

### OPERATOR MANUAL & ILLUSTRATED PARTS LIST

MODEL :

970512 BOSS-VAC<sup>™</sup>, 8 BUSHEL DFS, COLLECTION SYSTEM

970514 KIT-DECK, 48IN 8 BUSHEL COLLECTION SYSTEM 970515 KIT-DECK, 52IN 8 BUSHEL COLLECTION SYSTEM 970516 KIT-DECK, 61IN 8 BUSHEL COLLECTION SYSTEM

Manual 4170669 Rev. 05-01-2014



WARNING: If incorrectly used this machine can cause severe injury. Those who use and maintain this machine should be trained in its proper use, warned of its dangers and should read the entire manual before attempting to set up, operate, adjust or service the machine.



#### CALIFORNIA Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

#### Californie Proposition 65 Avertissement

Les échappements des moteurs diesel et certains de leurs composés sont reconnus par l'Etat de Californie pour être cancérigènes, provoquer des défauts congénitaux et d'autres dangers en matière de reproduction.

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The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

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L'émission du moteur de ce matériel contient des produits chimiques que l'Etat de Californie considère être cancérigènes, provoquer des défauts congénitaux et d'autres dangers en matière de reproduction.

#### California Advertencia de la Proposicion 65

El estado de California hace saber que los gases de escape de los motores diesel y algunos de sus componentes producen cáncer, defectos de nacimiento y otros daños en el proceso de reproducción humana.

### 

El estado de California hace saber que los gases de escape de este producto contienen productos quÍmicos que producen cáncer, defectos de nacimiento y otros daños en el proceso de reproducción humana.

### CALIFORNIA

Proposition 65 Warning

Battery posts, terminals, wiring insulation, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. WASH HANDS AFTER HANDLING.

#### IMPORTANT MESSAGE

Thank you for purchasing this Schiller Grounds Care, Inc. product. You have purchased a world class product, one of the best designed and built anywhere.

This product comes with an Owner / Operator's Manual. The useful life and good service you receive from this product depends to a large extent on how well you read and understand this manual. Take care of this product properly and adjust it as instructed, and it will give you many years of reliable service. This manual has been provided to assist you in the safe operations and servicing of this attachment.

See a Schiller Grounds Care, Inc. dealer for any service or parts needed. Schiller Grounds Care, Inc, service ensures that you continue to receive the best results possible from Schiller Grounds Care, Inc. products. You can trust Schiller Grounds Care, Inc. replacement parts because they are manufactured with the same high precision and quality as the original parts.

Schiller Grounds Care, Inc. designs and builds its equipment to serve many years in a safe and productive manner. For longest life, use this product only as directed in the manual, keep it in good repair and follow safety warnings and instructions. You'll always be glad you did.

**NOTE:** All photographs and illustrations in the manual may not necessarily depict the actual models or attachment, but are intended for reference only and are based on the latest product information available at the time of publication.

Familiarize yourself fully with the safety recommendations and operating procedures before putting the machine to use. Carefully read, understand and follow these recommendations and insist that they be followed by those who will use this attachment.

#### This manual should be kept for future reference.

## Please check if you have received all the parts for your kit with the list of the bag and the list of the box.

Schiller Grounds Care, Inc. One Bob Cat Lane Johnson Creek, WI 53038-0469

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#### **DESCRIPTION / SPECIFICATIONS**

#### DESCRIPTION

Rear mount 8 bushel collection system dump from seat.

### SPECIFICATIONS

Record your attachment's serial number and purchase date in the section reserved below. Your dealer requires this information to give you prompt, efficient service when ordering replacement parts. Use only genuine parts when replacements are required.

If warranty repairs are required please present this registration booklet and original sales invoice to your selling dealer for warranty service.

#### NOTICE !!!!

Unauthorized modifications may present extreme safety hazards to operators and bystanders and could also result in product damage.

Schiller Grounds Care, Inc. strongly warns against, rejects and disclaims any modifications, add-on accessories or product alterations that are not designed, developed, tested and approved by Schiller Grounds Care. Inc Engineering Department. Any Schiller Grounds Care, Inc product that is altered, modified or changed in any manner not specifically authorized after original manufacture-including the addition of "aftermarket" accessories by Schiller Grounds Care, Inc.-will result in the Schiller Grounds Care, Inc. Warranty being voided.

Any and all liability for personal injury and /or property damage caused by any unauthorized modifications, add-on accessories or products not approved by Schiller Grounds Care, Inc. will be considered the responsibility of the individual(s) or company designing and/or making such changes. Schiller Grounds Care, Inc. will vigorously pursue full indemnification and costs from any party responsible for such unauthorized postmanufacture modifications and/or accessories should personal injury and/or property damage result.



This symbol means: ATTENTION ! BECOME ALERT!

Your safety and the safety of others is involved.

#### Signal word definitions:

The signal words below are used to identify levels of hazard seriousness. These words appear in this manual and on the safety labels attached to Schiller Grounds Care, Inc. machines. For your safety and the safety of others, read and follow the information given with these signal words and/or the symbols shown above. Regardless of the hazard be extremely careful.

### 

**DANGER** Indicates an imminently hazardous situation which, if not avoided, **WILL** result in death or serious injury.

### 

**WARNING** Indicates a potentially hazardous situation which, if not avoided, **COULD** result in death or serious injury.

### 

**CAUTION** Indicates a potentially hazardous situation which, if not avoided, **MAY** result in minor or moderate injury. It may also be used to alert against unsafe practices or property damage.

### CAUTION

**CAUTION** Used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, **MAY** result in property damage.

Careful operation is your best insurance against an accident. Read this section carefully before operating the vehicle and accessory. This accessory is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury. All operators, no matter how experienced they may be, should read this and other manuals related to the vehicle and accessory before operating. It is the owner's legal obligation to instruct all operators in safe operation of the accessory.

SAFETY

GLOSSARY:	PREPARATION:
In this manual, right and left sides are determined by sitting on the seat of the vehicle facing forward.	<ol> <li>Thoroughly inspect the area where the accessory is to be used and remove door mats, all foreign objects and the like.</li> </ol>
In this manual, "accessories" means attachments that you install on the vehicle. TRAINING:	<ul><li>2 Disengage all clutches and shift into neutral before starting engine.</li><li>3. Do not operate the accessory without wearing</li></ul>
1. Read this owner's manual carefully. Be thoroughly familiar with the controls and proper use of the vehicle and accessory. Know how to stop the unit and disengage the controls quickly.	<ul> <li>adequate garments. Avoid loose fitting clothing that can get caught in moving parts. Wear footwear that will improve footing on slippery surfaces.</li> <li>Never attempt to make any adjustments while the</li> </ul>
2. Never allow children to operate the vehicle nor the accessory. Never allow adults to operate the vehicle nor the accessory without proper instructions.	<ol> <li>Never attempt to make any adjustments while the engine (motor) is running (except when specifically recommended by manufacturer).</li> <li>Let the vehicle and accessory adjust to outdoor</li> </ol>
3. No one should operate the vehicle nor the accessory while intoxicated or while taking medication that impairs the senses or reactions.	<ul><li>6. Never use an accessory without proper guards, plates, or other safety protective devices in place</li></ul>
. Keep the area of operation clear of all people, particularly small children and pets.	<ol> <li>Always make sure to wear the appropriate safety equipment required (glasses, muffs, mask) for each type of product. See operation section.</li> </ol>
	<ol> <li>Always make sure of having safe traction on the vehicle by using the recommended accessories</li> </ol>

#### **OPERATION:**

- 1. Do not put hands or feet near, under or inside rotating parts.
- 2. Exercise extreme caution when operating on or crossing gravel drives, walks or roads. Stay alert for hidden hazards or traffic. Do not carry passengers.
- 3. After striking a foreign object, stop the engine (motor), disconnect the wire from the spark plug(s) and keep wire away to prevent accidental starting. Thoroughly inspect the accessory for any damage and repair damage before restarting and using the accessory.
- 4. If the unit should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning of trouble.
- 5. Take all possible precautions when leaving the vehicle unattended. Disengage the power takeoff, lower the attachment, place the transmission into neutral, set the parking brake, stop the engine and remove the contact key.
- Never use the accessories across the face of slopes, go from top to bottom. Exercise extreme caution when using equipment on slopes. Do not attempt to clear a steep slope.
- 7. Never tolerate bystanders in the working zone. Never use an accessory in the direction of bystanders, it might throw gravel or debris that can hurt people or damage property.
- 8. Never operate the accessory at high transport speeds on slippery surfaces. Use care when backing up.
- 9. Do not carry passengers.
- 10. Disengage power to the accessory when it is transported or not in use.
- 11. Never operate the accessory without good visibility or light.

#### MAINTENANCE AND STORAGE

- When cleaning, repairing or inspecting the vehicle and accessory, make certain that all moving parts have stopped. Disconnect wire from the spark plug(s) and keep wire away to prevent accidental starting.
- 2. Check all the bolts and components at frequent intervals to make sure that they are properly tightened.
- 3. Always refer to the owner's manual when you store the accessory and vehicle for a prolonged or an unspecified length of time.
- 4. Maintain or replace safety and instruction labels, as necessary.
- 5 Let the engine run for a few minutes after cleaning snow in order to prevent the rotary parts from freezing.

#### REPLACE IF DECALS ARE DAMAGED SEE PARTS BREAKDOWN FOR DECAL LOCATION



To avoid serious injury from Rotating Blades

- Keep hands and feet away
- Stop engine and let blades stop before removing grass collector or unclogging.

To avoid injury from thrown objects

- Keep area clear of people and pets.
- Remove objects blade may strike and throw.
- Stop blades to cross gravel areas.
- Do not operate without chute, mulcher or entire grass collector in place.

#### DECAL #4137371



To avoid injury from machine movement Machine can crush.

- Movement can occur unexpectedly.
- Stay clear while engine is running.
- Stop engine to clean or service.



To avoid injury from rotating parts

• Do not operate with cover removed.

#### DECAL #2000735



Before installing or using:

 Locate, read and make sure to understand all of the owner's manual.

#### DECAL #4165975



To avoid serious injury from fan blades Fan blades can cut/crush

- Keep hands and feet away.
- Stop engine and remove spark plug wire before servicing.
- Do not operate without guards in place.

To avoid injury from thrown objects

- Keep bystanders away.
- Do not blow toward people or pets.
- Do not blow toward items that may be damaged by flying debris.

#### DECAL #4170258



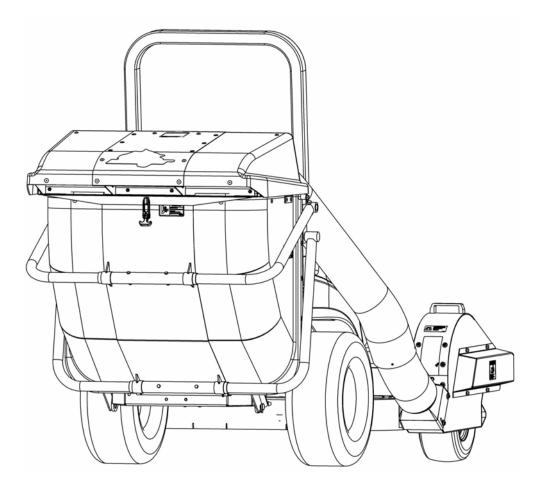
To avoid injury from throw objects.

• Do not raise cover while unit is running.

#### Tools Required:

Wrench : 10mm, 7/16, 1/2, 9/16, 3/4" Ratchet Socket : 3/8, 10mm, 7/16, 1/2, 9/16, 3/4" Drill bits : 13/64, 9/32, 13/32" Drill Small Cross head (Phillips Drive) screwdriver Small Screw driver with Bit "T25 Torx drive" Pliers

Refer to parts breakdown section for parts identification



Fully assembled view

b

108

### DFS COLLECTION SYSTEM

#### <u>STEP 1:</u> GRASS COLLECTOR PREPARATION:

#### <u>Chute :</u>

Remove chute (item #117) from bag in shipping crate .

Using the dimpled marks as a guide:
Drill four holes 9/32" (item a)
Two holes 13/64" (item b) are already drilled for rubber hitch.

Install rubber hitch (item 108) on chute with two Tapping screw "T25 Torx drive" (item 142).

On chute, choose hole corresponding to your deck size.

Deck size	Recommended hole
48 in	С
52 in	С
61 in	В

\*This chosen hole can be changed depending of vehicle and discharge tube adjustment.

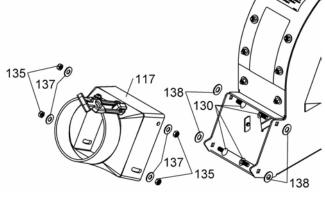
Install sleeve (item 119) this chosen hole (on chute) with one Machine screw T.H.  $1/4 \times 3/4$  (item 141), one flat washer 5/16 (item 136) and one nylon insert lock nut 1/4 thin (item 134).

Take the blower from the shipping crate.

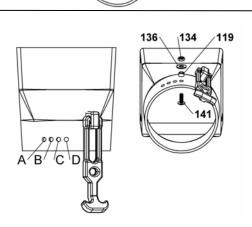
#### Chute Installation:

Install the chute (item 117) on the blower as shown. Tighten just enough so that the chute rotates freely.

REF.	ENGLISH DESCRIPTION	QTY.
117	Chute	1
130	Carriage bolt 5/16" n.c. x 3/4 " GR5	4
135	Nylon insert lock nut 5/16" n.c. (thin)	4
137	Flat washer 3/8" hole	4
138	Flat washer 7/16" hole	4







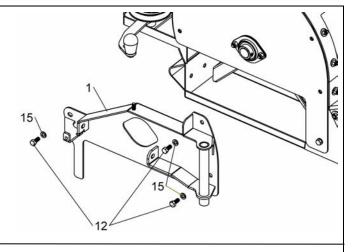
#### **BLOWER ASSEMBLY:**

Take deck kit corresponding to mower deck size.

#### <u>For 48" deck:</u> <u>Use deck kit #970514</u>

Install blower hitch to blower as shown.

REF.	ENGLISH DESCRIPTION	QTY.
1	Blower hitch	1
12	Hex. bolt 5/16" n.c. x 3/4" GR5	3
15	Lock washer 5/16"	3



#### <u>For 52" and 61" deck:</u> Use deck kit #970515 and #970516.

Choose one set of holes (A or B) corresponding to your deck size.

Deck size	Set of holes
52 in	А
61 in	В

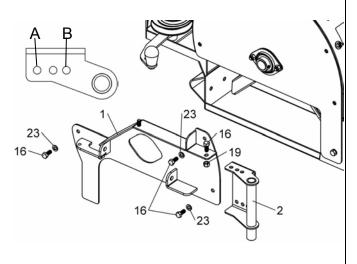
Install link tube to blower using corresponding holes. Install blower hitch to blower, as shown.

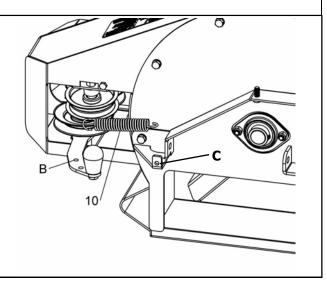
REF.	ENGLISH DESCRIPTION	QTY.
1	Blower hitch	1
2	Link tube	1
16	Hex. bolt 5/16" n.c. x 3/4" GR5	4
19	Nylon Insert lock Nut 5/16" n.c.	1
23	Lock washer 5/16"	3

#### <u>For 48" deck:</u> <u>Use deck kit #970514</u>



Insert spring (item 10) longer end (item A) on tensioner's hole (item B). Insert other end in the hole on the blower hitch (item C) as shown.





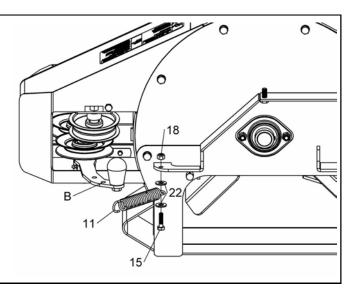
Spring installation:

<u>For 52" and 61" deck:</u> <u>Use deck kits #970515 and 970516.</u>

A-G

Insert spring (item 11) longer end (item A) on tensioner's hole (item B). Bolt other end in the hole on the blower hitch as shown.

REF.	ENGLISH DESCRIPTION	QTY.
11	Spring	1
15	Hex. bolt 1/4" n.c. x 1" GR5	1
18	Nylon Insert lock Nut 1/4" n.c.	1
22	Flat washer 5/16" hole	2



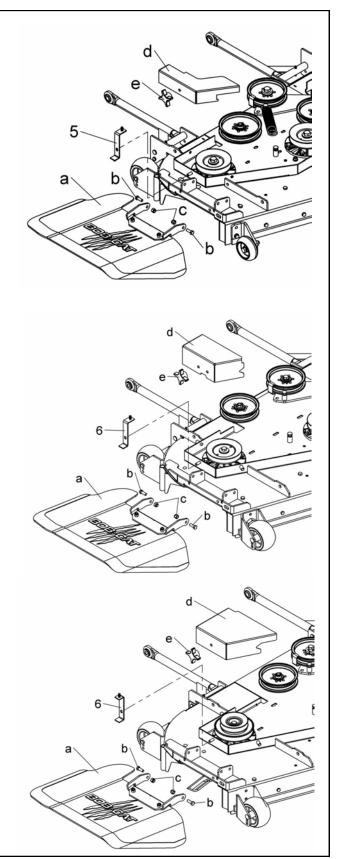
#### <u>STEP 2:</u> VEHICLE PREPARATION

#### Removing parts and bracket installation:

#### For 48" deck:

From mower deck, remove chute (item a), its hardware (items b & c) and belt guard (item d).

By using same knob (item e), install bracket (item 5) from deck kit #970514 on mower deck.



## For 52" deck

From mower deck, remove chute (item a), its hardware (items b & c) and belt guard (item d).

By using same knob (item e), install bracket (item 6) from deck kit #970515 on mower deck.

#### For 61" deck

From mower deck, remove chute (item a), its hardware (items b & c) and belt guard (item d).

By using same knob (item e), install bracket (item 6) from deck kit #970516 on mower deck.

#### Baffle and pulley installation:

\*Refer to double pulley table on page 29 to select the correct double pulley and spacer.

#### For 48" deck, use deck kit #970514.

From mower deck, remove current discharge baffle (item a).

By using same hardware (items b & c), install discharge baffle supplied (item 3) on mower deck.

From mower deck, release tension on spindle drive belt and remove current pulley (item d).

Remove existing stock washer (item w) from spindle drive.

By using same hardware (items e, f & g), install double pulley (item 18) on mower deck.

Re-install belt from mower deck on bottom pulley.

#### For 52" deck, use deck kit #970515.

From mower deck, remove current discharge baffle (item a).

By using same hardware (items b & c), install discharge baffle supplied (item 4) on mower deck.

From mower deck, release tension on spindle drive belt and remove current pulley (item d).

Remove existing stock washer (item w) from spindle drive.

By using same hardware (items e, f & g), install double pulley (item 25) on mower deck. Re-install belt from mower deck on bottom pulley.

#### For 61" deck, use deck kit #970516.

From mower deck, remove current discharge baffle (item a). Keep hardware.

Select set of holes matching with current discharge baffle removed.

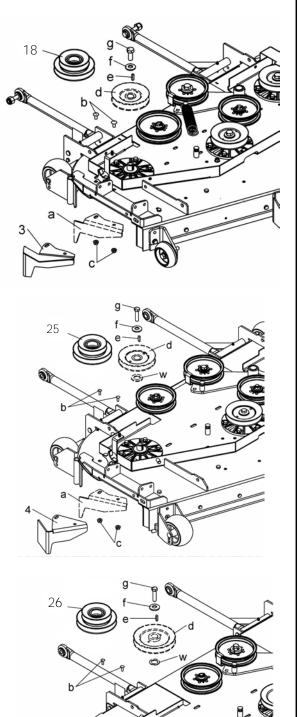
By using same hardware (items b & c), install discharge baffle supplied (item 4) on mower deck matching holes.

From mower deck, release tension on spindle drive belt and remove current pulley (item d).

Remove existing stock washer (item w) from spindle drive.

By using same hardware (items e, f & g), install double pulley (item 26) on mower deck.

Re-install belt from mower deck on bottom pulley.



#### Right and left support installation

If applicable, remove rear counterweights plates from vehicle's rear bumper.

Remove four bolts and nuts (item A) from vehicle's bumper. They will be replaced by new ones.

Install right and left support on right and left side of vehicle's rear bumper as indicated .

Sleeve	2
Right support	1
Left support	1
Washer #10Ga 13/32" hole	2
Hex. bolt 3/8" n.c. x 1-1/4" GR5	6
Hex. bolt 7/16" n.c. x 1-3/4" GR5	2
Nylon Insert lock Nut 3/8" n.c.	6
Nylon Insert lock Nut 7/16" n.c.	2
Flat Washer 7/16" hole	2
	Right support Left support Washer #10Ga 13/32" hole Hex. bolt 3/8" n.c. x 1-1/4" GR5 Hex. bolt 7/16" n.c. x 1-3/4" GR5 Nylon Insert lock Nut 3/8" n.c. Nylon Insert lock Nut 7/16" n.c.

#### Counterweight installation:

Install left and right brackets counterweight bracket assembly with two nex. bolt 1/2" n.c. x 4 1/4" (item 156) and nuts (item 161).

Note: When installing adjustment arms, the U-channel (item U) should be faced inward.

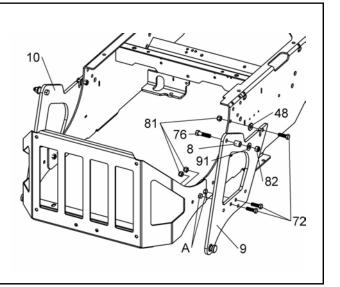
Release nuts (items 161) and brackets (items 152) and install properly counterweight brackets assembly around caster tube as indicated.

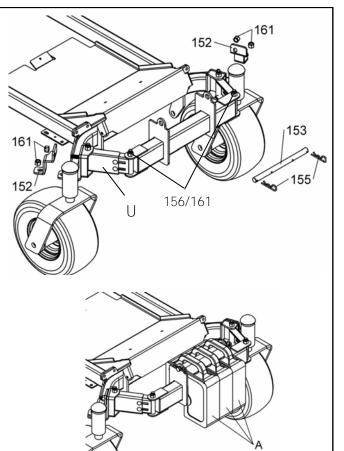
Using adjustment slots and pivot points, make sure there is no interference with any possible movement of vehicle (caster wheels and foot rest panel).

Tighten bolts and nuts to fix counterweight bracket.

Install three counterweights (item A) on its bracket. Note : Counterweights are supplied separately with corresponding deck kit.

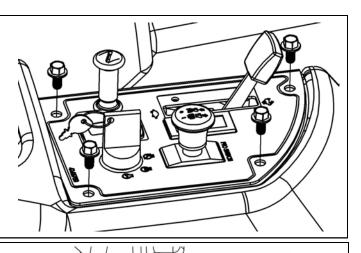
Secure with pivot pin (item 153) and two hair pins (items 155).





#### Control panel:

Remove the four bolts from control panel and keep them aside.



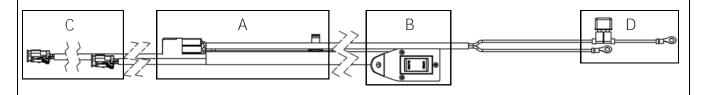
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## Identify the orange wire for auxiliary electrical connection:

Rotate the control panel and locate the orange wire (item a) from ignition switch. This wire leads to vehicle's auxiliary electrical connection.

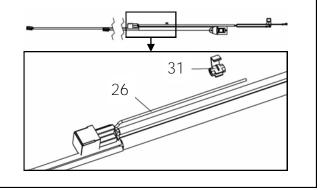
#### Identify wire assembly (item 26) sections to install:

- A) Orange wire for ignition switch.
- B) Control box for control panel.
- C) Two connectors for actuators.
- D) Two ring terminals for battery.



#### A) Connect the orange wire :

By using pliers, join this orange wire (located before) and the orange wire from the wire assembly (item 26) with the instant connector (item 31).

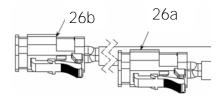


#### B) Install the control box :

Replace the control panel with its four bolts, installing the control box of the wire assembly (item 29) on the panel next to the PTO switch as illustrated.

#### C) Route and tie all wire ends :

Route wire (item 26) from control box (item 26c) as shown and use tie wrap (item 97) with current wire harness to hold tight around fuel tank and avoid interference with vehicle seat assembly in all its movements.



Route the **short** actuator connector (item 26a) wire to the back of the vehicle, from the **right side** of the vehicle.

Position wires to inside of the frame.

Route the **long** actuator connector (item 26b) wire to the back of the vehicle, from the **left side** of the vehicle. Position wires to inside of the frame.

**IMPORTANT:** Make sure none of the wires (item 26) interfere with anything on the tractor nor come into contact with any heating, electrical, moving parts or removable elements of the tractor.

Where needed, tie the wires with other nylon tie wraps 8" (item 97) included in the kit.

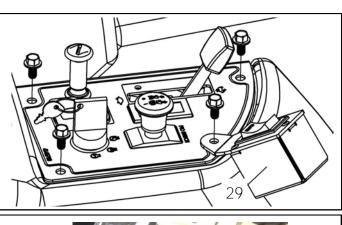
## D) Install ring terminals to the vehicle's battery:

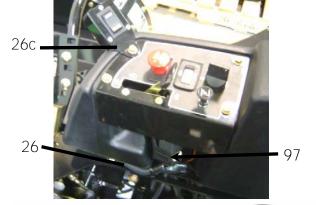
## Read and follow the safety precautions for the battery in the vehicle's manual.

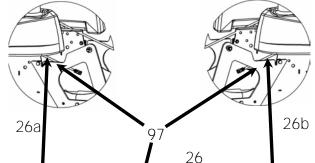
The red or white wire (+) on the positive post of the battery (item +).

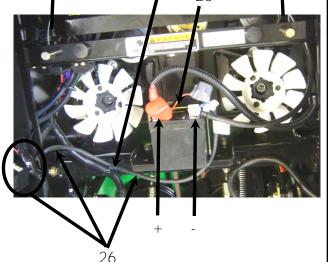
The black wire (-) on the negative post of the battery (item -).

Make sure to tighten the nuts on the battery posts.







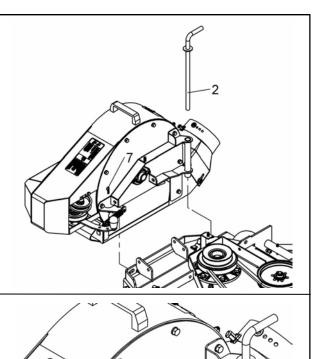


#### STEP 3: COLLECTION SYSTEM INSTALLATION:

#### For 48" deck, use deck kit #970514:

Install blower on deck with mounting pin (item 2).

Secure with hair pin (item 7).



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Choose between A or B installation

A) Bolts (items 13)
 ⇒ Longer to install and remove but hold tighter.

Secure blower on deck with two bolts (items 13) and nuts (items 14).

B) Pins (items 6)  $\implies$  Faster to install and remove but hold less tight.

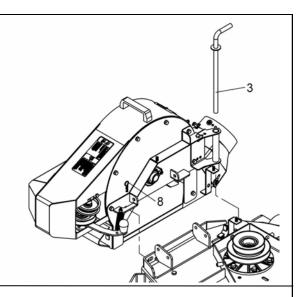
Secure blower on deck with two pins (items 6) and hair pins (items 8).

#### THE BLOWER:

#### For 52" and 61" decks: Use deck kits #970515 AND 970516

Install blower on deck with mounting pin (item 3).

Secure with hair pin (item 8).



Choose between A or B installation

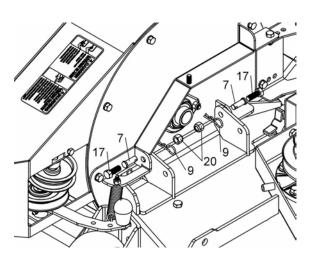
A) Bolts (items 17)
 ⇒ Longer to install and remove but hold tighter.

Secure blower on deck with two bolts (items 17) and nuts (items 20).

B) Pins (items 7)

 $\implies$  Faster to install and remove but hold less tight.

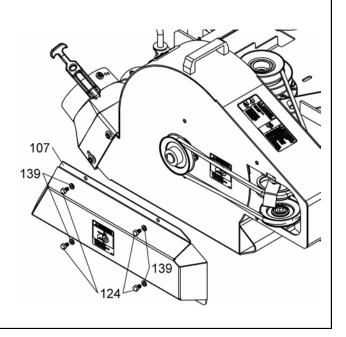
Secure blower on deck with two pins (items 7) and hair pins (items 9).



#### Belt installation installation:

For 48", 52" and 61" deck:

Remove belt cover (item 107) from blower. Keep hardware (item 124 & 139).

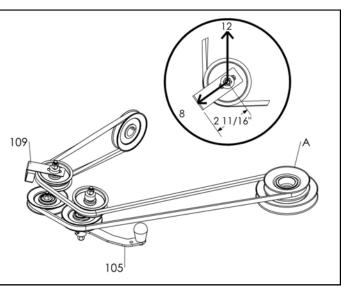


Loose bolt and nut holding belt guide (item 109)

Install belt on all blower pulleys as shown.

Position belt guide at approximately the 8 o'clock position and 2 11/16" as shown to make sure it doesn't interference with belt or pulley. Tighten bolt and nut loosen before.

By pulling on tensioner (item 105), install belt on top pulley (item A) (from double pulley previously installed).

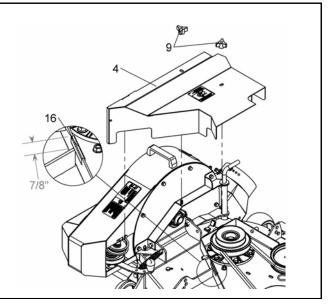


#### Belt guard installation:

<u>For 48" deck :</u> <u>Use\_deck kits #970514.</u>

As shown, install belt guard (item 4) on deck and blower using two knobs (item 9).

Install flex trim (item 16) on mower deck as shown.



#### Belt guard installation:

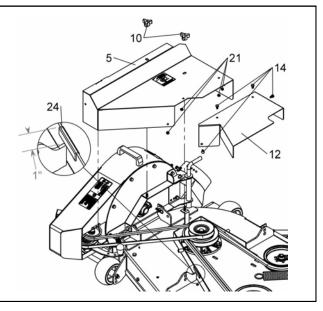
#### For 52" and 61" deck : Use deck kits #970515 and 970516.

As shown, install extension (item 12) on belt guard (item 5) using four hex bolts 1/4 n.c. x 1/2 (items 14) and nylon insert lock nuts (items 21).

As shown, install belt guard (item 5) on deck and blower using two knobs (item 10).

#### For 61" deck only :

Install flex trim (item 24) on mower deck as shown.



#### COLLECTION SYSTEM ASSEMBLY:

Before removing collection system from crate, remove two carriage bolts (item A) and nylon lock nuts (item B) from two latches.

Release latches.

Tip : install carriage bolt on hole (item C) to keep latches opened during pallet removal only.

### 

#### COLLECTION SYSTEM IS HEAVY!

To avoid risk of strain injury, NEVER lift the collection system by hand alone when handling the components or assembly. Use proper lifting device or seek assistance. NEVER be underneath the collection system when it is off the ground Serious injury.

when it is off the ground. Serious injury including possibility of death could occur if collection system were to drop suddenly. Always wear protective shoes and appropriate gloves when manipulating or

#### using this equipment.

Take collection system from crate and install it on bottom pin already installed on vehicle.

Rotate collector toward vehicle to clip it on top latch (item A).

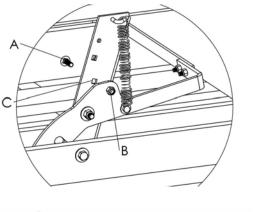
NOTE: The bumper of the vehicle (item B) may need to be rotated down to allow clearance of the collection frame.

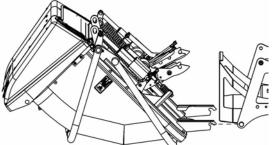
### **WARNING**

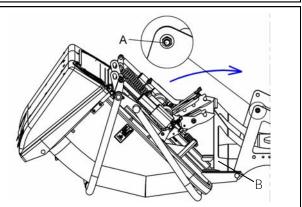
Use latches with extra care! When it is released or not properly installed, the collector will dangerously fall down. Use proper lifting device or seek assistance.

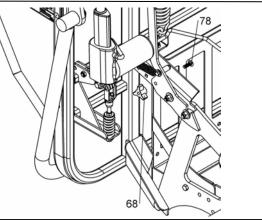
#### IMPORTANT:

Secure collector's latch with two carriage bolts 5/16" n.c. x 3/4" (item 78) and two knobs (item 68). (Install one on each side).









#### **ASSEMBLY INSTRUCTIONS**

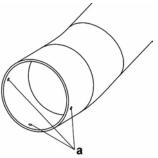
### DFS COLLECTION SYSTEM

#### Discharge tube :

Remove discharge tube (item 36) from shipping crate .

Using the dimpled marks (item a) as a guide:

• Drill three holes 9/32".



#### Adjustment tube :

Remove adjustment tube from shipping crate . Choose one set of holes corresponding to your deck size.

Deck size	Recommended hole
48 in	J
52 in	I
61 in	Н

\*This chosen set of holes can be changed depending of vehicle and discharge tube adjustment.

Using the drilling template supplied as a guide:

• Drill two holes chosen 9/32".

• Drill two holes 9/32" for handle (item a).

Two holes 13/64" (item b) are already drilled for keeper.

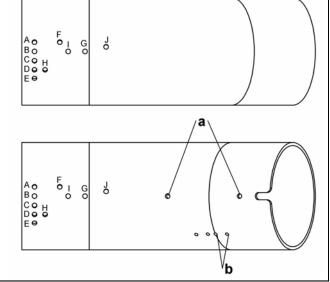
#### Adjustment tube :

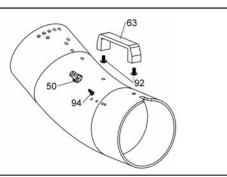
Install keeper and handle on adjustment tube .

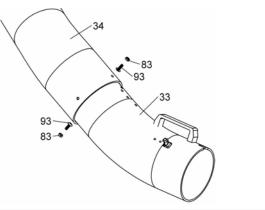
REF.	ENGLISH DESCRIPTION	QTY.
63	Handle	1
92	Machine screw T.H. 1/4" n.c. x 1/2"	2
94	Tapping screw M5 x 12mm "T25 Torx drive"	1
50	Keeper plate	1

#### Assemble both tubes together:

Install adjustment tube (item 33) on discharge tube (item 34) with two machine screws T.H. 1/4" x 3/4" (item 93) and two nylon insert lock nuts 1/4" n.c. (thin) (item 83).

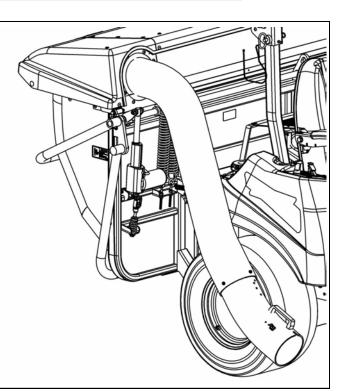






#### Discharge tube top:

Rotate discharge tube's elbow counter clockwise into grass collector's Rubber seal.



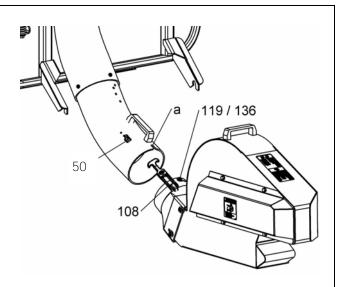
#### Discharge tube bottom:

TIP: Position mower deck's height at mid range position to ease tubing assembly.

By using handle, install bottom portion of discharge tube assembly on chute (previously installed on blower).

Make sure slot (item a) is going over sleeve (item 119) and under flat washer (item 136).

Latch discharge tube on chute by stretching rubber hitch (item 108) over keeper (item 50).



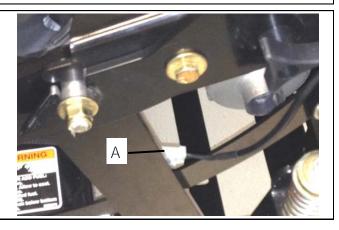
#### **Connect two Actuators**





Connect both actuator connectors (item A) to corresponding connector previously installed on vehicle to inside of the frame.

**CAUTION** Make sure connections are completed. If not, this MAY result in actuator damage.



#### <u>STEP 4 :</u> ADJUSTMENTS

#### ADJUST DISCHARGE TUBE:

It's possible to adjust tube positioning by using another set of holes. If no set of holes corresponds to the need, make sure it is well installed. If it is well installed, it is possible to adjust tube to a proper fit (verify mower deck up and down position). A proper fit corresponds to the tube exiting elbow to be horizontal (from back view) when deck's height is at mowing position.

#### Fix discharge tube assembly :

Note: Drill free hole (item a) when discharge tube assembly is mounted to vehicle. This will allow adequate tire clearance.

By using free hole (item a) on discharge tube (item 36) as drilling template, drill one hole 9/32" on adjustment tube (item 35).

Unlatch and remove discharge tube assembly from chute (previously installed on blower).

Using this new hole, install one machine screw T.H. 1/4" x 3/4" (item 93) and one nylon insert lock nut 1/4" n.c. (thin) (item 80).

As described before, reinstall bottom portion of discharge tube assembly on chute.

#### ADJUST CORRECT CLAMPING FORCE.

Collection system DFS is equipped with an adjustable spring clamping force mechanism. This system is designed to allow variation from collection system's components used for lifting device. When properly adjusted, this clamping force keeps collector closed while running.

To adjust the correct clamping force, refer to service section.

#### STEP 5 COLLECTION SYSTEM REMOVAL INSTRUCTIONS:

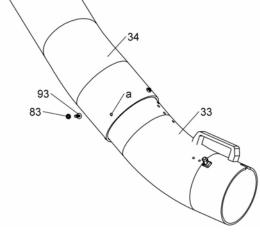
1. Close collection system (refer to operation section).

### **WARNING**

TO PREVENT INJURIES: STOP THE MOTOR. APPLY PARKING BRAKE. REMOVE THE IGNITION KEY. DIS-CONNECT THE WIRE FROM THE SPARK PLUG(S) AND KEEP AWAY FROM SPARK PLUG(S) TO PREVENT ACCIDENTAL STARTING.

### 2. Using same **AWARNING** sections,

3. Follow reversed procedure in STEP 3 : COLLECTION SYSTEM INSTALLATION.



R 17 ft

### DFS COLLECTION SYSTEM

#### STEP 6 OPERATING INSTRUCTIONS:

The collection system is started at the same time as the mower deck. Refer to the mower deck and the vehicle owner's manuals to familiarize yourself with the controls and safety precautions.

#### Using collection system

- 1. Start the tractor engine.
- 2. Engage mower deck.
- 3. Follow mowing instructions.

#### CONTROLS

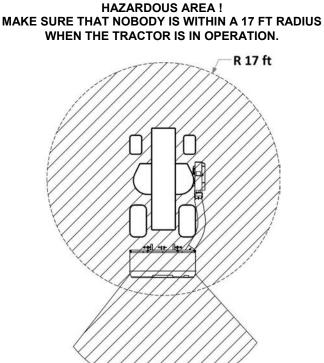
Important: In order to avoid draining the battery of the vehicle, always use electric device when engine is running.

#### Emptying collection system

1. Press and hold control switch to "OPEN" position.

#### **Closing collection system**

 When emptied, press and hold control switch to "CLOSE" position until actuators are fully extended.



### **WARNING**

READ THE TRACTOR OWNER'S MANUAL CAREFULLY. BE THOROUGHLY FAMILIAR WITH THE CONTROLS & PROPER USE OF THE ATTACHMENT. KNOW HOW TO STOP THE ATTACHMENT & DISENGAGE THE CONTROLS QUICKLY.

USE EXTRA CARE IN OPERATION. THIS ATTACHMENT CAN CHANGE THE STABILITY OF THE VEHICLE IN OPERATION AND IN STATIC CONDITIONS. CHECK BRAKE OPERATION PRIOR TO ANY USE. ADJUST AND REPAIR ANY PROBLEM BEFORE USING. NEVER OPERATE IN SLOPE MORE THAN 10°.

### 

Use care while operating near obstacles. This attachment adds width and length to vehicle and mower deck. Familiarize yourself with the new vehicle's dimensions.

### **WARNING**

- Always wear protective ear muffs, safety mask and safety glasses when operating the accessory.
- Never use the grass collector without all the guards and the discharge tube correctly installed. The collector and the cover must be in closed position.
- If during the operation, an anomaly occurs (loss of part, breakage, tube stands, etc..); STOP the vehicle immediately and rectify the situation.

### 

#### **CLEARING A CLOGGED DISCHARGE CHUTE:**

Hand contact with the rotating impeller inside the discharge chute is a common cause of injury. Never use your hand to clean out the discharge chute.

#### To clear the chute: NEVER USE YOUR HANDS.

- 1. Disengage the clutch.
- 2. Lower mower deck to the ground and set parking brake.
- 3. SHUT THE ENGINE OFF & REMOVE KEY!
- 4. Wait 10 seconds to be sure that all moving parts such as the impeller blades have stopped moving.
- 5. Disconnect wire from the spark plug(s) and keep wire away to prevent accidental starting.
- 5. Always use a clean-out tool (a wooden stick that is at least 3 feet long minimum)

#### SERVICE SCHEDULE

### 

TO PREVENT INJURIES: STOP THE MOTOR. APPLY PARKING BRAKE. REMOVE THE IGNITION KEY. DISCONNECT THE WIRE FROM THE SPARK PLUG(S) AND KEEP AWAY FROM SPARK PLUG(S) TO PREVENT ACCIDENTAL STARTING.

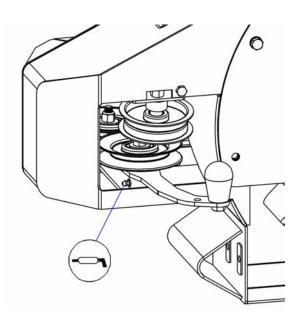
NEVER GET UNDER THE GRASS COLLECTOR WHEN IT IS RAISED OFF THE GROUND.

#### Daily:

- Clean collection system thoroughly and repaint all parts from which paint has worn.
- Check for any signs of loose bolts and tighten as needed. Check mounting bolts at frequent intervals for proper tightness in order to prevent costly repairs. Make sure your grass collector is in safe working condition.
- Check for any signs of damaged components. Repair or replace if needed.
- Verify the wear on the chute, the flexible tube, grass filter, the deflector, the belt and the rubber joint. Repair or replace if needed.
- Check actuators before each use. If only one of the two works, refer to **Troubleshooting** section.

#### 50 Hours:

- Check drive belts for proper tension and signs of cracking.
- Always clean the grease fitting before inserting any grease.
- **Lubricate** the tensioner's pivot with an all purpose SAE lithium based grease.
- Lubricate all the other pivoting points.



#### ACTUATOR SHEAR BOLT REPLACEMENT

Shear bolts are to be considered a preventive measure and not an assured protection. Operator vigilance is required. Thoroughly inspect the areas where the collection system is to be used and use care in operation nearby any obstacles.

To avoid damage to the collection system:

Use only the original shear bolts (grooved bolts). One spare set is provided with this manual. The use of any other shear bolt will not insure any protection and may void the warranty.

#### ACTUATOR REPLACEMENT

- 1. Disconnect actuator.
- 2. Remove broken shear bolt and its hardware (item 16)
- 3. If needed, remove hair pin (item 66) and loose tension by unscrewing adjusting rod (item 45).
- 4. Remove bottom bolt and nut (item 75).
- 5. Replace actuators with new shear bolt kit and same bottom bolt and nut.
- 6. Adjust correct clamping force.

#### ADJUST CORRECT CLAMPING FORCE.

- 1. Connect both actuators.
- 2. Fully extend actuators to collector in closed position.
- 3. Remove hair pin (item 66) (keep it aside)
- 4. Screw or Unscrew adjusting rod until "GAP" is a bit more than 0. Use spacer #4170695.7 as a guide.

(The lesser the gap, the higher the "OPENED" position for collector dumping may be.)

1. Make sure both side have the same gap.

### 

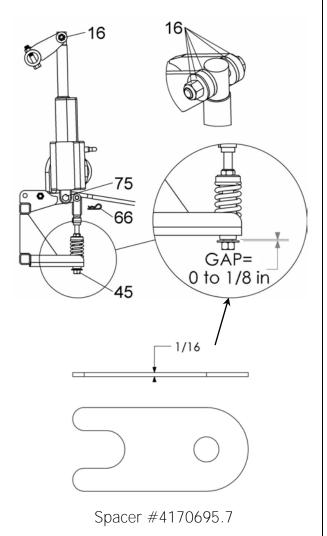
Keep "GAP" less than 1/8 in. If "GAP" is more than 1/8", it may reduce the lifetime of actuators or cause other damages to the collection system's components. Both sides must be the same.

#### **BELT REPLACEMENT**

 To remove and replace belt, follow reversed belt installation procedure in STEP 3 : "COLLECTION SYSTEM INSTALLATION."

#### END OF SEASON STORAGE

- 1. Clean collection system thoroughly and repaint all parts from which paint has worn.
- 2. List the replacement parts that will be needed for the next season.
- 3. Store the collection system in a dry place.
- 4. Follow the instructions in the service schedule section.



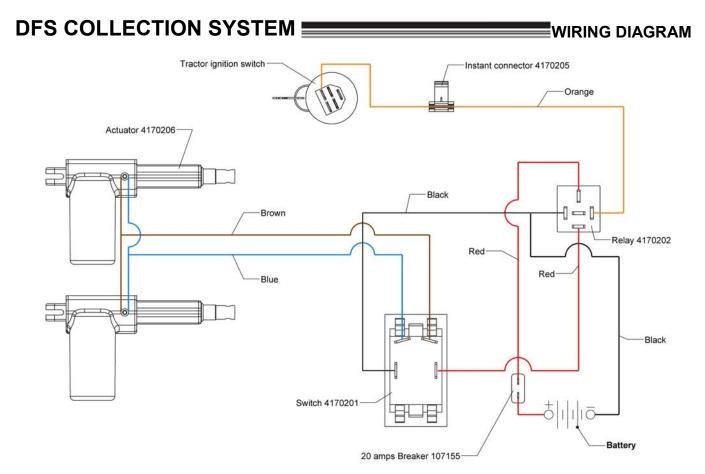
*	Please refer to	parts breakdown	section for	parts identification.
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TROUBLESHOOTING					
PROBLEM	POSSIBLE CAUSES	CORRECTIVE ACTION			
	Damaged pulley	Replace pulley			
Blower vibrates or is	Damaged bearing	Replace the bearing			
abnormally noisy .	Fan is damaged	Remove and straighten or replace the fan.			
	Belt is damaged	CORRECTIVE ACTIONReplace pulleyReplace the bearingRemove and straighten or replace the fan.Replace the belt.Adjust correct clamping force. (refer to service section)Adjust correct clamping force. (refer to service section)Dislodge the obstruction with the help of a stick.Make sure the spring is in good condition.Install an original beltReplace the belt or the spring. Grease all th pivoting points.Replace the pulleys.Reposition the belt guide.Adjust the mower deck to the highest positio for the first cut, then lower the mower for a second cut.Wait for the grass to dry out.			
Collection system is banging in operation even in closed position.	Clamping force is not enough.				
Container doesn't raise enough in opened position.	Clamping force is too much.				
The blower does not push the grass towards the collection system.	The chute, the fan or the discharge tube are blocked.	•			
Belt shows premature wear	Not enough tension on the belt.	Make sure the spring is in good condition.			
	Not the original belt installed.	Install an original belt			
Belt is snapping, shredding, burning or worn in a specific place.	There is not enough tension on the belt: -the belt is worn which is causing a slack. -the spring is worn out -the tensioner's pivot is not well lubricated.	Replace the belt or the spring. Grease all the pivoting points.			
	Imperfections in the pulleys	Remove and straighten or replace the fan.         Replace the belt.         h.       Adjust correct clamping force. (refer to service section)         Adjust correct clamping force. (refer to service section)         Dislodge the obstruction with the help of a stick.         elt.       Make sure the spring is in good condition.         Install an original belt         on       Replace the belt or the spring. Grease all the pivoting points.         t       Replace the pulleys.         e       Reposition the belt guide.         Adjust the mower deck to the highest position for the first cut, then lower the mower for a second cut.         Wait for the grass to dry out.			
	The belt rubs on a belt guide	Reposition the belt guide.			
The chute blocks easily.	Adjust the mower deck to the highest The grass is cut too long.				
	The grass is too humid.	Wait for the grass to dry out.			
Tube in contact with tire	Not good set of holes used.	Change set of holes to rotate tube, in order to clear tire.			

\* Please refer to parts breakdown section for parts identification.

TROUBLESHOOTING						
PROBLEM	POSSIBLE CAUSES	CORRECTIVE ACTION				
	Actuators overloaded (too much weight).	Remove weight (too much heavy grass accumulated).				
Actuators don't hold charge.	New actuators.	It may be necessary to 100-200 lifts before the actuators hold their charge due to internal lubrication.				
	Only one actuator runs.	See section on this problem.				
Actuators run backwards	Switch wires reversed.	Recheck wiring.				
Actuators full backwards	Battery wires reversed.	Recheck wiring.				
	Vehicle's ignition switch is at OFF position.	Turn vehicle's ignition switch at ON position.				
	Broken wires or bad connection.	Check for poor connections.				
Actuators (or one) will not operate	Control switch is inoperative.	Replace control switch.				
	Relay or breaker is damaged.	Replace the relay or breaker.				
	Actuators are damaged.	Replace or repair actuators.				
	Weak battery.	Recharge or replace battery. Check charging system.				
	Poor battery connection.	Check battery terminals for corrosion. Clean when required.				
	Actuators are damaged.	Replace or repair actuators.				
Actuators run but with insufficient	Too much weight.	Remove weight.				
power or line speed.	Very low temperature.	Enable actuators a few times to heat the components or allow the actuators to be heated by the tractor.				
	Tractor engine is not running.	Start tractor engine before using actuators to avoid battery loss.				
	Four springs are loaded enough.	Increase springs load with eye bolt's nuts for all fours springs.				
	One seal is damaged.	Replace broken seal.				
Grass is escaping	Collection system is not fully installed (discharge baffle is missing for example).	Recheck installation. (Refer to collection system and deck kit owner's manuals.).				
	Lid is not closed properly.	Close the lid and latch properly.				
Discharge tube escape from chute when mower deck is lowered.	Latch is broken or not installed at full tension.	Replace latch or install it at full tension.				

TROUBLESHOOTING					
PROBLEM	POSSIBLE CAUSES	CORRECTIVE ACTION			
Collector doosn't clip op vehicle	Collector slots are not well installed on both sides grooves from bottom pin.	Make sure both sides are well installed on bottom pin.			
Collector doesn't clip on vehicle easily	Latch is still secured in place by knobs and carriage bolts.	Remove two knobs and carriage bolts. (one on each side)			
	Too much friction on latch.	Lubricate latch pivot point.			
HOW TO KNOW	POINTS T	ТО СНЕСК			
Poor connections.	Recheck wiring with the owner's man	ual.			
Actuators are damaged.	The ultimate test is to connect the actuators directly to the battery and reverse the wires to test both directions. If the actuators don't work, they are damaged.				
The breaker is damaged.		esistance with multimeter on both terminals of the breaker. If no lace the breaker. (Sometimes, it could take a few minutes for to automatically reset itself).			



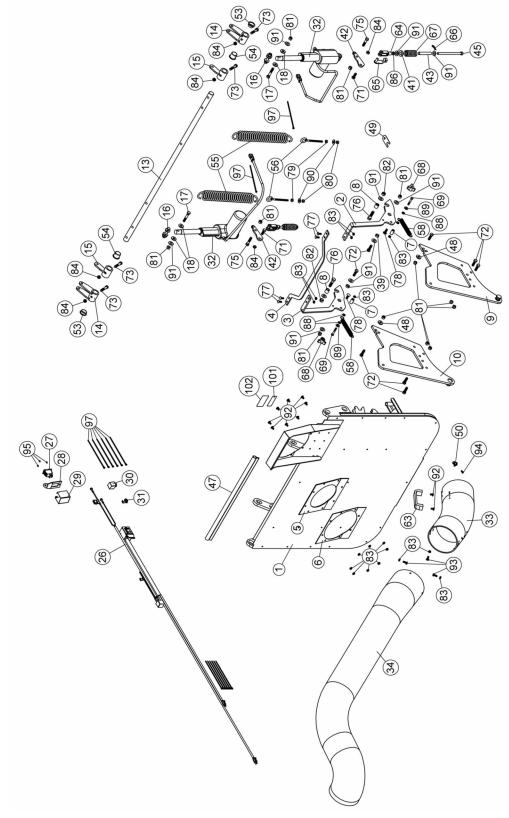
### DFS COLLECTION SYSTEM

### DOUBLE PULLEY TABLE

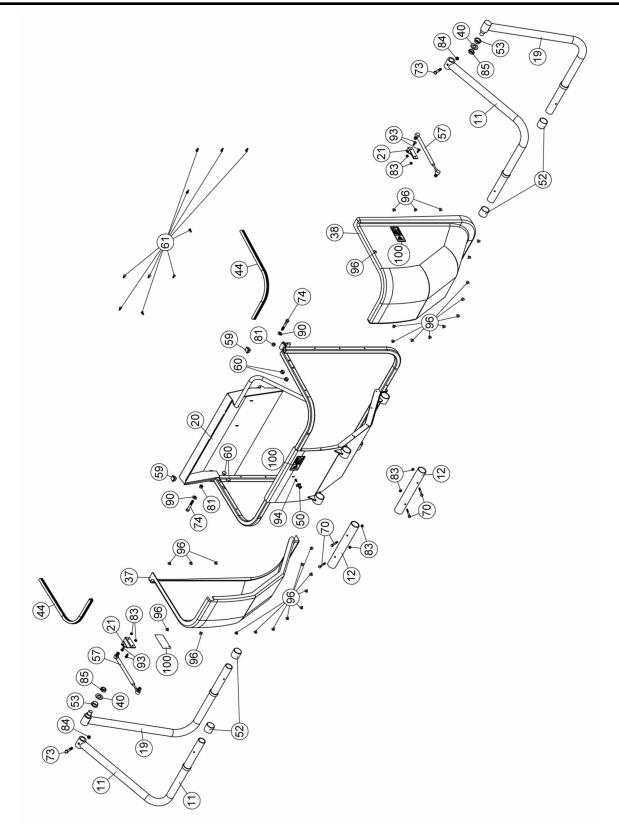
Double Pulley			Double Pulley			Double Pulley			
	4169423			4169424			4169425		
	Use on			Use on Use on					
942406H	52	FCA	942298 (next)	48	FCA	942302H	42	FCA	
942408H	52	FCA	942299H	52	FCA	942311H	42	FCA	
942407J	61	FCA	942315H	52	FCA	942298H	48	FCA	
942316J	61	FCA							
942409J	61	FCA							

# PARTS SECTION

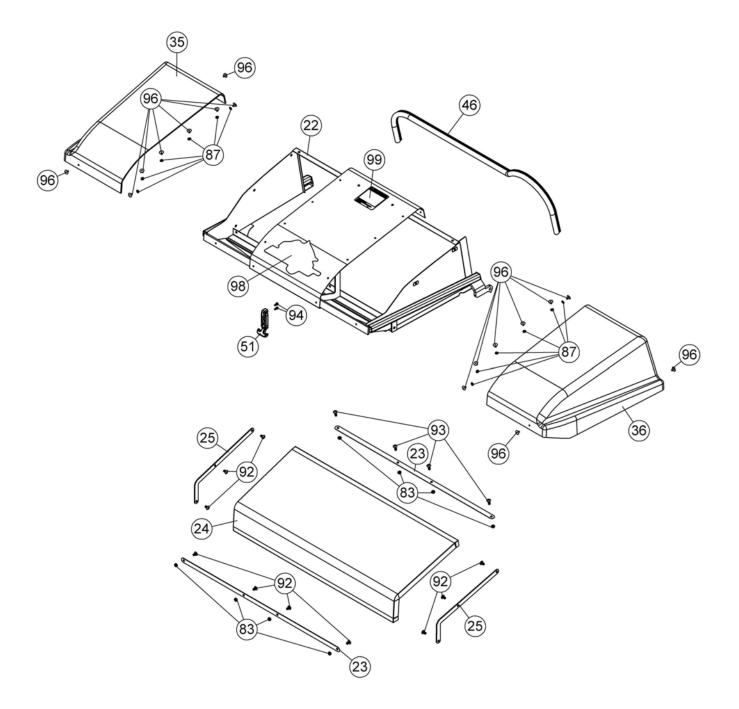
### PARTS BREAKDOWN COLLECTION SYSTEM







### PARTS BREAKDOWN COLLECTION SYSTEM



### PARTS LIST COLLECTION SYSTEM

Ref.	English description	Qty.	Part #
1	Frame	1	4170654.7
2	Right latch	1	4170674.7
3	Left latch	1	4170675.7
4	Link	1	4170655.7
5	Rubber seal	1	4170165
6	Bracket	1	4170169,7
7	Sleeve	2	4170177
8	Sleeve	2	4170676
9	Right support	1	4170656.7
10	Left support	1	4170657.7
11	Top arm	2	4170186,7
12	Link tube	2	4170658.7
13	Shaft	1	4170659
14	Lift lever	2	4170189,7
15	Spring lever	2	4170660.7
16	Shear bolt with hardware	2	4170191
17	Shear bolt	2	4170192
18	Washer	4	106982
19	Bottom arm	2	4170193,7
20	Container's frame	1	4170661.7
21	Bracket	2	4170195,7
22	Lid's frame	1	4170673.7
23	Bracket	2	4170662.7
24	Filter	1	4170663
25	Bracket	2	4170198,7
26	Wire assembly w / controls	1	4170200
27	Switch	1	4170201
28	Box cover	1	4170203,7
29	Box	1	4170204,7
30	Relay	1	4170202

O/L = Obtain Locally

#### PARTS LIST COLLECTION SYSTEM

Ref.	English description	Qty.	Part #
31	Instant connector	1	4170205
32	Electric actuator	2	4170205
33	Adjustment tube	1	4170208
34	Discharge tube	1	4170208
35	Left cover	1	4170209
36	Right cover	1	4170210
37	Left container	1	4170211
38	Right container	1	4170212
39	Sleeve	2	4170213
40	Flat washer	2	106444
40	Spring holder	2	4170220
42	Bracket	2	4170220
42	Sleeve	2	4170221,7
43	Seal	2	4170223
44	Adjusting rod	2	4170218
45	Seal	2	4170222
40	Seal	1	4170603
48	Washer	2	4170678
40		2 1	4170695.7
	Spacer	2	4170695.7
50 51	Keeper plate Rubber hitch	2	
			4170216
52	Bushing	4	4170224
53	Bushing	4	4170225
54	Bushing	2	4170666
55	Spring	2	4170226
56	Eye bolt	2	4170227
57	Gas cylinder	2	4170228
58	Spring	2	4170229
59	Square plug	2	4170230
60	Plug for hole 11/16"	4	4170231

O/L = Obtain Locally

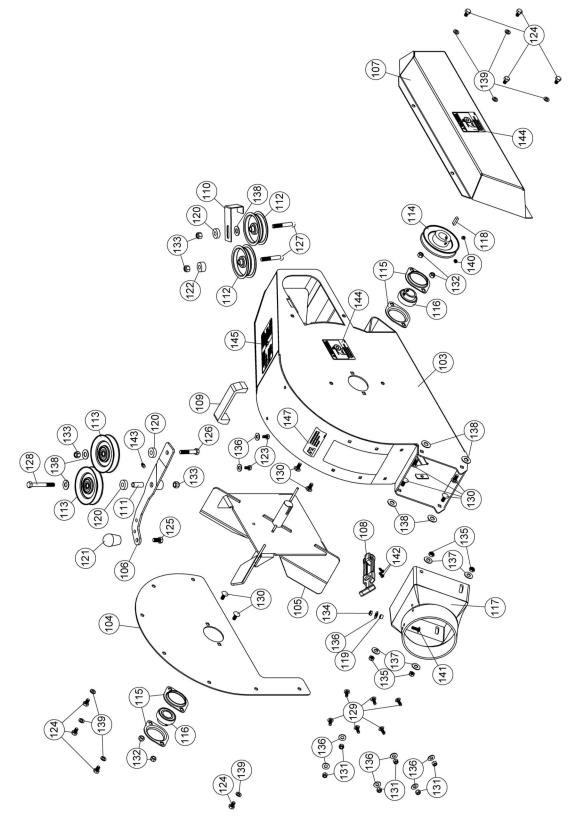
#### PARTS LIST COLLECTION SYSTEM

Ref.	English description	Qty.	Part #				
61	Black plastic rivet	10	4170232				
63	Handle	1	4170234				
64	Fork	2	4170237				
65	Pin	2	4170238				
66	Hair pin 2mm	2	64168-2				
67	Spring	2	4170235				
68	Knob	2	4170236				
69	Hex. bolt 1/4" n.c. x 1 3/4" GR5	2	64123-283				
70	Hex. bolt 1/4" n.c. x 2" GR5	4	64123-60				
71	Hex. bolt 3/8" n.c. x 1" GR5	2	64123-50				
72	Hex. bolt 3/8" n.c. x 1 1/4" GR5	8	64123-16				
73	Hex. bolt 3/8" n.c. x 2" GR5	6	64123-67				
74	Hex. bolt 3/8" n.c. x 2 1/2" GR5	2	64123-82				
75	Hex. bolt 3/8" n.c. x 1 3/4" GR5	2	64123-87				
76	Hex. bolt 7/16" n.c. x 1 3/4" GR5	2	64123-26				
77	Carriage bolt 1/4" n.c. x 3/4 " GR5	4	64018-02				
78	Carriage bolt 5/16" n.c. x 1 " GR5	2	64018-15				
79	Hex. nut 5/16" n.c. GR5	2	64025-02				
80	Nylon Insert lock Nut 5/16" n.c. GR5	2	64229-02				
81	Nylon Insert lock Nut 3/8" n.c.	14	64229-03				
82	Nylon Insert lock Nut 7/16" n.c.	2	64229-04				
83	Nylon insert lock nut 1/4" n.c. (thin)	33	64151-38				
84	Nylon insert lock nut 3/8" n.c. (thin)	8	64229-34				
85	Nylon insert lock nut 3/4" n.c. (thin) GR5	2	6451-36				
86	Nylon insert lock nut 3/8" n.f. (thin)	2	336NF.P-3/8				
87	Flat washer #10 hole	12	360.P_#10T				
88	Flat washer 1/4" hole	4	360.P_1-4T				
89	Flat washer 5/16" hole	2	360.P_5-16T				
90	Flat washer 3/8" hole	4	64163-61				

PARTS LIST
<b>COLLECTION SYSTEM</b>

Ref.	English description	Qty.	Part #						
91	Flat washer 7/16" hole	12	360.P_7-16T						
92	Machine screw T.H. 1/4" n.c. x 1/2"	20	394.P-1/4X1/2						
93	Machine screw T.H. 1/4" n.c. x 3/4"	11	394.P-1/4X3/4						
94	Tapping screw M5 x 12mm "T25 Torx drive"	4	408.P-T25-M5x12						
95	Pop-rivet 1/8" x 3/16" no.AD-43BS	3	415-1/8X3/16						
96	Pop-rivet 3/16" LF x 3/8" no AD-66ABSLF	44	415-3/16LFX3/8						
97	Tie wrap 8"	8	426-8						
98	Decal BobCat	1	4158401						
99	Caution decal projection	1	4170258						
100	Decal pinch point	3	4137371						
101	Patent decal	1	4169490						
102	Serial number	1	REF						

#### PARTS BREAKDOWN COLLECTION SYSTEM



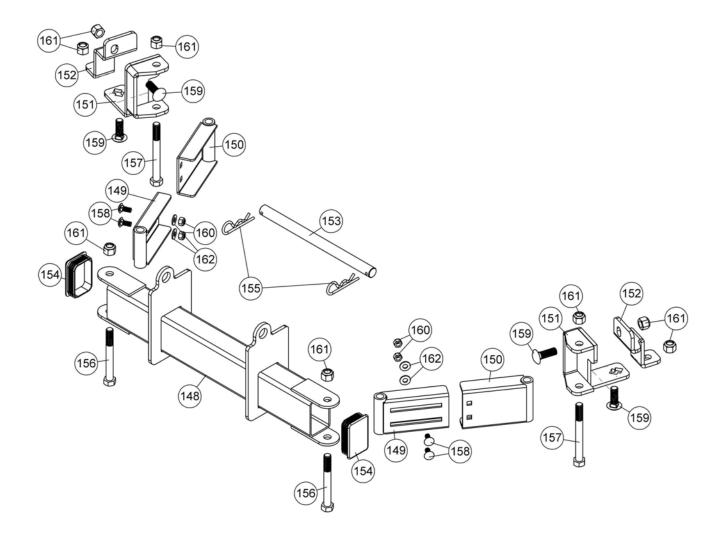
### PARTS LIST COLLECTION SYSTEM

COLLECTION SYSTEM							
Ref.	English description	Qty.	Part #				
103	Blower frame w/ safety decals	1	4170239,7				
104	Mounting plate	1	4170240,7				
105	Fan	1	4170241,7				
106	Tensioner	1	4170242,7				
107	Belt guard with safety decal	1	4170243,7				
108	Rubber hitch	1	4170233				
109	Handle	1	4170234				
110	Belt guide	1	4170244,7				
111	Spacer	1	4170245				
112	Flat pulley	2	4170246				
113	V-Pulley	2	4170247				
114	V-Pulley with set screws	1	4170248				
115	Flangette	4	4170249				
116	Bearing with set screw	2	4170250				
117	Chute	1	4170251				
118	Key 1/4" x 1/4" x 1.000"	1	64164-12				
119	Sleeve	1	4170252				
120	Spacer	3	4170253				
121	Knob	1	4170254				
122	Spacer	1	4170255				
123	Hex. bolt 1/4" n.c. x 1/2" GR5	2	64123-49				
124	Hex. bolt 5/16" n.c. x 1/2" GR5	8	64123-92				
125	Hex. bolt 3/8" n.c. x 3/4" GR5	1	64123-15				
126	Hex. bolt 3/8" n.c. x 2" GR5	1	64123-67				
127	Hex. bolt 3/8" n.c. x 2 1/4" GR5	2	64123-100				
128	Hex. bolt 3/8" n.c. x 3" GR5	1	64123-75				
129	Carriage bolt 1/4" n.c. x 3/4 " GR5	6	64018-02				
130	Carriage bolt 5/16" n.c. x 3/4 " GR5	8	64018-01				
131	Nylon Insert lock Nut 1/4" n.c.	6	64229-01				
132	Nylon Insert lock Nut 5/16" n.c. GR5	4	64229-02				

PARTS LIST
<b>COLLECTION SYSTEM</b>

COLLECTION SYSTEM								
Ref.	English description	Qty.	Part #					
133	Nylon Insert lock Nut 3/8" n.c.	4	64229-03					
134	Nylon insert lock nut 1/4" n.c. (thin)	1	64151-38					
135	Nylon insert lock nut 5/16" n.c. (thin)	4	336NC.P-5/16					
136	Flat washer 5/16" hole	9	360.P_5-16T					
137	Flat washer 3/8" hole	4	64163-61					
138	Flat washer 7/16" hole	7	360.P_7-16T					
139	Lock washer 5/16"	8	64006-02					
140	Socket head set screw 5/16" n.c. x 5/16"	2	391NC.N-5/16X5/16					
141	Machine screw T.H. 1/4" n.c. x 3/4"	1	394.P-1/4X3/4					
142	Tapping screw M5 x 12mm "T25 Torx drive"	2	408.P-T25-M5x12					
143	Grease fitting 1/4" n.f.	1	85010N					
144	Warning decal belt	2	2000577					
145	Decal danger mower	1	4164269					
146	Danger decal chute	1	4165975					
147	Decal read instructions	1	2000735					

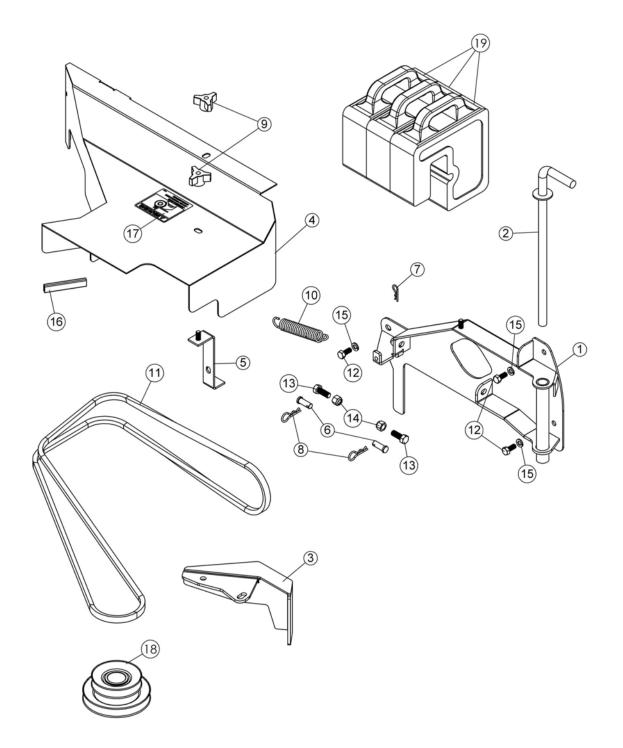
### PARTS BREAKDOWN COLLECTION SYSTEM



#### PARTS LIST COLLECTION SYSTEM

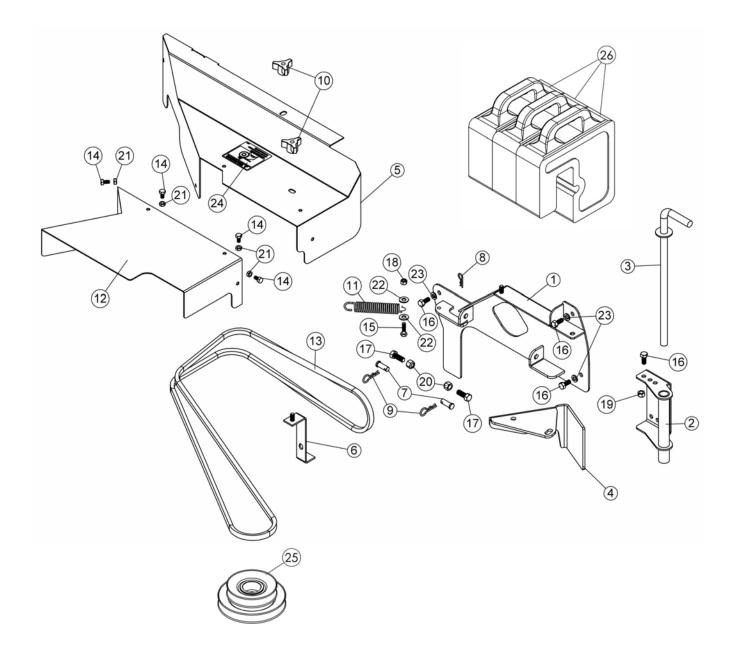
Ref.	English description	Qty.	Part #					
148	Counterweight bracket	1	4170688.7					
149	Male adjustment arm	2	4170689.7					
150	Female adjustment arm	2	4170690.7					
151	Bracket	2	4170691.7					
152	Bracket	2	4170692.7					
153	Pin	1	4170693					
154	Plug for tube	2	4170694					
155	Hair pin 4mm	2	102054					
156	Hex. bolt 1/2" n.c. x 4 1/4" GR5	2	64123-96					
157	Hex. bolt 1/2" n.c. x 4 3/4" GR5	2	64123-304					
158	Carriage bolt 5/16" n.c. x 3/4 " GR5	4	64018-01					
159	Carriage bolt 1/2" n.c. x 1 1/2" GR5	4	64018-8A					
160	Nylon Insert lock Nut 5/16" n.c. GR5	4	64229-02					
161	Nylon Insert lock Nut 1/2" n.c.	8	64229-05					
162	Flat washer 5/16" hole	4	360.P_5-16T					





	PARTS LIST KIT-DECK, 48IN 8BU COLL SYSTEM 970514								
Ref.	English description	Qty.	Part #						
1	Blower hitch	1	4170679.7						
2	Mounting pin	1	4170292,7						
3	Baffle	1	4170680.7						
4	Belt guard with safety decal	1	4170681.7						
5	Bracket	1	4170295,7						
6	Pin	2	64188-33						
7	Hair pin 2mm	1	64168-2						
8	Hair pin 2.5mm	2	64168-7						
9	Knob	2	4170236						
10	Spring	1	4170296						
11	V-Belt , A-89	1	4170664						
12	Hex. bolt 5/16" n.c. x 3/4" GR5	3	64123-54						
13	Hex. bolt 3/8" n.c. x 1" GR5	2	64123-50						
14	Nylon Insert lock Nut 3/8" n.c.	2	64229-03						
15	Lock washer 5/16"	3	64006-02						
16	Flex trim	1	56-053-14						
17	Warning decal belt	1	2000577						
18	Double Pulley	1	4169424						
19	50lbs tractor ballast weight	3	62-540.7						





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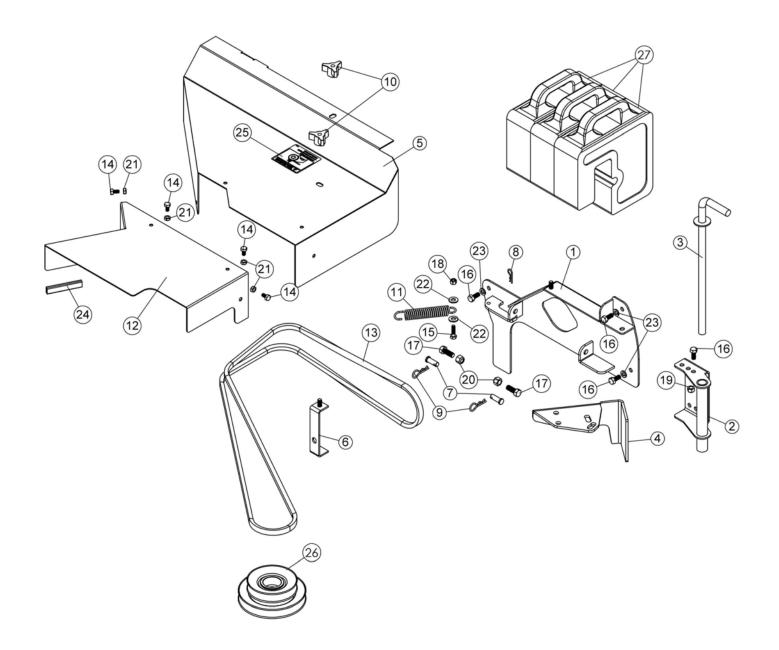
50lbs tractor ballast weight

- · ·	-									
	•	4170290,7								
	-	4170291,7								
	-	4170292,7								
	-	4170293,7								
	1	4170294,7								
Bracket	1	4170295,7								
Pin	2	64188-33								
Hair pin 2mm	1	64168-2								
Hair pin 2.5mm	2	64168-7								
Knob	2	4170236								
Spring	1	4170296								
Extension	1	4170682.7								
V-Belt , A-93	1	4170297								
Hex. bolt 1/4" n.c. x 1/2" GR5	4	64123-49								
Hex. bolt 1/4" n.c. x 1" GR5	1	64123-114								
Hex. bolt 5/16" n.c. x 3/4" GR5	4	64123-54								
Hex. bolt 3/8" n.c. x 1" GR5	2	64123-50								
Nylon Insert lock Nut 1/4" n.c.	1	64229-01								
Nylon Insert lock Nut 5/16" n.c. GR5	1	64229-02								
Nylon Insert lock Nut 3/8" n.c.	2	64229-03								
Nylon insert lock nut 1/4" n.c. (thin)	4	64151-38								
Flat washer 5/16" hole	2	360.P_5-16T								
Lock washer 5/16"	3	64006-02								
Warning decal belt	1	2000577								
Double Pulley	1	4169423								
	English descriptionBlower hitchLink tubeMounting pinBaffleBelt guard with safety decalBracketPinHair pin 2mmHair pin 2.5mmKnobSpringExtensionV-Belt , A-93Hex. bolt 1/4" n.c. x 1/2" GR5Hex. bolt 1/4" n.c. x 3/4" GR5Hex. bolt 5/16" n.c. x 3/4" GR5Hex. bolt 3/8" n.c. x 1" GR5Nylon Insert lock Nut 1/4" n.c.Nylon Insert lock Nut 5/16" n.c. GR5Nylon Insert lock Nut 1/4" n.c.Nylon Insert lock Nut 5/16" n.c.Nylon Insert lock Nut 1/4" n.c.Nylon Insert lock Nut 1/4" n.c. (thin)Flat washer 5/16" holeLock washer 5/16"Warning decal belt	KIT-DECK, 52IN 8U COLL SYSTEM 970555English descriptionQty.Blower hitch1Link tube1Mounting pin1Baffle1Belt guard with safety decal1Bracket1Pin2Hair pin 2mm1Hair pin 2.5mm2Knob2Spring1Extension1V-Belt, A-931Hex. bolt 1/4" n.c. x 1/2" GR54Hex. bolt 1/4" n.c. x 3/4" GR51Hex. bolt 3/8" n.c. x 1" GR52Nylon Insert lock Nut 3/8" n.c.2Nylon Insert lock Nut 3/8" n.c.2Nylon insert lock Nut 3/8" n.c.2Lock washer 5/16" hole2Lock washer 5/16"3Warning decal belt1								

62-540.7

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# PARTS BREAKDOWN KIT-DECK, 61IN 8BU COLL SYSTEM 970516



	PARTS LIST KIT-DECK, 61IN 8BU COLL SYSTEM 970516							
Ref.	English description	Qty.	Part #					
1	Blower hitch	1	4170290,7					
2	Link tube	1	4170291,7					
3	Mounting pin	1	4170292,7					
4	Baffle	1	4170298,7					
5	Belt guard with safety decal	1	4170299,7					
6	Bracket	1	4170300,7					
7	Pin	2	64188-33					
8	Hair pin 2mm	1	64168-2					
9	Hair pin 2.5mm	2	64168-7					
10	Knob	2	4170236					
11	Spring	1	4170296					
12	Extension	1	4170682.7					
13	V-Belt , A-92	1	4170301					
14	Hex. bolt 1/4" n.c. x 1/2" GR5	4	64123-49					
15	Hex. bolt 1/4" n.c. x 1" GR5	1	64123-114					
16	Hex. bolt 5/16" n.c. x 3/4" GR5	4	64123-54					
17	Hex. bolt 3/8" n.c. x 1" GR5	2	64123-50					
18	Nylon Insert lock Nut 1/4" n.c.	1	64229-01					
19	Nylon Insert lock Nut 5/16" n.c. GR5	1	64229-02					
20	Nylon Insert lock Nut 3/8" n.c.	2	64229-03					
21	Nylon insert lock nut 1/4" n.c. (thin)	4	64151-38					
22	Flat washer 5/16" hole	2	360.P_5-16T					
23	Lock washer 5/16"	3	64006-02					
24	Flex trim	1	56-053-14					
25	Warning decal belt	1	2000577					
26	Double Pulley	1	4169423					
27	50lbs tractor ballast weight	3	62-540.7					

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### TORQUE SPECIFICATION TABLE

#### GENERAL TORQUE SPECIFICATION TABLE USE THE FOLLOWING TORQUES WHEN SPECIAL TORQUES ARE NOT GIVEN

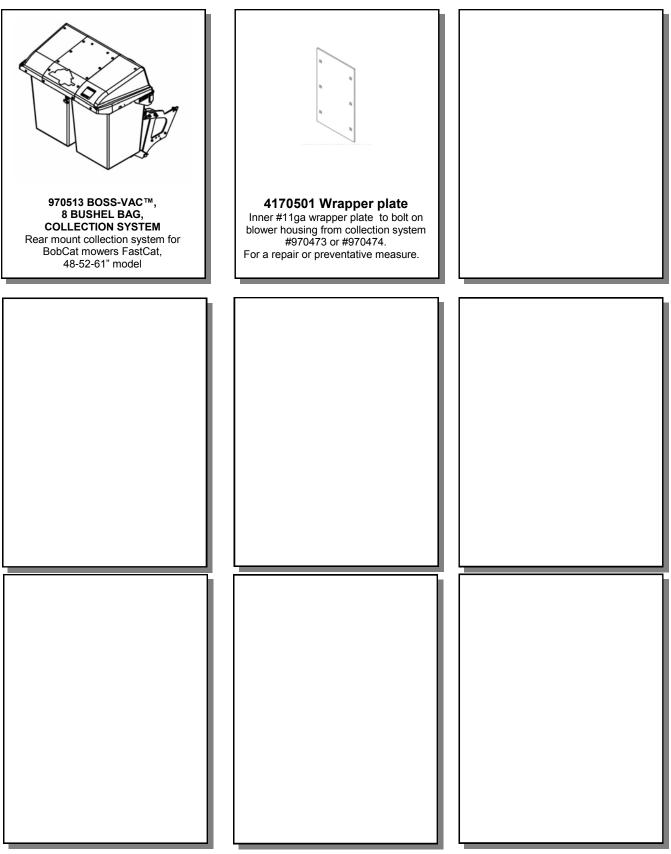
NOTE: These values apply to fasteners as received from supplier, dry or when lubricated with normal oil. They do not apply if special graphited or moly disulphide greases or other extreme pressure lubricants are used. This applies to both UNF and UNC threads.

SEE Grade	No.		2	2			ļ	5			8	*	
			TOR	QUE		TORQUE			TORQUE				
BOLT SIZE		POUNE	DS FEET	NEWTON-I	METERS	POUNDS FEET		NEWTON-METERS		POUNDS FEET		NEWTON-N	IETERS
Inches	Millimetre	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min. Max.	Max.	Min. Max.	Max.
1/4"	6.35	5	6	6.8	8.13	9	11	12.2	14.9	12	15	16.3	30.3
5/16"	7.94	10	12	13.6	16.3	17	20.5	23.1	27.8	24	29	32.5	39.3
3/8"	9.53	20	23	27.1	31.2	35	42	47.5	57	45	54	61	73.2
7/16"	11.11	30	35	40.7	47.4	54	64	73.2	86.8	70	84	94.9	113.9
1/2"	12.7	45	52	61	70.5	80	96	108.5	130.2	110	132	149.2	179
9/16"	14.29	65	75	88.1	101.6	110	132	149.2	179	160	192	217	260.4
5/8"	15.88	95	105	128.7	142.3	150	180	203.4	244.1	220	264	298.3	358
3/4"	19.05	150	185	203.3	250.7	270	324	366.1	439.3	380	456	515.3	618.3
7/8"	22.23	160	200	216.8	271	400	480	542.4	650.9	600	720	813.6	976.3
1"	25.4	250	300	338.8	406.5	580	696	786.5	943.8	900	1080	1220.4	1464.5

\*Thick nuts must be used with grade 8 bolts

METRIC BOLT TORQUE SPECIFICATIONS								
	COARSE THREAD			FINE THREAD				
Size Screw	Grade No.	Pitch (mm)	Pounds Feet	Newton-Meters	Pitch (mm)	Pounds Feet	Newton-Meters	
M6	4T	1.00	3.6 - 5.8	4.9 - 7.9	-	-	-	
	7T		5.8 - 9.4	7.9 - 12.7		-	-	
	8T		7.2 - 10	9.8 - 13.6		-	-	
M8	4T	1.25	7.2 - 14	9.8 - 19	1.00	12 - 17	16.3 - 23	
	7T		17 - 22	23 - 29.8		19 - 27	25.7 - 36.6	
	8T		20 - 26	27.1 - 35.2		22 - 31	29.8 - 42	
M10	4T	1.50	20 - 25	27.1 - 33.9	1.25	20 - 29	27.1 - 39.3	
	7T		34 - 40	46.1 - 54.2		35 - 47	47.4 - 63.7	
	8T		38 - 46	51.5 - 62.3		40 - 52	54.2 - 70.5	
M12	4T	1.75	28 - 34	37.9 - 46.1	1.25	31 - 41	42 - 55.6	
	7T		51 - 59	69.1 - 79.9		56 - 68	75.9 - 92.1	
	8T		57 - 66	77.2 - 89.4		62 - 75	84 - 101.6	
M14	4T	2.00	49 - 56	66.4 - 75.9	1.50	52 - 64	70.5 - 86.7	
	7T		81 - 93	109.8 - 126		90 - 106	122 - 143.6	
	8T		96 - 109	130.1 - 147.7		107 - 124	145 - 168	
M16	4T	2.00	67 - 77	90.8 - 104.3	1.50	69 - 83	93.5 - 112.5	
	7T		116 - 130	157.2 - 176.2		120 - 138	162.6 - 187	
	8T		129 - 145	174.8 - 196.5		140 - 158	189.7 - 214.1	
M18	4T	2.00	88 - 100	119.2 - 136	1.50	100 - 117	136 - 158.5	
	7T		150 - 168	203.3 - 227.6		177 - 199	239.8 - 269.6	
	8T		175 - 194	237.1 - 262.9		202 - 231	273.7 - 313	
M20	4T	2.50	108 - 130	146.3 - 176.2	1.50	132 - 150	178.9 - 203.3	
	7T		186 - 205	252 - 277.8		206 - 242	279.1 - 327.9	
	8T		213 - 249	288.6 - 337.4		246 - 289	333.3 - 391.6	

## **OPTIONS & ACCESSORIES**



\*These accessories may need other parts\*

# NOTES

# NOTES

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# NOTES

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SCHILLER GROUNDS CARE, INC. ONE BOB-CAT LANE P.O. BOX 469 JOHNSON CREEK, WI 53038 920-699-2000 www.schillergc.com



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