



GRASS COLLECTION
SYSTEM

5930 - 6930 - 7930

30 CU. FT. Trailer Vac



OPERATOR'S MANUAL

ASSEMBLY • OPERATION • MAINTENANCE

PECO GRASS COLLECTION SYSTEM

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SAFETY

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

SAFETY

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

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

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

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

Safety Alert Symbol



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

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

Safety Signs

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



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

A. WHAT IS UNDER WARRANTY?

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

1. PRODUCT WARRANTY: Any part of any consumer product, which is defective in material or workmanship as delivered to the purchaser will be repaired or replaced, as PECO elects, without charge for parts or labor, if the defect appears within 12 months from the date of delivery of the product to the original purchaser. ALL DEFECTIVE PARTS MUST BE RETURNED TO PECO FOR INSPECTION TO DETERMINE VALIDITY OF WARRANTY CLAIMS. Freight and mailing will be borne by the customer.

2. PARTS REPLACED DURING WARRANTY: Any new PECO part which is furnished in performance of this warranty and is defective in material or workmanship as delivered to the purchaser will be repaired or replaced, before the expiration of the original warranty period, whichever is later.

3. COMMERCIAL USE: Products put to personal use around a single household or residence is considered 'Residential'; Products put to any business use (agricultural, commercial, or industrial) or used at multiple locations is considered 'Commercial.' Products designated as 'Commercial' are warrantied for 12 months from the date of delivery of the product to the original purchaser when used for in commercial applications. Products designated as 'Residential' are warrantied for 90 days from the date of delivery of the product to the original purchaser when in commercial applications.

B. SECURING WARRANTY ADJUSTMENTS

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

C. ITEMS NOT COVERED BY PECO WARRANTY

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

D. UNAPPROVED ALTERATION OR MODIFICATION

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

E. ACCIDENTS AND NORMAL MAINTENANCE

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

F. NO REPRESENTATIONS ADDITIONAL WARRANTIES, DISCLAIMER

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

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

H. REMEDIED EXCLUSIVE

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

1. NO SERVICE CENTER WARRANTY

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

SECTION I

INTRODUCTION AND DESCRIPTION

Introduction

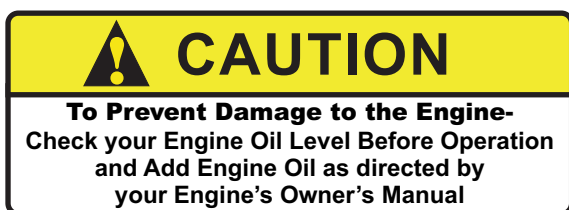
We are pleased to have you as a PECO customer. Your collection system has been designed to give you a low maintenance, simple, and effective way to collect the grass clippings from your mower. This manual is provided to give you the necessary instructions to properly mount and operate the collection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

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

Description

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

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



SECTION II

INSTALLATION FOR USE

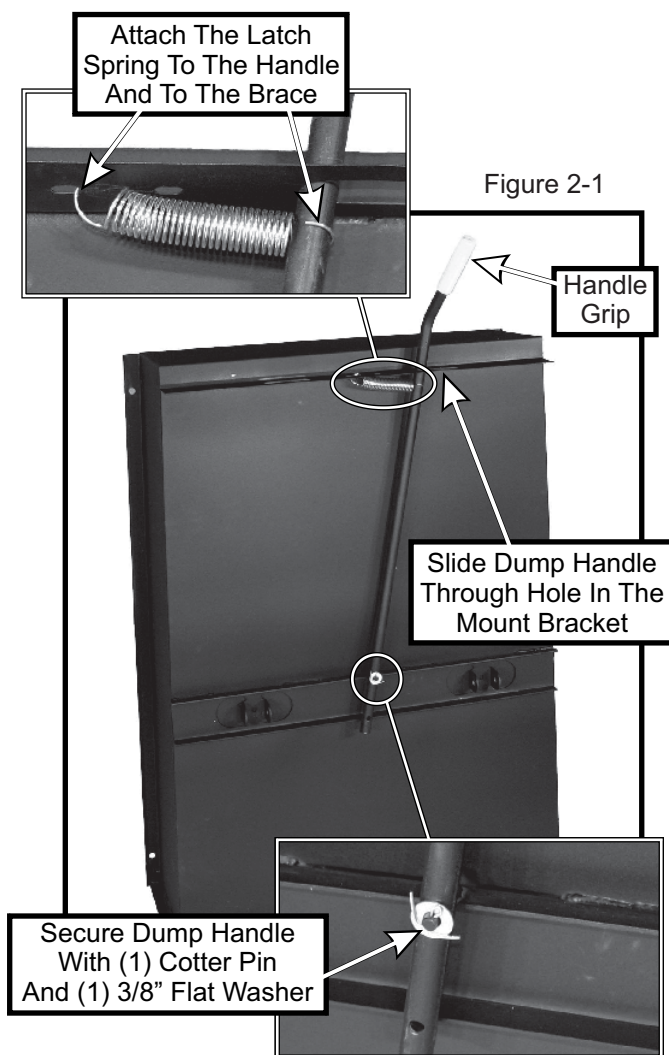
Preparation Of Parts

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

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

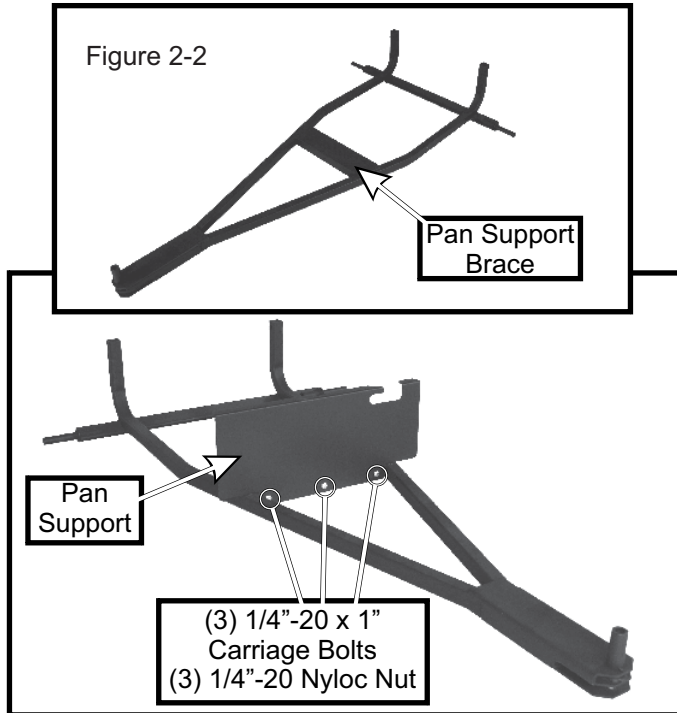
2-1 Dump Handle Installation

Remove the rear door and the upper vac hood. Position the trailer box as shown in Figure 2-1. Slide the curved end of the dump handle through the slot in the handle brace. Slide the hole in the other end of the dump handle, onto the pin on the pivot support, and secure the handle with (1) cotter pin P#(K0085) and (1) 3/8" flat washer P#(K0047). Attach one end of the latch spring P#(J0310) to the dump handle, and the other end of the latch spring to the handle brace. Slide the handle grip P#(J0522) over the end of the dump handle. Refer to Figure 2-1



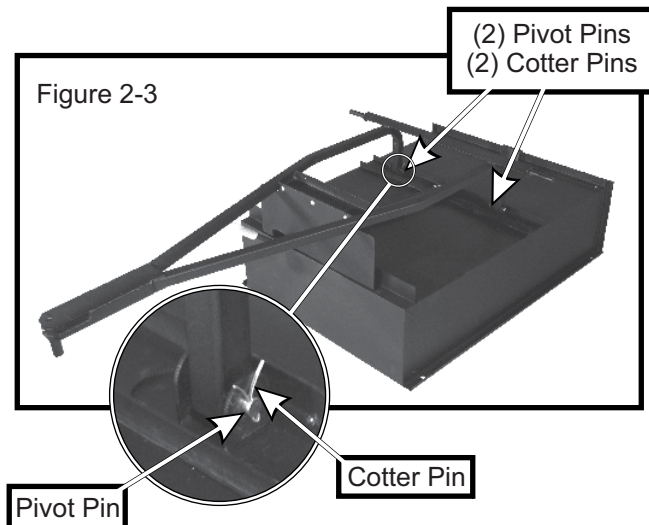
2-2 Pan Support Installation

Secure the pan support P#(B0574) to the front side of the support brace P#(B0545) using (3) 1/4"-20 x 1/2" carriage bolts P#(K1005) and (3) 1/4"-20 nyloc nuts P#(K1128). Refer to Figure 2-2.



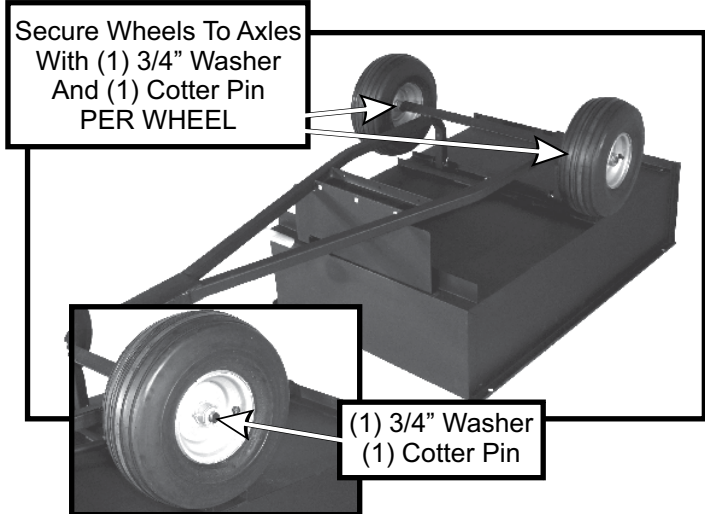
2-3 Chassis Installation

Position the trailer and chassis as shown in Figure 2-3. Secure the chassis to the trailer using (2) pivot pins P#(K0127) and (2) cotter pins P#(K0085).



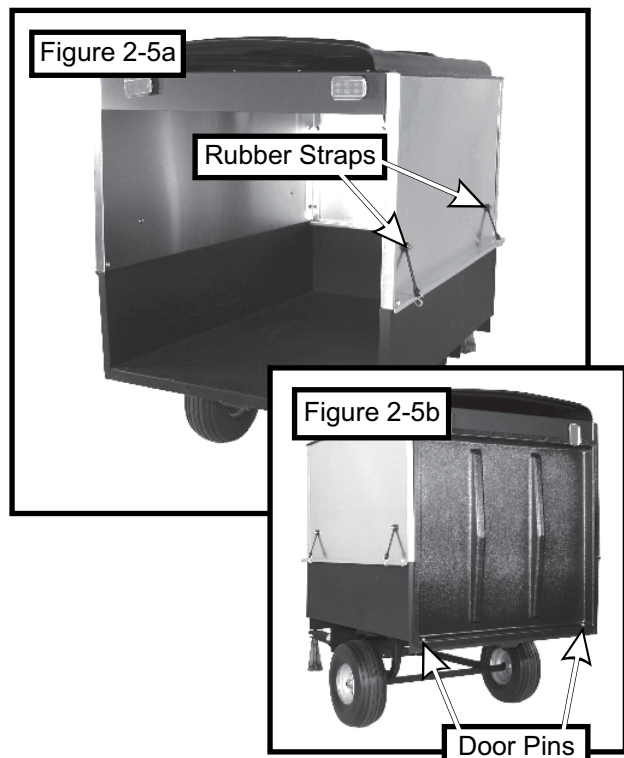
2-4 Wheel Installation

Attach the wheels to the ends of the axles on the chassis, using (1) 3/4" flat washer P#(K0061) and (1) cotter pin P#(K0085) PER WHEEL. Refer to Figure 2-4.



2-5 Hood Installation

Flip the trailer assembly over, and attach the trailer hood. Secure the hood to the trailer using the four rubber straps shown in Figure 2-5a. Reattach the rear door as shown in Figure 2-5b. Secure the rear door inserting the two pins on the bottom of the door, into the holes on the trailer pain and rotating the red reflectors to lock the door into place.



2-6 Engine Mount Arm Assembly Installation

Slide the engine mount arm assembly P#(A0837) onto the engine mount pivot pin located on the trailer chassis assembly. Position the trailer tongue support over the hole in the hitch plate. Secure the trailer to the hitch plate by inserting the hitch pin assembly P#(A0312) into the hole on the engine mount pivot pin as shown in Figure 2-6. Fasten the hitch pin with (1) hair pin clip P#(K0086).

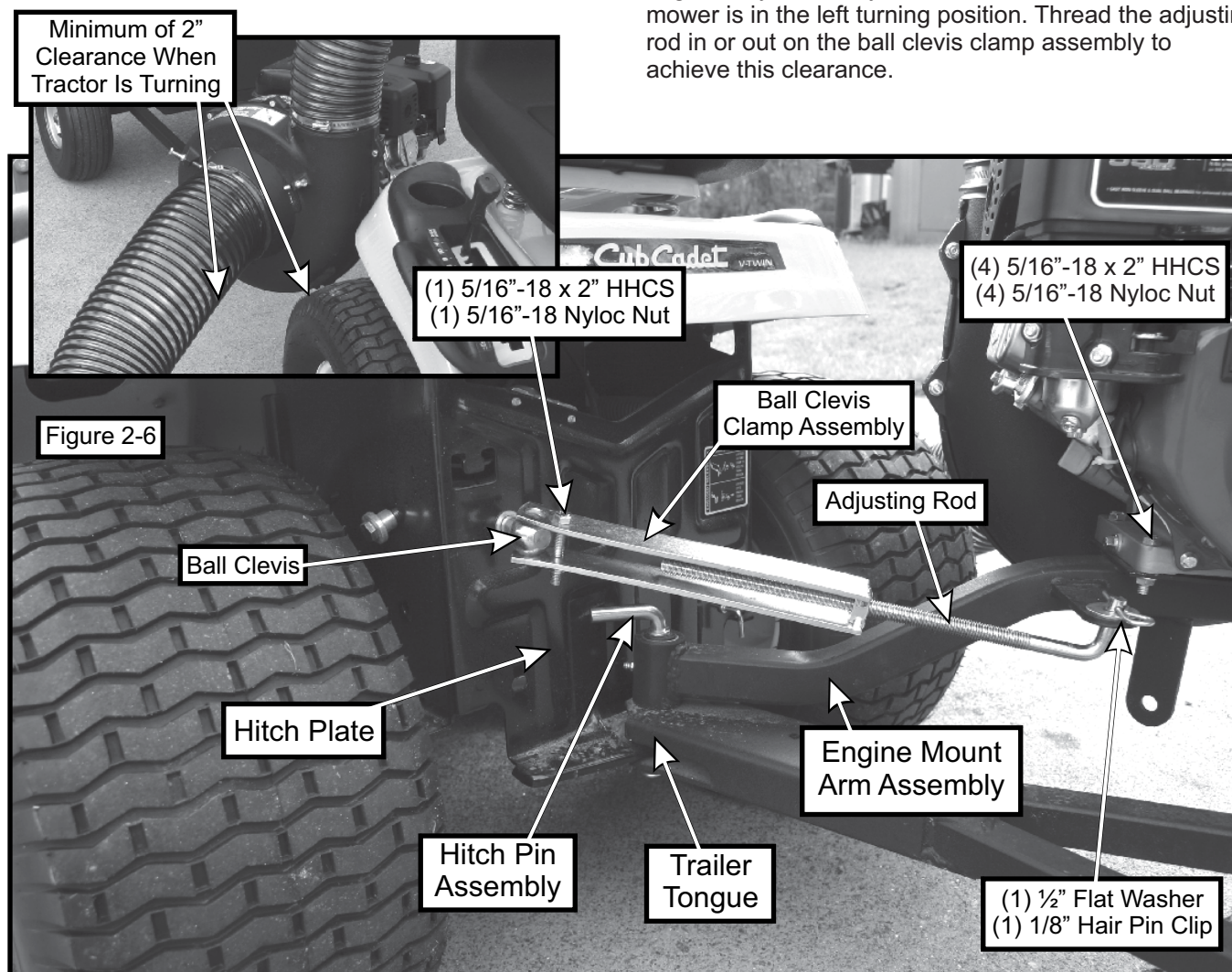
2-7 Engine/Blower/Blade Assembly Installation

Secure the engine/blower/blade assembly to the engine mount arm assembly, using (4) 5/16-18 x 1-1/2" HHCS P#(K1157) and (4) 5/16"-18 nyloc nut P#(K1180).

2-8 Engine Stay Assembly Installation

Note: Depending on the manufacturer and style of your tractor, the engine stay assembly mounting procedure may vary slightly from the instructions listed below.

Fasten (1) ball clevis P#(B0132) to an existing hole in the rear hitch plate of the mower, using (1) 3/8"-16 x 1" HHCS P#(K1191) and (1) 3/8" flat washer P#(K0047), as shown in Figure 2-6. Fasten the ball clevis in a location, so that when the mower turns left or right, the ball clevis clamp assembly will not interfere with the hitch pin assembly. Thread the adjusting rod P#(B4311) into the ball clevis clamp assembly P#(A0336). Insert the adjusting rod into the mounting hole on the engine mount arm assembly as shown in Figure 2-6. Secure the adjusting rod with (1) 1/2" flat washer P#(K0055) and (1) 1/8" hair pin clip P#(K0099). Secure the ball clevis clamp assembly to the ball clevis using (1) 5/16"-18 x 2" HHCS P#(K1159) and (1) 5/16"-18 nyloc nut P#(K1180). When properly adjusted, there should be a minimum of 2" clearance between the lower hose and the right rear tire when the tractor is in the right turning position. There should be a minimum of 2" clearance between the engine stay assembly and the left rear tire, when the mower is in the left turning position. Thread the adjusting rod in or out on the ball clevis clamp assembly to achieve this clearance.



2-9 Blower Cone Installation

Thread (1) 5/16" jam nut P#(K0120) onto each end of the (2) 5/16"-18 x 2-1/2" HHCS P#(K0125). Partially thread the bolts into each of the two tabs located on the blower housing. Position the blower cone over the opening in the blower housing, so that the tabs on the blower cone line up with the bolts, then tighten completely. Tighten the jam nuts completely. Refer to Figure 2-9.

2-10 Boot Installation

Attach the discharge boot to the mower deck. If you are using a plastic boot, refer to the enclosed Universal Molded Boot Assembly Instructions. For cast aluminum boots, loosely attach the boot clamp to the inside of the casting, with two carriage bolts and nyloc nuts. Push the boot fully onto the mowing deck and forward until the bolts are snug against the deck lip. Tighten the hardware.

2-11 Lower Hose Installation

Slide (1) hose clamp P#(J1000) over each end of the lower hose. Connect one end of the lower hose to the blower cone and tighten the hose clamp. Slide the other end of the lower hose over the boot and tighten the hose clamp.

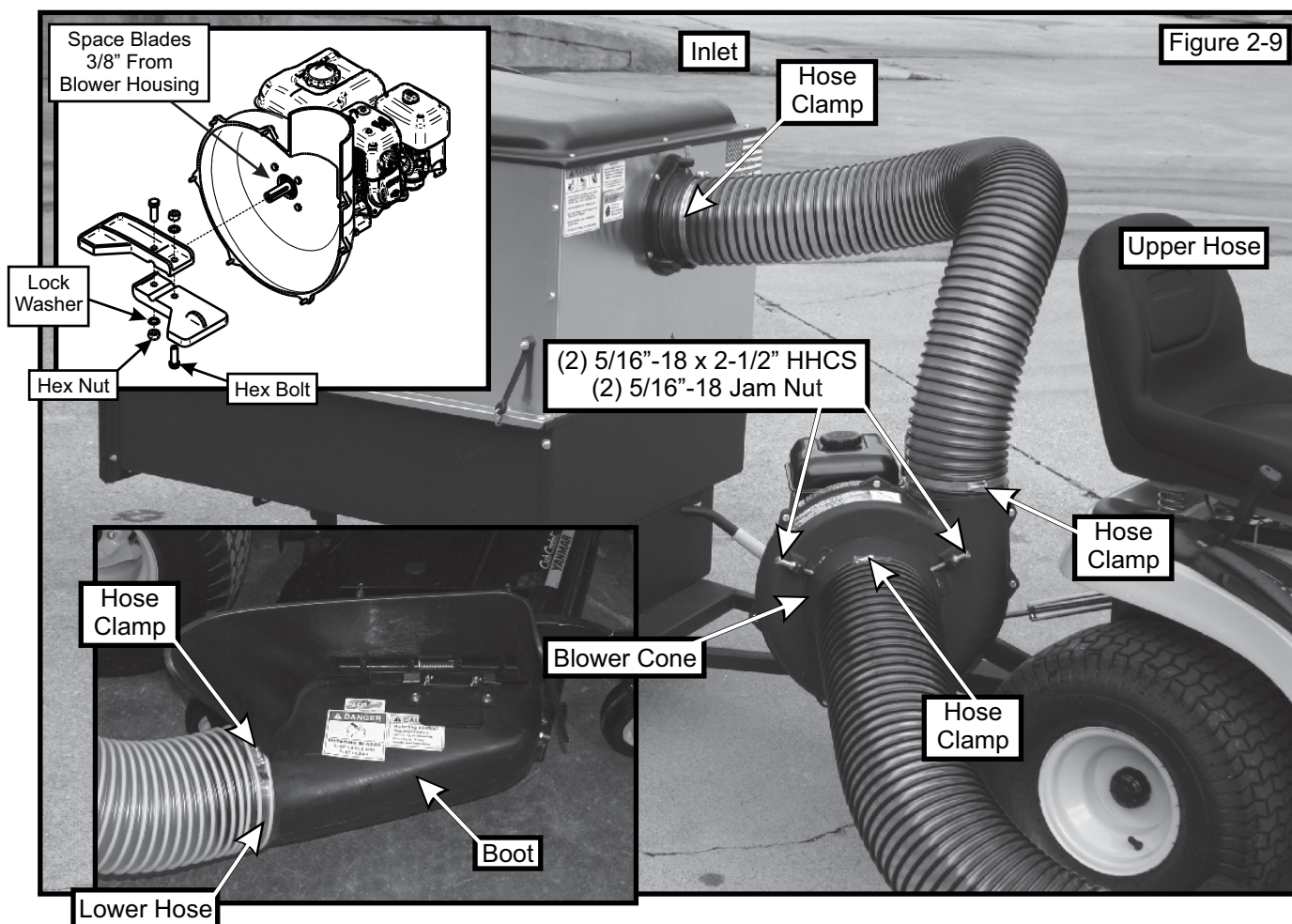
2-12 Upper Hose Installation

Slide (1) hose clamp P#(J1000) over each end of the upper hose. Connect one end of the upper hose to the outlet on the engine/blower/blade assembly and tighten the hose clamp. Insert the hose connector ring to the other end of the upper hose and tighten the hose clamp. Slide the hose connector ring into the inlet on the aluminum box and secure with pin. To check the length of the upper hose, position the tractor in a full left hand turn. There should be excess hose to allow the engine mount arm assembly to pivot.

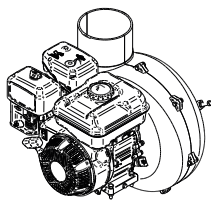
Note: It may be necessary to remove excess length from the upper and lower hoses. Always connect the hoses to your tractor and check hose lengths before cutting the hoses.

2-13 Impeller Blade Replacement

To replace a worn or damaged impeller blade, unbolt the front blower housing. Remove the hardware that secures the impeller blades to the engine shaft. Slide the new impeller blades onto the shaft as shown in Figure 2-9. Secure with blades to the shaft with (2) 1/2"-13 x 1-1/2" HHCS P#(K1233), (2) 1/2"-13 hex nut P#(K1243), and (2) 1/2" internal tooth lock washers P#(K0057). Space the blades 3/8" from the back blower housing, and torque the bolts to 16 ft. lbs. Check for clearing before starting engine.



Exploded View And Parts List



(1) ENGINE/BLOWER
BLADE ASSEMBLY

(1) V1021
HARD TOP
COVER

(4) J1000
2"-10" HOSE
CLAMP

(1)
6" x 60"
UPPER
HOSE

(1)
7" x 66"
LOWER
HOSE

(1)
E8010
6" INLET
RING

(1)
V1052
INLET RING
W/ LOCKING PIN

(1)
C2115
FRONT
PANEL

(1) E6004
7" BLOWER
CONE

(2)
C2134
SIDE PANEL
BRACE

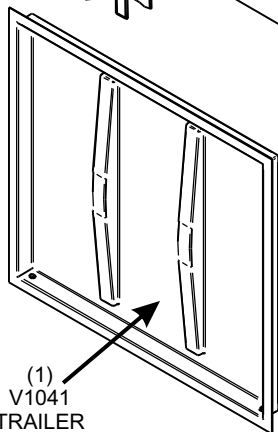
(1)
B8136
TRAILER
SCREEN

(1)
C2116
LT. SIDE
PANEL

(1)
C2117
RT. SIDE
PANEL

(2)
J0541
FRICTION
WASHER

(2)
J0516
REFLECTOR



(1)
V1041
TRAILER
DOOR

(1)
B1390
HEADER

(2)
C1170
DOOR LATCH
BRACKET

(1)
A0354
PAN
ASSEMBLY

(1)
A0263
TAIL GATE
ASSEMBLY

(1) K1159
5/16" x 2"
HHCS

(1) K0047
3/8" FLAT
WASHER

(1) K1191
3/8" x 1"
HHCS

(1)
J0522
HANDLE
GRIP

(1) K0099
3/32" HAIR
PIN CLIP

(1) B4311
ADJUSTING
ROD

(1) A0336
BALL CLEVIS
CLAMP ASSY.

(1) K1180
5/16" NYLOC
NUT

(1) B0132
BALL CLEVIS

(1)
B3492
DUMP
HANDLE

(1)
A0312
HITCH PIN
ASSEMBLY

(1)
A0837
ENGINE MOUNT
ARM ASSEMBLY

(1)
A1100
CHASSIS
ASSEMBLY

(1)
B0574
PAN
SUPPORT

(1)
H5001
RUBBER
TIRE

(1)
A08155
UNIT ASSY.
H.W. BAG

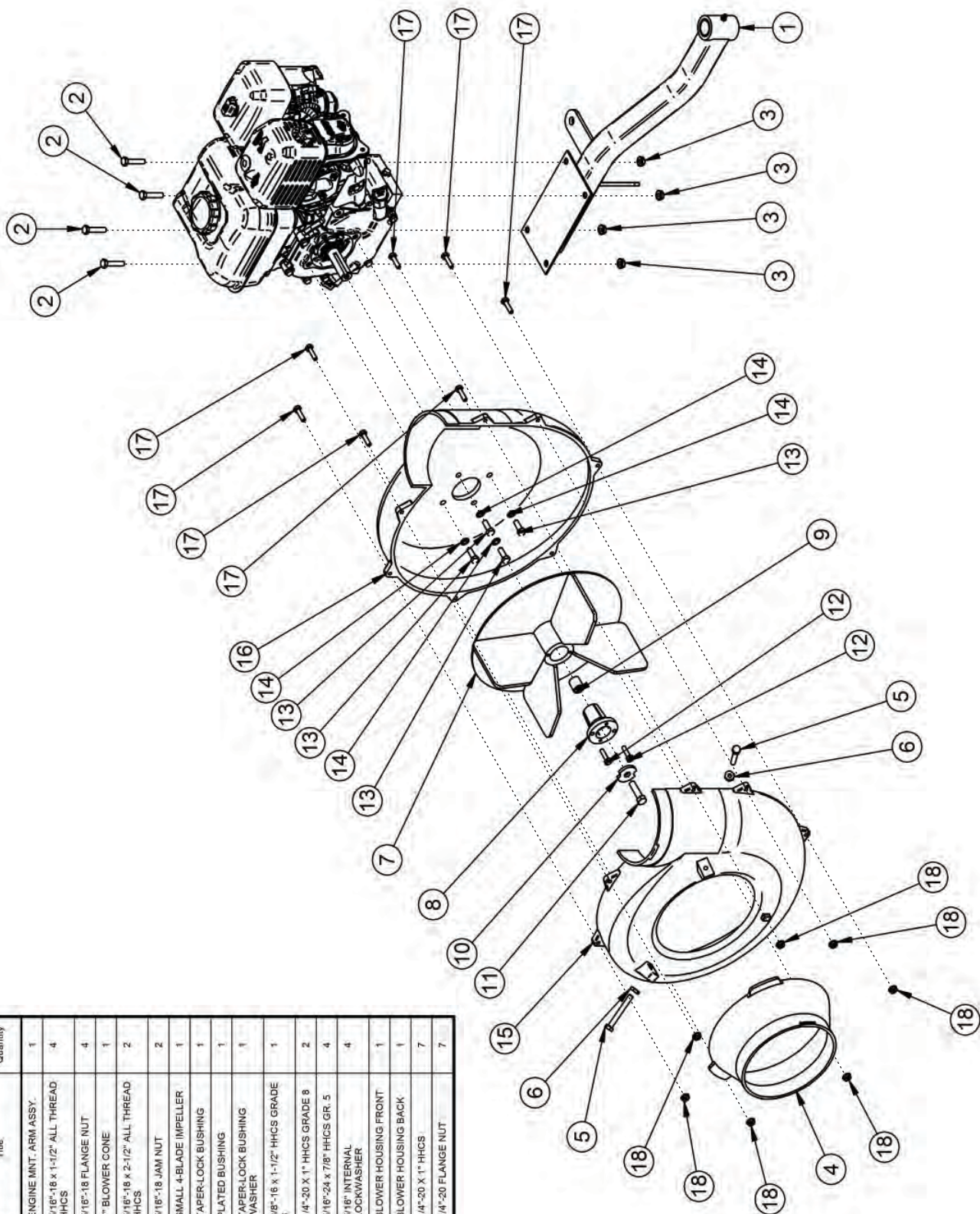
(1)
A0121 SMALL
UNIVERSAL BOOT KIT
A0849 BOOT KIT
HARDWARE BAG

(1)
A0137 LARGE
UNIVERSAL BOOT KIT
A0856 BOOT KIT
HARDWARE BAG

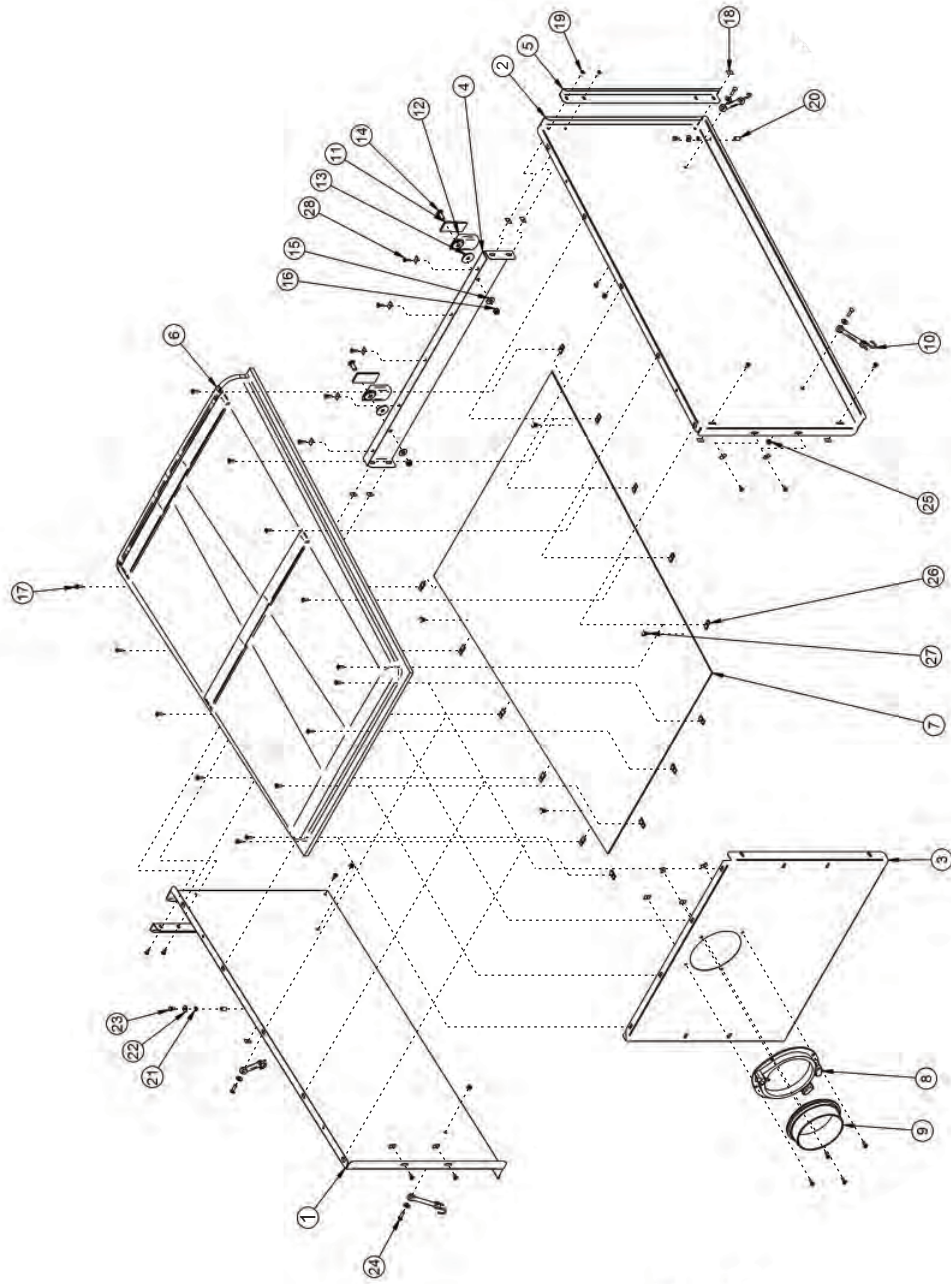
(1)
A0121 SMALL
UNIVERSAL BOOT KIT
A0849 BOOT KIT
HARDWARE BAG

(1)
A0137 LARGE
UNIVERSAL BOOT KIT
A0856 BOOT KIT
HARDWARE BAG

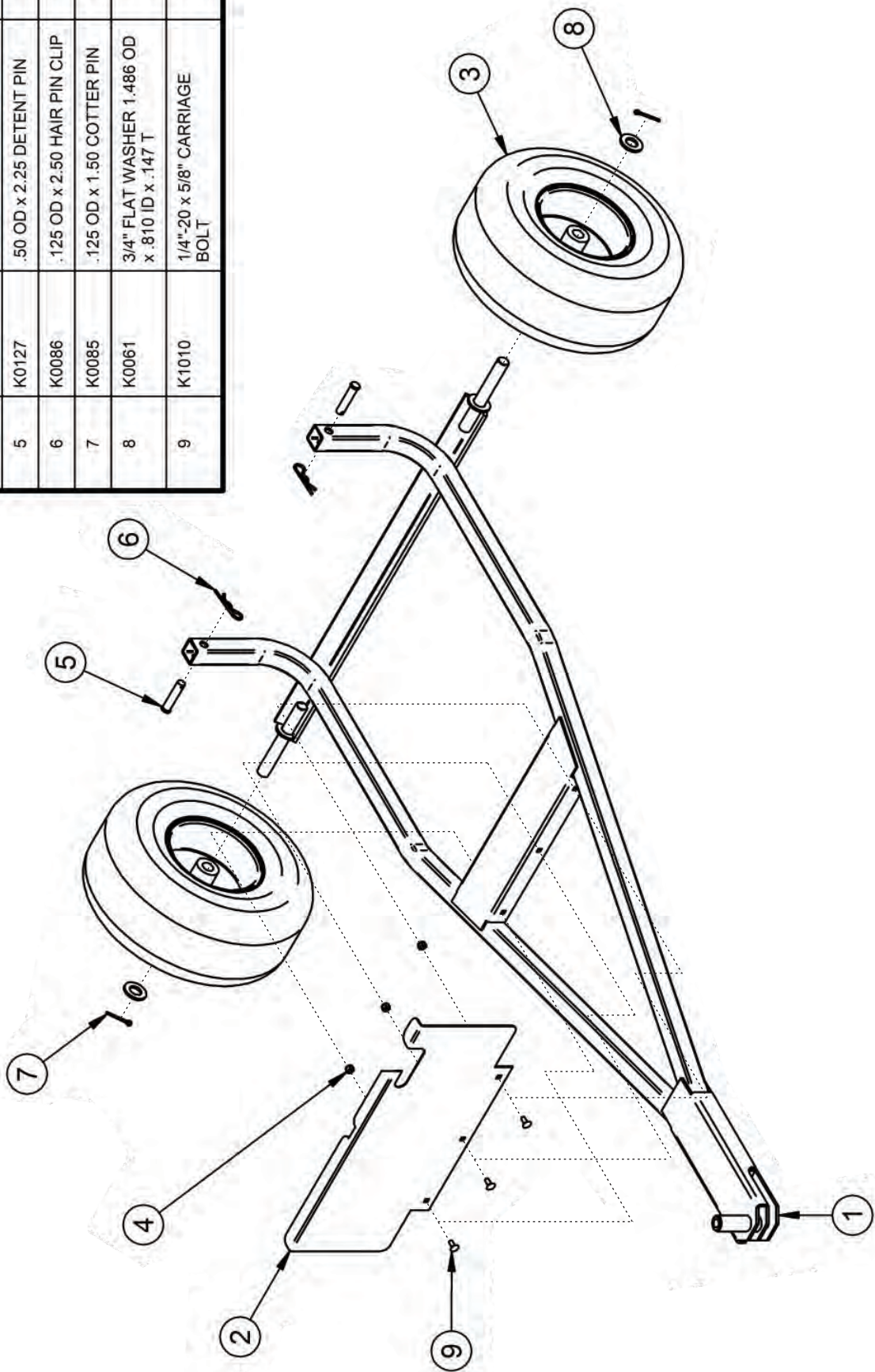
Item Number	Document Number	Title	Quantity
1	A0537	ENGINE MNT. ARM ASSY.	1
2	K1157	5/16"-18 x 1-1/2" ALL THREAD HHCS	4
3	K1178	5/16"-18 FLANGE NUT	4
4	E0004	7" BLOWER CONE	1
5	K0125	5/16"-18 x 2-1/2" ALL THREAD HHCS	2
6	K0120	5/16"-18 JAM NUT	2
7	A0645	SMALL 4-BLADE IMPELLER	1
8	S4302	TAPER-LOCK BUSHING	1
9	S3242	PLATED BUSHING	1
10	K0278	TAPER-LOCK BUSHING WASHER	1
11	K1211	3/8"-16 x 1-1/2" HHCS GRADE 8	1
12	K1225	1/4"-20 X 1" HHCS GRADE 8	2
13	K1170	5/16"-24 x 7/8" HHCS GR. 5	4
14	K0044	5/16" INTERNAL LOCKWASHER	4
15	E4052F	BLOWER HOUSING FRONT	1
16	E4052B	BLOWER HOUSING BACK	1
17	K1125	1/4"-20 X 1" HHCS	7
18	K1126	1/4"-20 FLANGE NUT	7



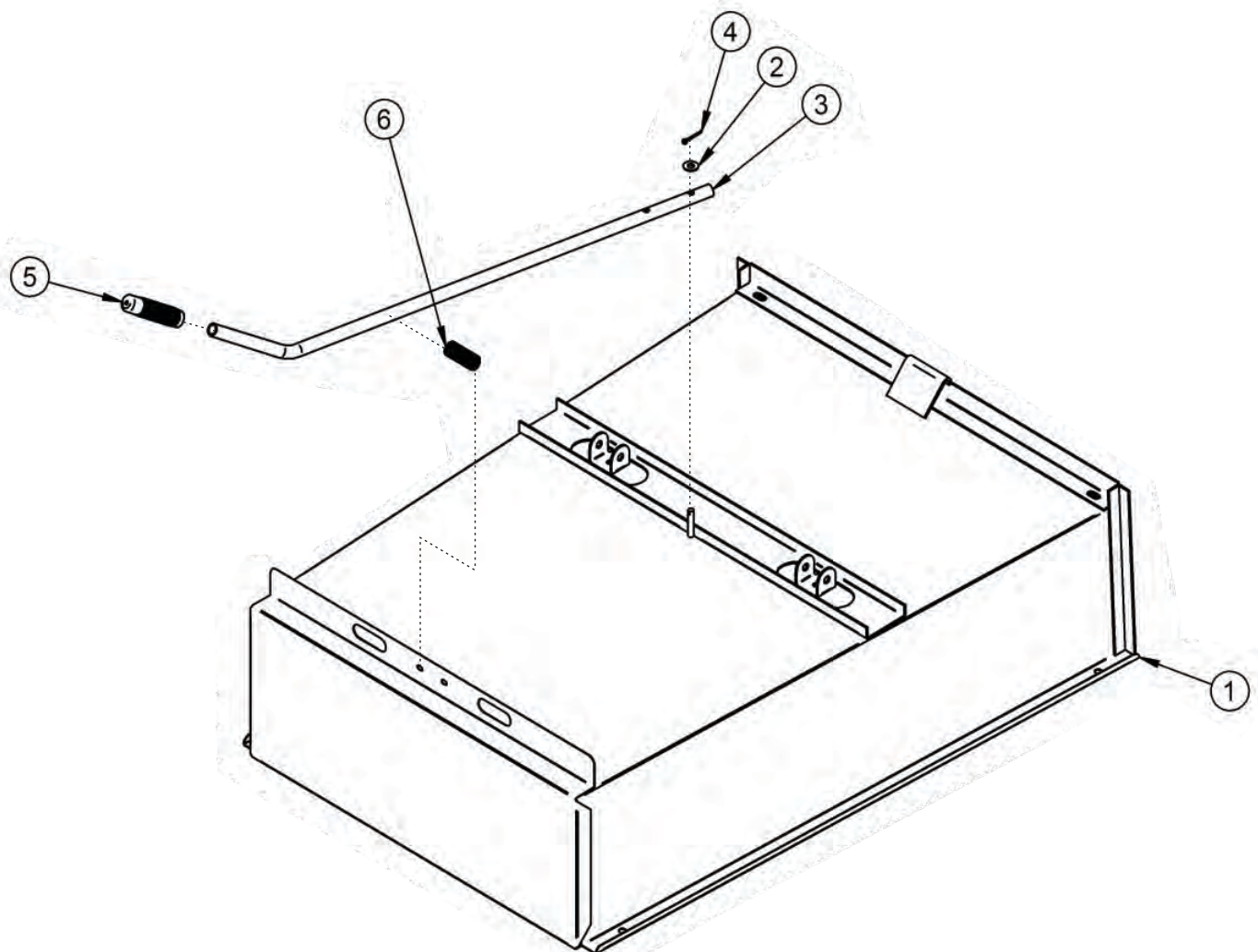
Item Number	Part Number	Title	Quantity
1	C2117	RT. SIDE PANEL	1
2	C2116	LT. SIDE PANEL	1
3	C2115	FRONT TRAILER PANEL	1
4	B1390	REAR DOOR BRACKET	1
5	C2134	TRAILER SIDE PANEL BRACE	2
6	V1021	HARD TOP COVER	1
7	V8136	TRAILER SCREEN	1
8	V1052	INLET RING W/ LOCKING PIN	1
9	E6010	6" INLET RING	1
10	J4009	SHORT RUBBER STRAP W/ S HOOK	4
11	J0516	3.25 x 1.44 RED STICK-ON REFLECTOR	2
12	C1170	DOOR LATCH BRACKET	2
13	J0541	1.50 OD x .406 ID x .125 T FRICTION WASHER	2
14	K1182	3/8"-16 x 1" CARRIAGE BOLT	2
15	K0047	3/8" FLAT WASHER 1.00 OD x .446 ID x .075 T	2
16	K1216	3/8"-16 NYLOC NUT	2
17	K0010	#10-12 x 3/4" SHARP TIP SMS	18
18	K0029	#10-12 FLAT TINNEMAN NUT 3/4" x 1/2"	21
19	K1096	#10-12 x 1/2" TINNEMAN SCREW	14
20	B4251	1/4"-20 LOCATOR PIN NUT	2
21	K0039	1/4" LOCK WASHER	2
22	K0037	1/4" FLAT WASHER .75 OD x .314 ID x .060 T	6
23	K1105	1/4"-20 x 1/2" HHCS	2
24	K1020	1/4"-20 x 1" CARRIAGE BOLT	4
25	K1128	1/4"-20 NYLOC NUT	4
26	K0068	LARGE TINNEMAN CLIP	14
27	K1265	PLASTIC FLATHEAD PANEL FASTENER, 182 HOLE	4
28	K1092	#10-12 x 3/4" BLUNT TIP SMS	5



Item Number	Document Number	Title	Quantity
1	A1100	CHASSIS ASSEMBLY	1
2	B0139	PAN SUPPORT	1
3	H3001	13.00 H x 5.00 W x 3/4" ID RUBBER TIRE	2
4	K1128	1/4"-20 NYLOC NUT	3
5	K0127	.50 OD x 2.25 DETENT PIN	2
6	K0086	.125 OD x 2.50 HAIR PIN CLIP	2
7	K0085	.125 OD x 1.50 COTTER PIN	2
8	K0061	3/4" FLAT WASHER 1.486 OD x .810 ID x .147 T	2
9	K1010	1/4"-20 x 5/8" CARRIAGE BOLT	3



Item Number	Part Number	Title	Quantity
1	A0354	PAN ASSEMBLY	1
2	K0047	3/8" FLAT WASHER 1.00 OD x .446 ID x .075 T	1
3	B3492	DUMP HANDLE	1
4	K0085	.125 OD x 1.50 COTTER PIN	1
5	J0522	.840 ID x 4.75 HANDLE GRIP	1
6	J0310	LATCH SPRING	1



SECTION III

OPERATING INSTRUCTIONS

General Safety

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

Operation & Tips On Mowing

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

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

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

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

Unloading The Collection System

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

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

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

SECTION IV

MAINTENANCE

Maintenance Checklist

Before each use:

1. Check blades and spindles to be sure that no foreign objects, such as wire or steel strapping bands, are wrapped around them.
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. Listen for abnormal sounds, which might indicate loose parts, damaged bearings, or other damage. Correct any deficiency before continuing operation.
5. Check for wear or deterioration of the upper or lower hoses. If there are any portions of the hose that have been torn or worn through, replace with genuine PECO parts.

After Each Use:

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

SECTION V PARTS AND SERVICE

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

Parts And Service Information

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


ARDEN, NC 28704 1-800-438-5823
MODEL #:
SERIAL #:

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

Unit Model Number: _____

Unit Engine Size: _____

Unit Serial Number: _____

Date of purchase: ____/____/____

Dealer/Distributor Name: _____

Dealer's/Distributor's: _____ **State:** _____ **Zip:** _____

Phone Number: _____

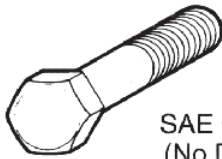
New PECO, Inc.
10 Walden Dr | Arden, North Carolina 28704
Phone: 1-800-438-5823 | 828-684-1234
Fax: 828-684-0858
Email: peco@lawnvac.com
Website: www.lawnvac.com

TORQUE SPECIFICATIONS

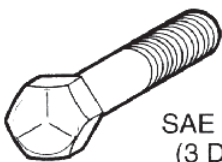
Proper torque for American fasteners used on Peco equipment.
Recommended Torque in Foot Pounds (Newton Meters).*

AMERICAN

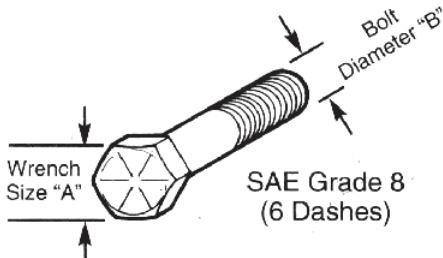
Bolt Head Markings



SAE Grade 2
(No Dashes)



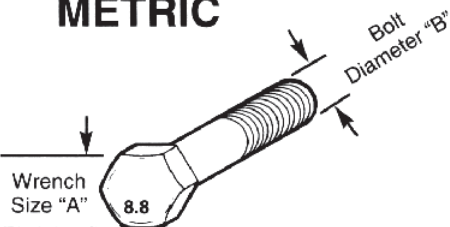
SAE Grade 5
(3 Dashes)



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)

METRIC



Numbers appearing on bolt heads indicate ASTM class.

Proper torque for metric fasteners used on Peco equipment.
Recommended torque in foot pounds (newton Meters).*

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

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

Troubleshooting Collection System Performance

2017 (v1.0)

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



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