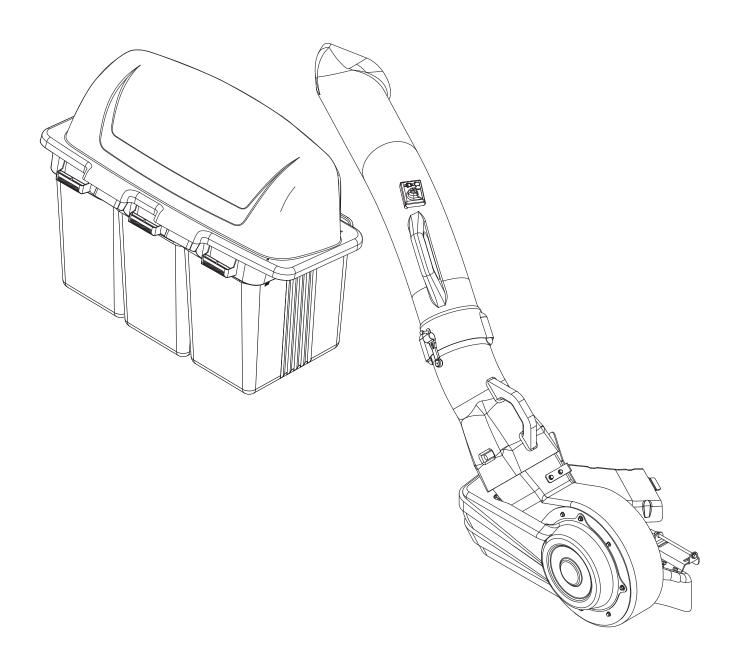
# **Operator and Parts Manual**



48" Collection System 966792801

**CONGRATULATIONS** on the purchase of a new collection system. It has been designed, engineered and manufactured to give you the best possible dependability and performance.

Should you experience any problem you cannot easily remedy, please contact your nearest authorized service center/ department. They have competent, well-trained technicians and the proper tools for service and repairs.

Please read and retain this manual. The instructions will enable you to assemble and maintain your collection system properly. Always observe the SAFETY RULES.

#### KNOW YOUR BLOWER SYSTEM

READ THIS OPERATION MANUAL AND SAFETY RULES BEFORE ASSEMBLING OR OPERATING THE BLOWER SYSTEM. Compare the illustrations with the carton contents and become familiar with the parts before starting the assembly. Study the operating instructions and safety precautions thoroughly to insure proper functioning of the Grass Catcher and to prevent injuries. Save this manual for future reference.



The operation of any mower can result in foreign objects thrown into the eyes, which can result in severe eye damage. ALWAYS wear safety glasses or eye shields before starting your mower and while mowing. Standard safety glasses are recommended or a wide vision safety mask for over spectacles.

## **CONTENTS**

SAFETY RULES	4
SERVICE	5
ASSEMBLY	6
TIPS FOR IMPROVED BAGGING	10
OPERATION	11
GENERAL RECOMMENDATIONS	11
STORAGE	11
REPAIR PARTS	12
BLOWER	12
CHUTES	14
BAGGER	16
SHIFLD MOUNTS WEIGHTS BELT	18

#### **UNPACKING INSTRUCTIONS**

• Remove all parts and packing materials from carton.

#### **TOOLS REQUIRED**

- 7/16" Wrench or ratchet and socket
- 1/2" Wrench or ratchet and socket
- 7/8" Socket
- Torque Wrench
- Phillips Head Screwdriver
- Hacksaw
- Pliers

NOTE: When the terms RH (right hand) or LH (left hand) are used, it refers to when the operator is seated on the mower.

### **CONTAINER CONTENTS**

- Blower Assembly
- Drive Pulley
- Belt Shield
- Mounting Brackets
- Bagger Assembly
- Weights
- Belt
- Bag of Hardward



## CAUTION

# BEFORE ASSEMBLING GRASS CATCHER TO MOWER:

- Set parking brake.
- Place motion control levers in NEUTRAL position.
- Turn ignition key OFF and remove key.
- Make sure the blades and all moving parts have completely stopped.
- Disconnect spark plug and place wire where it cannot come in contact with plug.

## SAFETY RULES



## SAFE OPERATION PRACTICES FOR RIDE-ON MOWERS



## **DANGER!**

THIS CUTTING MACHINE IS CAPABLE OF AMPUTATING HANDS AND FEET AND THROWING OBJECTS. FAILURE TO OBSERVE THE FOLLOWING SAFETY INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR DEATH.

#### **GENERAL OPERATION**

- Read, understand and follow all instructions in the manual and on the machine before starting.
- Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, stones, toys, wire etc., which could be picked up and thrown by the blades.
- Be sure the area is clear of all people and pets before mowing. Stop the machine if anyone enters the area.
- Never carry passengers or children even with blades off.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Be aware of the mower discharge direction and do not direct it towards anyone. Do not operate the mower without either the entire grass catcher or the guard in place.
- Slow down before turning.
- Never leave the machine unattended when the engine is running. Always turn off the blades, set the parking brake, stop the engine and remove the key before leaving the machine.
- Turn off blades when not mowing.
- Stop engine before removing grass catcher or unclogging chute.
- · Mow only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch out for traffic when operating near or crossing roadways.
- Use extra care when loading and unloading the machine onto a trailer or truck.
- Data indicates that operators, age 60 years and above, are involved in a large percentage of riding mower-related injuries. These operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injury.
- DO NOT operate mower with grass catcher, unless the front weights are installed.

Keep machine free of grass, leaves or other debris buildup which can touch hot exhaust/ engine parts and burn. Do not allow the mower deck to plow leaves or other debris which can cause buildup to occur. Clean any oil or fuel spillage before operating or storing the machine. Allow machine to cool before storage.

#### **SLOPE OPERATION**

Slopes are a major factor related to loss-of-control and tip-over accidents, which can result in severe injury or death. All slopes require extra caution. If you cannot back up the slope or if you feel uneasy on it, do not mow it.

#### DO

- Mow up and down slopes (10° Max.), not across.
- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Use slow speed. Choose a low speed so that you will not have to stop while on the slope.
- Use extra care with grass catchers or other attachments. These can change the stability of the machine.
- Keep all movement on the slopes slow and gradual. Do not make sudden changes in speed or direction.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly straight down the slope.

#### DO NOT

- Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.
- Do not mow near drop-off, ditches, or embankments. The mower could suddenly turn over if a wheel is over the edge of a cliff or ditch, or if an edge caves in.
- Do not mow on wet grass. Reduced traction could cause sliding.
- Do not try to stabilize the machine by putting your foot on the ground.

## SAFETY RULES



## SAFE OPERATION PRACTICES FOR RIDE-ON MOWERS



#### **CHILDREN**

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. Never assume that children will remain where you last saw them.

- NEVER allow children to operate the machine.
- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn off the machine if children enter the area.
- Before and when backing, look behind and down for small children.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

#### **SERVICE**

- The operation of any mower can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your mower or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles or standard safety glasses.
- Use extra care in handling gasoline and other fuels. They are flammable and vapors are explosive.
  - Use only an approved container.
  - Never remove gas cap or add fuel with the engine running.
  - Allow engine to cool before refueling.
  - Do not smoke.
  - Never refuel the machine indoors.
  - Never store the machine or fuel container inside where there is an open flame, such as a water heater.
- Never run a machine inside a closed area.
- Keep nuts and bolts, especially blade attachment bolts, tight and keep equipment in good condition.
- Never tamper with safety devices. Check there proper operation regularly.

- Keep machine free of grass, leaves, or other debris buildup. Clean oil or fuel spillage. Allow machine to cool before storing.
- Stop and inspect the equipment if you strike an object. Repair, if necessary, before restarting.
- Never make adjustments or repairs with the engine running.
- Grass catcher components are subject to wear, damage, and deterioration, which could expose moving parts or allow objects to be thrown.
   Frequently check components and replace with manufacturer's recommended parts, when necessary.
- Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves, and use extra caution when servicing them.
- Check brake operation frequently. Adjust and service as shown in the Operator's Manual.



#### **WARNING!**

Battery posts, terminals and related accessories contain lead and lead compounds, chemicals know to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.



### CAUTION

In order to prevent accidental starting when setting up, transporting, adjusting or making repairs, always disconnect spark plug wire and place wire where it cannot contact spark plug.

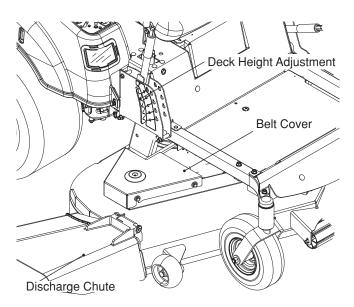


#### **WARNING!**

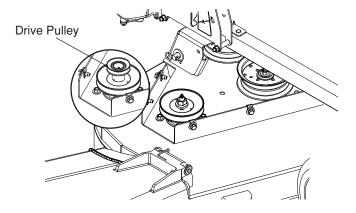
DO NOT tow any trailers, etc. with this mower. They may jackknife or over turn causing damage to the mower and possibly serious injury to the operator.

## **■ INSTALLING DRIVE PULLEY**

- Remove the discharge chute from the deck.
   (Deck configuration will vary by size and model)
- 2. Lower deck to the lowest cutting position.
- 3. Remove the right hand (discharge side) belt cover from the deck.
- Relieve the tension from the deck belt and remove from the center deck pulley. (See Operator's Manual if necessary)

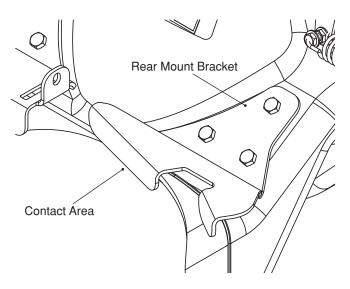


- 5. Remove the nut securing the right hand deck pulley to the spindle.
- 6. Install drive pulley included in collection system kit on top of the current deck pulley.
- 7. Reinstall the nut on the spindle and torque to 55-75 ft/lbs.
- 8. Reinstall the deck belt.

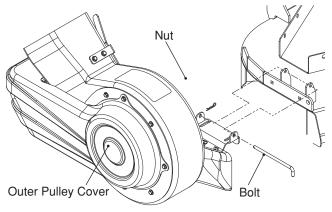


# MOUNTING BLOWER ASSEMBLY

- 1. Position blower over the discharge tabs on the deck and set blower onto the deck.
- 2. Be sure the blower is sitting flush against the outside of the deck.

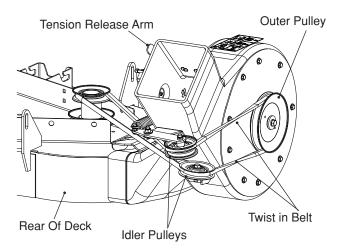


3. Install the front mount bracket to the deck with the bolt, washers and nut supplied with the kit.



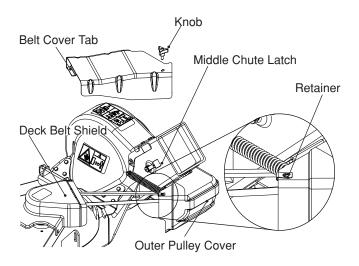
# 3 INSTALLING DRIVE BELT

- Make sure the tension release lever is forward or disengaged.
- 2. Place the belt over the pulley on the deck. Refer to illustration for proper routing.
- 3. Move the tension release arm to the rear and engage in the latch.



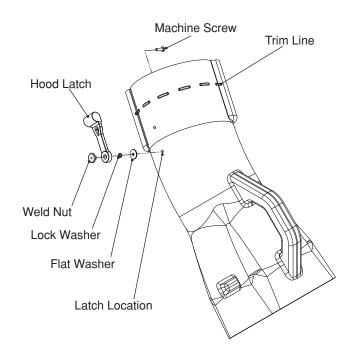
# INSTALLING BELT COVERS

- Place the deck belt shield on the deck over the drive pulley and secure with hardware removed from steel belt shield.
- 2. Place retainer on the outer pulley cover.
- 3. Align the tab end of the belt cover into the slot on the deck belt shield and the other end over the end of the outer pulley cover.
- 4. Secure with knob.



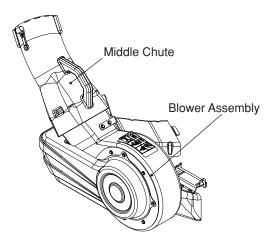
# 5 TRIMMING MIDDLE CHUTE

- 1. Using the hacksaw, trim along the dashed line.
- Locate the middle chute, flat washer, hood latch, weld nut, lock washer and machine screw from kit.
- 3. Install in the appropriate hole at the upper end of the middle chute, according to deck size.



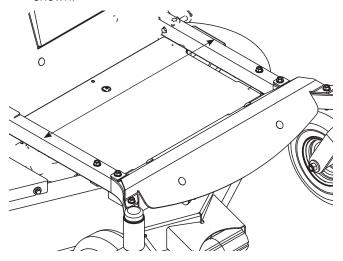
# 6 INSTALLING MIDDLE CHUTE

- 1. Place middle chute over the top end of the blower assembly.
- 2. Latch middle chute to blower assembly.



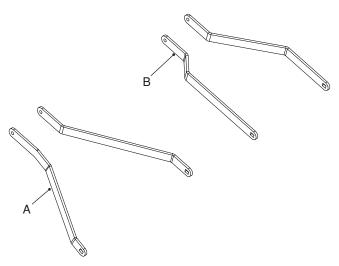
## **TINSTALLING BAGGER MOUNT**

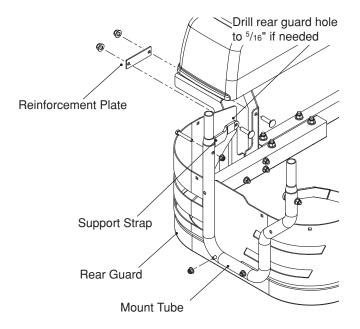
 To select the right support straps to use, measure the mower frame just behind the casters, as shown.



- Install the bagger mount tube to the rear guard with <sup>5</sup>/<sub>16</sub>-18 x 3<sup>1</sup>/<sub>4</sub> bolts and flange nuts from kit.
   NOTE: Depending on model, rear guard hole may need to be drilled out to <sup>5</sup>/<sub>16</sub>" if kit hardware is too large.
- 3. Install kit support straps on the outside of the mount tube as shown in the illustration. Using a <sup>5</sup>/<sub>16</sub>-18 x 1½ bolt, attach the front side of the strap to the fender support. Do not add flange nut at this time. Place the reinforcement plate to the outside of the fender support. Secure with additional 1½ bolt and fasten both bolts with flange nuts. Repeat steps on opposite side. NOTE: The front side of the kit support straps should be on the inside of the mower frame.
- 4. Tighten all hardware.

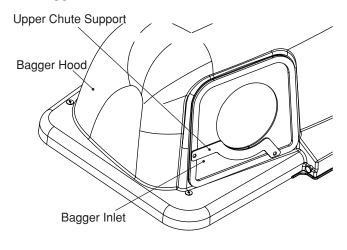
For frames measuring 26" use support straps A, for frames measuring 23" use support straps B.



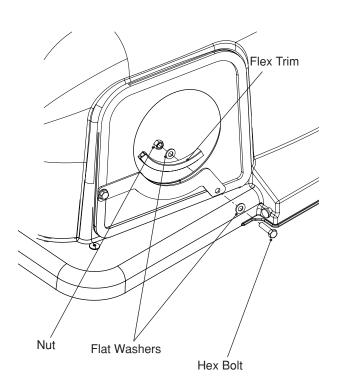


# NSTALLING CHUTE SUPPORT

- 1. Position upper chute support against bagger inlet, flush at outer edges. See Illustration.
- 2. Using support as a template, drill two <sup>3</sup>/<sub>8</sub> holes into bagger hood.

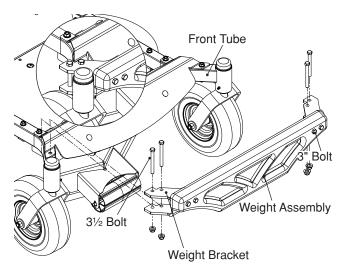


3. Secure upper chute support to hood with hex bolts, washers and nyloc nuts.



## **Q**INSTALLING WEIGHT KITS

- Bolt cast weight to weight brackets using <sup>3</sup>/<sub>8</sub>-16 x
   bolts and four nuts.
- 2. Slide both weight brackets over the front tube on the frame. Be sure to position the weight assembly in the center of the frame.
- 3. Secure with 3/8-16 x 31/2 bolts and four nuts.





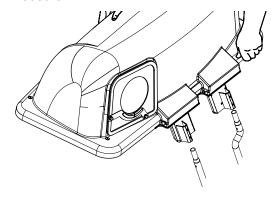
## **CAUTION**

DO NOT operate mower with grass catcher without front weights installed.

# 10 MOUNTING COVER ASSEMBLY

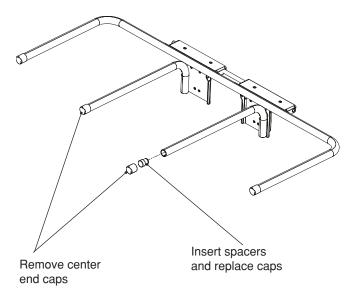
**NOTE:** Assistance from another person may ease mounting the cover assembly to mower.

- 1. Lift and rotate cover to align the cover brackets with support assembly tubes.
- 2. Slide the cover down over the support tubes until secure.



# 11 INSTALLING SPACER PLUGS

Remove plastic end caps from the center two bag support arms. Fully insert spacer plugs into the ends of the support tubes. It may be necessary to tap the spacers into place with a hammer or mallet. Replace the plastic end cap back over the spacer. The additional extension will hold the hood more securely when latched.



#### TIPS FOR IMPROVED BAGGING

Follow the mower operation instructions in you mower operator's manual.

When operating your grass catcher on a lawn where grass and leaf bagging equipment has not been used, you are picking up thatch and debris that has accumulated for long periods of time. The amount collected and the total time of operation may be greater than you will experience with regular use of your grass catcher.

- Always run throttle at full speed when bagging.
- Select a speed low enough to give good mower cutting performance, good quality cut and good bagging performance.

# NOTE: It may be necessary to overlap width of cut to suit your conditions.

- If grass is extremely tall, it should be mowed twice. The first time relatively high, the second time to desired height.
- Use left hand side of mower for trimming.
- Plastic trash bags (3.0 mil, 30 gallon) can be inserted inside grass catcher containers for ease of debris disposal. To remove the plastic trash bags when full:
  - a. Disengage blades, shift into neutral, engage the parking brake and stop the engine.
  - b. Unlatch and raise cover.
  - c. Remove one container at a time by grasping container handles and pulling toward the rear, off of the tube rails.
  - d. With the container resting on the ground, close and secure the top of the plastic lawn bag.
  - e. Tip the container on its side and slide the filled bag from the container.
  - Install a new plastic lawn bag with the edges of the bag draped over upper lip of the Container.
  - g. Repeat for other container.
  - h. Reinstall containers making sure right container overlaps left container at center supports.
  - i. Close cover and secure latches over center support tubes.

## **OPERATION**

- Avoid cutting wet grass or in the morning while the dew is still heavy. Grass clippings collected under these conditions tend to be sticky and adhere to the walls of the flow path causing clogging.
- If the grass catcher fails to pick up cut grass or leaves, it is an indication that clogging has occurred in the system or that the grass catcher containers are full.
  - a. Disengage blades, place motion control levers in neutral position.
  - Unlatch and raise cover.
  - Slide out containers and dispose of clippings.
  - Replace containers, close cover, and latch.
  - b. Unlatch chutes and check for clogging.
  - Remove all debris in chute.
  - Reassemble and latch chutes.

#### **STORAGE**

When grass catcher is to be stored for a period of time, clean it thoroughly, remove all dirt, grass, leaves, etc. Store in a clean, dry place.



#### CAUTION

Do not leave grass in bagger containers. Empty containers after each use and before storing. Failure to do so may result in spontaneous combustion which could develop into a fire.

## **GENERAL RECOMMENDATIONS**

Always observe safety rules when performing any maintenance.

- Before each use check for loose fasteners.
- Clean unit thoroughly after each use.

#### **BLADE CARE**

- For best results mower blades must be kept sharp. Replace bent or damaged blades.
- See BLADE CARE instructions in your mower operator's manual.



#### **CAUTION**

Grass catcher components are subject to wear, damage and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary.



# CAUTION BEFORE PERFORMING MAINTENANCE, SERVICE OR ADJUSTMENTS:

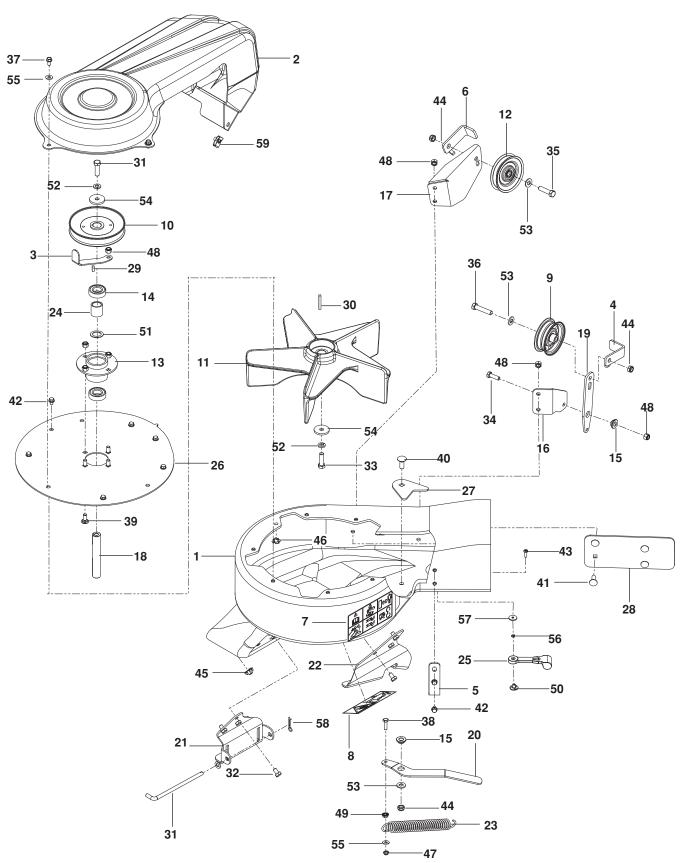
- Set parking brake.
- Place motion control levers in NEUTRAL position.
- Place clutch control in DISENGAGED position.
- Turn ignition key to OFF position.
- Make sure blades and all moving parts have completely stopped.
- Disconnect spark plug wire(s) from spark plug(s) and place wire where it cannot come in contact with plug.



## **CAUTION**

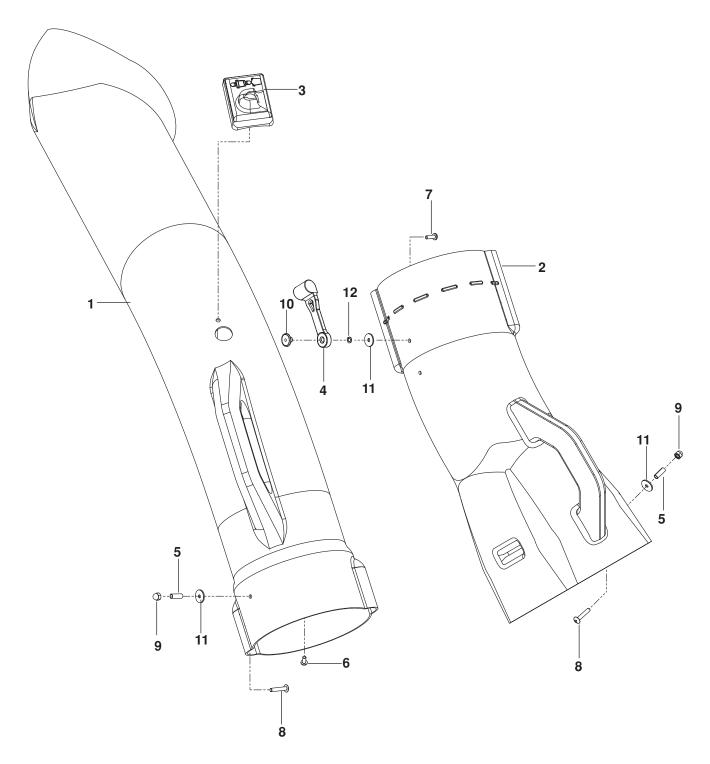
- DO NOT operate mower with grass catcher partially installed.
- Disengage blades and stop engine before leaving mower seat to empty containers, unclogging chutes, etc.
- Close cover before starting.
- Disengage mower blades when crossing driveways or gravel surfaces and other areas where thrown objects could be a hazard.
- DO NOT attempt to vacuum cans or other potentially hazardous projectiles.

## **BLOWER**

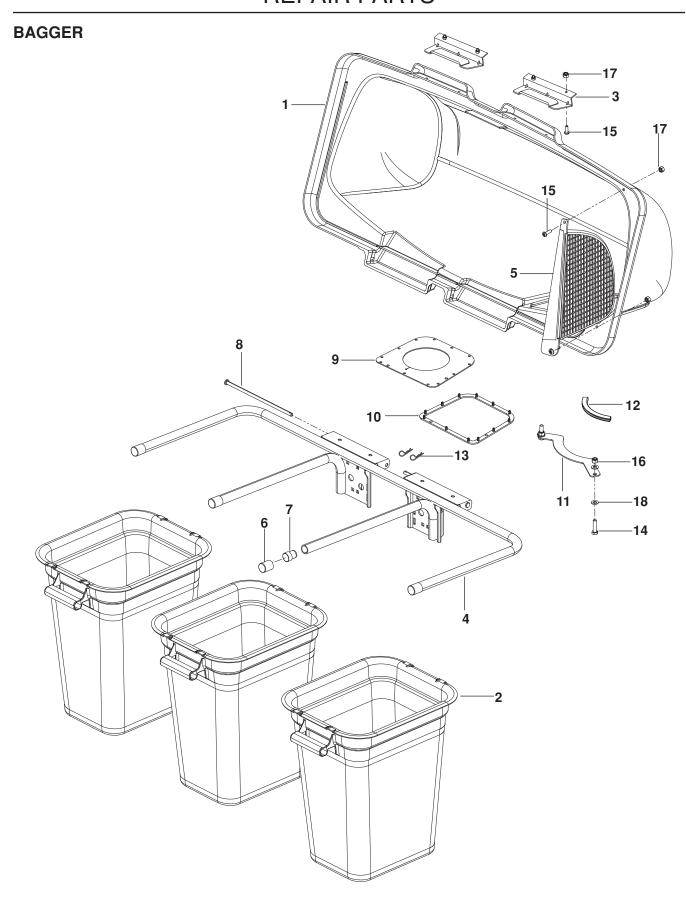


ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION
1 5	539 130344.	1 H	OUSING w/DECALS	31	539 13031	7 1PIN	V
2 5	539 130293.	1 C	OVER, BELT	32	539 13031	5 6 HC	CS <sup>5</sup> / <sub>16</sub> -18 x ½
3 5	539 131085.	1K	EEPER, BELT OUTER	33	539 11032	1 2 HC	CS <sup>3</sup> / <sub>8</sub> -24 x 1 <sup>1</sup> / <sub>4</sub> GR 8
4 5	579 137602.	2 K	EEPER, BELT REAR	34	539 990209	9 1 HC	CS <sup>5</sup> / <sub>16</sub> -18 x 1
5 5	539 130346.	1K	EEPER	35	539 99065	5 1 HC	CS <sup>3</sup> / <sub>8</sub> -16 x 1½
6 5	579 137702.	1K	EEPER	36	539 976949	9 1HC	CS <sup>3</sup> / <sub>8</sub> -16 x 1 <sup>3</sup> / <sub>4</sub>
7 5	539 105785.	1 D	ECAL, WARNING	37	539 10846	1 3 HC	CS 1/4-20 x 1/2
8 8	539 106741.	1 D	ECAL, SEVERING	38	539 99064	3 1 HC	CS 1/4-20 x 7/8
9 5	579 150802.	1Pl	JLLEY, IDLER	39	539 99031	6 4 RH	ISNB <sup>5</sup> / <sub>16</sub> -18 x <sup>3</sup> / <sub>4</sub>
	539 130324.			40	539 99064	5 1 RH	ISNB <sup>3</sup> /8-16 x 1
11 5	539 130292.	1 IN	1PELLER	41	539 99020	3 4R⊢	ISNB <sup>5</sup> / <sub>16</sub> -18 x 1
	539 113683.						REW 1/4 x 3/8 THD FRM
			JB, BEARING				REW #10-24 x <sup>5</sup> /8
	539 130296.						JT <sup>3</sup> / <sub>8</sub> -16 HEX JAM NYLOC
	539 130301.						JT <sup>5</sup> / <sub>16</sub> -18 TEE
			OUNT, IDLER, UPPER				JT 1/4-20 TEE
			OUNT, IDLER, LOWER				JT 1/4-20 HEX NYLOC
			HAFT, IMPELLER				JT <sup>5</sup> / <sub>16</sub> -18 HEX NYLOC
	579 137302.						JT ½-20 HEX FLANGE
			RM, TENSION				ELD NUT, PLATED
			RACKET, MOUNT, FRO		539 91093		
			RACKET, MOUNT, REA				ASHER 3/8 SPLT LOCK
			RACTION SPRING				ASHER 3/8 SAE FLT
	539 130323.						ASHER, HARDENED
			ATCH, HOOD				ASHER 1/4 FLAT SAE
			LATE, OUTER				ASHER 3/16 LOCK
			LATE, BACKING				ASHER 3/16 x 3/4 x 16 GA
			LATE, BACKING		539 976988		
	539 115667.			59	539 TU4/6	э I KE	TAINER U TYPE
3U t	539 125229.	I K	Ξ I <sup>-</sup> /16 X I //2				

## **CHUTES**

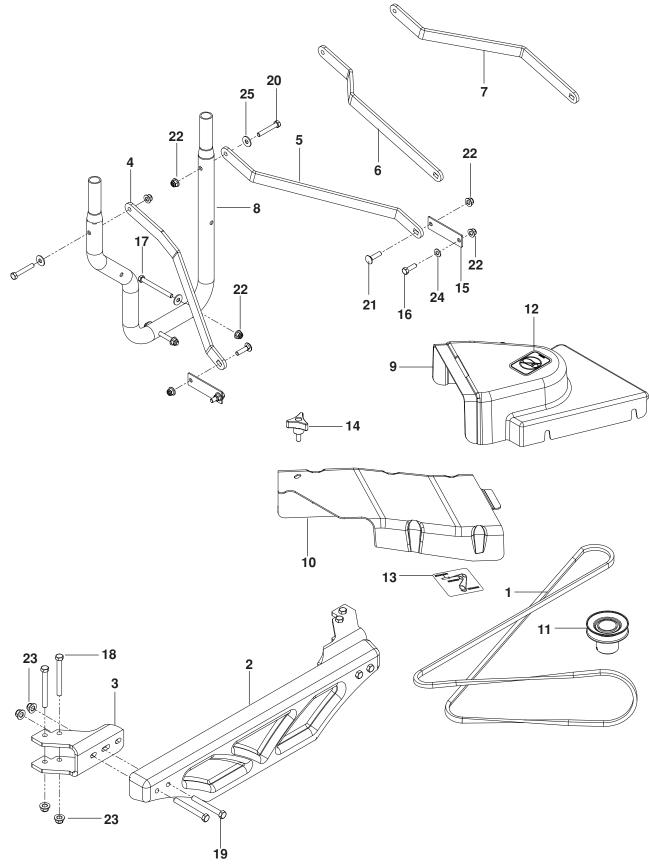


ITEM PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION
1 522 739202	1 C⊦	IUTE, UPPER	7	539 976952	1 S	SCREW #10-24 x 5/8
2 539 130294	1 CH	IUTE, MIDDLE	8	539 108083	2 S	SCREW #10-24 x 1 <sup>1</sup> / <sub>8</sub>
3 539 108082	! 1 INI	DICATOR, BAG DUMP	9	539 108086	2 N	NUT #10-24 ACORN
4 539 108088	1 LA	TCH, HOOD	10	539 108089	1 V	VELD NUT, PLATED
5 539 108085	2 SP.	ACER, SPLIT	11	539 108084	3 V	VASHER 3/16 x 3/4 x 16 GA
6 539 108081	1 SC	REW #10-14 x ½	12	539 109552	2 V	VASHER 3/16 LOCK



ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION
1	532 195373	1 C	OVER	10	532 1926	03 1	. GASKET, COVER
2	532 400226	3 C	ONTAINER, SOFT BAC	g 11	539 1102	81 1	. SUPPORT, CHUTE
3	532 130895	2 H	ANDLE, BAGGER CO	VER 12	539 1122	94 1	. FLEX TRIM
4	539 108098	1FF	RAME, BAGGER	13	539 1080	96 2	. HAIR PIN
5	532 192709	1 S0	CREEN, COVER	14	539 9906	27 2	HCS <sup>5</sup> / <sub>16</sub> -18 x 1 <sup>1</sup> / <sub>4</sub>
6	539 108097	4 Pl	LUG, TUBING END	15	539 9769	52 6	. SCREW #10-24 x <sup>5</sup> / <sub>8</sub>
7	522 801301	2 Pl	LUG, SPACER	16	539 1128	99 2	. NUT 5/16-18 HEX FLG NYLOC
8	532 192786	2 PI	N, HINGE	17	539 9769	77 6	. NUT #10-24 CROWNLOCK
9	532 192550	1 SI	EAL, COVER	18	539 9901	88 4	. WASHER 5/16 SAE

## SHIELD, MOUNTS, WEIGHTS, BELT



ITEN	I PART NO. Q	TY. DESCRI	PTION	ITEM	PART NO.	QTY.	DESCRIPTION
1	539 130347	1BELT		14	539 104411.	1	KNOB w/ STUD
2	539 111587	1 WEIGHT PI	_ATE	15	523 112802	2	PLATE, REINFORCEMENT
3	522 923202	2 WEIGHT BI	RACKET	16	539 990209.	2	HCS <sup>5</sup> / <sub>16</sub> -18 x 1
4	523 084902	1 STRAP, SU	PPORT, RT 28"	17	539 101520.	2	HCS <sup>5</sup> / <sub>16</sub> -18 x 3 <sup>1</sup> / <sub>4</sub>
5	523 084702	1 STRAP, SU	PPORT, LT 28"	18	539 108271.	4	HCS <sup>3</sup> / <sub>8</sub> -16 x 3½
6	522 854402	1 STRAP, SU	PPORT, RT 26"	19	539 101341.	4	HCS <sup>3</sup> / <sub>8</sub> -16 x 3
7	522 854502	1 STRAP, SU	PPORT, LT 26"	20	539 976937.	2	HCS 5/16-18 x 2
8	539 131091	1TUBE, MOI	JNT	21	539 100472.	2	RHSNB 5/16-18 x 11/4
9	539 130306	1SHIELD, BI	ELT	22	539 112899.	8	NUT 5/16-18 HEX FLG NYLOC
10	539 130309	1 COVER, BE	ELT	23	521 996501.	8	NUT <sup>3</sup> /8-16 HEX FLANGE
11	539 130319	1PULLEY		24	539 990188.	2	WASHER 5/16 SAE FLAT
12	539 105743	1 DECAL, NO	) STEP	25	539 990692.	4	WASHER 5/16 STD FLT
13	539 130349	1 DECAL, BE	ELT ROUTING				



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115 145127 Rev D 2013-06-03