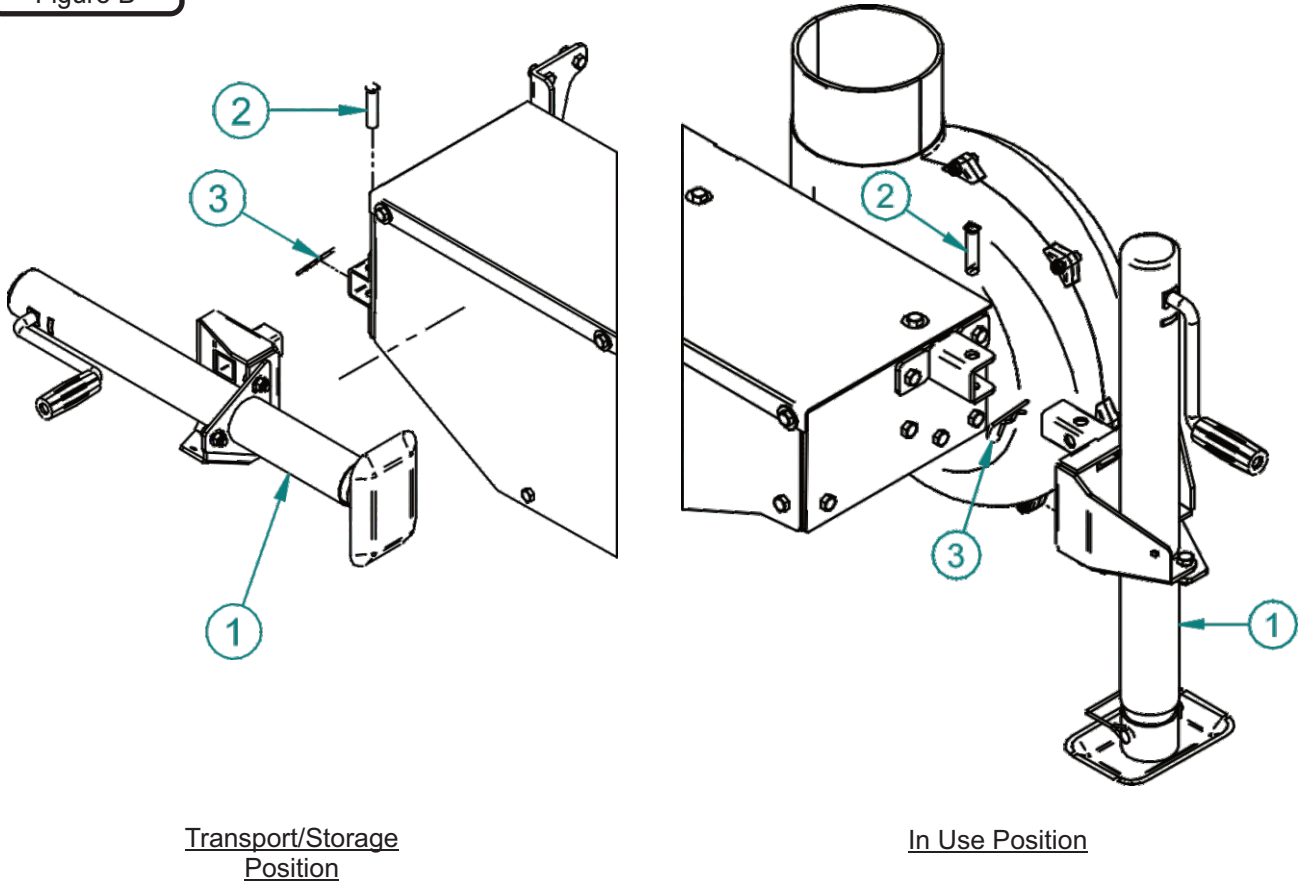
Item #	Part #	Desc.	Qty.
1	A2199	Jack Stand Bracket Weldment	1
2	J0027	A-Frame Jack	1
3	K1191	HHCS 3/8"-16 x 1" GR5	3
4	K2038	Ny-Flange Lock Nut 3/8"-16	3
5	J0025	Jack Foot	1

Jack Stand Assembly & Installation (Cont.)

While not in use or being stored, turn the Jack Stand Assy horizontal and secure the Jack Stand Assy to the PTO Drive Assy using (1) Detent Pin (Item #2) and (1) Hair Pin Clip (Item #3).

When the Jack Stand Assy is going to be in use, turn the Jack Stand Assy Vertical and secure it to the Right Side of the PTO Drive Assy using (1) Detent Pin and (1) Hair Pin Clip. Be sure you're using the Jack Stand Assy on a leveled surface. Refer to Figure B.

Figure B



Transport/Storage
Position

In Use Position

Item #	Part #	Desc.	Qty.
1	A2200	Jack Assy w/ Foot Plate	1
2	K0082	.50 OD x 2.00 DETENT PIN	1
3	K0086	Hair Pin Clip .125 OD x 2.50	1

PTO Driveshaft Assembly Installation

It is recommended to lubricate the sliding members of the PTO Driveshaft and universal joints before assembly and installation. The universal joints can be found in between the Quick Connect Yoke as well as the Driveshaft Yoke.

Your PTO Driveshaft Assembly will have a Driveshaft Guard included; this guard protects both the user from the drive and the equipment from the environment.. The Driveshaft Guard should spin freely from the Driveshaft Assembly and should provide a visual cue for rotating motion even after the machine has been shutdown. Operators should exercise caution while the PTO Driveshaft Assembly is still in motion.

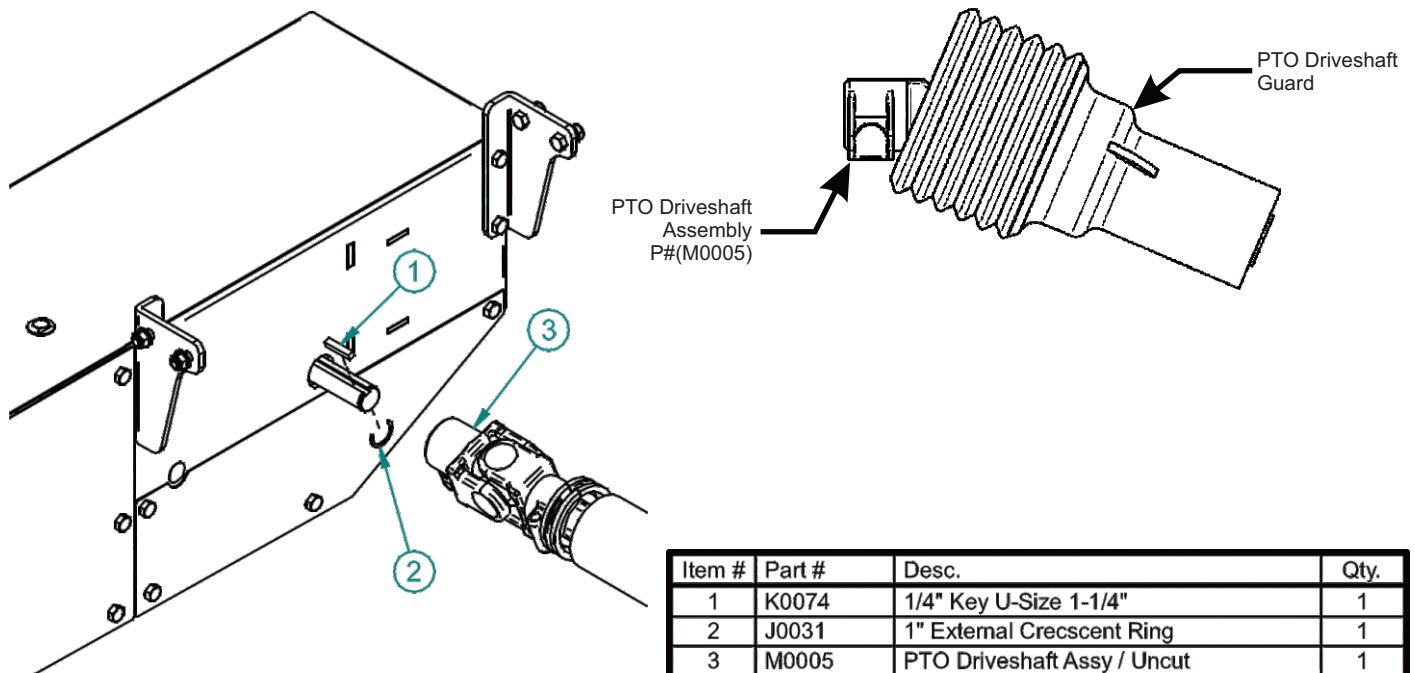
The PTO Driveshaft Assembly will need to be cut to fit your tractor. Please refer to the instructions included with your Driveshaft Assembly.

Once the PTO Drive Assy has been installed onto your collection unit, connect the Driveshaft (Item #3) to the PTO Drive Assy using (1) 1/4" Brass Key (Item #1) and (1) 1" External Crescent Ring (Item #2). Tighten the shaft clamping bolts to secure the Driveshaft. Refer to Figure B.



Figure A

Figure B



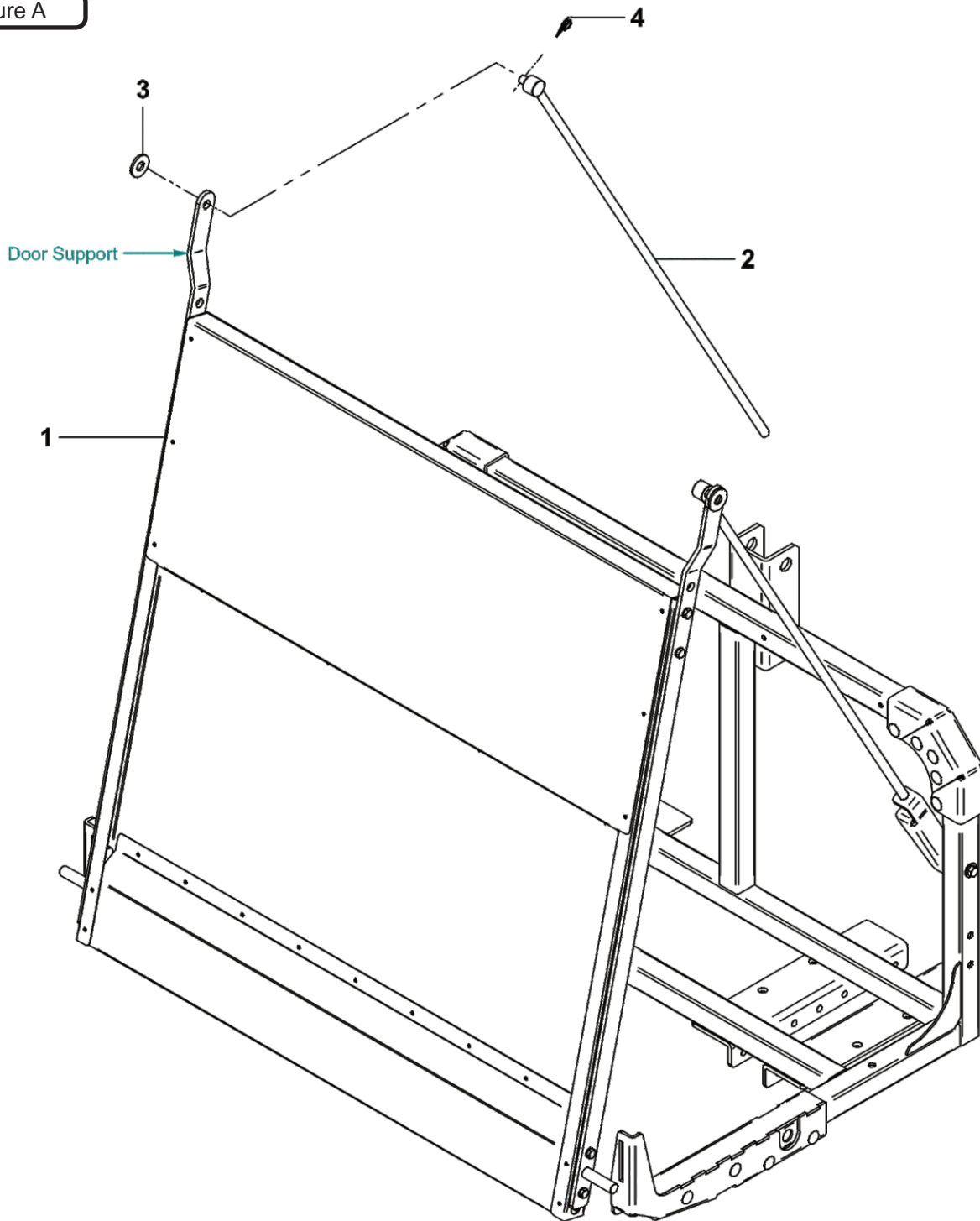
Item #	Part #	Desc.	Qty.
1	K0074	1/4" Key U-Size 1-1/4"	1
2	J0031	1" External Crescent Ring	1
3	M0005	PTO Driveshaft Assy / Uncut	1

Door Rod Pivot Assembly & Installation

Install the Door Rod Assembly (Item #2) to the Door Assembly (Item #1) by inserting the top end of the Door Rod Assy into the hole of the Door Support of the Door Assy. Secure the Door Rod Assy by using (1) Rue Ring Cotter Pin (Item #3) and (1) 1/2" Flat Washer (Item #4) per Door Rod Assy. Refer to Figure A below.

NOTE: Some part features have been hidden from view for visual clarity.

Figure A



Item #	Part #	Desc.	Qty.
1	A0191	Door Assembly	1
2	A0476	Door Rod Assy.	2
3	K0055	Flat Washer 1/2" / 1.383 OD x .560 ID x .120 T	2
4	K1437	Rue Ring Cotter Pin	2

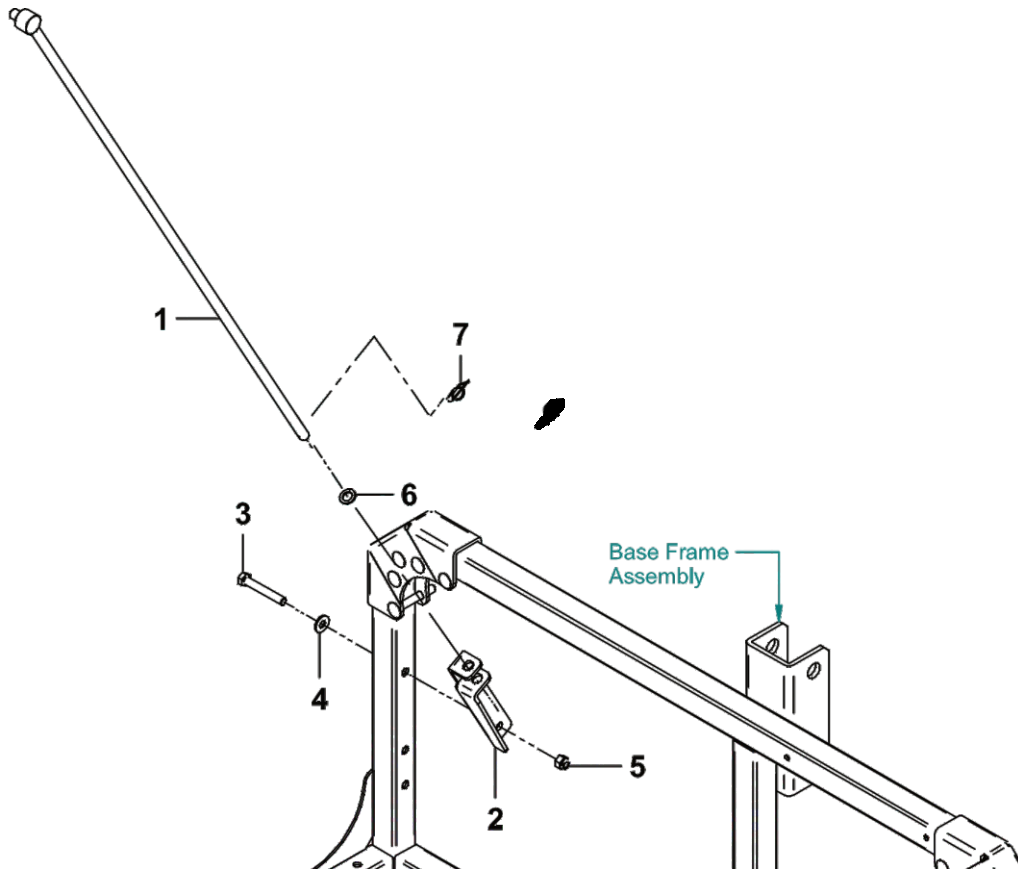
Door Rod Pivot Assembly & Installation (Continued)

Next, assemble the Door Rod Pivot to the Base Frame Assembly by placing the straight end of the Door Rod Assembly (Item #1) through the Door Rod Pivot (Item #2). Secure each Door Rod Assy to the Door Rod Pivot with (1) 1/8" Hair Pin Clip (Item #6) and (1) 1/2" Flat Washer (Item #7). Refer to B.

Align the bolt holes of the Door Rod Pivot to the holes on the Base Frame Assy and secure the Door Rod Pivot by using (1) 3/8" x 2-1/2" HHCS (Item #3), (1) 3/8" Flat Washer (Item #4) and (1) 3/8"-16 Nyloc Nut (Item #5). Refer to Figure B below.

NOTE: Some features have been hidden from view for visual clarity.

Figure B



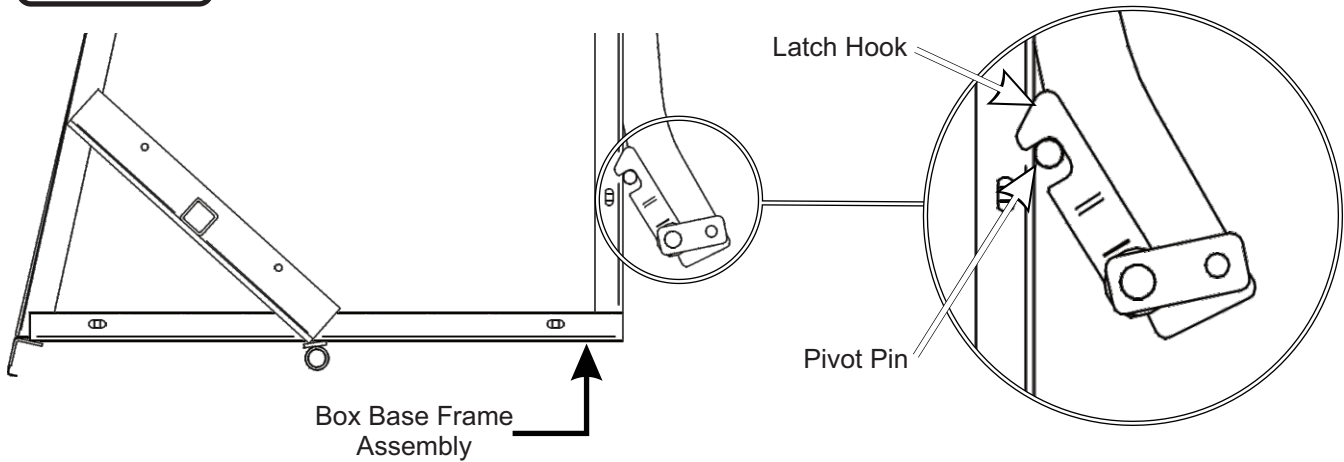
Item #	Part #	Desc.	Qty.
1	A0476	Door Rod Assy.	1
2	B1931	Linkage Bracket Right	1
3	K1197	3/8"-16 X 2 1/2" HHCS	1
4	K0042	Flat Washer 5/16" / .875 OD x .380 ID x .075 T	1
5	K1216	Nyloc Nut / 3/8"-16	1
6	K0027	Flat Washer 1/2" / .787 OD x .512 ID x .090 T	1
7	K1437	Rue Ring Cotter Pin	1

Latch Handle Assembly Installation

Align and set the Latch Hook of the Latch Assembly (Item #2) to the Pivot Pin of the Box Base Frame Assembly. Refer to Figure A.

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

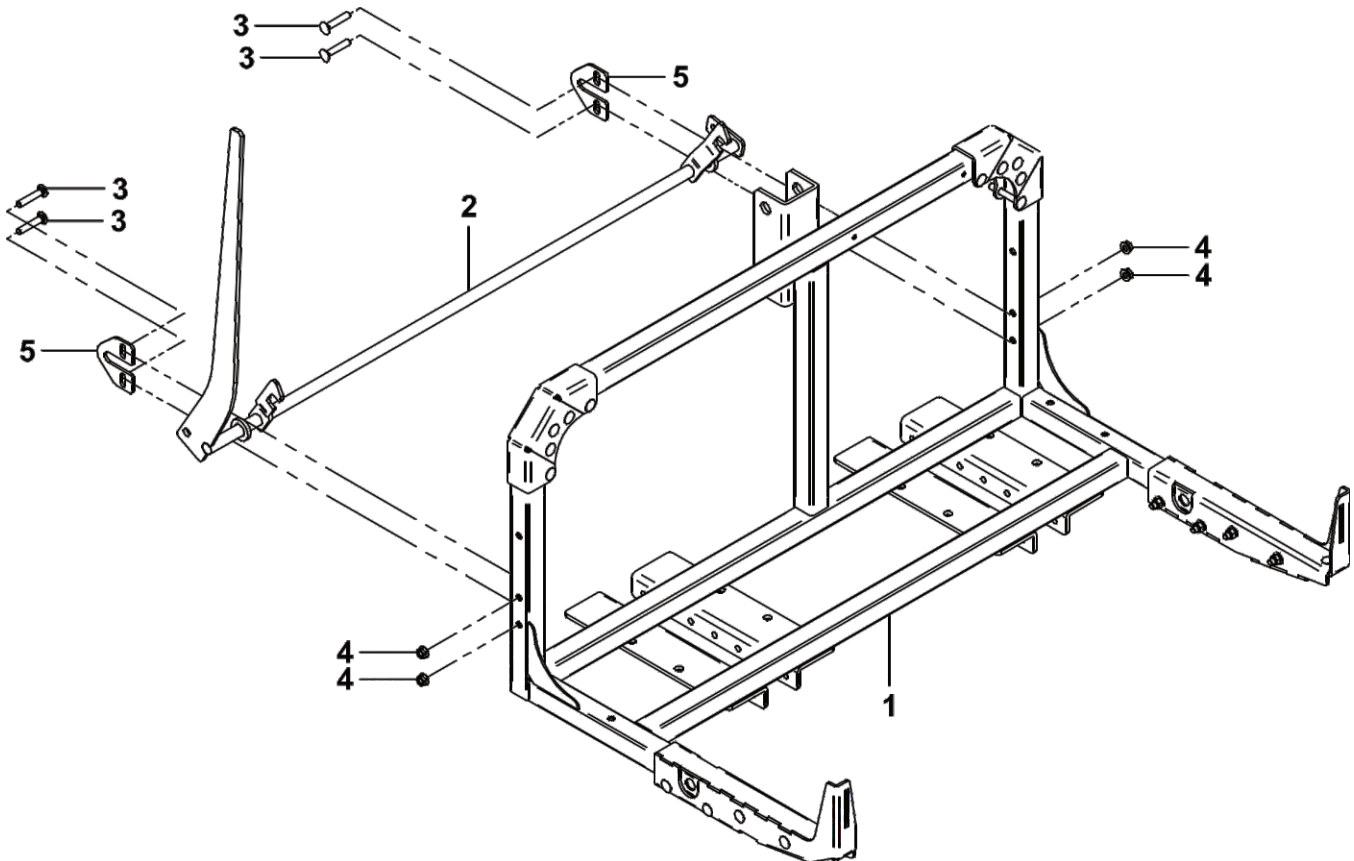
Figure A



Secure the Latch Assy to the Base Frame (Item #1) by positioning the Latch Assembly between (2) Latch Clamps (Item #5) on the left and right side of the Base Frame. Fasten the Latch Clamp to the Base Frame Assy by using (2) 3/8"-16 x 2" Carriage Bolts (Item #3) and (2) 3/8"-16 Flange Nuts (Item #4) per side. Refer to Figure B.

Figure B

Item #	Part #	Desc.	Qty.
1	A2236	Base Frame / Pro 22DFS	1
2	A0492	Latch Assembly	1
3	K1184	Carriage Bolt 3/8"-16 x 2"	4
4	K1215	Flange Nut 3/8"-16	4
5	B1172	Latch Clamp	2



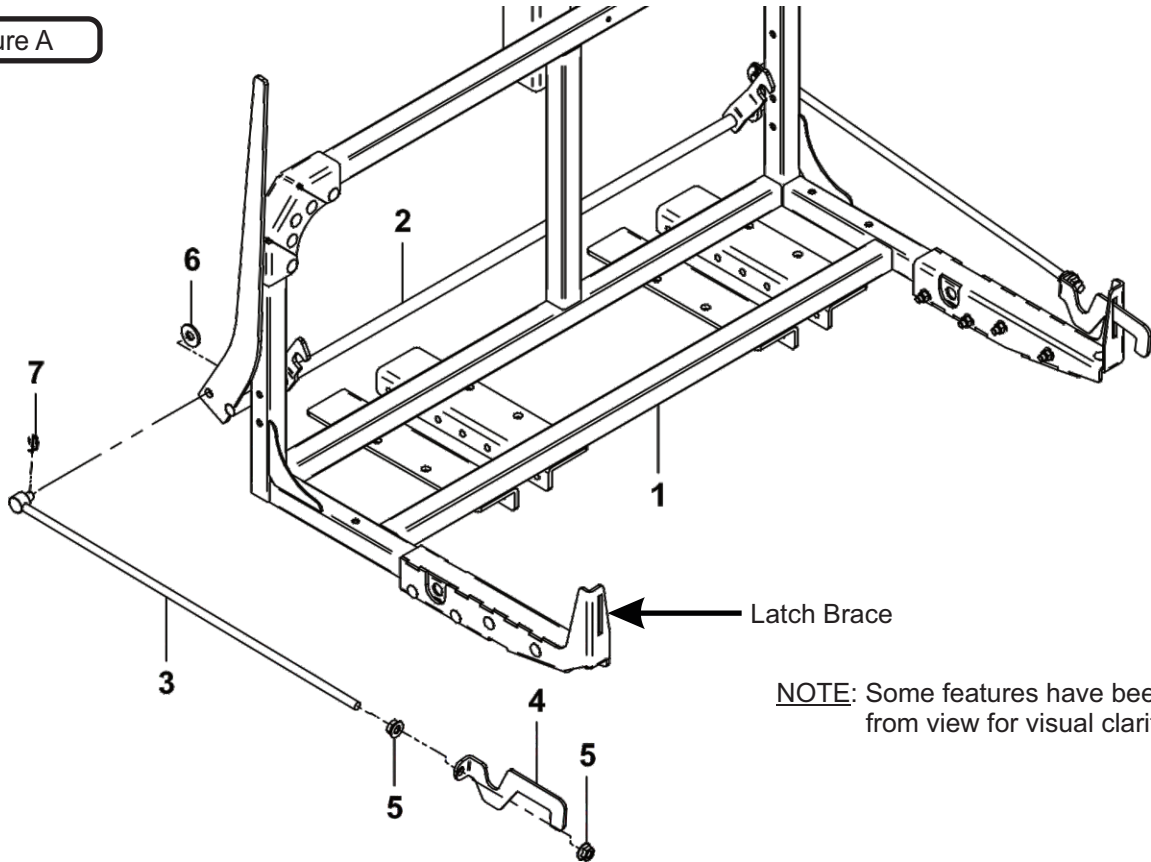
Latch Rod Assembly & Installation

Align and position the Latch Rod Assembly (Item #3) into the Handle of the Latch Assembly (Item #2). Secure the Latch Rod Assy by using (1) Rue Ring Cotter Pin (Item #7) and (1) 1/2" Flat Washer (Item #6).

Next, position the Latch Release Lever through the of the Base Frame Assembly (Item #1) and over the Latch Pin of the Door Assy. Secure the Latch Release Lever to the Latch Rod Assy by using (2) 1/2"-13 Flange Nuts (Item #5). Refer to Figures A and Figure B below.

Repeat the same procedures to the right side of the Base Frame Assy.

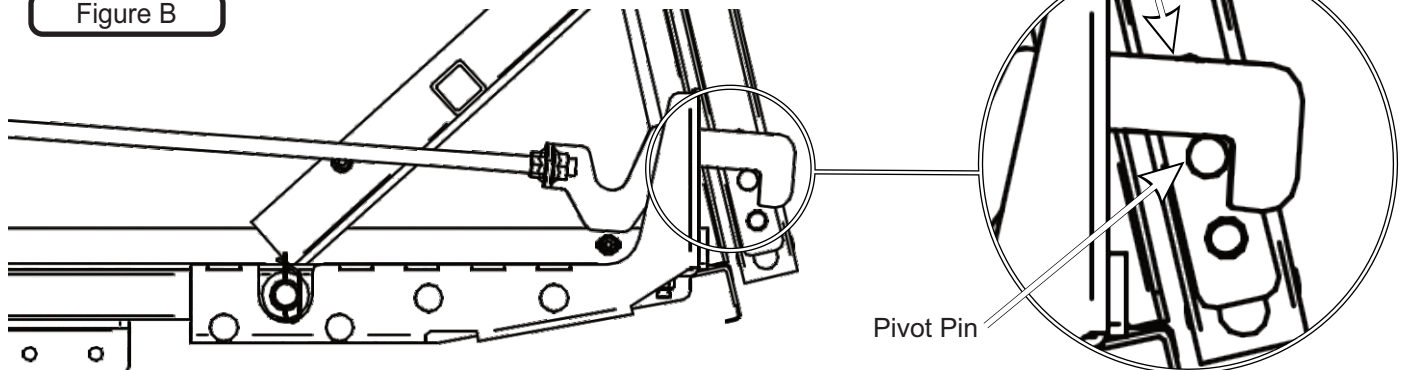
Figure A



NOTE: Some features have been hidden from view for visual clarity.

Item #	Part #	Desc.	Qty.
1	A2236	Base Frame / Pro 22DFS	1
2	A0492	Latch Assembly	1
3	A0366	Latch Rod Assembly	2
4	B1418	Latch Release Lever / Right	1
5	K1246	Flange Nut 1/2"-13	4
6	K0055	Flat Washer 1/2" / 1.383 OD x .560 ID x .120 T	4
7	K1437	Rue Ring Cotter Pin	5

Figure B



Inlet, Inlet Ring & Debris Deflector Installation

Open box door. From inside box, slide Inlet (Item #4) halfway into inlet hole (See Figure A). Take each half of the Inlet Ring (Item #2) and attach around matching groove in Inlet (Item #4). Slide Inlet (Item #4) & Inlet Ring (Item #2) against inlet hole and align four holes. Fasten Inlet Ring (Item #2) bottom holes using (2) 5/16" IT Tooth Lock Washers (Item #6) & (2) 5/16"-18 x 1/2" HHCS (Item #8) (See Figure B). Fasten Inlet Ring (Item #1) top holes using (2) 5/16" IT Tooth Lock Washers (Item #6) & (2) 5/16"-18 x 1-1/4" HHCS (Item #7). Slide Debris Deflector (Item #3) over inside top bolt threads (Item #7). Fasten Debris Deflector (Item #3) using (2) 5/16"-18 Ny-Flange Lock Nuts (Item #5). Final assembly should resemble Figure C.

Figure A

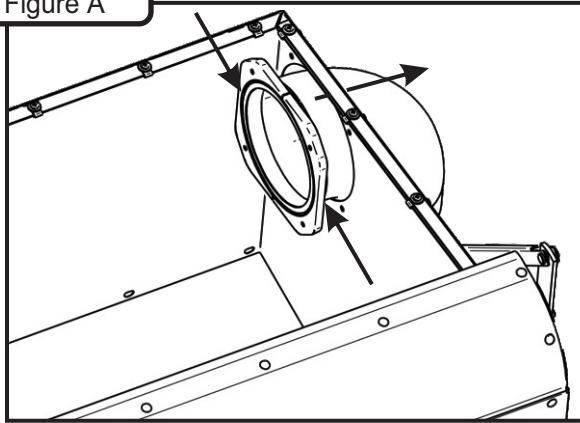


Figure C

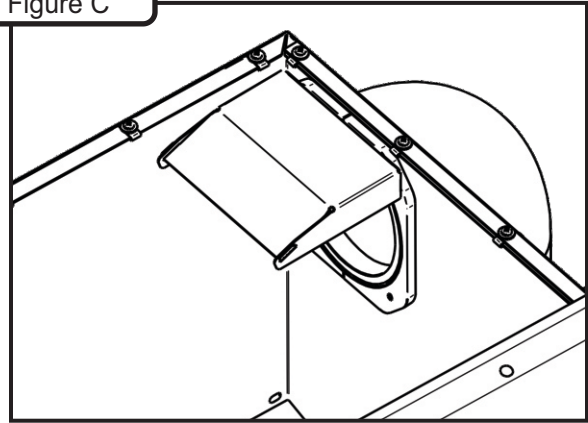
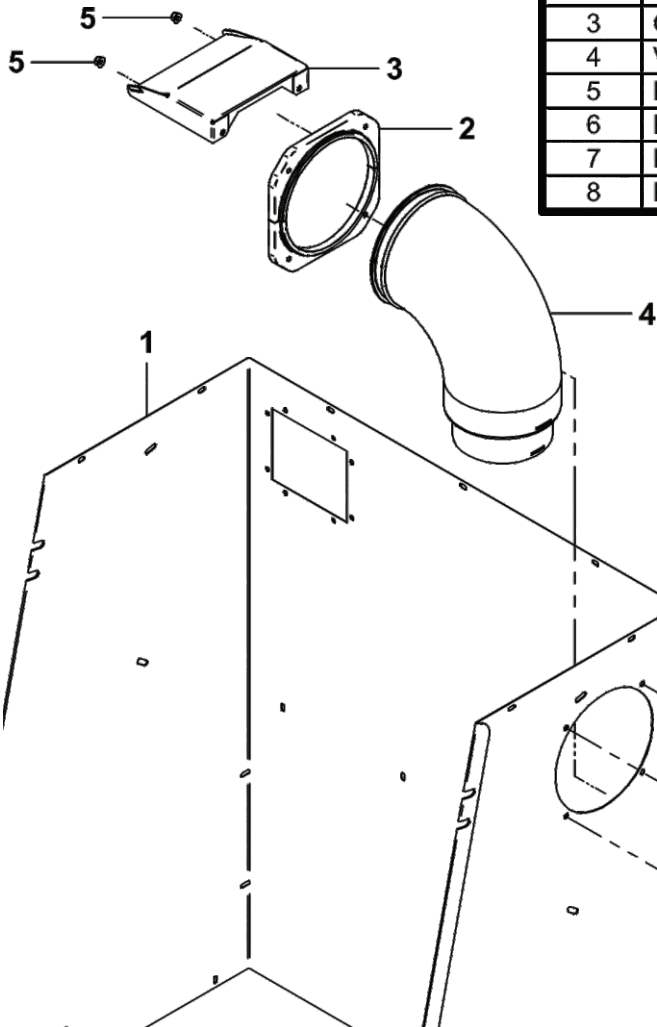


Figure B



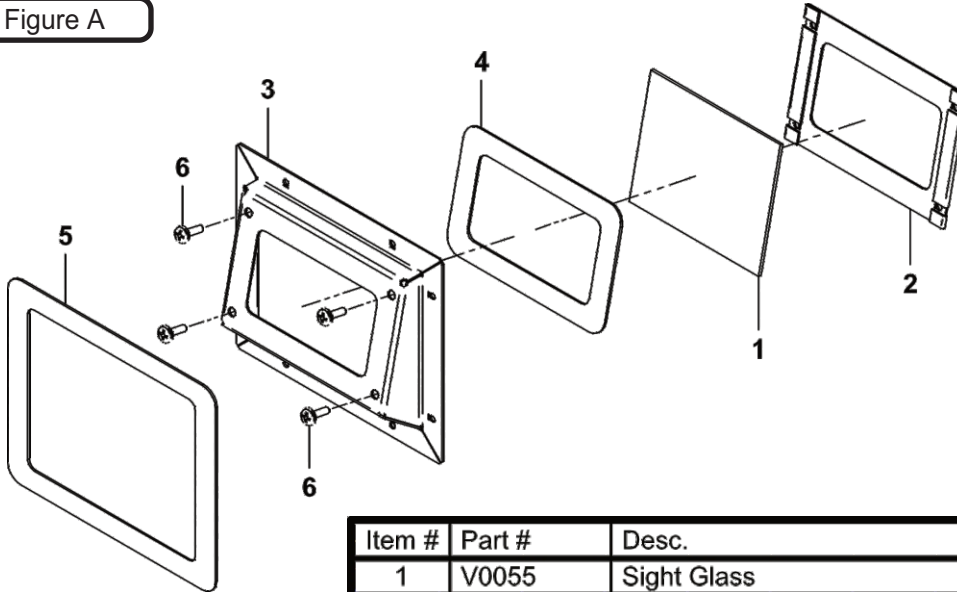
Item #	Part #	Desc.	Qty.
1	C1168_01	Box Back & Sides	1
2	C0074	Inlet Ring	1
3	C0088	Debris Deflector	1
4	V0025	Universal Inlet / 6" & 7"	1
5	K2516	Ny-Flange Lock Nut 5/16"-18	2
6	K0044	I/T Tooth Lock Washer 5/16"	4
7	K1156	5/16"-18 x 1-1/4" HHCS	2
8	K1152	HHCS 5/16"-18 x 1/2"	2

NOTE: Some features have been hidden from view for visual clarity.

Sight Glass Kit Installation

Refer to Figure A for the complete breakdown of the Sight Glass Kit Part#(A2229).

Figure A



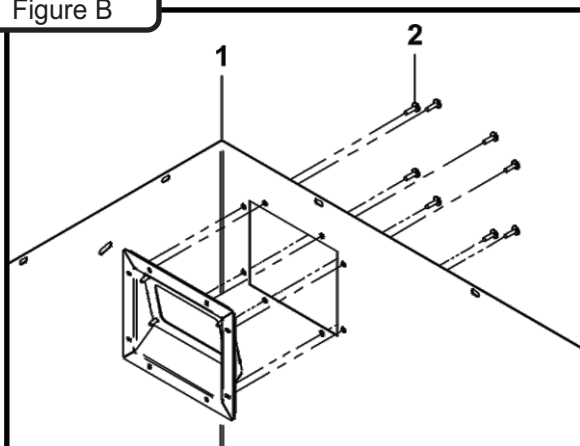
Item #	Part #	Desc.	Qty.
1	V0055	Sight Glass	1
2	C0099	Sight Glass Clamp	1
3	C0098	Sight Glass Mount	1
4	V0057	Sight Glass Seal	1
5	V0056	Glass Mount Seal	1
6	K0010	#10-12 x 3/4" SHARP TIP SMS	4

Open the Aluminum Box door. From inside of the Box, slide the assembled Sight Glass Kit into the window in the rear. Align the 8 screw holes of the Sight Glass Kit to those on the Aluminum Box and fasten the Sight Glass Kit to the Aluminum Box by using (8) #10-12 x 3/4" Sheet Metal Screws (Item #2). Refer to Figure B.

Refer to Figure C for the completed installation of the Sight Glass Kit.

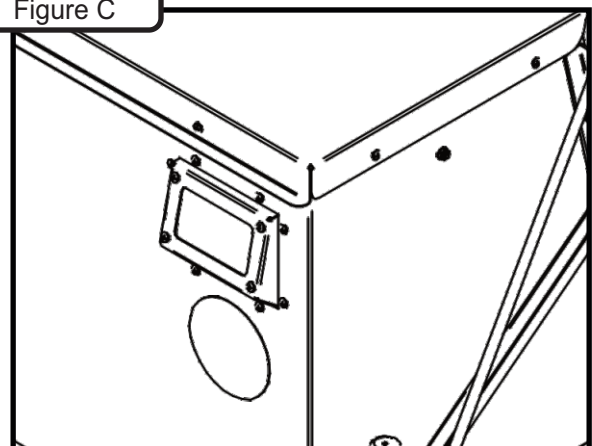
Note: Some parts and part features have been hidden from view for visual clarity.

Figure B



Viewed from the inside of the box.

Figure C



Viewed from the left rear side of the box.

Item #	Part #	Desc.	Qty.
1	C1168_01	Box Back & Sides	1
2	K0010	#10-12 x 3/4" SHARP TIP SMS	12

Slow Moving Vehicle Label Installation

The Slow Moving Vehicle (SMV) Label will need to be visible from the back of your tractor if you're required to have one. If the Collection Unit is obstructing the SMV Label from view, the SMV Label will need to be repositioned. To reposition the SMV Label that came with your tractor, first, install the SMV Sign Mount (Item #1) to the base of the Main Frame Assy of your grass collection unit.

Align the bolt holes of the SMV Sign Mount (Item #1) to those located on top of the Main Frame Tube. Secure the SMV Sign Mount to the Main Frame Tube by using (2) 3/8"-16 x 2-1/2" HHCS (Item #3), (2) 3/8" Flat Washers (Item #4) and (2) 3/8"-16 Ny-Flange Lock Nuts (Item #5). Refer to Figure A.

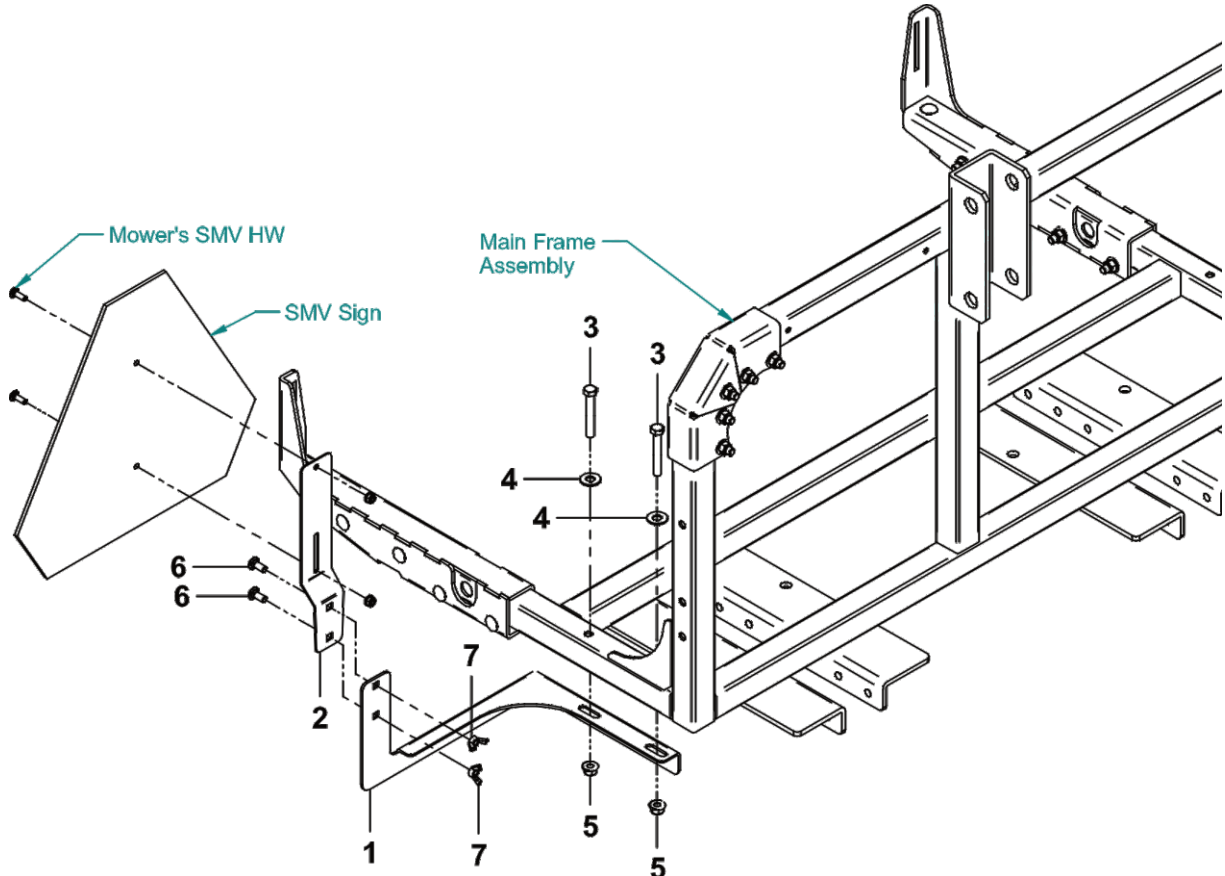
Next, install the Safety Triangle Mount (Item #2) to the SMV Sign Mount by using (2) 5/16"-18 x 3/4" Carriage Bolts (Item #6) and (2) 5/16"-18 Wing Nuts (Item #7). Refer to Figure A.

Once the Safety Triangle Mount is secured, mount your SMV Sign to the Safety Triangle Mount by using the mower's SMV hardware that was initially used to secured the SMV Sign. Refer to Figure A.

NOTE: Some features have been hidden from view for visual clarity.

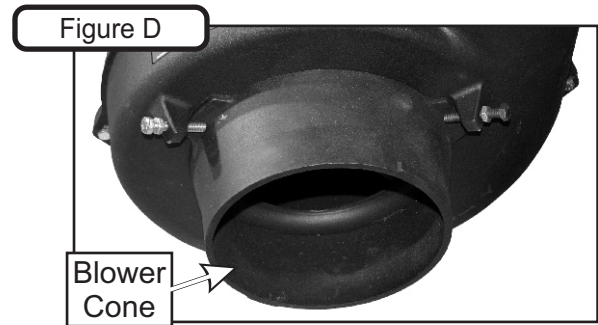
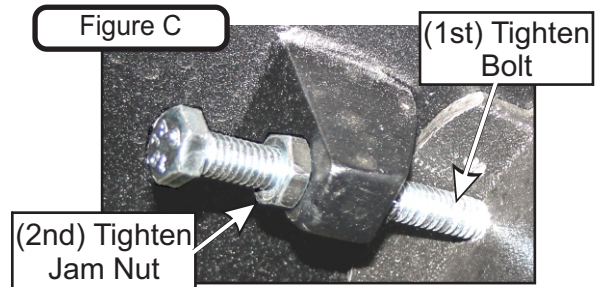
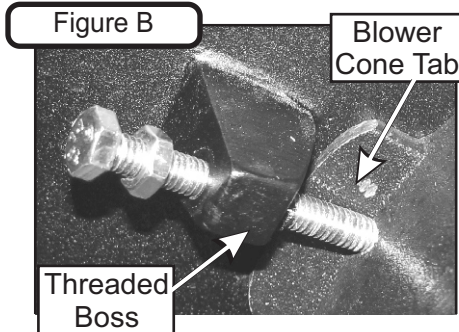
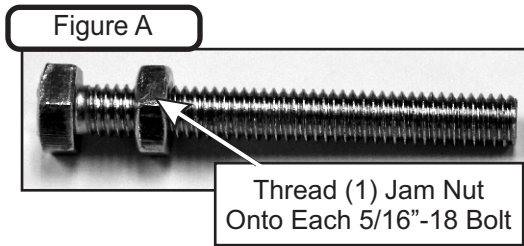
Figure A

Item #	Part #	Desc.	Qty.
1	B1927	SMV Sign Mount	1
2	B2022	Safety Triangle Mount	1
3	K1197	3/8"-16 X 2 1/2" HHCS	2
4	K0047	Flat Washer 3/8" / 1.00 OD x .446 ID x .075 T	2
5	K2038	Ny-Flange Lock Nut 3/8"-16	2
6	K1142	5/16"-18 x 3/4" Carriage Bolt	2
7	K0141	WIng Nut 5/16"-18 Zinc	2



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), refer to Figure A. Next, partially thread (1) bolt into each of the two threaded bosses located on the Blower Housing. Position the Blower Cone so the tabs line up with the bolts and tighten completely, refer to Figure B. Once the (2) bolts are tight, tighten the Jam Nuts against the threaded boss, refer to Figure C. See Figure D for proper Blower Cone installation.



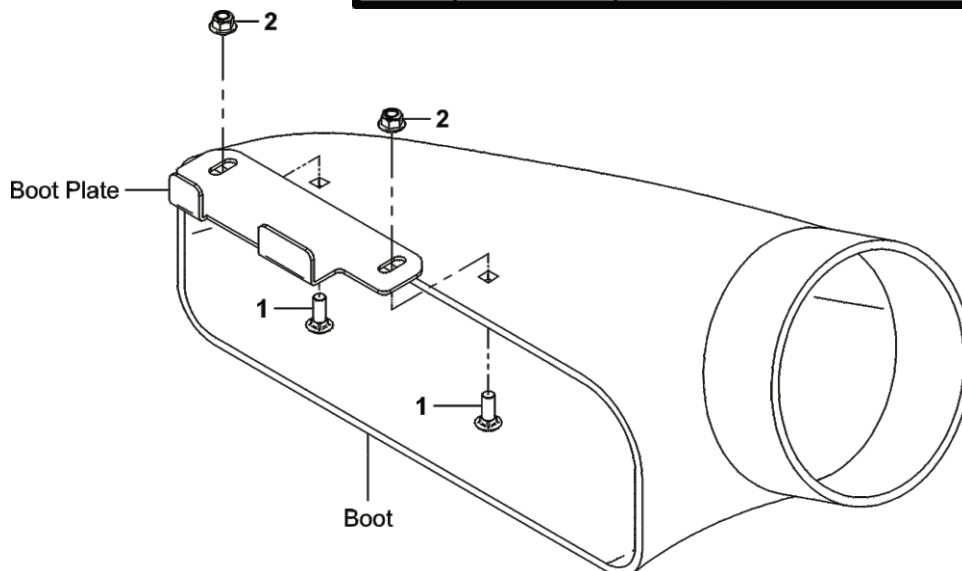
Boot Kit Assembly & Installation

Note: The following instructions are not specific to any tractor or model. The Boot Kit you receive maybe different than the one shown, it is recommended to use this set of instruction as a guide to installing your Boot Kit if a specific Instruction Sheet is not provided along with your Boot Kit.

Secure the Boot Plate to the Boot using (2) 3/8"-16 x 1" Carriage Bolts (Item #1) and (2) 3/8"-16 Ny-Flange Lock Nuts (Item #2). 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 A below.

Figure A

Item #	Part #	Desc.	Qty.
1	K1182	Carriage Bolt 3/8"-16 x 1"	2
2	K2038	Ny-Flange Lock Nut 3/8"-16	2



Boot Kit Assembly & Installation (Continued)

To install the Boot to the tractor deck, position the Boot to the deck discharge opening and rotate the Boot so that the tabs of the Boot Plate are horizontal and parallel with the deck. Refer to Figure B. With the discharge chute up, align and slide the tabs of the Boot Plate under the discharge chute and rotate the boot back to its original position. The Boot Plate should sit behind the discharge chute as shown in Figure C.

If your Boot Kit has a Boot Plate with mounting tabs and comes with (1) Boot Rod & (1) Hair Pin Clip, then align the Boot Plate mount tabs with those on the tractor's discharge tabs. Secure the Boot Plate using the Boot Rod & Hair Pin Clip, refer to Figure D below.

Figure B

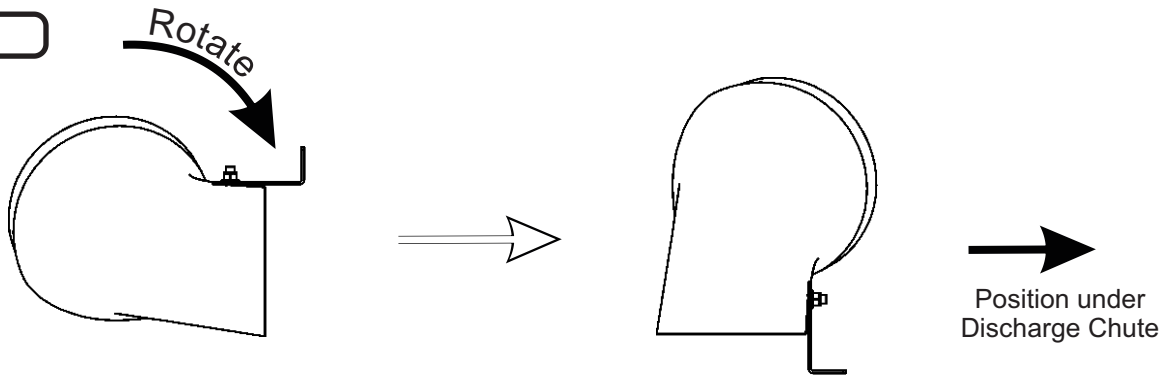


Figure C

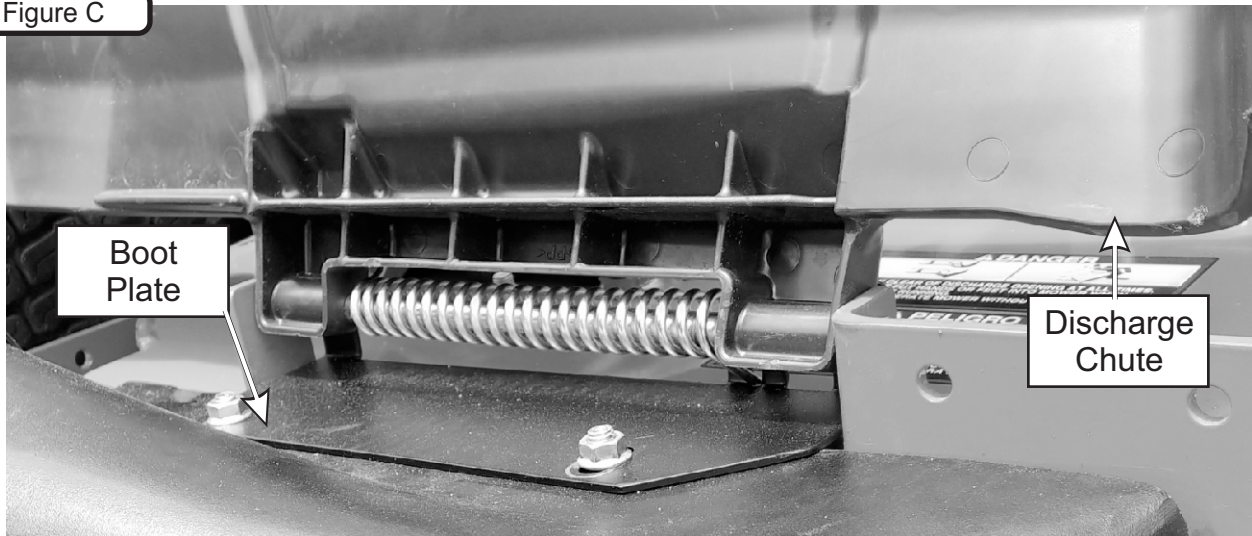
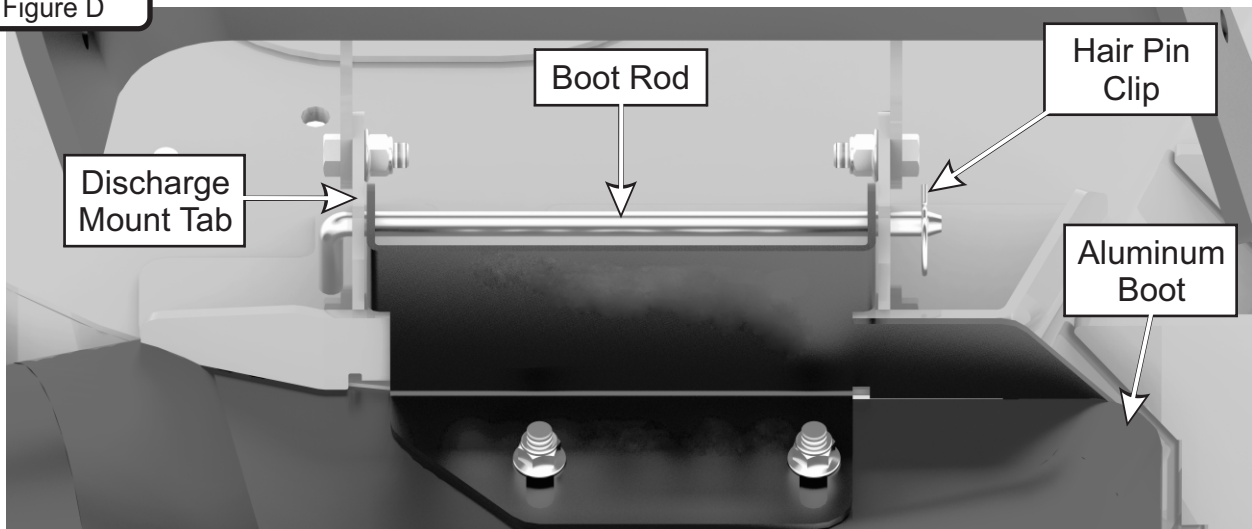


Figure D



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 both ends of the 6" Upper Hose. Secure one end of the Upper Hose to the Inlet and Blower Outlet. Fasten the Hose by tightening the Hose Clamps.

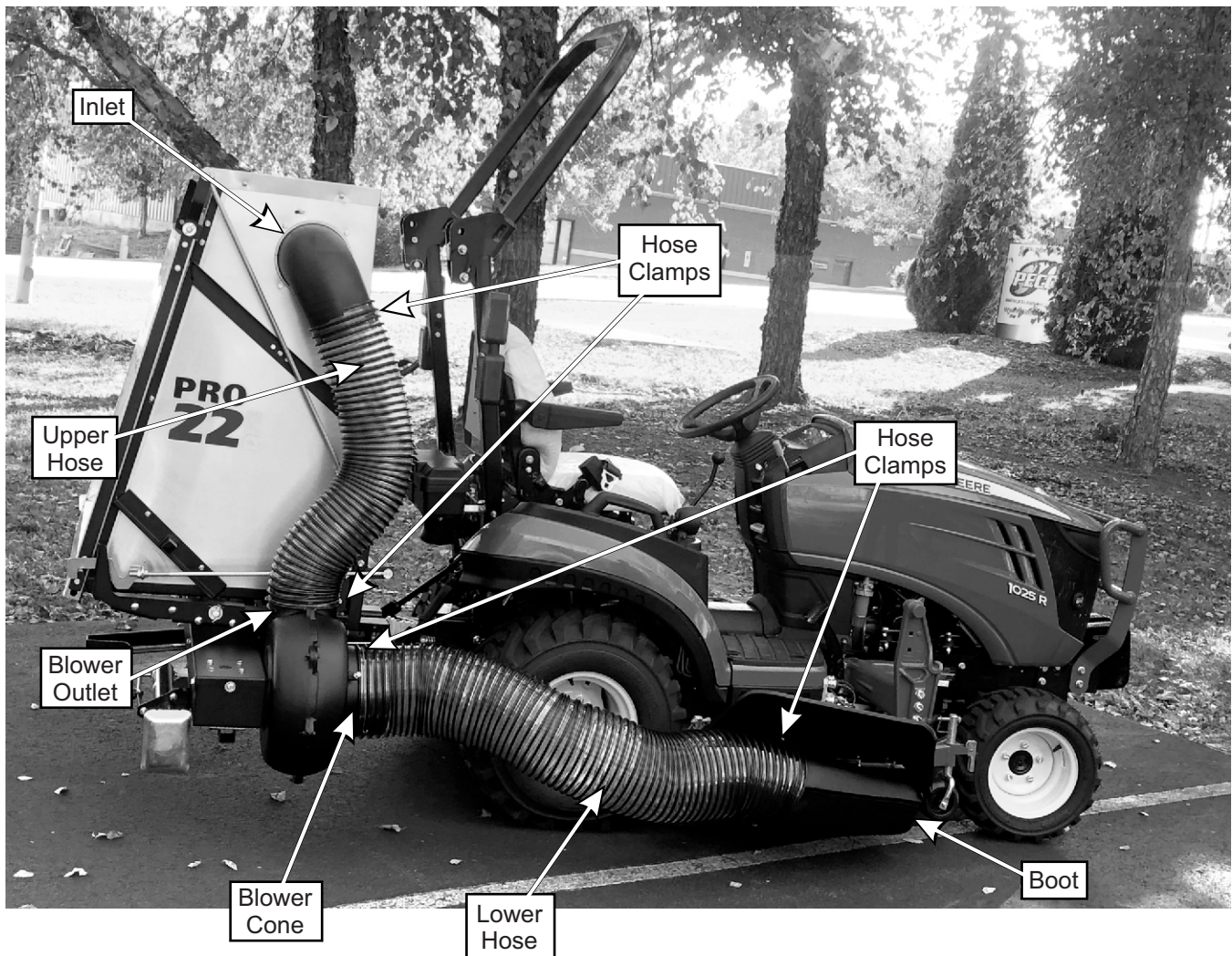
Lower Hose To Blower Cone Installation

Slide a Hose Clamp, P#(J0070) or P#(J0080), over both ends of the, 7" or 8", Lower Hose. Secure one end of the Lower Hose to the Blower Cone. Fasten the Hose 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.

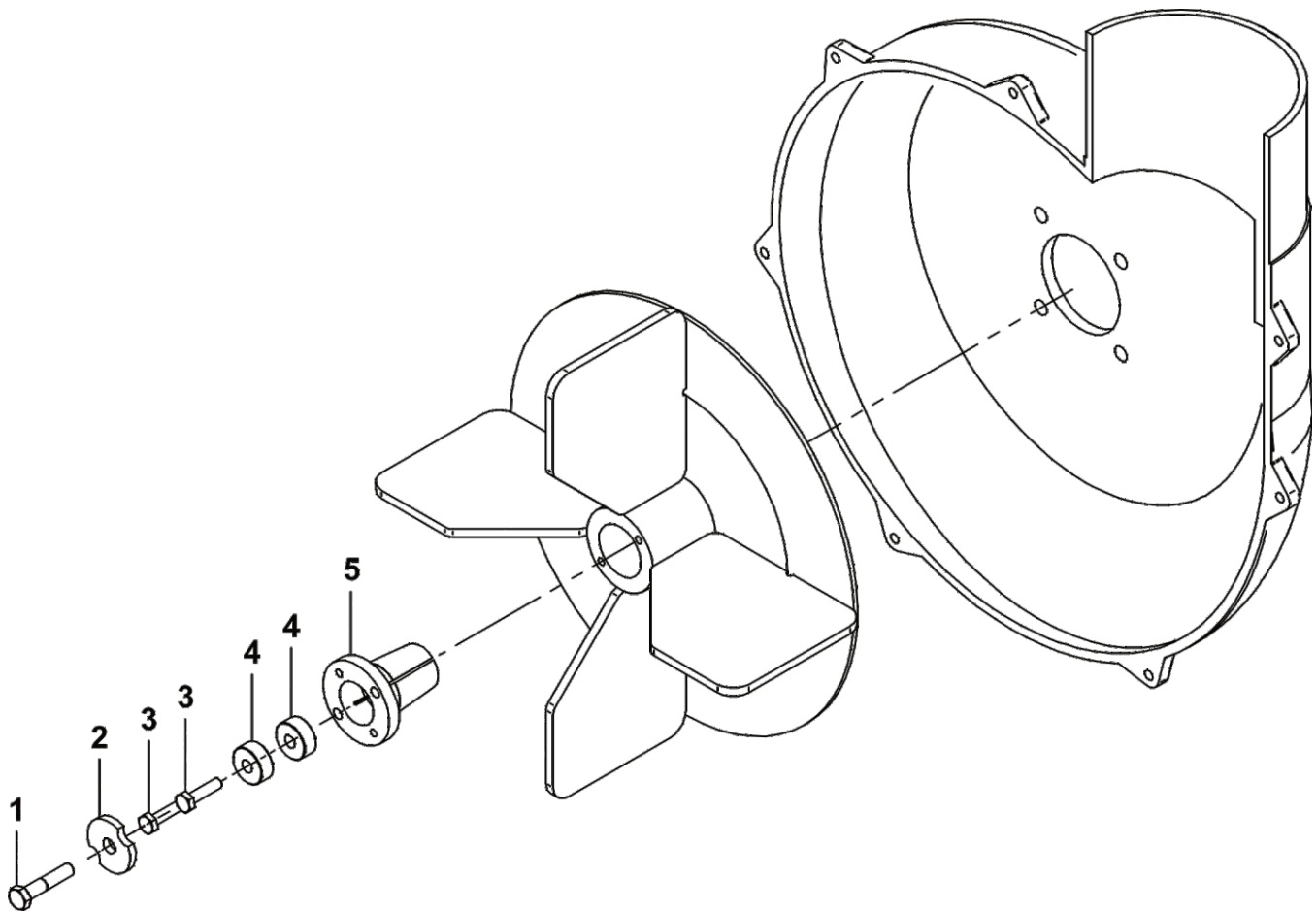


Impeller Blade Removal/Replacement

To Remove: First remove the 7/16"-20 x 1" HHCS P#(K1394) (#1), 7/16" Double Indented Washer P#(K0278) (#2) and (2) 3/8" x 15/16" Bushing P#(S0159) (#4) from the Taper-Lock Bushing P#(S4302) (#5). Next remove the (2) 1/4"-20 x 1" HHCS (#3) 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: Firstly, apply anti-seize to the 7/16"-20 x 1" HHCS (#1). Next, place the 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 (#3), (2) 3/8" x 15/16" Bushing P#(S0159) (#4), (1) 7/16" Double Indented Washer (#2), and (1) 7/16"-20 x 1" HHCS (#1).

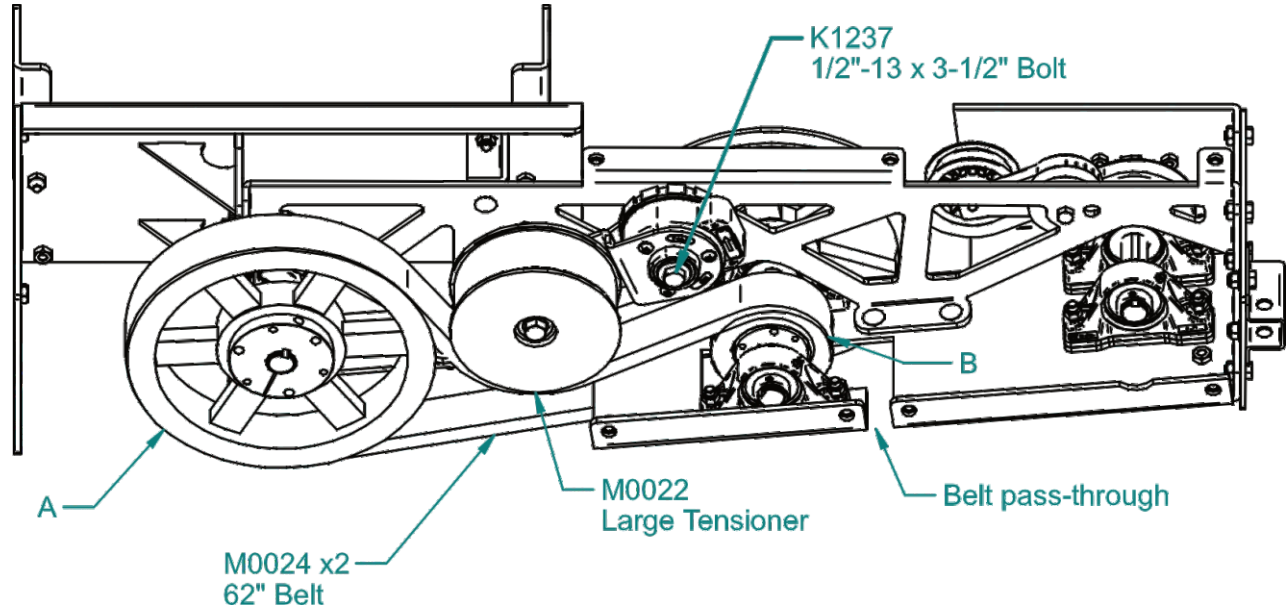
Torque to the proper specifications in the torque chart on the back of this manual. Next, rotate the Impeller Blade to ensure that the blade is clear of contact on all sides of the blower housing.



Input Belt Removal/Replacement

To Remove: With the covers removed (See Page 37) carefully loosen the 1/2"-13 x 3-1/2" Bolt (P#K1237) at the center of the Large Tensioner (P#M0022). Do not fully remove. Remove the (2) 62" Belts (P#M0024) from the Large Pulley (A) and remove through the gap in the chassis.

See Figure Below.



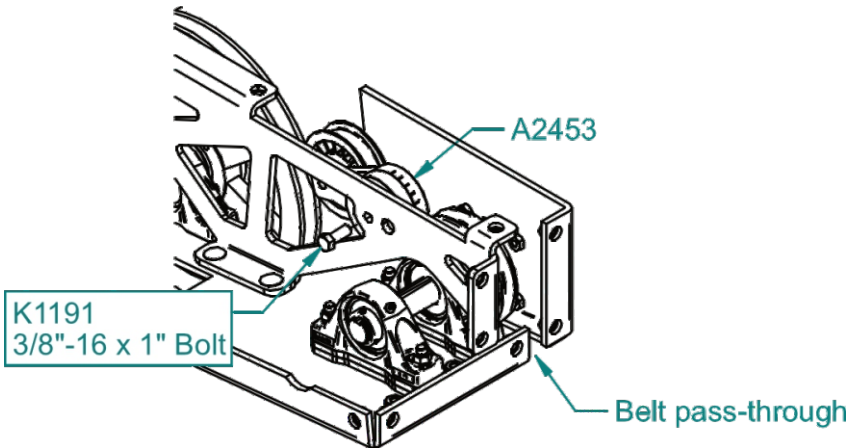
To Replace: Install (2) 62" Belts onto the pulleys and rest the tensioner in place. Using the included wrench (P#V0071) tighten the tensioner and fully tighten the bolt.

Output Belt Removal/Replacement

To Remove: Remove the covers (See Page 37), End Plate (P#B2110), and (6) 3/8"-16 x 3/4" Bolts (P#K1190). Next carefully loosen the 3/8"-16 x 1" Bolt (P#K1191) to remove tension. Do not fully remove. Remove the 52" Belt (P#M0023) from the Large Pulley (C) then remove through the belt pass-through slot.

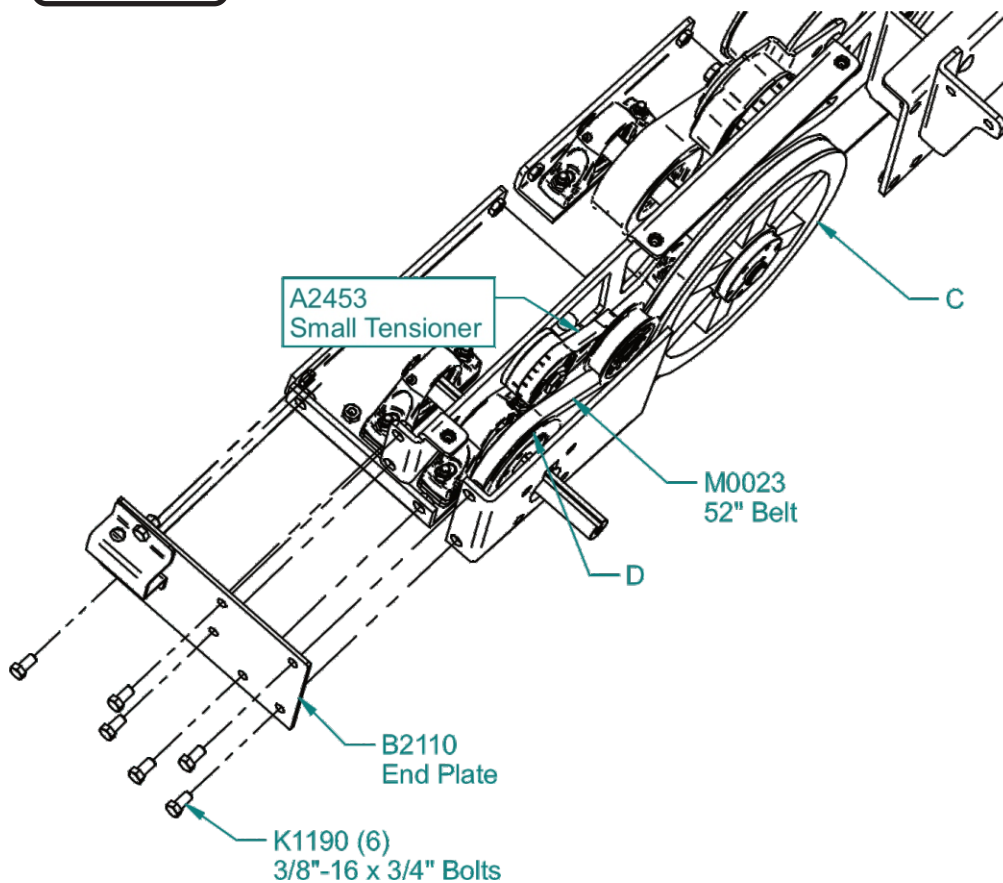
See Figures Below.

Figure A

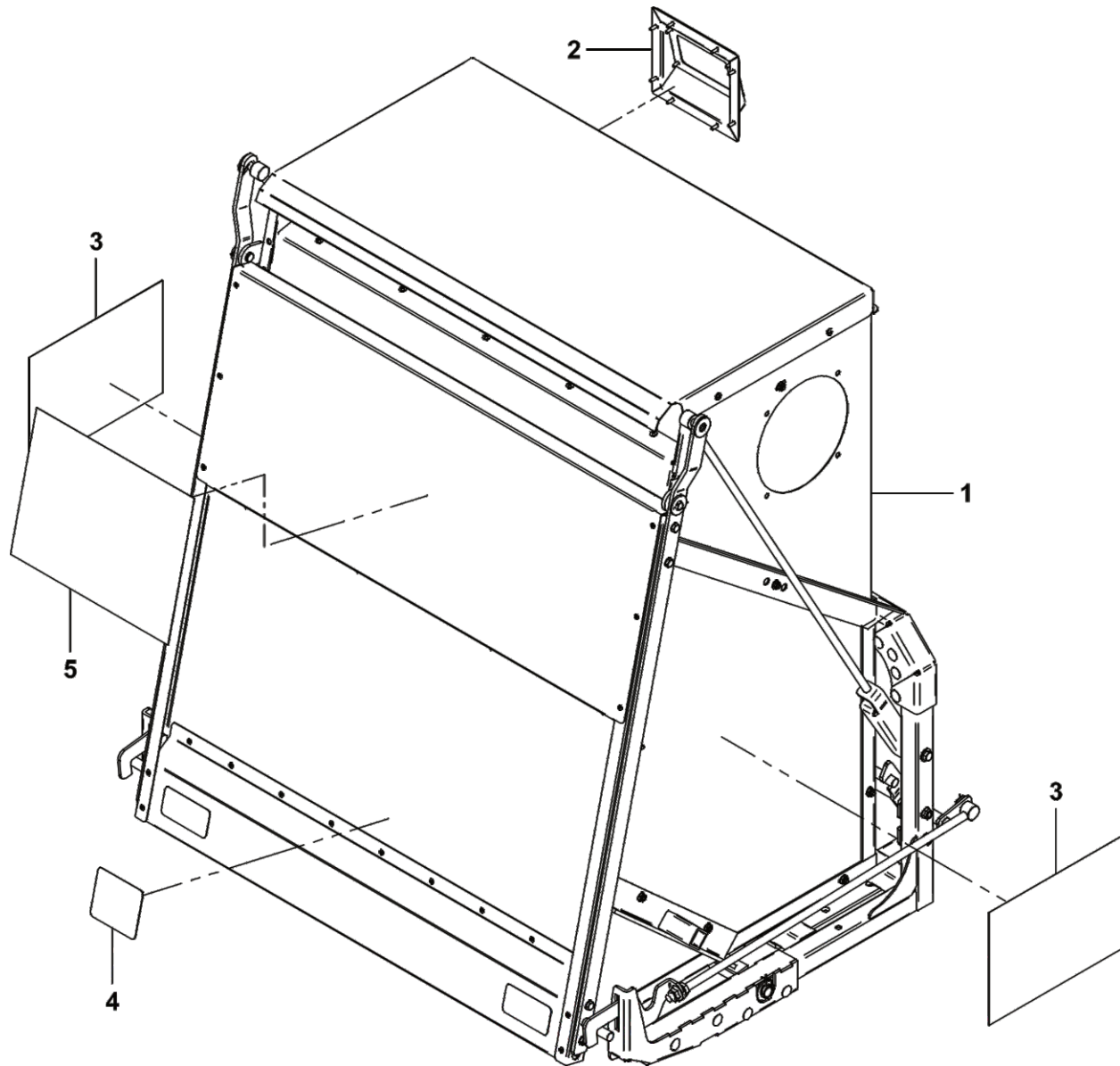


To Replace: Install the 52" Belt onto the pulleys and rest the tensioner in place. Using a 15/16" wrench rotate the tensioner to max then back off a quarter turn and fully tighten the 3/8"-16 x 1" Bolt (P#K1191).

Figure B



A7501 Pro22 DFS Exploded View

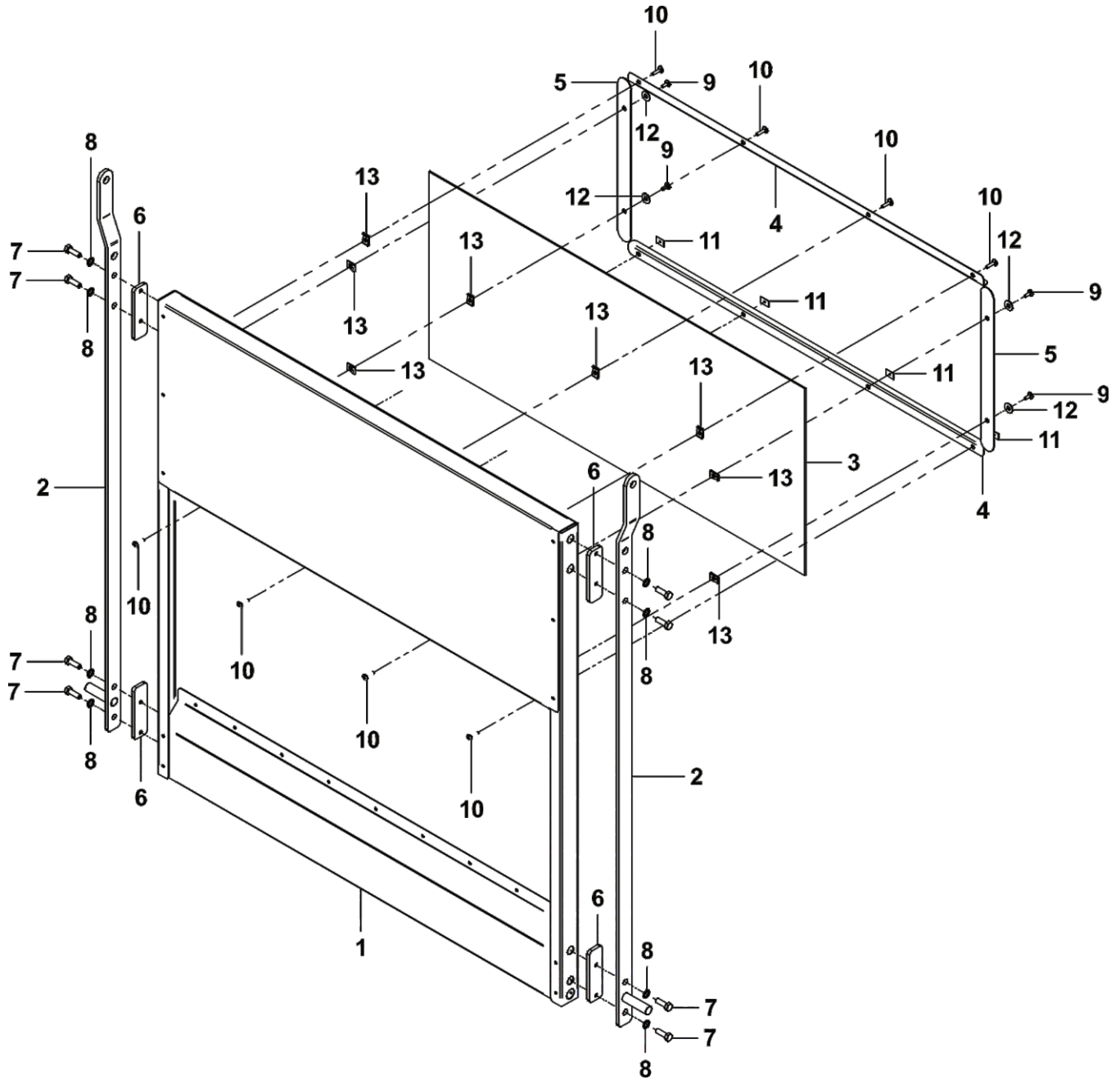


Item #	Part #	Desc.	Qty.
1	A7500	Pro 22DFS / Base Model	1
2	A2229	Sight Glass Kit	1
3	R0033	Decal / Pro22 Logo	2
4	R1053	Decal / Caution	1
5	R0028	PECO Logo / Large	1

A7500 Pro22 DFS / Base Model Exploded Parts List

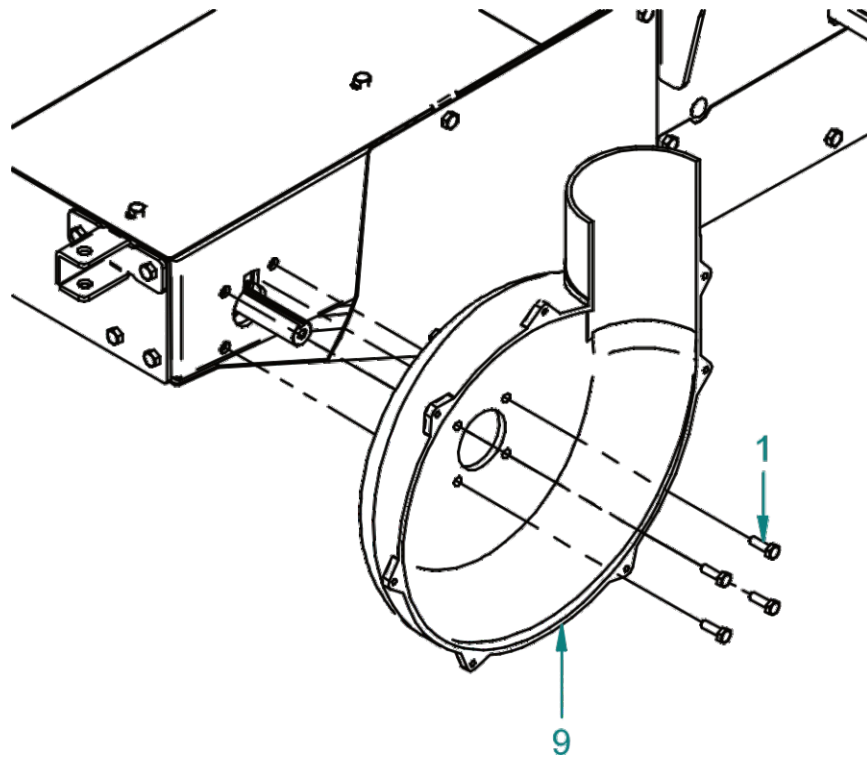
Item #	Part #	Desc.	Qty.
1	A0163_01	Aluminum Box Assembly	1
2	A0135	Box Base Frame	1
3	A2236	Base Frame / Pro 22DFS	1
4	A0191	Door Assembly	1
5	A0953	Screen Frame	1
6	A0492	Latch Assembly	1
7	A0366	Latch Rod Assembly	2
8	A0476	Door Rod Assy.	2
9	B1418	Latch Release Lever / Left	1
10	B1418	Latch Release Lever / Right	1
11	B4274	Pivot Rod	1
12	B8131	Screen	1
13	C1167	Box Top	1
14	K0055	Flat Washer 1/2" / 1.383 OD x .560 ID x .120 T	6
15	K1437	Rue Ring Cotter Pin	8
16	K1197	3/8"-16 X 2 1/2" HHCS	2
17	K1216	Nyloc Nut / 3/8"-16	2
18	K0042	Flat Washer 5/16" / .875 OD x .380 ID x .075 T	2
19	K0027	Flat Washer 1/2" / .787 OD x .512 ID x .090 T	2
20	K0047	Flat Washer 3/8" / 1.00 OD x .446 ID x .075 T	2
21	K0061	3/4" Flat Washer / 1.486 OD x .810 ID x .147 T	2
22	K1404	3/4" Rue Ring	2
23	K1418	Linkage Pin	2
24	K1184	Carriage Bolt 3/8"-16 x 2" / Zinc / GR5	4
25	K1215	Flange Nut 3/8"-16	4
26	J0522	Handle Grip / Round Black / .800 ID	1
27	B1172	Latch Clamp	2
28	K1246	Flange Nut 1/2"-13	4
29	K1010	1/4"-20 x 5/8" Carriage Bolt	20
30	K1126	Flange Nut 1/4"-20	22
32	K2516	Ny-Flange Lock Nut 5/16"-18	2
33	K1144	5/16"-18 x 1" Carriage Bolt	2
34	K0028	Tinnerman Clip / Small	7
35	K1092	#10-12 x 3/4" Blunt Tip SMS	7
36	K1096	#10-12 x 1/2" Tinnerman Screw	9
37	K1005	1/4"-20 x 1/2" Carriage Bolt	2
38	K0029	#10-12 Flat Tinnerman Nut 3/4" x 1/2"	9
39	B1910	Linkage Bracket Left	1
40	B1931	Linkage Bracket Right	1
41	R1057	Decal / 2" x 4" Red Reflector	2
42	R1069	Decal / Warning - Turn Off Blower	1
43	R1054	Decal / Important Check Hoses	1
44	R1051	Decal / Warning - Use Hearing Protection	1
45	R0022	Decal / Built In The USA / Lg	1
46	K0037	Flat Washer / 1/4" (.75 OD x .312 ID x .060 T)	4
47	K1153	HHCS 5/16"-18 x 3/4"	4
48	K1178	Flange Nut 5/16"-18	4

A0191 Pro 22 Door Assy Exploded View

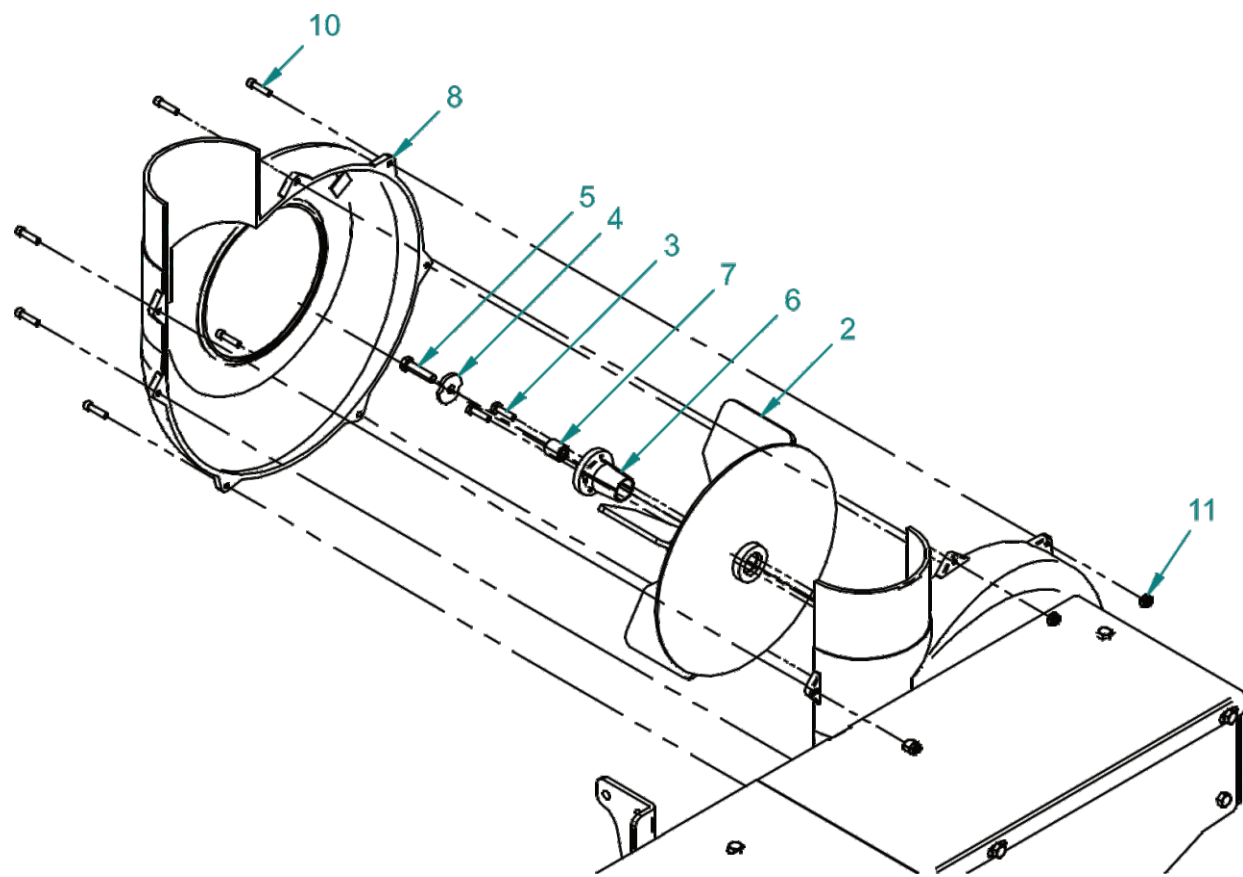


Item #	Part #	Desc.	Qty.
1	A0269	Door Subassembly	1
2	A0473	Door Hinge Support	2
3	B8121	Door Mesh Screen	1
4	C2104	Door Screen Reinforcement	2
5	C2109	Screen Strip / Vertical	2
6	B2173	HINGE BRACE PL.	4
7	K1154	HHCS 5/16"-18 x 1"	8
8	K0044	I/T Tooth Lock Washer 5/16"	8
9	K1096	#10-12 x 1/2" Tinnerman Screw	4
10	K1092	#10-12 x 3/4" Blunt Tip SMS	8
11	K0029	#10-12 Flat Tinnerman Nut 3/4" x 1/2"	4
12	K0037	Flat Washer / 1/4" (.75 OD x .312 ID x .060 T)	4
13	K0028	Tinnerman Clip / Small	8

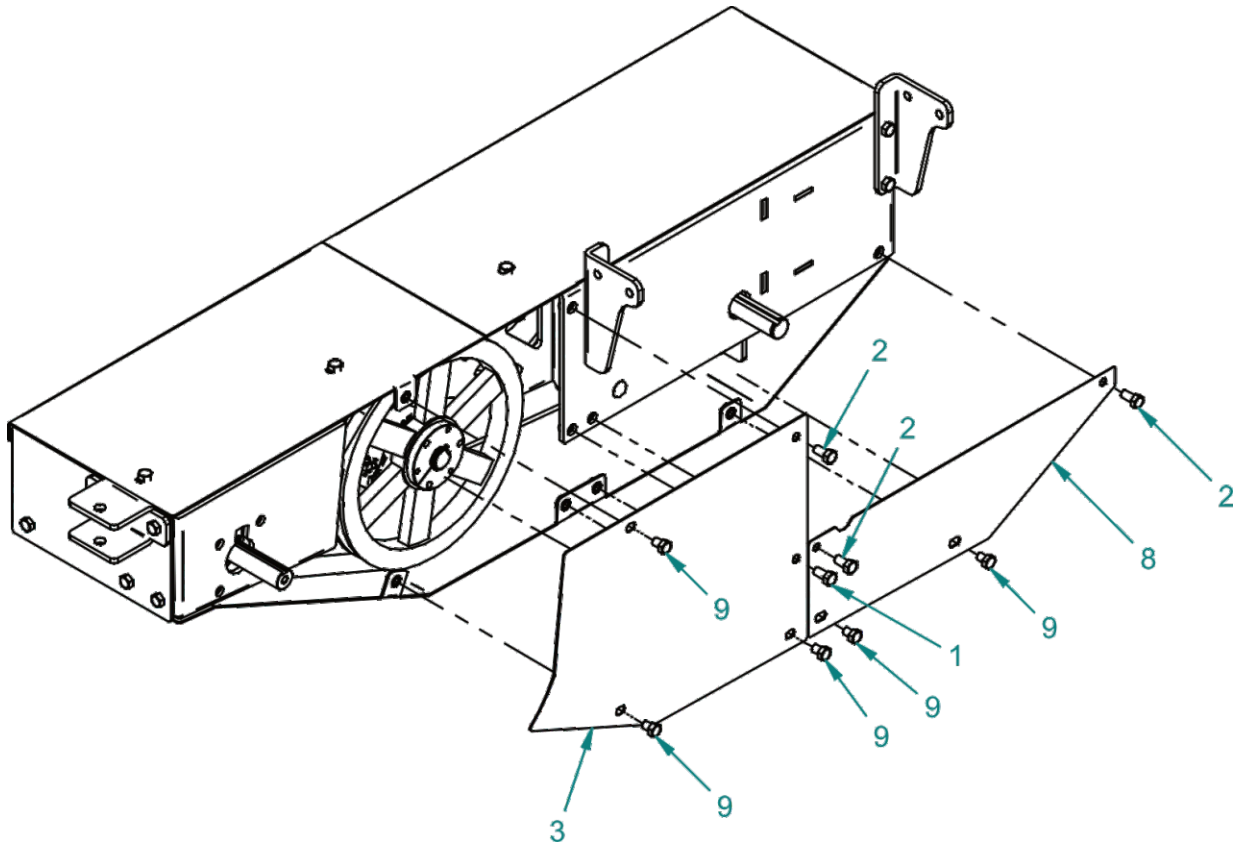
A2351 4-Blade Impeller Drive Assy Exploded View

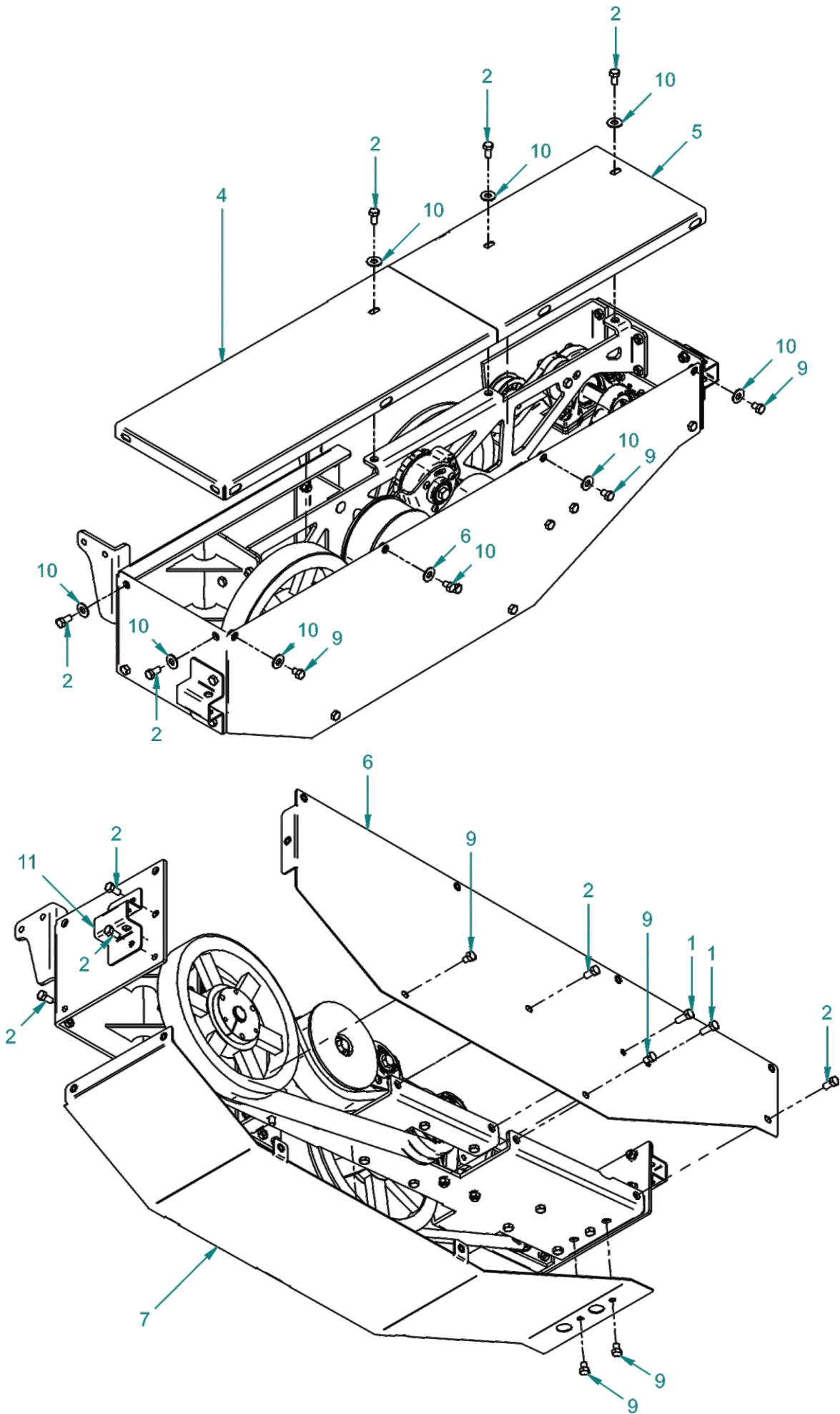


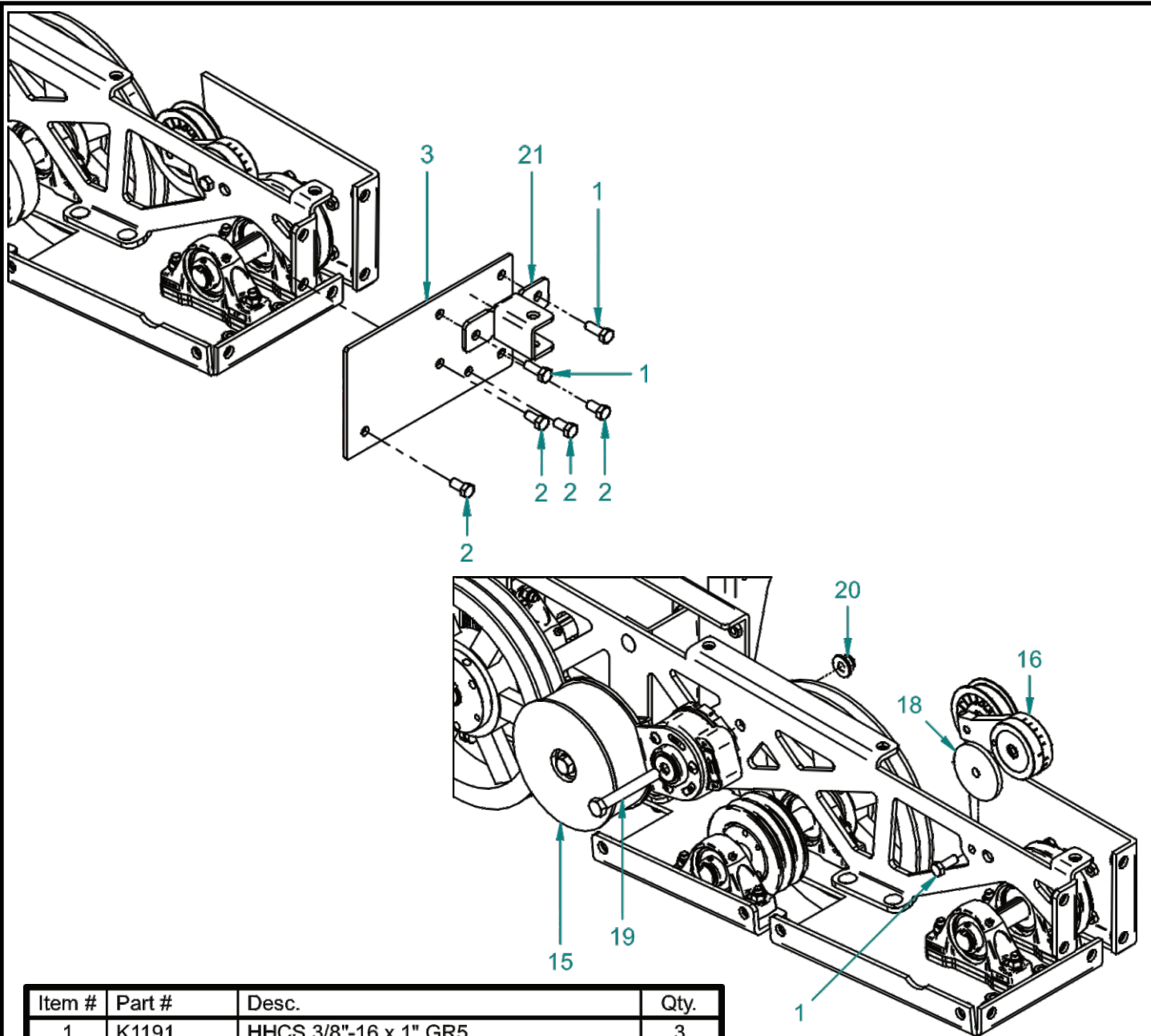
Item #	Part #	Desc.	Qty.
1	K1154	HHCS 5/16"-18 x 1"	4
2	A0645	4-Blade Impeller Weldment	1
3	K1225	HHCS 1/4"-20 X 1" GR8	2
4	K0284	Double Indented Washer 3/8" / 1.375 OD x .380 ID x .179 T	1
5	K1138	HHCS 3/8"-24 x 1-1/2" GR8	1
6	S4302	Taper-Lock Bushing / 1" Shaft	1
7	S3242	Spacer Bushing / .750 ID x .380 ID x .830 L	1
8	E4052F	Blower Hsg Front	1
9	E4052B	Blower Hsg Back	1
10	K1401	1/4"-20 x 1" SHCS / Zinc / GR8	7
11	K1126	Flange Nut 1/4"-20	7



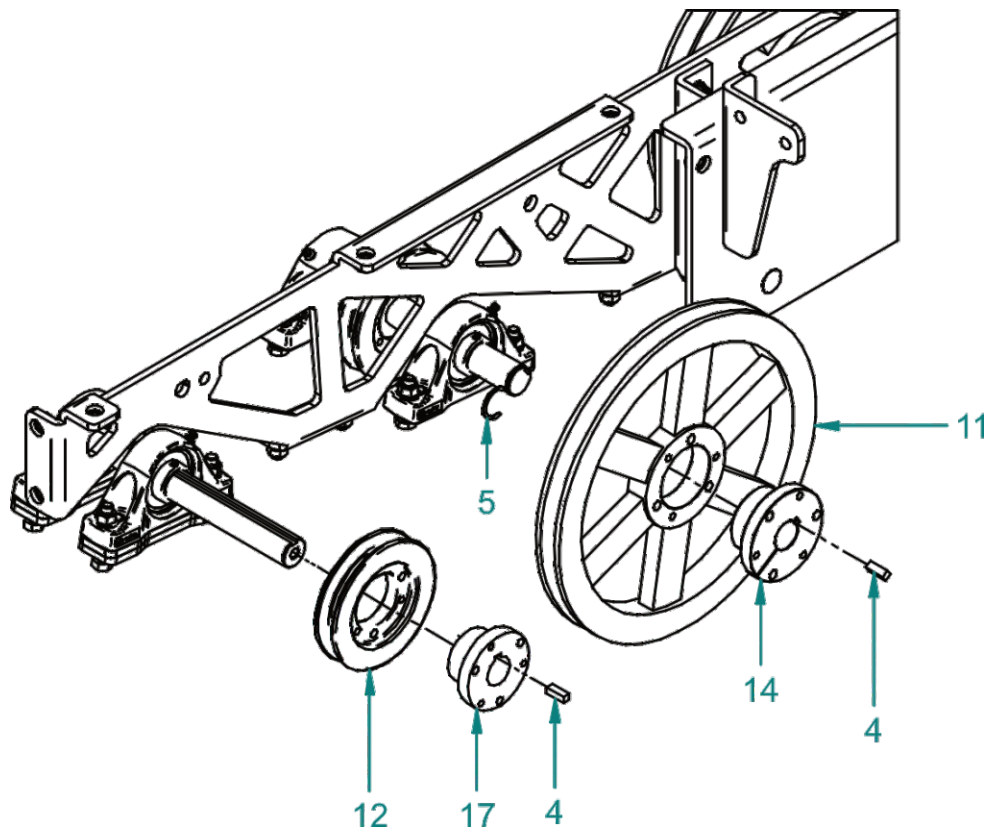
Item #	Part #	Desc.	Qty.
1	K1191	HHCS 3/8"-16 x 1" GR5	2
2	K1190	HHCS / 3/8"-16 x 3/4"	14
3	B2111	Front Belt Cover	1
4	B2632	Top Cover IS	1
5	A2469	Top Cover OS	1
6	A2452	Back Cover Weldment	1
7	A2454	Lower Belt Cover Weldment	1
8	B2115	Lower Input Cover	1
9	K1633	HHCS / 3/8"-16 x 3/4"	13
10	K0047	Flat Washer 3/8" / 1.00 OD x .446 ID x .075 T	9
11	B2628	Jack Mount	1



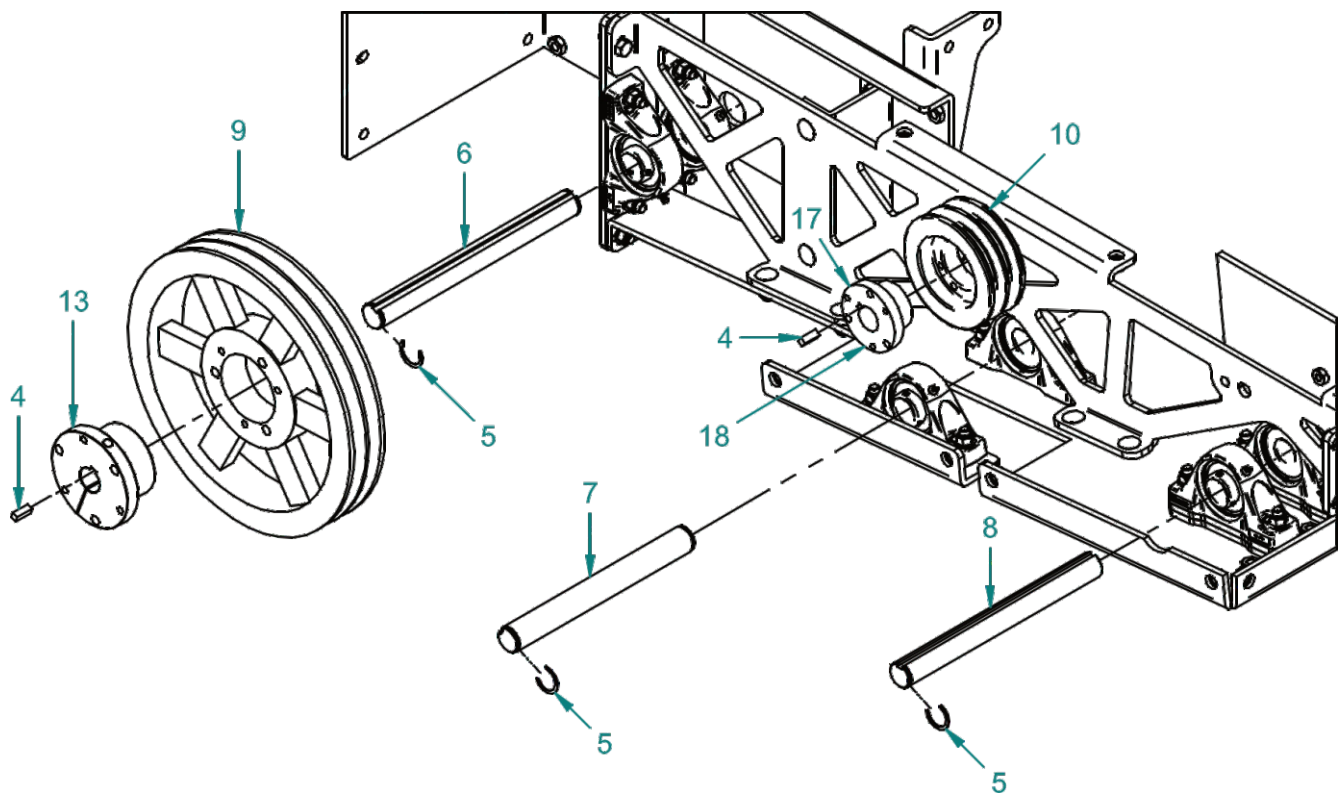




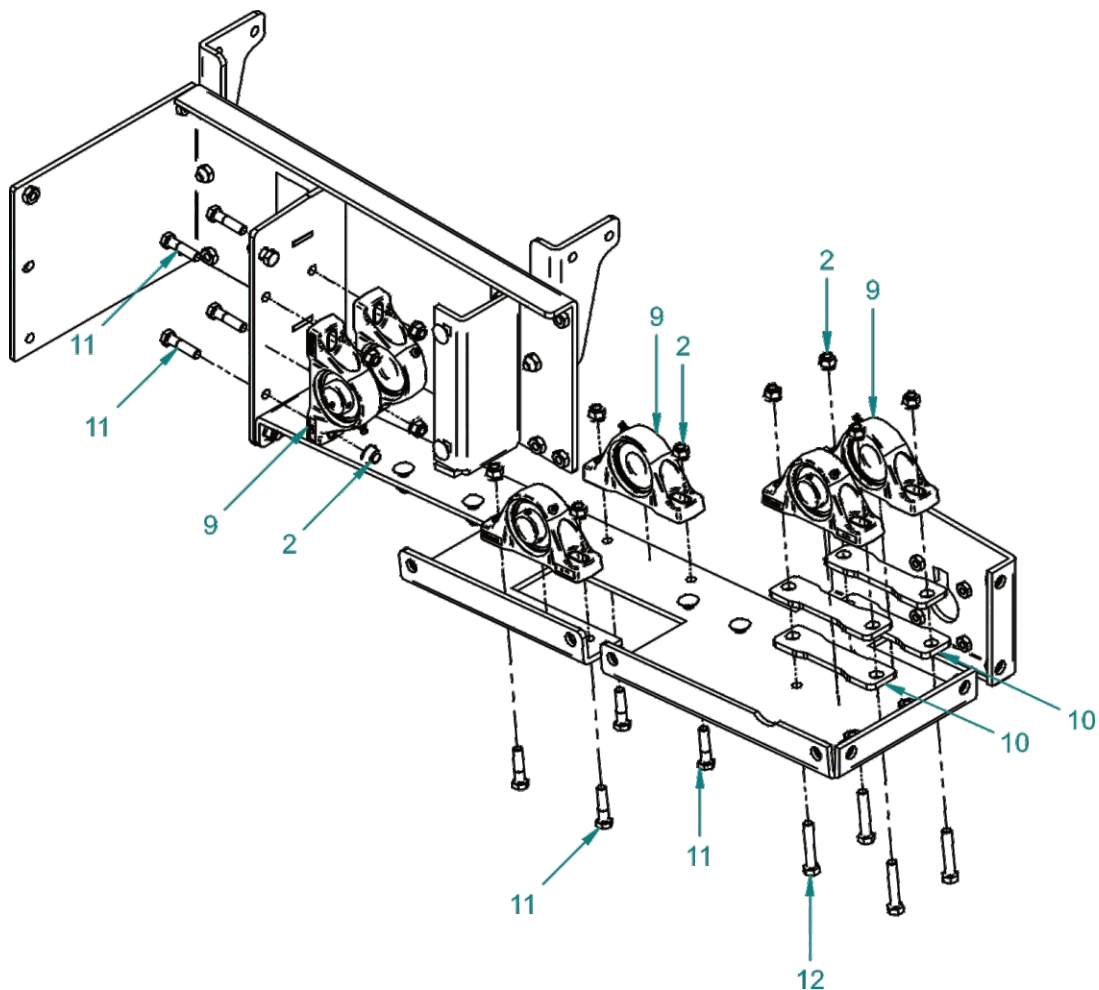
Item #	Part #	Desc.	Qty.
1	K1191	HHCS 3/8"-16 x 1" GR5	3
2	K1190	HHCS / 3/8"-16 x 3/4"	4
3	B2110	End Plate	1
4	K0076	Key 1/4" x 3/4" Long	4
5	J0031	1" External Crescsent Ring	4
6	B2130	Input Shaft	1
7	B2131	Transfer Shaft	1
8	B2132	Output Shaft	1
9	M0025	Pulley 2B110SK	1
10	M0027	Pulley 2B42SH	1
11	M0026	Pulley 1B110SDS	1
12	M0028	Pulley 1B42SH	1
13	S0242	Sheave SK 1 STL	1
14	S0244	Sheave SDS 1 STL	1
15	M0022	Fenner Drive Large Tensioner	1
16	A2453	Fenner Drive Small Tensioner Assy.	1
17	S0243	Sheave SH 1	2
18	B2158	Impeller Tensioner Spacer	1
19	K1237	1/2"-13 x 3-1/2" HHCS GR5	1
20	K2012	1/2"-13 Ny-Flange Lock Nut	1
21	B2634	Jack Mount	1



NOTE: Some features have been hidden from view for visual clarity.

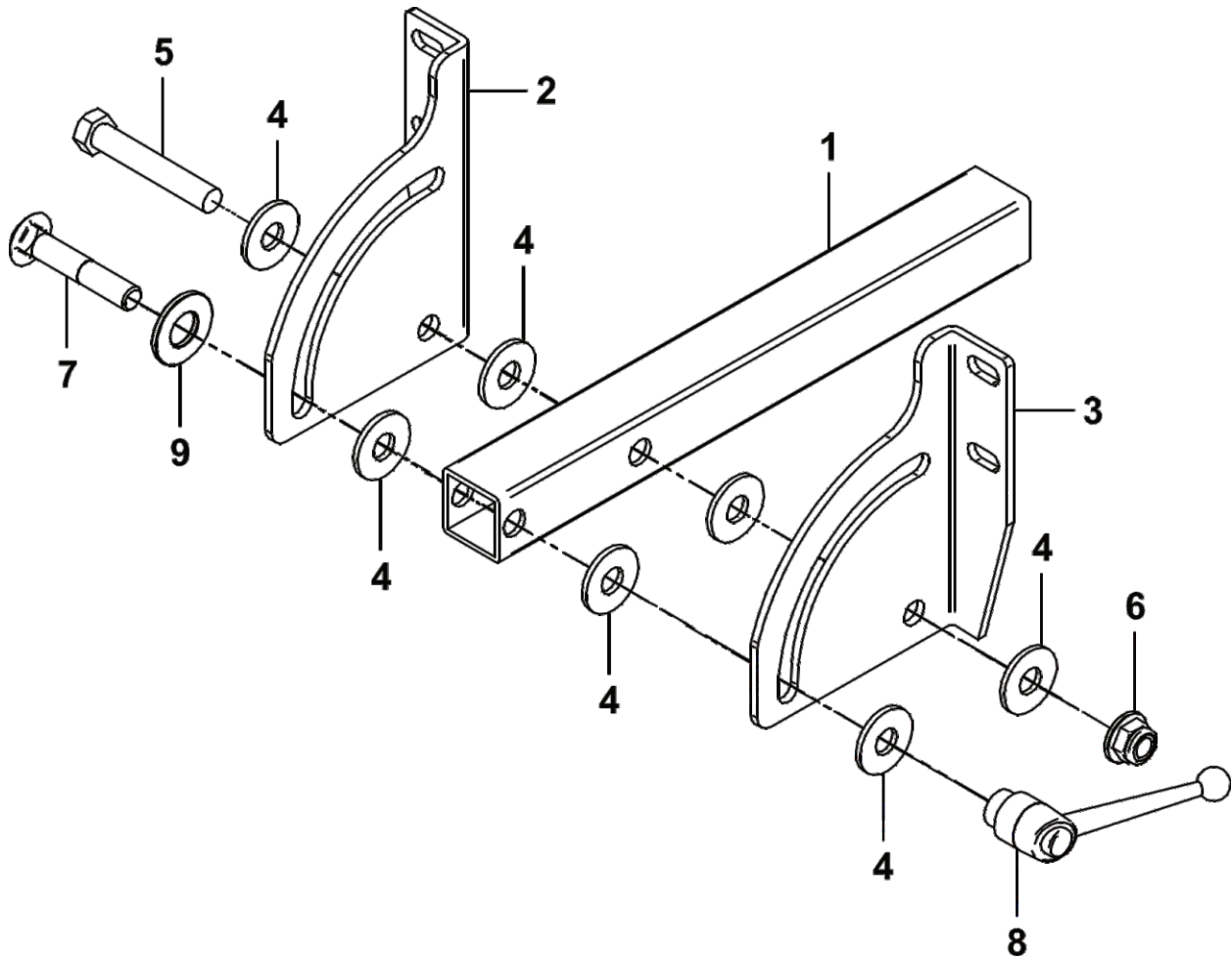


Item #	Part #	Desc.	Qty.
1	K1191	HHCS 3/8"-16 x 1" GR5	7
2	K2038	Ny-Flange Lock Nut 3/8"-16	23
3	A2451	Input Base Weldment	1
4	A2455	Tensioner Mount Weldment	1
5	A2457	Drive Base Weldment	1
6	K1182	Carriage Bolt 3/8"-16 x 1" / Zinc / GR5	9
7	B1891	Drive Mount Bracket Right	1
8	B1892	Drive Mount Bracket Left	1
9	N0006	1" Pillow Block Bearing / Fenner P# PB2050	6
10	B2116	Bearing Spacer	4
11	K1193	HHCS 3/8"-16 X 1-1/2" GR5	8
12	K1208	3/8"-16 x 2" HHCS	4
13	B2157	Input Base Brace	1
14	K1190	HHCS / 3/8"-16 x 3/4"	6
15	B2110	End Plate	1

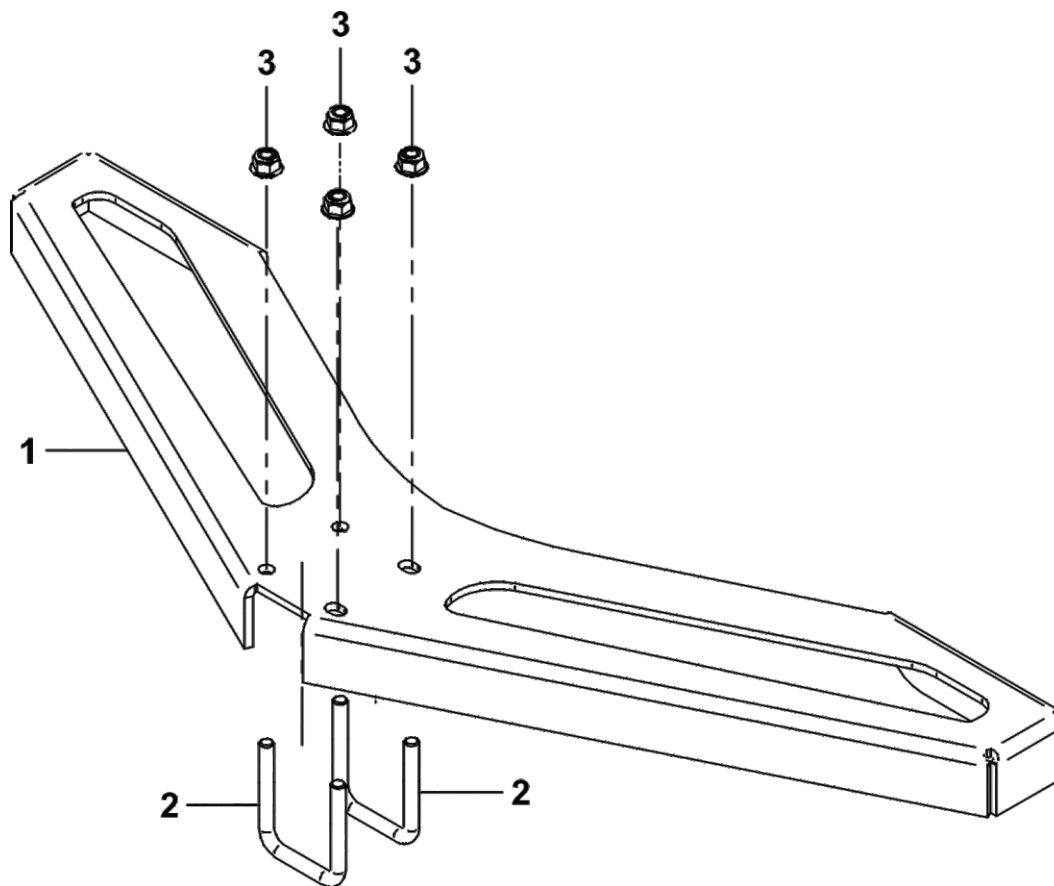


A2237 PTO Drive Stand Assy Exploded View

Item #	Part #	Desc.	Qty.
1	B1899	Stand Tube	1
2	B1876	Stand Pivot Bracket Left	1
3	B1896	Stand Pivot Bracket Right	1
4	K0055	Flat Washer 1/2" / 1.383 OD x .560 ID x .120 T	7
5	K1236	1/2"-13 x 3" HHCS	1
6	K2012	1/2"-13 Ny-Flange Lock Nut	1
7	K1051	1/2"-13 x 2-3/4" Carriage Bolt	1
8	J0012	Adjustable Handle 1/2"-13 Female	1
9	K1463	Flat Washer .720 ID x 1.500 OD x .250 T	1

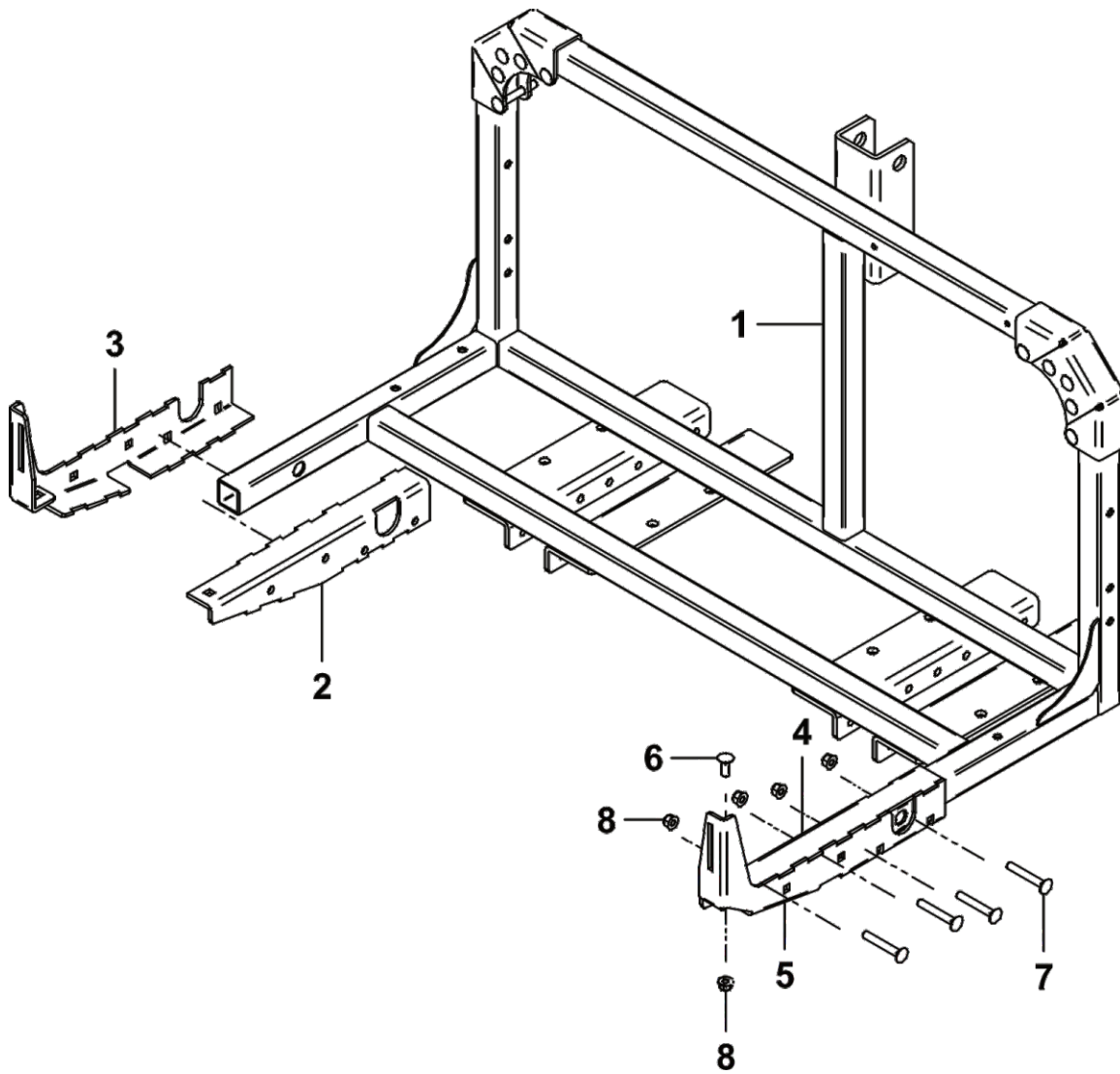


A2263 Stand Foot Sub-Assy Exploded View



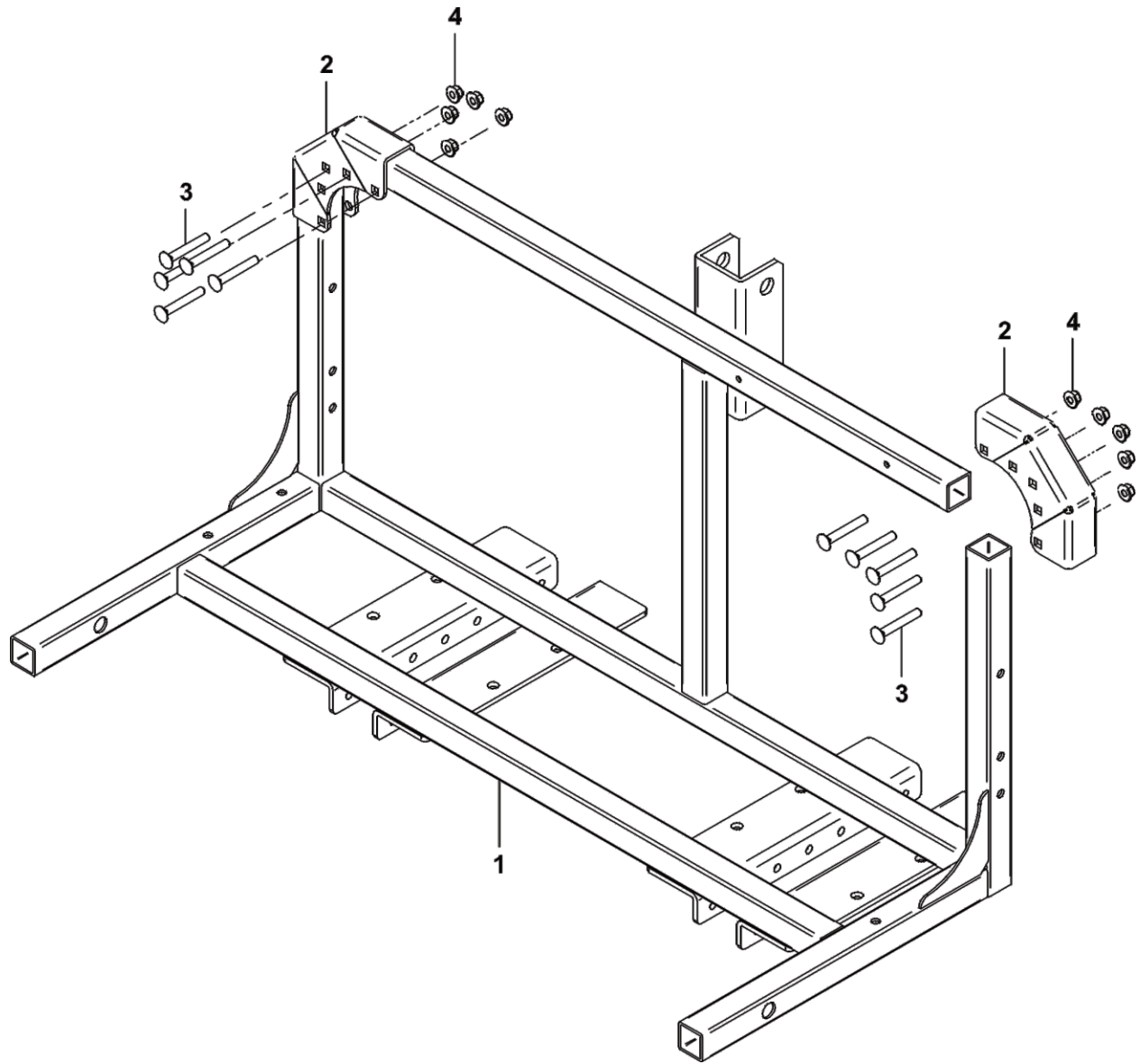
Item #	Part #	Desc.	Qty.
1	B1900	Stand Foot	1
2	K1098	U-Bolt / 5/16"-18 x 2-3/8" x 1-3/4"	2
3	K2516	Ny-Flange Lock Nut 5/16"-18	4

A2236 Base Frame Assy / Pro 22 Exploded View



Item #	Part #	Desc.	Qty.
1	A2234	Base Frame Assy / 3-Pt Hitch	1
2	B1908L	Latch Brace / Top / Left	1
3	B1909L	Latch Brace / Bottom / Left	1
4	B1908R	Latch Brace / Top / Right	1
5	B1909R	Latch Brace / Bottom / Right	1
6	K1182	Carriage Bolt 3/8"-16 x 1"	2
7	K1186	3/8"-16 x 2-1/2" CARRIAGE BOLT	8
8	K2038	Ny-Flange Lock Nut 3/8"-16	10

A2234 Base Frame Assy / 3-Pt Hitch Exploded View



Item #	Part #	Desc.	Qty.
1	A0090_01	Base Frame / Weldment	1
2	B1901	Upright Clamp / Base Frame	2
3	K1186	3/8"-16 x 2-1/2" CARRIAGE BOLT	10
4	K2038	Ny-Flange Lock Nut 3/8"-16	10

Unit Model #: 752208

Mower: Sub-Compact Tractors

Owner's Manual: Q0619

Mower Type: Cat 1 3Pt Hitch

Deck Size: Choose Boot Kit Below

Vac Type: Pro22 DFS (22 Cu. Ft.)

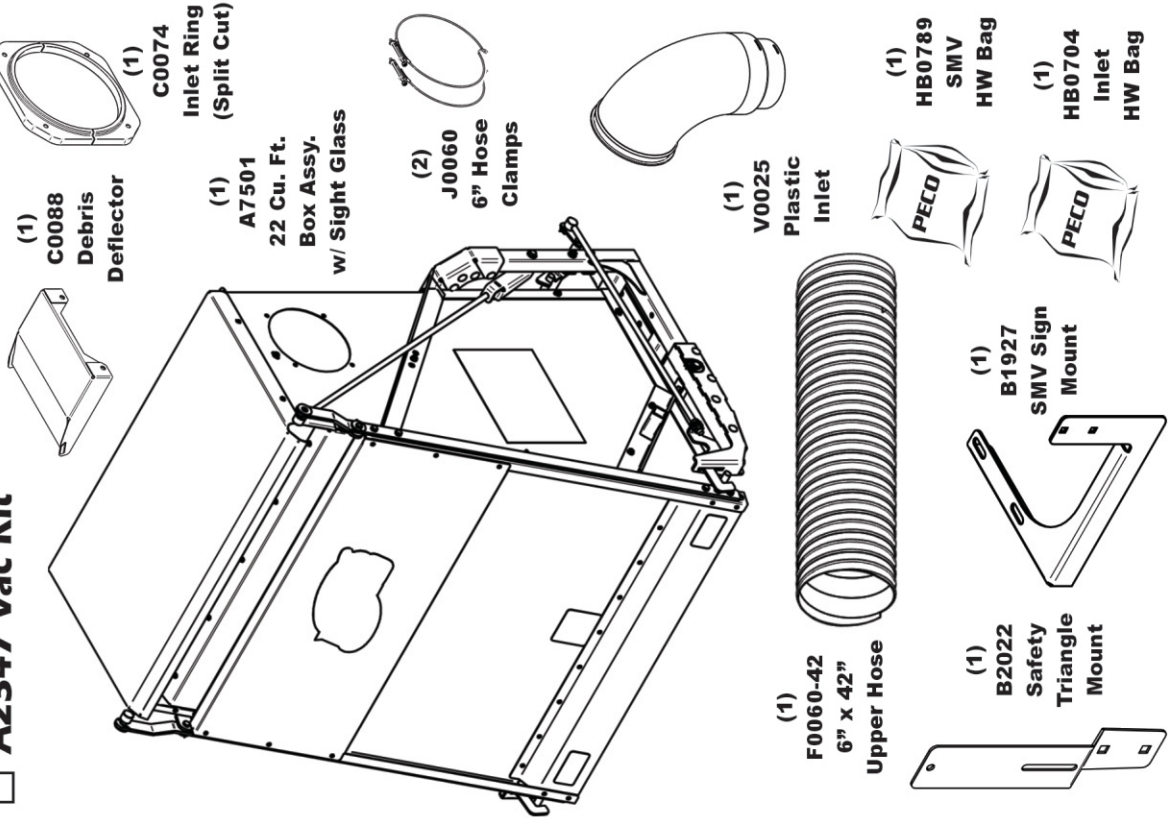
Drive Type: PTO Driven

Fits Year(s):

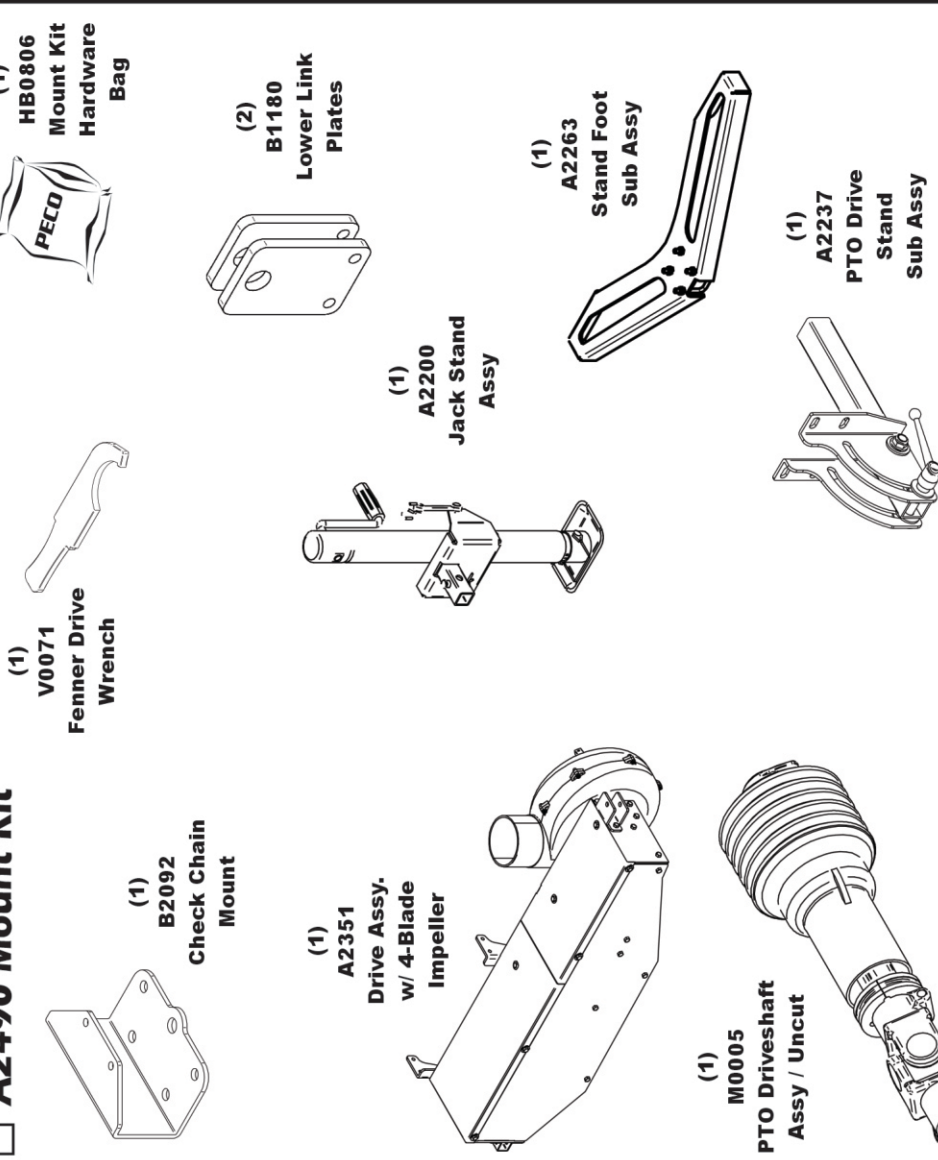
Revision #: 0



A2347 Vac Kit



A2490 Mount Kit



A2338 Large Universal Boot Kit

A2339 Small Universal Boot Kit

Other Boot Kit (_____)

Select the Boot Kit That is needed

Model #A2338

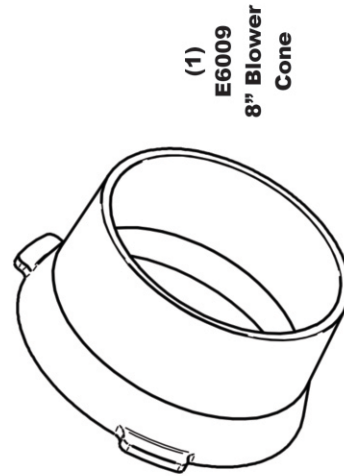
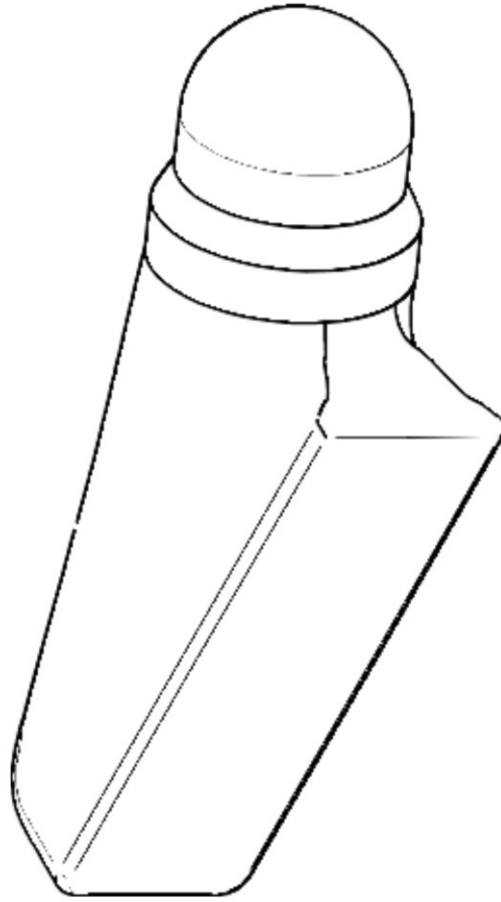
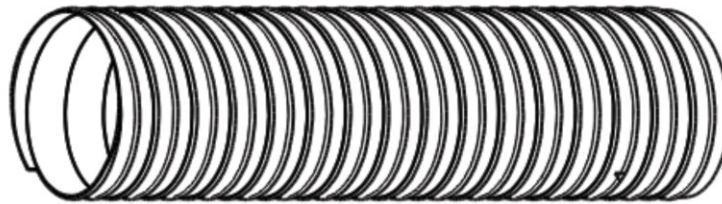
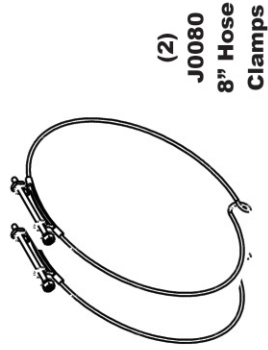
Desc: Universal Large Boot Kit / Small Housing

Revision #: 0

Instruction Sheet: Q2053



A2338 Universal Large Boot Kit





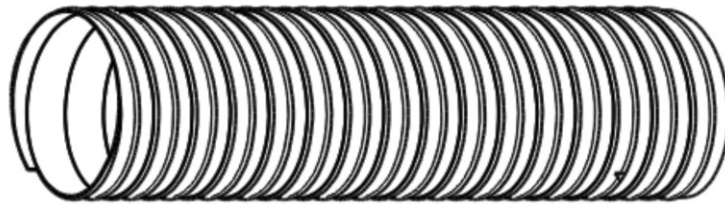
Model #A2339

Desc: Universal Small Boot Kit / Small Housing

Revision #: 0

Instruction Sheet: Q2054

A2339 Universal Small Boot Kit



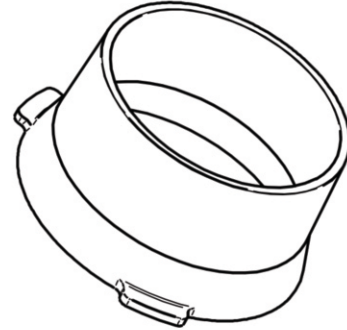
(1)
F0070-70
7" x 70"
Lower Hose



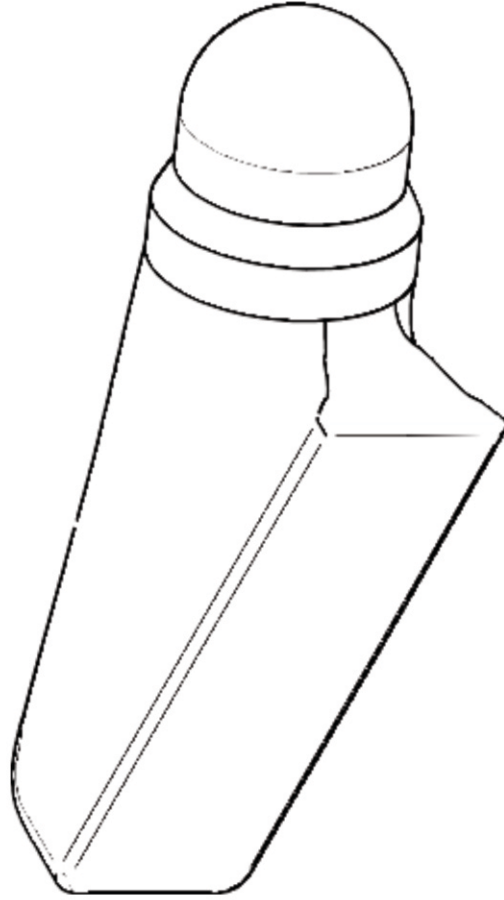
(2)
J0070
7" Hose
Clamps



(1)
HB0808
Boot Kit
HW Bag



(1)
E6004
7" Blower
Cone



(1)
V1018
Universal
Boot / Small

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.



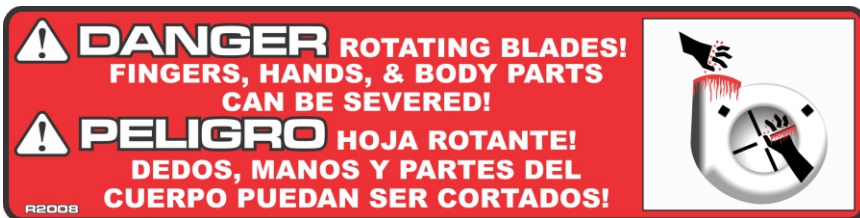
Part# R1070
PECO Logo



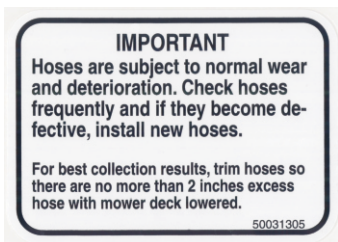
Part# R0022
Designed & Built
In The USA



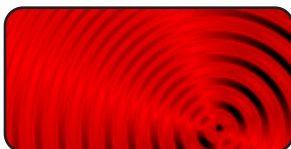
Part #: R2007
Danger - Never Use Hands



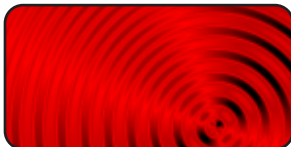
Part #: R2008
Danger - Rotating Blades



Part #: R1054
Important - Hose Wear



Part #: R1057 - (2)
Red Reflectors



Part #: R1069
Warning - Turn Off Blower



Part # R0024
Danger - Keep Hands
Clear



Part #: R1051
Warning - Hearing Protection



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 tractor.
- C. While seated in the operator's seat, and the tractor at a low idle speed, engage the tractor's PTO switch.
- D. Gradually increase the tractor's idle speed from low to high.
- E. With the tractor at a high idle speed, engage the mower deck.
- F. With the PTO assembly engaged, you can proceed to operate the control levers of the tractor.

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 the tractor's PTO switch to the off position.

WARNING: DO NOT TOUCH the PTO assembly until the tractor is turned off.

Unloading The Collection System

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

- A. Stop the forward movement of the tractor.
- B. Disengage the mower deck.
- C. Disengage the PTO assembly.
- D. Engage the parking brake.
- E. Once the parking brake has been engaged, reach back and release the collection unit's latch handle.
- F. Pivot the collection unit back using the dump handle to dump the clippings.
- G. Pull the dump handle back up to place the collection unit back to its original position and re-latch the latch handle to secure the collection unit.

NOTE: Do not allow the collection unit to become over-filled as potential damage may occur to your equipment.

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.
3. 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. 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 any shields, and safety decals. Replace any missing or illegible decals.
2. 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. Under normal usage, the collection unit is subject to deterioration and wear and should therefore be frequently checked for necessary part replacements. Any replacement parts should be checked to ensure compliance with the original manufacturer's recommendations or specifications.
4. Check belt for proper tension and wear.

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

Unit Model Number: _____

Unit Engine Size: _____

Unit Serial Number: _____

Date of purchase: ____ / ____ / ____

Dealer/Distributor Name: _____

Address: _____ **State:** _____ **Zip:** _____

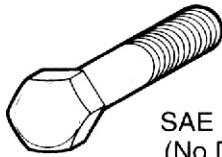
Phone Number: _____

New PECO, Inc.
10 Walden Dr | Arden, North Carolina 28704
Phone: 1-800-438-5823 | 828-684-1234
Fax: 828-684-0858
Email: peco@lawnvac.com
Website: www.lawnvac.com

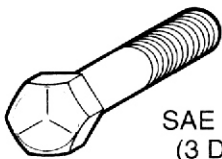
TORQUE SPECIFICATIONS

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

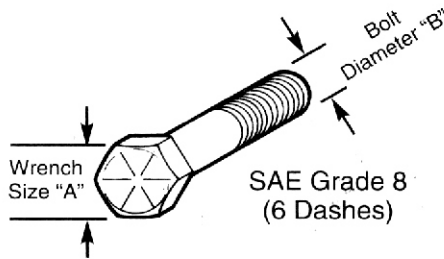
AMERICAN Bolt Head Markings



SAE Grade 2
(No Dashes)



SAE Grade 5
(3 Dashes)

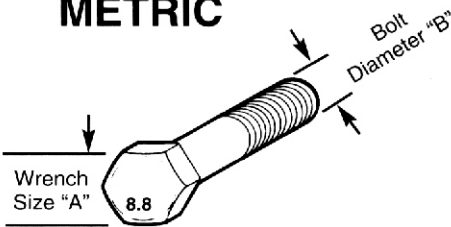


SAE Grade 8
(6 Dashes)

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

Proper torque for metric fasteners used on PECO equipment.
Recommended Torque in Foot Pounds (Newton Meters).*

METRIC



Numbers appearing on bolt heads indicate ASTM class.

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)

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

Troubleshooting

2017 (v1.0)

Collection System Performance

Problem	Possible Cause	Corrective Action
Abnormal Vibration	<ul style="list-style-type: none"> • Cutting blades are bent or unbalanced • Loose blower pulley or pulley assembly • Impeller blade out of balance 	<ul style="list-style-type: none"> • Install new cutting blade • Tighten the pulley • Contact dealer to replace
Reduced collection system performance	<ul style="list-style-type: none"> • Low engine speed • Plugged screen • Loose belt • Full collection bags 	<ul style="list-style-type: none"> • Always operate collection system at full throttle • Remove debris, leaves, or grass clippings from the screen • Replace/tighten belt • Empty the collection bags
Blower and hoses plugging too frequently	<ul style="list-style-type: none"> • Collection bags are too full • Low engine speed • Grass is too wet • Grass is too long • Ground speed is too fast • Worn belt • Loose belt 	<ul style="list-style-type: none"> • Dump more frequently • Always operate collection system at full throttle • Cut grass when it is dry • Cut the grass several times • Drive slower at full throttle • Replace belt • Adjust the pulley and tighten belts
Debris blowout	<ul style="list-style-type: none"> • Collection bags are too full • Plug/clog in the collection system • Ground speed is too fast 	<ul style="list-style-type: none"> • Dump more frequently • Clean the collection system • Drive more slowly at full throttle
Impeller doesn't rotate freely	<ul style="list-style-type: none"> • Plug in the blower housing • Worn impeller blade • Shaft bearings bad/failing 	<ul style="list-style-type: none"> • Clean the blower housing • Contact dealer to replace • Contact dealer to replace



New PECO, Inc.
10 Walden Dr | Arden, North Carolina 28704
Phone: 1-800-438-5823 | 828-684-1234
Fax: 828-684-0858
Email: peco@lawnvac.com
Website: www.lawnvac.com