

OPERATOR'S MANUAL & PARTS LIST



QUIK-D-TATCH® VACUUM GRASSCATCHER M2 SERIES BEGINNING WITH SERIAL # 6310000

Form 172095-130313
Printed in U.S.A.

INTRODUCTION

Congratulations on your selection of Grasshopper equipment. We believe you have exercised excellent judgment in the purchase of Grasshopper equipment. We are most appreciative of your patronage.

We recommend that you carefully read this entire manual before operating the unit. Time spent becoming fully acquainted with its performance features, adjustments and maintenance will add a longer and more satisfactory life to your Grasshopper.

The Grasshopper equipment you have purchased has been carefully engineered and manufactured to provide dependable and satisfactory use. Like all mechanical products it will require cleaning and upkeep. Lubricate it as specified in the manual. Observe all safety information in this manual and all safety decals on the tractor and attachments.

The illustrations and data used in this manual were current at the time of printing, but due to possible in-line production changes your machine may vary slightly in detail. The manufacturer reserves the right to make changes or add improvements to its products at any time without incurring any obligation to make such changes to products manufactured previously.

As with all lawn and grounds equipment, if handled carelessly this machine is a dangerous piece of equipment. **If used incorrectly this machine can cause severe injury.** You, the operator, are responsible when operating it. Therefore, safety is of the utmost importance.

ATTENTION:

- **Read the instructions and warnings carefully before using this machine.**
- **Read your Grasshopper warranty, enclosed with the tractor manual. To validate warranty, fill in the required information and return the warranty form within 10 days of purchase to:**

THE GRASSHOPPER CO.

P.O. Box 637

Moundridge, Kansas 67107

Use only genuine Grasshopper service parts. Substitute parts will void the warranty and may not meet standards required for safe and satisfactory operation. Record the model and serial number of your vacuum assembly.

MODEL: _____

SERIAL NUMBER: _____

(Serial tag is located on the blower housing.)

Provide this information to your dealer to obtain correct repair parts.

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SAFETY SYMBOLS



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

Throughout this manual, the term **IMPORTANT** is used to indicate that failure to observe can cause damage to equipment. The terms **CAUTION**, **WARNING**, and **DANGER** are used in conjunction with the Safety Alert Symbol [a triangle with an exclamation mark] to indicate the degree of hazard for items of personal safety.

CAUTION

Is used for general reminders of good safety practices or to direct attention to unsafe practices.

WARNING

Denotes a specific potential hazard.

DANGER

Denotes the most serious specific potential hazard.

SAFETY DECALS

Replace Immediately If Damaged

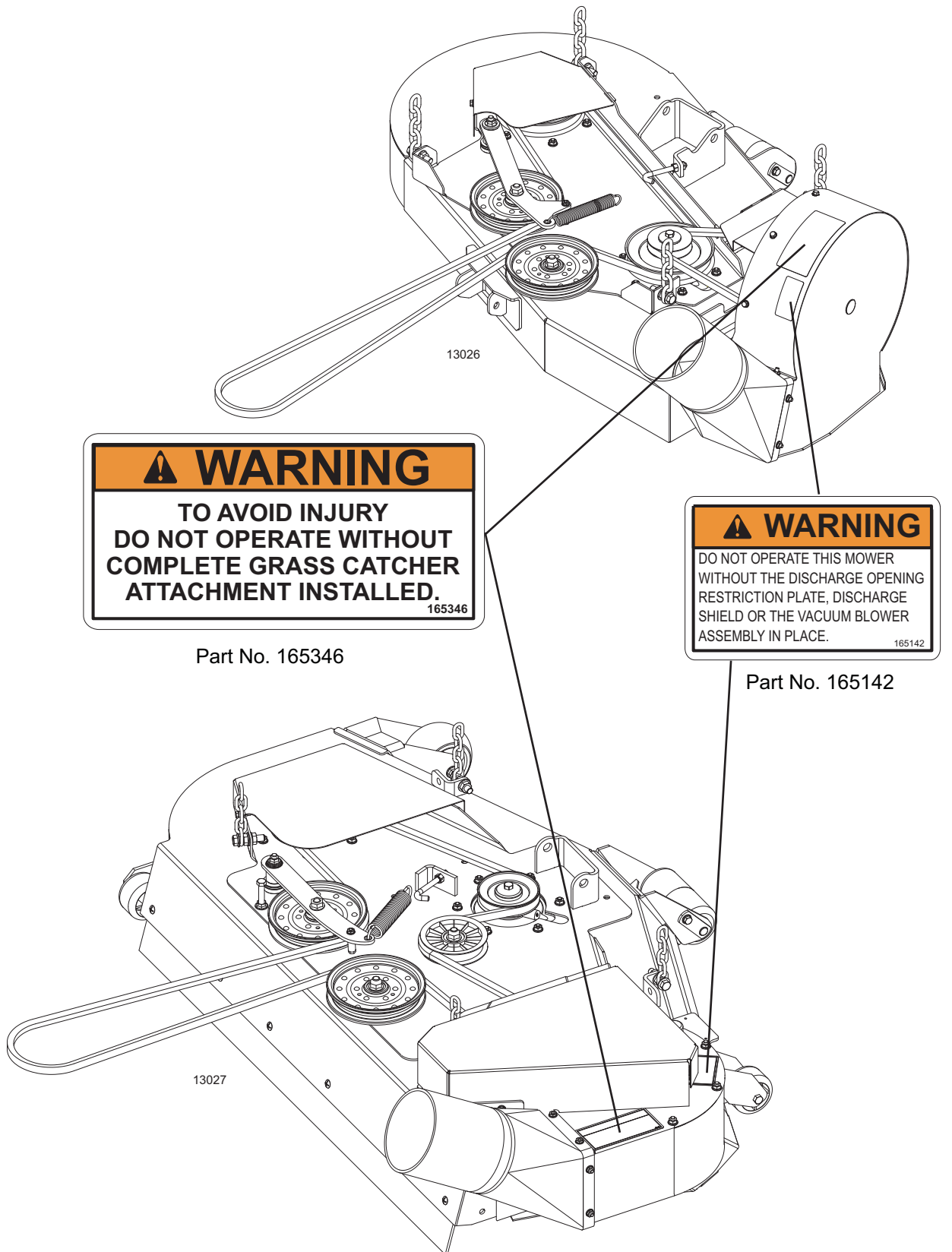


Fig. 1

WORK SAFELY - FOLLOW THESE RULES

CAUTION

The designed and tested safety of this equipment depends on it being operated within the limitations as explained in this manual. Read manual before operating.

TRAINING

- Safety instructions are important! **READ THIS MANUAL AND ALL SAFETY RULES.**
- Know your equipment's controls and how to stop tractor, engine and attachments quickly in an emergency.
- To avoid accident or injury, do not allow anyone to operate this equipment without proper instruction. Any person who operates this equipment **MUST** be instructed in and capable of the safe operation of the unit, its attachments and all controls.
- Do not allow children or unqualified individuals to operate equipment.

PREPARATION

- Always wear relatively tight and belted clothing to avoid entanglement in moving parts. Wear sturdy, rough soled work shoes. Never operate tractor or implements in bare feet, sandals or sneakers.
- Ensure attachments are properly mounted, adjusted and in good operating condition.
- Make sure driveline spring-activated locking collar slides freely and is seated firmly in the tractor PTO groove.
- Remove accumulated debris from attachment and tractor to avoid fire hazard.
- Ensure all safety shielding is in good condition and properly installed.
- Ensure either the discharge shield or complete vacuum attachment is installed.
- Ensure all safety decals are installed and in good condition.
- Use correct counterweights when certain attachments are installed (see specific accessory installation instructions).

- Inspect area to be cut and remove stones, branches and other debris that might be thrown causing injury or damage.
- Never permit any person, other than the operator, to ride or board the tractor or implements at any time.
- Operate only in daylight or good artificial light.

OPERATIONAL SAFETY

- Read "Operation" section of this manual before attempting to operate this unit.
- Fenders serve as shields. Do not operate without them.
- Keep bystanders away from equipment while it is in operation.
- Keep children and pets a safe distance away. Never direct discharge toward anyone.
- Start engine from operator's seat after disengaging tractor power takeoff and placing steering levers into the neutral swing-out position.
- Keep hands and feet away from underneath mower while engine is running. Stay clear of all moving parts on tractor and attachments.
- If your tractor is equipped with a ROPS (Roll-Over Protective Structure), you must wear your seat belt.
- Protect against noise. Wear suitable hearing protection devices to protect against objectionable noise.
- Never allow anyone behind tractor or in front of implements when operating.
- Do not operate in reverse unless absolutely necessary and then only after careful observation of the entire area behind you.
- If operator must dismount to make adjustments, the engine must not be running.
- Do not move steering levers from forward to reverse or reverse to forward position rapidly. The sudden change could cause loss of control and/or damage to equipment.
- Do not operate on steep slopes.
- Do not stop, start or change directions suddenly on slopes.
- Use extreme care and maintain minimum ground speed when traveling or operating

on a hillside, over rough ground, or when operating close to ditches and fences.

- Reduce speed on slopes and sharp turns to minimize tipping and avoid loss of control. Be careful when changing directions on slopes.
- Stay alert for holes, rocks, roots, and other hidden hazards in the terrain. Keep away from drop-offs.
- Stop mower or other attachment and tractor immediately upon striking an obstruction. Turn engine off, inspect attachment and tractor, and repair damage before resuming operation.
- Disengage power to attachment, stop engine, remove key, and wait for all movement to stop before dismounting, making adjustments, removing grass catcher, or unclogging any attachments.
- Never transport attachments with PTO running.
- Watch for traffic when operating near or crossing roadways.
- This unit is not equipped for highway use, especially when safety lighting and marking is required. It is not a recreational vehicle.
- This unit is not equipped with a drawbar. Do not pull loads.
- Handle fuel carefully. It is highly flammable. Always use an approved container. Never remove fuel cap or add fuel while engine is running. Allow engine to cool two minutes before refueling. Do not spill fuel on hot engine parts.
- Take all possible precautions when leaving tractor unattended: disengage PTO, lower attachment, place controls in neutral, set parking brake, stop engine, and remove key from ignition.
- Move very slowly when attachment is removed. Never carry passengers.

MAINTENANCE SAFETY

- Disconnect battery ground cable (-) before performing maintenance or service in order to avoid injury from accidental starting.
- Never work under equipment without safety

blocks.

- Keep engine free of grass, leaves, and excess grease to reduce fire hazard and minimize engine overheating.
- Do not change engine governor settings.
- Keep tractor and attachments in good operating condition and all safety devices in place.
- Periodically tighten all bolts, nuts and screws. Check that all cotter pins are properly installed to ensure equipment is in a safe condition.

STORING SAFELY

- Never store equipment with gasoline in the tank inside a building where fumes may reach an open flame, spark or pilot light as on a furnace, water heater, clothes dryer, or other gas appliance. Allow engine to cool before storing in an enclosure.
- If engine is to be unused for 30 days or more, add a fuel stabilizer to the fuel system. Fuel stabilizer (such as STA-BIL®) is an acceptable additive in minimizing the formation of fuel gum deposits during storage. Add stabilizer to gasoline in fuel tank or storage container. Always follow mix ratio found on stabilizer container. Run engine at least 10 minutes after adding stabilizer to allow it to reach the carburetor.
- If draining fuel tank, drain fuel into an approved container outdoors and away from open flame.
- Always provide adequate ventilation when running engine indoors. Exhaust gases contain carbon monoxide, an odorless and deadly poison.
- Remove attachments from tractor. Remove all accumulated debris from attachments and tractor.
- Sand areas where paint is chipped and repaint to prevent rust. Lubricate all locations to prevent moisture damage during storage.

VACUUM GRASSCATCHER SAFETY

- Do not operate the Vacuum Grasscatcher without reading the Vacuum Grasscatcher owner's manual and all safety instructions.
- Keep hands, feet and clothing away from power driven parts.
- Keep children and bystanders a safe distance away during operation of the Vacuum Grasscatcher.
- Grasscatcher attachments restrict vision of the operator. Use extra care to be sure area is clear before operating. Do not operate in reverse unless absolutely necessary.
- Grasscatcher attachments can change the stability of the machine. Do not operate machine with grasscatcher on slopes.
- Eye protection must be worn at all times by the operator.
- Ensure either the discharge shield, restrictor plate, or complete vacuum attachment is installed.
- Always keep shields in place while machine is in operation.
- Do not operate the grasscatcher with the hose removed.
- Stop grasscatcher, mower, turn off engine and allow all moving parts to stop before leaving seat.
- Stop grasscatcher, mower, turn off engine, remove key and allow all moving parts to stop before adjusting or servicing the grasscatcher.
- Never carry passengers or objects on the mower or grasscatcher.

GENERAL INFORMATION

The purpose of this manual is to assist the operator in maintaining and operating **GRASS-HOPPER** tractors. Read it carefully. It furnishes information and instructions that will help you achieve years of dependable performance.

These operating and maintenance instructions have been compiled from extensive field experience and engineering data. Some information may be general in nature due to unknown and varying conditions. However, through experience and these instructions, you should be able to develop operating procedures suitable to your particular situation.

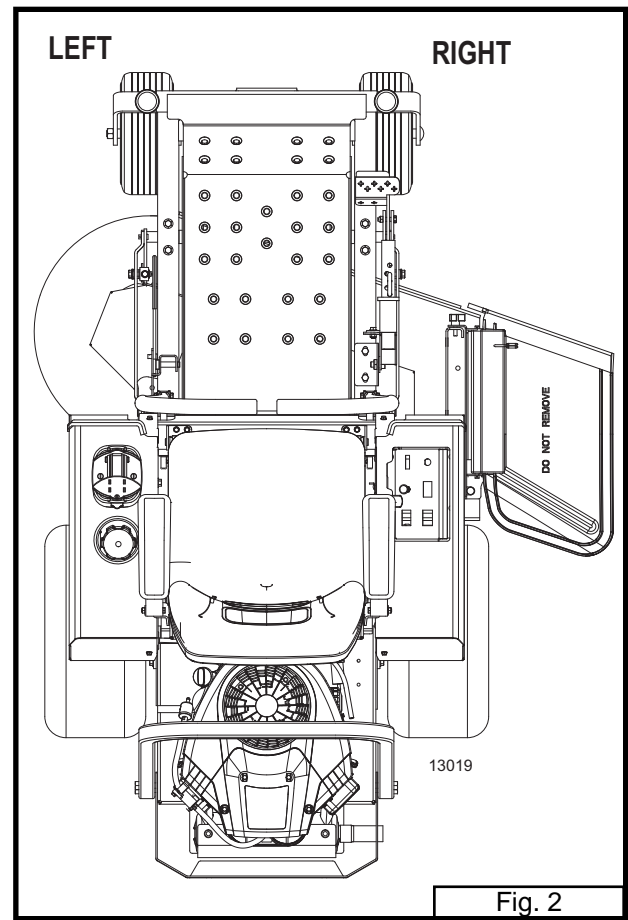
The illustrations and data used in this manual were current at the time of printing, but due to possible in-line production changes your machine may vary slightly in detail. **GRASS-HOPPER** reserves the right to redesign and change the machine as necessary without notification.

WARNING

Some illustrations in this manual show the tractor with safety shields removed to provide a better view. The mower should never be operated with any safety shielding removed.

WARNING

Installation of the grasscatcher vacuum assembly will reduce the stability and maneuverability of the Grasshopper when operating on a sloping terrain. Watch out for and avoid steep inclines that could cause operator injury.



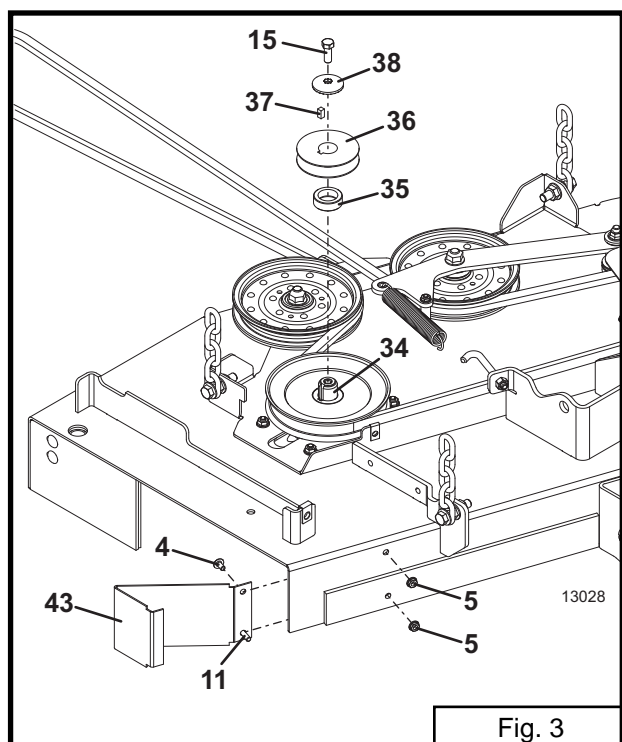
Throughout this manual, references are made to right and left directions. These are determined by standing at the rear of the equipment and facing the direction of forward travel. Mower blade rotation is clockwise as viewed from the top of mower.

OPERATION AND MAINTENANCE

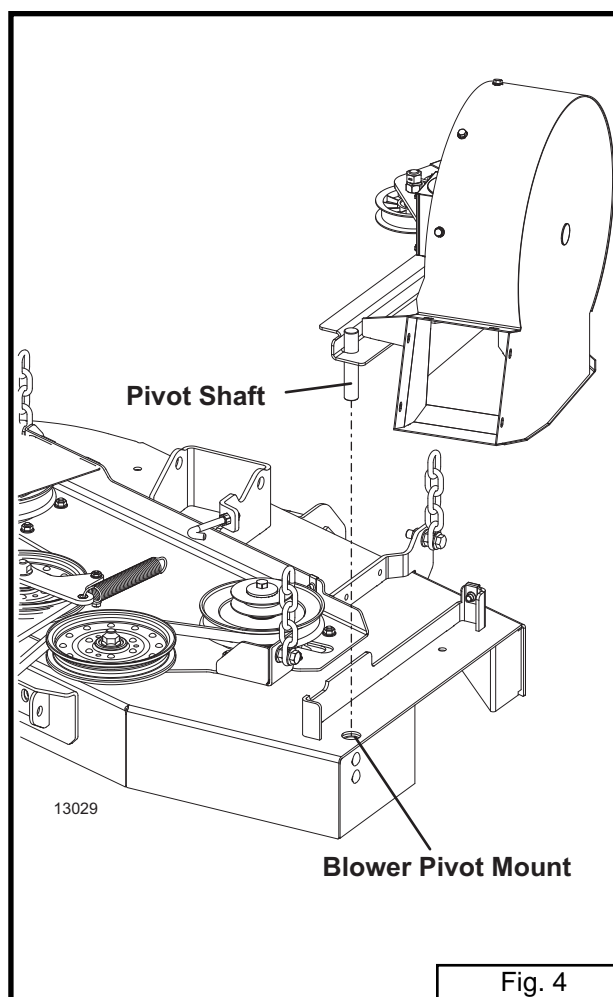
Refer to page 25 for a complete illustration of Vacuum and Drive Assembly.

M241: INSTALLATION OF VACUUM BLOWER ASSEMBLY

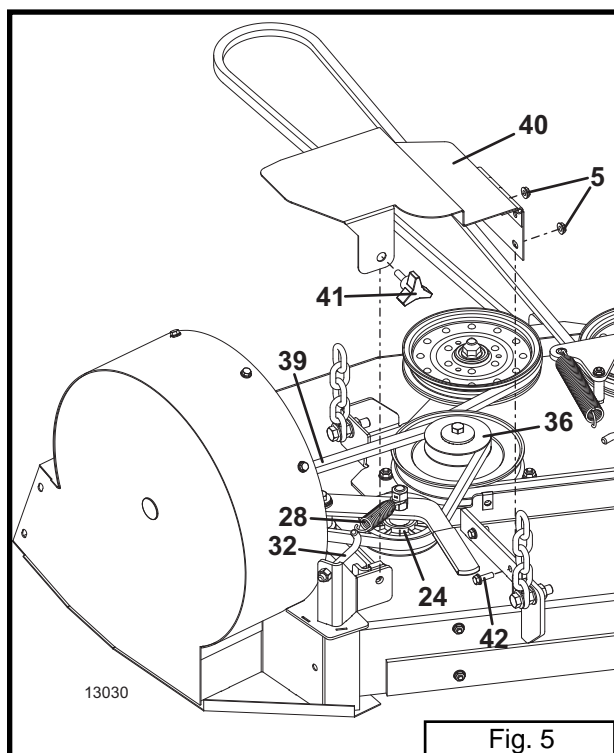
- Remove the mower deck discharge shield by removing the .312 stud bolt, pivoting the discharge shield away from the deck, and lifting the shield up to remove it.
- Remove belt shield from the deck's right spindle.
- Replace the right spindle shaft with the spindle shaft (item 34) included in kit.
- Install .5 inch long spacer (item 35).
- Install vacuum drive sheave (item 36) and secure with square key (item 37), cupped washer (item 38) and .375-24 x 1 bolt (item 15).
- Locate and install the baffle (item 43) inside the front edge of the deck. Secure baffle with .25-20 x .5 whiz bolt (item 4), .25-20 x .75 whiz bolt (item 11) and whiz nuts (item 5).



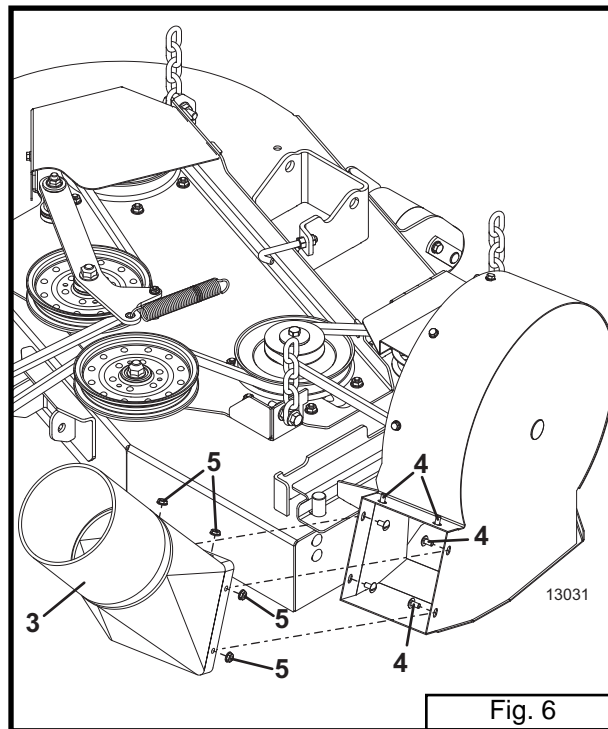
- Slide the pivot shaft of the vacuum housing assembly into the sleeve of the blower pivot mount. Pivot the vacuum housing assembly in place so that the vacuum housing assembly fits against deck.



- Install the drive belt (item 39) around the sheave (item 9) on gear box, around the drive sheave (item 36) on deck and around the idler pulley (item 24). To adjust belt tension, loosen the outer lock nut on the J-bolt (item 32). Adjust the inner draw nut so that the idler spring's (item 28) body is extended to a length of 3 inches. Tighten the outer lock nut against the bracket.
- Install the hinged belt shield (item 40) and secure with two .25-20 x .75 hex whiz bolts (item 42) and whiz nuts (item 5). Using the .312 stud bolt (item 41) secure the hinged belt shield and housing assembly in place.



- Locate the hose adapter (item 3) and bolt it to the vacuum housing with six .25 x .5 truss head bolts (item 4). Install bolts with nuts to the outside to prevent grass buildup inside the adapter.



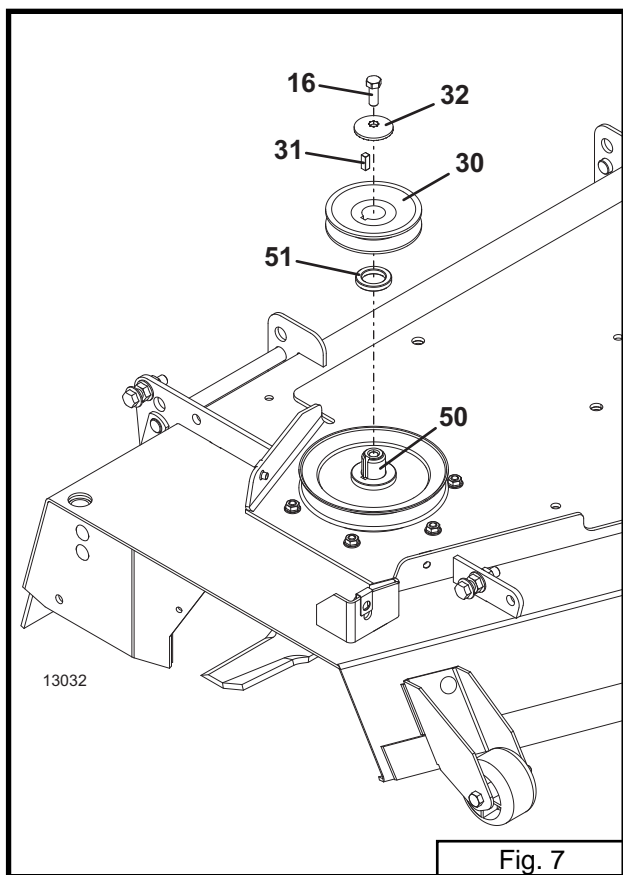
MOWER BLADES

Medium lift blades are recommended when the vacuum grasscatcher is installed.

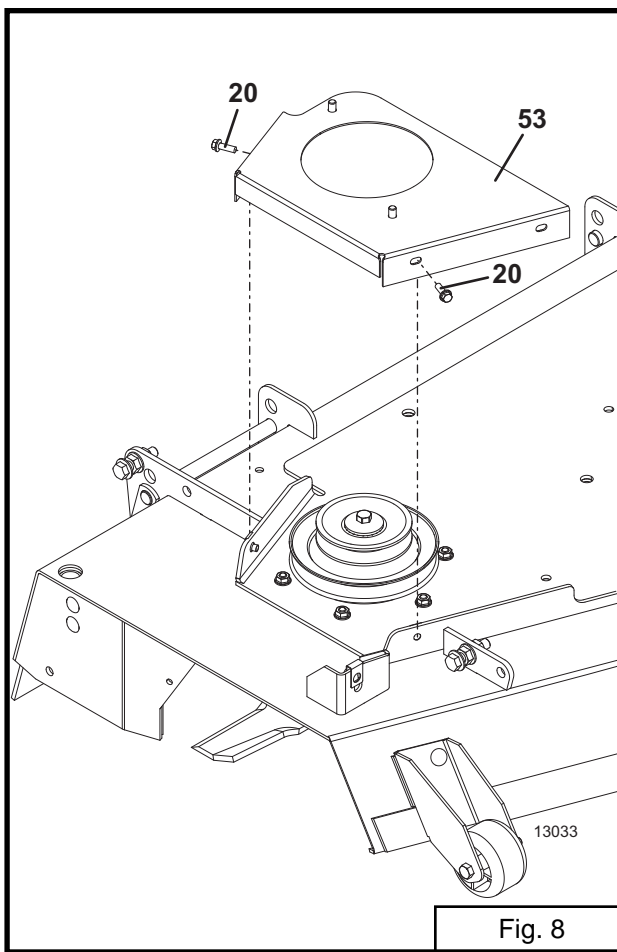
Refer to page 27 for a complete illustration of Vacuum and Drive Assembly.

M248D/52D: INSTALLATION OF VACUUM BLOWER ASSEMBLY

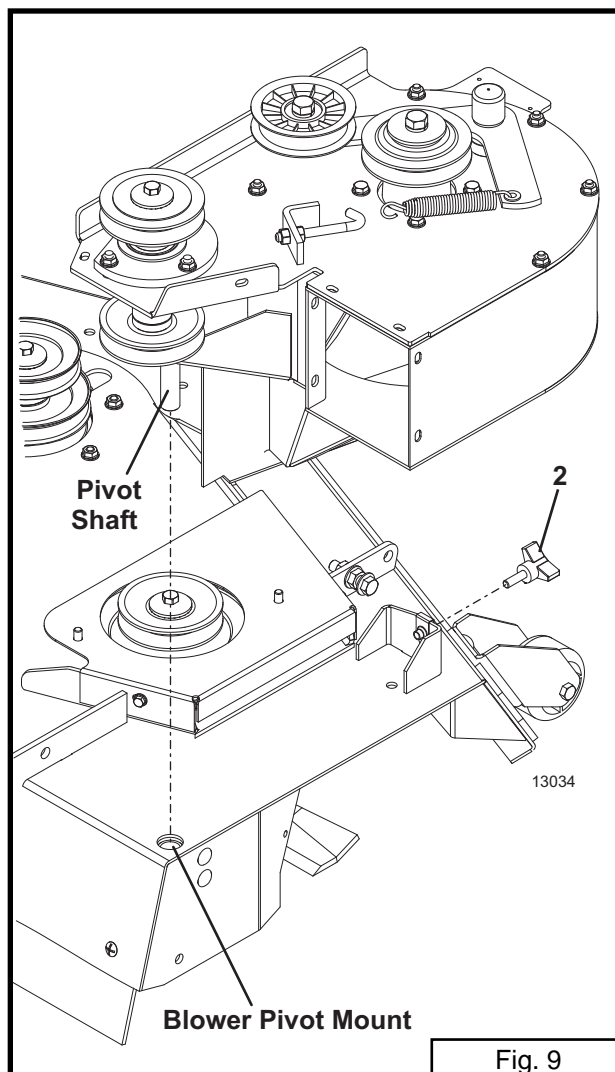
- Remove the mower deck discharge shield by removing the .312 stud bolt, pivoting the discharge shield away from the deck, and lifting the shield up to remove it.
- Remove belt shield from the deck's right spindle.
- Replace the right spindle shaft with the spindle shaft (item 50) included in kit.
- Install .25 inch long spacer (item 51).
- Install vacuum drive sheave (item 30) and secure with square key (item 31), cupped washer (item 32) and .375-24 x 1 bolt (item 16).



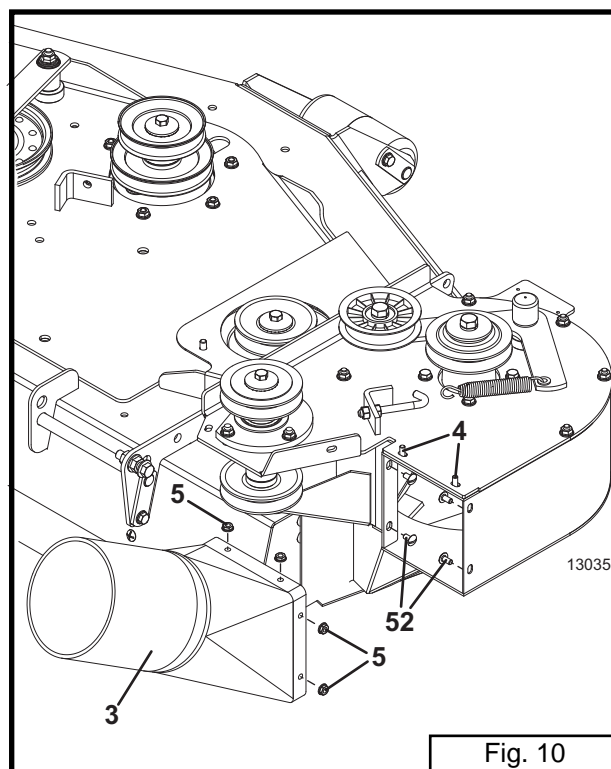
- Install the vacuum drive mount (item 53) with three .25-20 x .75 hex whiz bolts (item 20).



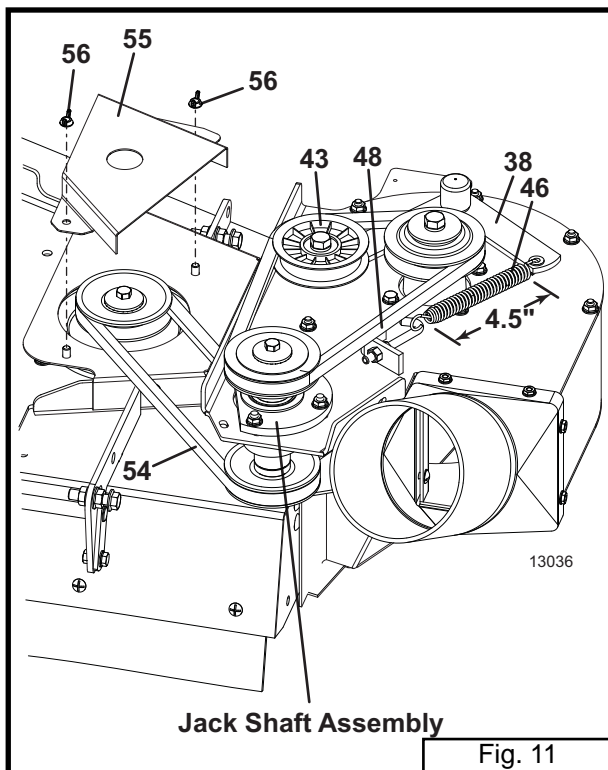
- Slide the pivot shaft of the vacuum housing assembly into the sleeve of the blower pivot mount. Pivot the vacuum housing assembly in place so that the vacuum housing assembly fits against deck. Using the .312 stud bolt (item 2), lock the housing in place.



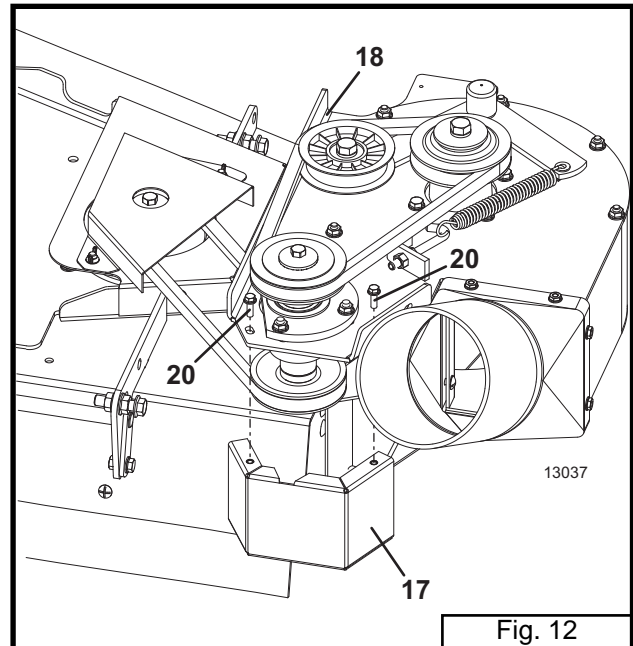
- Locate the hose adapter (item 3) and bolt it to the vacuum housing with two .25 x .75 (item 4) and four .25 x .5 truss head whiz bolts (item 52). Install bolts with the nuts to the outside to prevent grass buildup inside the adapter.



- Loosen the four bolts securing the jackshaft assembly. Slide the jackshaft assembly toward the drive sheave on the deck. Install the belt (item 54) around the drive sheave and the lower sheave on the jackshaft assembly. To assist in tightening belt, remove the .312 stud bolt (item 2) from the fan housing assembly and pivot fan housing away from the front of the deck. Slide the jackshaft assembly back to tighten belt and secure bolts. Secure front of fan housing to deck with the .312 stud bolt. The belt should be tight enough so it does not slip on the sheaves. DO NOT over tighten belt.
- Install the vacuum drive shield (item 55) on the shield mount. Secure shield with two .312-18 wing nuts (item 56). Shield must be removed to allow installation or removal of drive belt.
- Install the fan drive belt (item 48) around the sheaves on the fan housing and around the idler pulley (item 43). To adjust the belt tension, loosen the outer lock nut on the J-bolt. Adjust the inner draw nut so that the idler spring's (item 46) body is extended to a length of 4.5 inches. Tighten the outer lock nut against the bracket.



- Locate the lower belt shield (item 17) and bolt it to the bottom of the vacuum blower top (item 18) with two .25-20 x .75 hex whiz bolts (item 20).



- Attach the belt guard (item 19) to the left side and the blower belt shield (item 49) to the top of the vacuum blower top (item 18). Secure each with .25-20 x .75 hex whiz bolts (item 20).

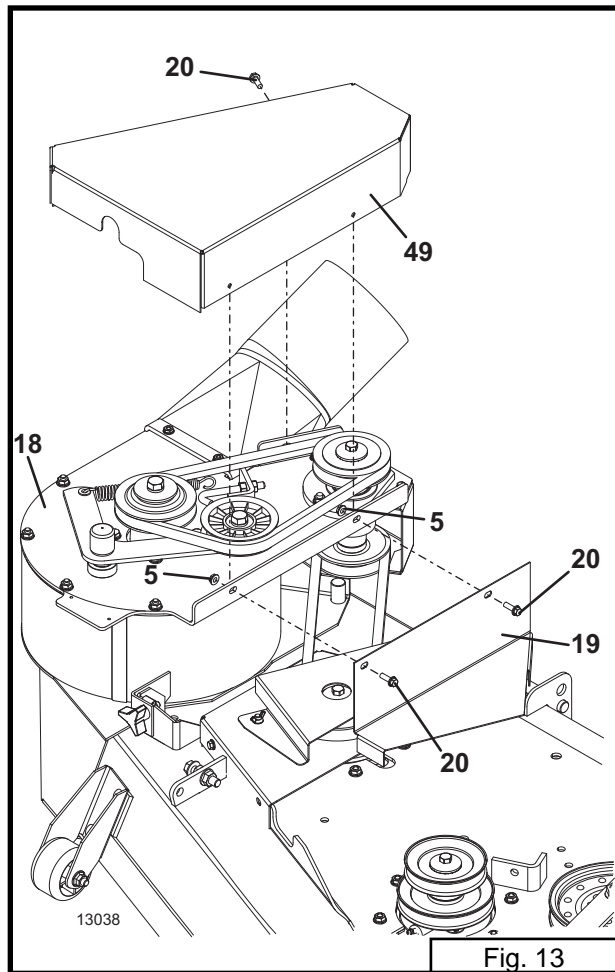


Fig. 13

M241: OPERATION OF MOWER ASSEMBLY WITHOUT VACUUM HOUSING ASSEMBLY

(Refer to page 25)

- To remove vacuum housing assembly from the mower assembly, loosen the hose clamp on the flex hose where it connects to the bag frame and remove hose.
- Remove the 3 prong head stud bolt (item 41) securing the belt shield (item 40) and vac housing (item 1). Pivot the belt shield (item 40) up. Deraill the belt and remove.
- Pivot the vacuum housing assembly away from the deck, lift and remove from deck.
- Install the discharge shield, pivot the belt shield down, and secure both with the stud bolt.

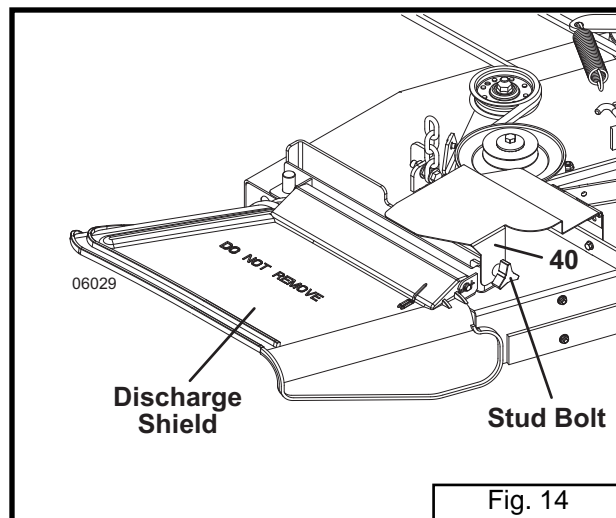
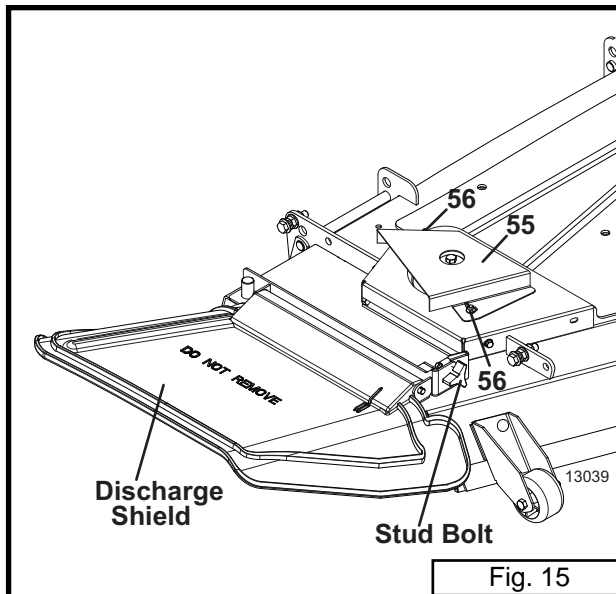


Fig. 14

M248D/52D: OPERATION OF MOWER ASSEMBLY WITHOUT VACUUM HOUSING ASSEMBLY

(Refer to Fig. 15 & page 27)

- To remove vacuum housing assembly from the mower assembly, loosen the hose clamp on the flex hose where it connects to the bag frame and remove hose.
- Remove the wing nuts (item 56) securing the vacuum drive shield (item 55) and remove the shield.
- Remove the stud bolt and pivot the vacuum housing assembly away from the deck. Deraill the belt from the sheaves and remove.
- Lift the vacuum housing assembly up and remove from deck.
- Install the discharge shield and secure with stud bolt.
- Install the vacuum drive shield (item 55) back in place and secure with wing nuts (item 56).



M241: BELT REPLACEMENT

(Refer to page 25 for illustration)

- Remove the stud bolt (item 41) securing the vacuum belt shield (item 40) and pivot the belt shield up.
- Loosen idler arm spring (item 28) tension and remove spring from “J” bolt (item 32).
- Deraill the old belt (item 39) from the sheaves. Remove and install new belt.
- Reattach idler arm spring to “J” bolt and adjust spring tension so that belt does not slip on the sheaves. DO NOT over tighten belt.
- Pivot vacuum belt shield down and secure vac housing and shield with stud bolt.

M248D/52D: LOWER BELT REPLACEMENT

(Refer to Fig. 15 & page 27 for illustration)

- Remove the wing nuts (item 56) securing the vacuum drive shield (item 55) and remove the shield.
- Remove the drive belt shield (item 17).
- Remove the stud bolt (item 2) and pivot the vacuum housing assembly away from the deck. Remove old belt and install new belt.
- Pivot the vacuum housing assembly toward the deck and secure with stud bolt.
- Check the tension of the belt. The belt should not slip on the sheaves. The position of the jackshaft assembly may need to be adjusted. Adjustment of jackshaft assembly can be made by loosening four bolts and sliding it in the slots. DO NOT over tighten belt.
- Reinstall vacuum drive shield over sheave and tighten wing nuts
- Reinstall drive belt shield (item 17).

M248D/52D: UPPER BELT REPLACEMENT

(Refer to page 27 for illustration)

- Remove the blower belt shield (item 49) from the blower top (item 18).
- Loosen the spring tension on the belt (item 48) and remove old belt.
- Install new belt and position the idler pulley (item 43) so it will hold tension against the inside of the belt.
- Adjust the inner draw nut on the “J” bolt (item 47) so the idler spring’s body is extended to a length of 4.5 inches. Tighten the outer lock nut against the bracket.
- Reinstall the blower belt shield on the blower top.

M248D/52D: FAN BEARING REPLACEMENT

(Refer to page 27 for illustration)

- Follow instructions outlined in ‘Upper Belt Replacement’ for removing belt.
- Remove the hose from hose adapter (item 3) and remove the hose adapter from the blower housing assembly.
- Remove the vacuum blower top (item 18) from the blower housing (item 1).
- Remove the fan (item 12) from the spindle shaft (item 8). To remove spindle shaft, press through bearings. Be sure spacer between bearings is installed with new bearings. Press old bearings from housing noting the position of the inner race.
- Follow this procedure in reverse for reassembly.

M248D/52D: JACK SHAFT BEARING REPLACEMENT

(Refer to page 27 for illustration)

- Follow instructions outlined in ‘Lower Belt Replacement’ for removing belt.
- Remove the jackshaft assembly from the vacuum blower top (item 18).
- Remove top bolt (item 16) from shaft (item 28).
- To remove shaft, press through bearings. Be sure spacer between bearing is installed with new bearings. Press old bearings from housing noting the position of the inner race.
- Follow this procedure in reverse for reassembly.

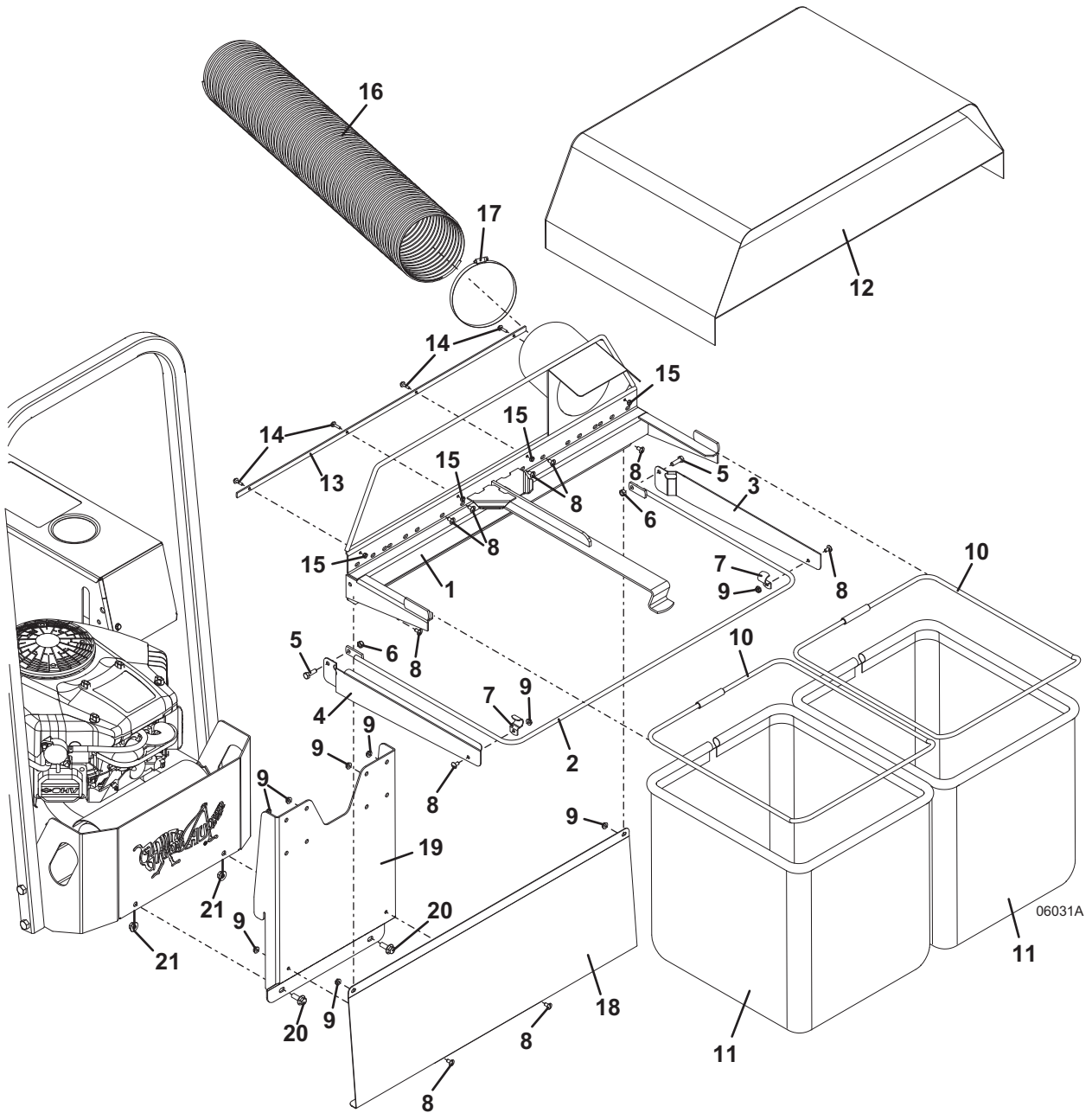
VACUUM GRASS BAG REPLACEMENT

(Refer to page 19 or 21 for a complete illustration)

The grass bag (page 19, item 11 or page 21, item 22) has a slit in the center of the back through which the bag rod (page 19, item 10 or page 21, item 21) can be removed. Locate this slit and work the bag off the bag rod. Once the bag is removed, carefully re-thread the bag rod into the new bag.

CATCHER W/MOUNT - MODEL 8F M2

PART NO. 503209



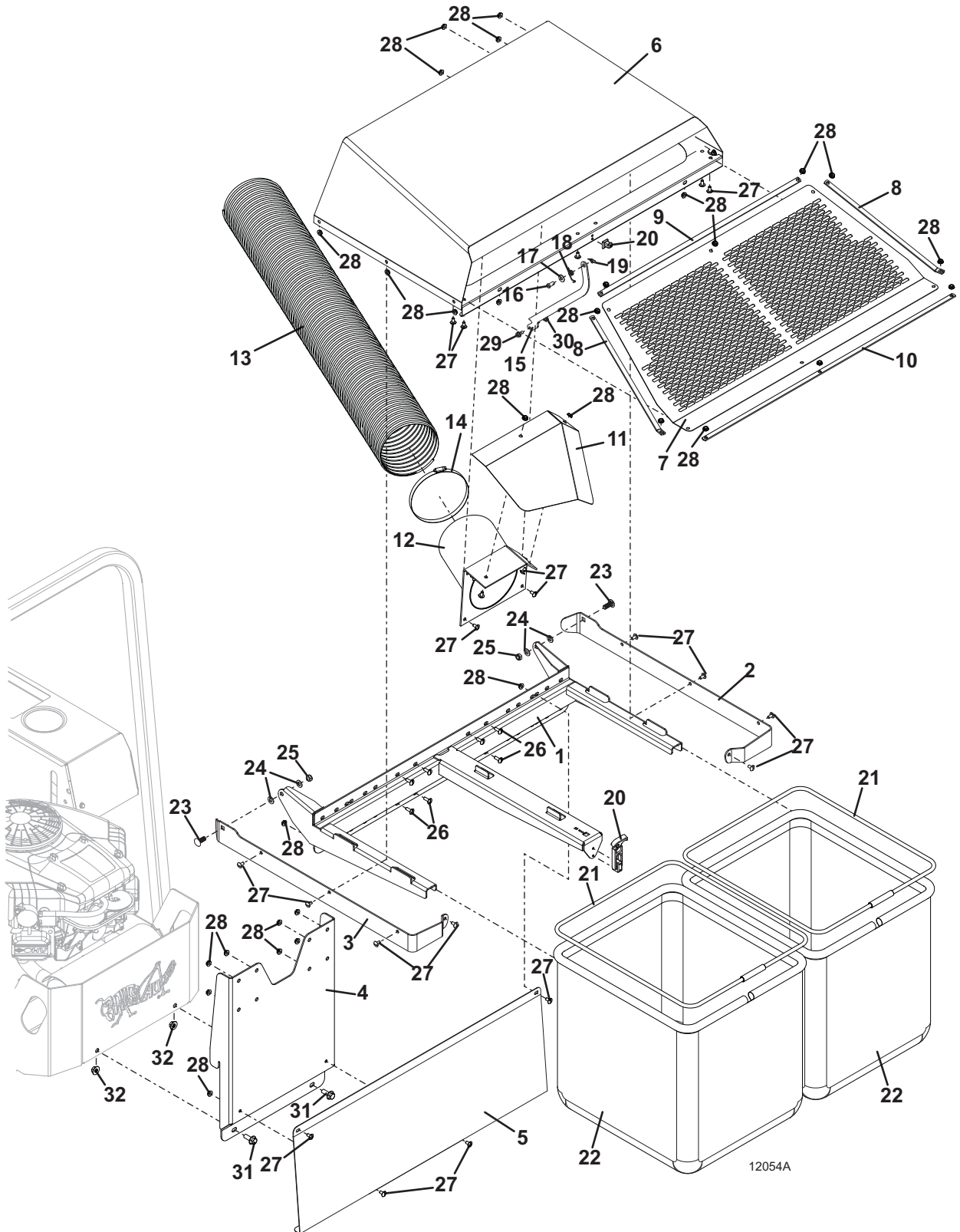
CATCHER W/MOUNT - MODEL 8F M2

PART NO. 503209

Item No.	Order No.	Description	Item No.	Order No.	Description
1	643373	Frame – Twin Bag	12	420035	Catcher Top - Fabric
2	643446	Hinge – Fabric Top	13	782336	Hold Down Strap – Fabric Top
3	723365	Shield – Fabric Top Rt	14	253167	Whiz Bolt 10-24 x .75
4	723366	Shield – Fabric Top Lt	15	254421	Nut 10-24
5	243205	Bolt .312-18 x 1	16	424398	Flex Hose 6 x 44
6	253450	Nut .312-18 Nylon Insert	17	280345	Hose Clamp
7	180630	Conduit Clip .5	18	722805	Heat Shield
8	253176	Whiz Bolt .25-20 x .5 Truss	19	729634	Mount Plate
9	253025	Whiz Nut .25-20	20	253203	Whiz Bolt .375-16 x 1
10	643723	Rod – Twin Bag	21	253043	Whiz Nut .375-16
11	420003	Bag – 3 Bushel			

COLLECTOR - 8HT BAGGER W/M2 MOUNT

PART NO. 504188



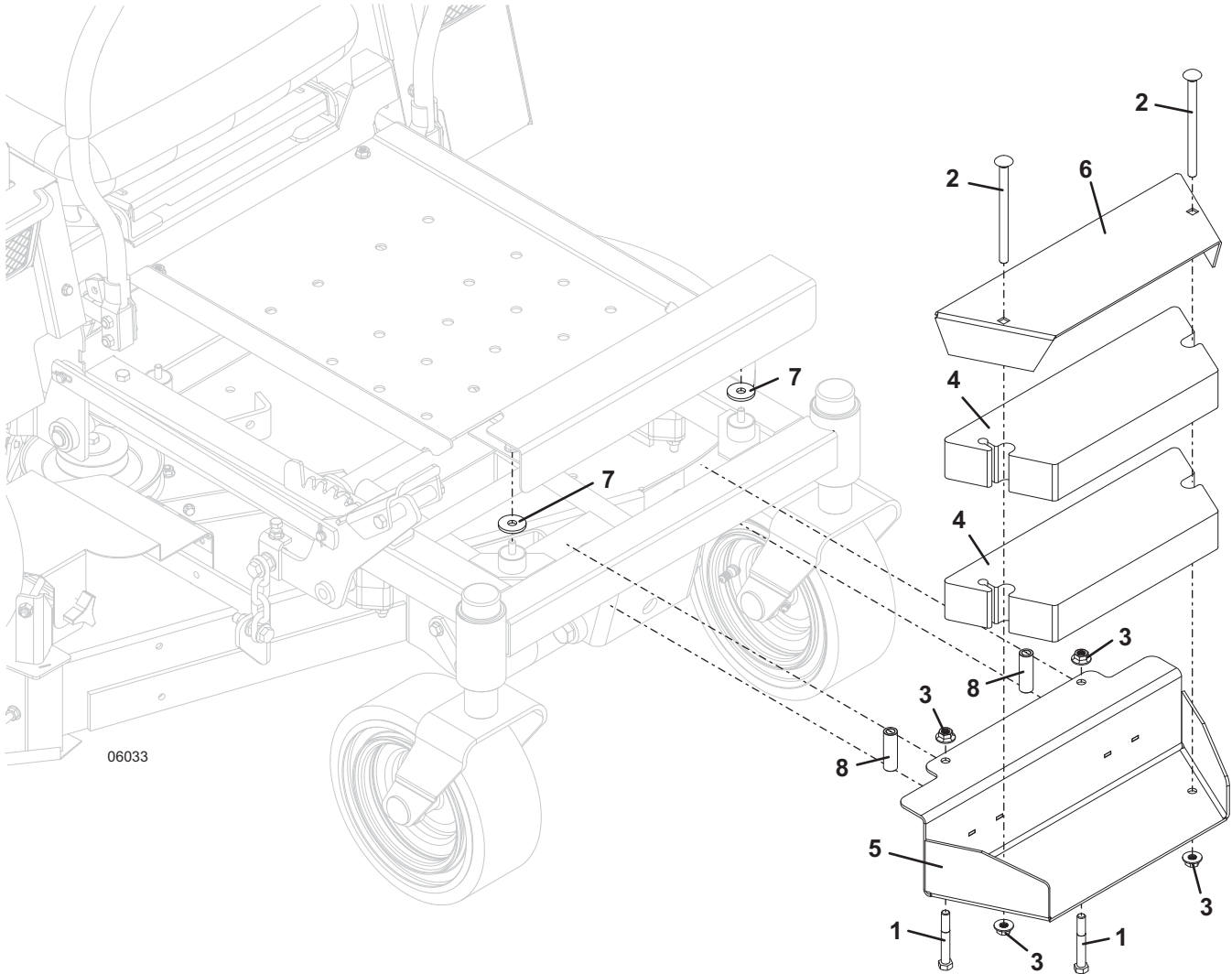
COLLECTOR - 8HT BAGGER W/M2 MOUNT

PART NO. 504188

Item No.	Order No.	Description	Item No.	Order No.	Description
1	645373	Frame – 8HT Bagger	17	257020	Washer .25
2	732623	Strap – Top Guard Rt.	18	284407	Spring – Torsion
3	732624	Strap – Top Guard Lt.	19	260606	Ring Cotter .047 x .312
4	729634	Mount Plate	20	281304	Latch – Flexible Draw
5	722805	Heat Shield	21	645723	Bag Rod
6	645830	Top – 8HT Bagger	22	420004	Bag – 3 Bushel Hard Bottom
7	420008	Fabric Screen (Standard)	23	247253	Carriage Bolt .375-16 x 1
	721389	Metal Screen (optional)	24	257047	Washer .390 x .75 x .062 Nylon
8	782305	Side Strap - Fabric Screen	25	253460	Nut .375-16 Nylon Insert
9	782311	Front Strap - Fabric Screen	26	253177	Whiz Bolt .25-20 x .75 Truss
10	782361	Rear Strap - Fabric Screen	27	253176	Whiz Bolt .25-20 x .5 Truss
11	721331	Deflector – Grass	28	253025	Whiz Nut .25-20
12	645183	Inlet Tube	29	253173	Whiz Bolt .25-20 Hex
13	424398	Hose – Flex 6 x 44”	30	253440	Nut .25-20 Nylon Insert
14	280345	Clamp – Hose 6”	31	253203	Whiz Bolt .375-16 x 1
15	754101	Prop – Hard Top	32	253043	Whiz Nut .375-16
16	261279	Clevis Pin .312 x .75			

M241 WEIGHT KIT

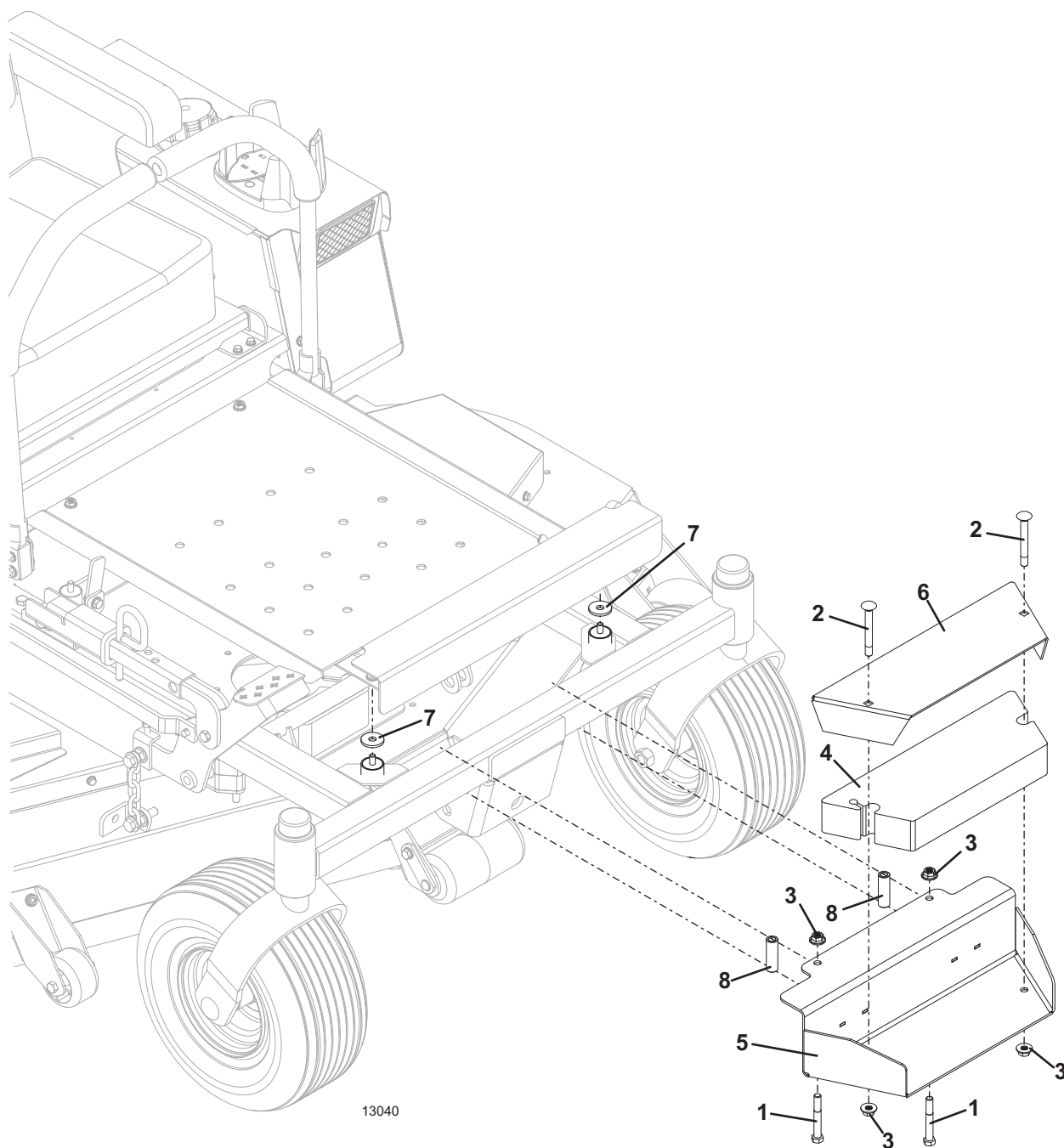
PART NO. 503956



Item No.	Order No.	Description	Item No.	Order No.	Description
	503956	Weight Mount Kit – M241			
1	243360	Bolt .375-16 x 2.75	5	643883	Weight Mount
2	247325	Carriage Bolt .375 x 5.5	6	729514	Weight Cover
3	253043	Whiz Nut .375-16	7	774020	Washer .406 x 1.25
4	323933	Counterweight – 34#	8	902272	Spacer

M248D/52D WEIGHT KIT

PART NO. 503955

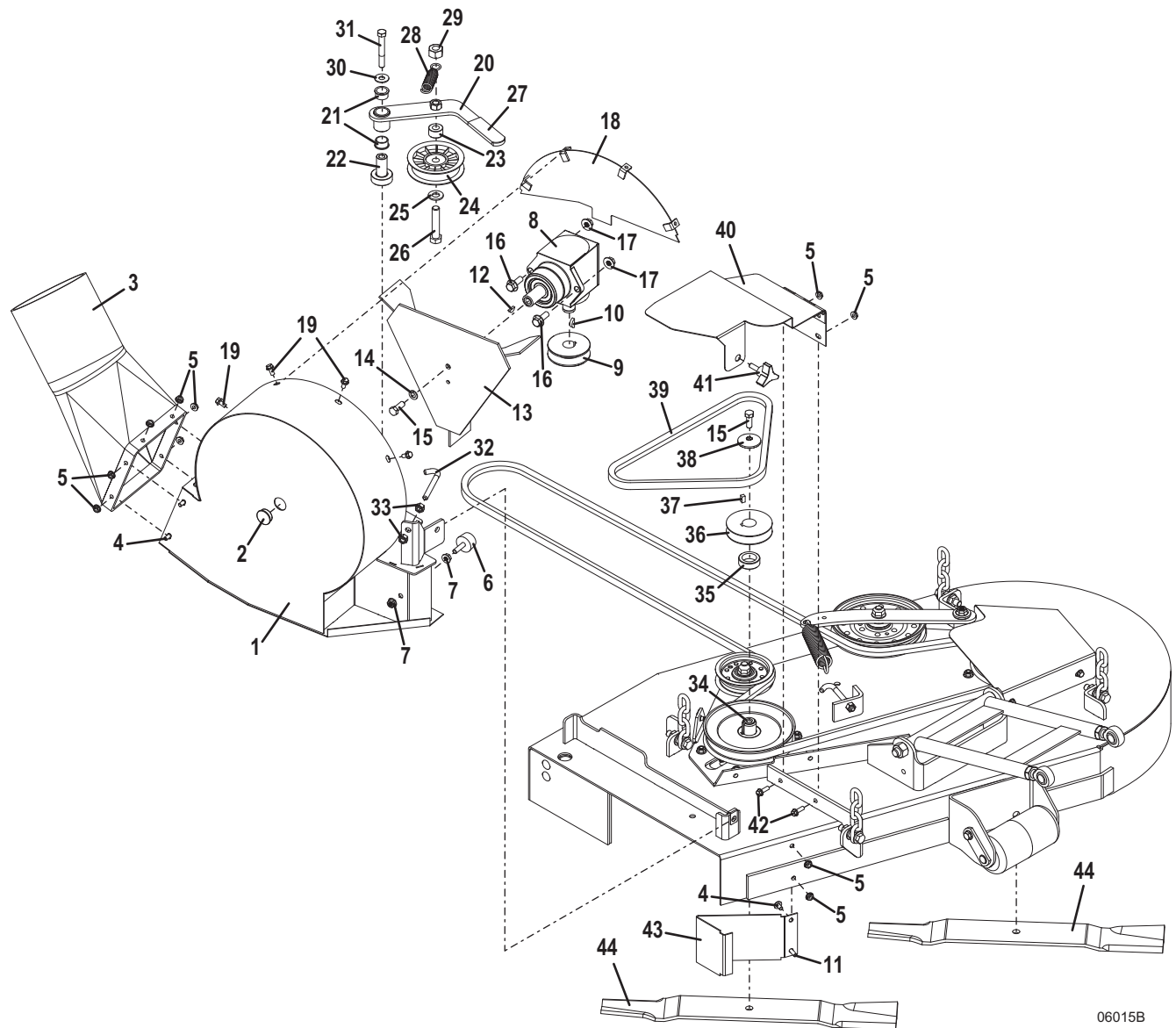


Item No.	Order No.	Description	Item No.	Order No.	Description
	503955	Weight Mount Kit – M248/52	5	643883	Weight Mount
1	243360	Bolt .375-16 x 2.75	6	729514	Weight Cover
2	247290	Carriage Bolt .375 x 3.25	7	774020	Washer .406 x 1.25
3	253043	Whiz Nut .375-16	8	902272	Spacer
4	323933	Counterweight – 34#			

13040

VACUUM AND DRIVE ASSEMBLY - M241

PART NO. 503179



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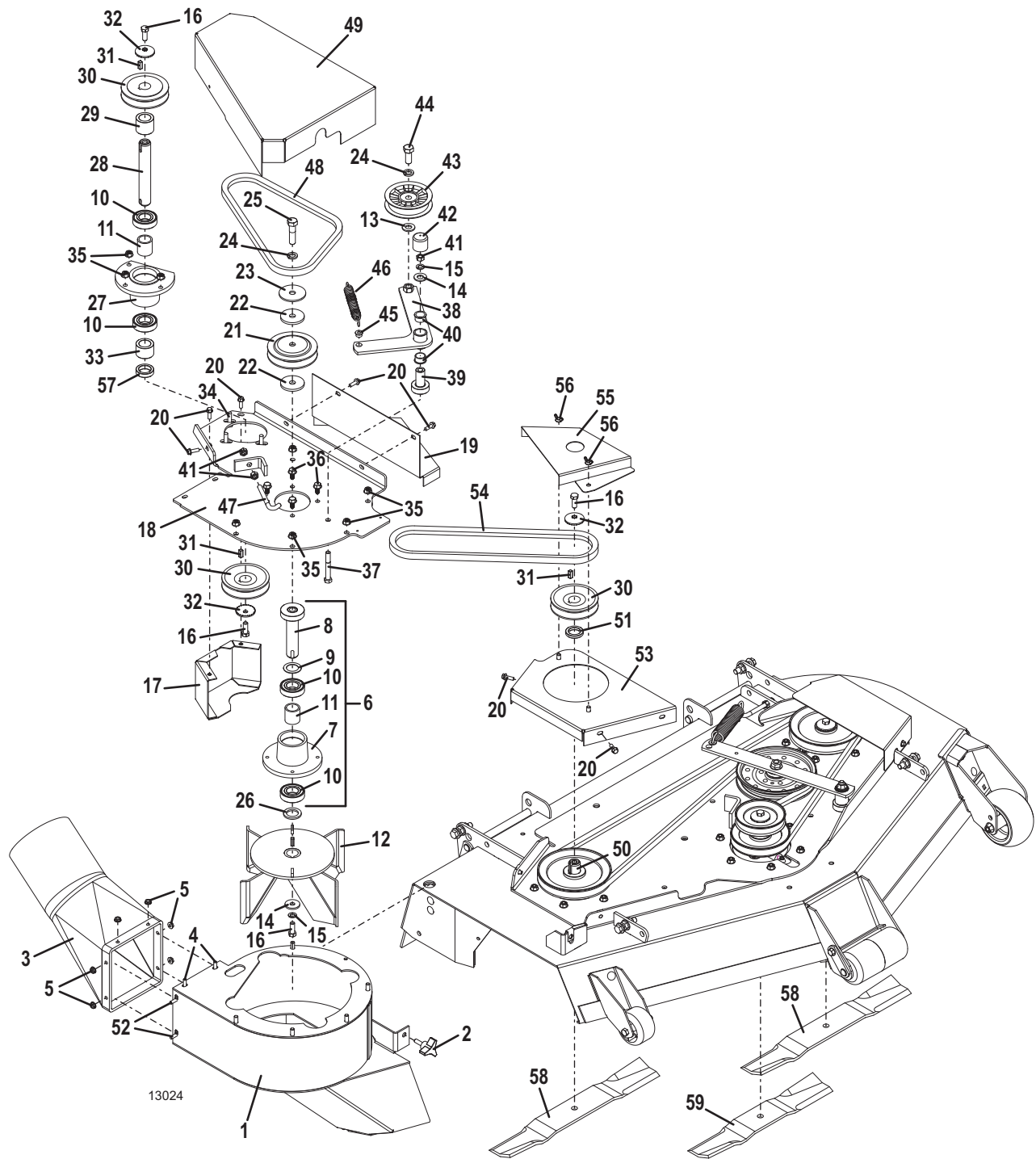
VACUUM AND DRIVE ASSEMBLY - M241

PART NO. 503179

Item No.	Order No.	Description	Item No.	Order No.	Description
1	643688	Vac Housing	22	121650	Bearing Pedestal
2	422075	Hole Plug – Black Plastic	23	902426	Spacer – Idler
3	833510	Hose Adapter Tube	24	393200	Idler 4"
4	253176	Whiz Bolt .25-20 x .5 Truss	25	257062	Washer .5 SAE
5	253025	Whiz Nut .25-20	26	243590	Bolt .5-13 x 2.5 Full Thread
6	424056	Bumper	27	422150	Handle Grip
7	253035	Whiz Nut .312-18	28	283819	Spring – Extension w/Swivel
8	390021	Gearbox – Rt. Angle CCW	29	253930	Lock Nut .5-13
9	415815	Sheave	30	257040	Washer .375
10	281833	Woodruff Key .187 x .75	31	243360	Bolt .375-16 x 2.75
11	253177	Whiz Bolt .25-20 x .75 Truss	32	730391	"J" Bolt
12	281828	Woodruff Key .156 x .625	33	254450	Nut .375-16
13	824180	Fan - Vac	34	604768	Spindle Shaft Assembly 5.625
14	257412	Lock Washer .375	35	282622	Spacer .5
15	243331	Bolt .375-24 x 1	36	414665	Sheave
16	253203	Whiz Bolt .375-16 x 1	37	281575	Square Key .25 x .5
17	253043	Whiz Nut .375-16	38	257041	Cupped Washer .375 x 1.562
18	643881	Housing Cover	39	382740	Belt
19	253173	Whiz Bolt .25-20 x .5 Hex	40	643882	Belt Shield
20	824477	Idler Assembly (includes items 21 & 22)	41	252821	Stud .312-18 x 1 – 3 Prong Head
21	121756	Bearing - Oilite	42	253175	Whiz Bolt .25-20 x .75 Hex
			43	720308	Baffle
			44	320242	Blade 21" - Medium Lift

VACUUM AND DRIVE ASSEMBLY - M248D/52D

PART NO. 503168 (M248D) & 503169 (M252D)



VACUUM AND DRIVE ASSEMBLY - M248D/52D

PART NO. 503168 (M248D) & 503169 (M252D)

Item No.	Order No.	Description	Item No.	Order No.	Description
1	644335	Housing - Blower	33	902645	Spacer - Lower
2	252821	Stud .312-18 x 1 - 3 Prong Head	34	253193	Whiz Bolt .312-18 x 1
3	833510	Hose Adapter Tube	35	253035	Whiz Nut .312-18
4	253177	Whiz Bolt .25-20 x .75 Truss	36	253191	Whiz Bolt .312-18 x .625
5	253025	Whiz Nut .25-20	37	243360	Bolt .375-16 x 2.75
6	604795	Vac Spindle Assembly - Fan (includes items 7 - 11)	38	824537	Idler Arm (includes items 39 & 40)
7	320522	Spindle Housing - Vac Fan	39	121650	Bearing Pedestal
8	604765	Spindle - Vac	40	121756	Oilite Bearing
9	257106	Washer 1 x 18 Ga.	41	254450	Nut .375-16
10	110080	Ball Bearing	42	422098	Vinyl Cap
11	903650	Spacer - Bearing	43	393200	Idler Pulley
12	824533	Fan	44	243565	Bolt .5-13 x 1.25
13	257062	Washer .5 SAE	45	422520	Nylon Bearing .625
14	257040	Washer .375	46	283820	Spring - Extension
15	257412	Lock Washer .375	47	730391	"J" Bolt - Idler Adjustment
16	243331	Bolt .375-24 x 1	48	382733	Belt
17	645766	Shield - Jack Drive	49	645767	Shield - Belt
18	645841	Top - Vacuum Blower	50	605771	Spindle Shaft Assembly
19	723511	Shield - Vac Drive Belt	51	282607	Spacer .25
20	253175	Whiz Bolt .25-20 x .75 Hex	52	253176	Whiz Bolt .25-20 x .5 Truss
21	415845	Sheave - Offset Hub	53	645584	Mount - Shield M248D
22	421200	Washer - Fiber		645583	Mount - Shield M252D
23	257061	Washer .5 x 2.25	54	382750	Belt
24	257432	Lock Washer .5	55	723512	Shield - Vac Drive
25	243581	Bolt .5-20 x 2	56	254443	Wing Nut .312-18
26	257104	Washer 1 x 14 Ga.	57	282615	Spacer .375
27	833169	Spindle Housing - Modified	58	320236	Blade 18" Medium Lift (M248D - 2 required) (M252D - 3 required)
28	882094	Shaft - Jack			
29	902648	Spacer - Upper			
30	414685	Sheave	59	320231	Blade 15" Medium Lift (M248D - 1 required)
31	281580	Square Key .25 x .690			
32	257041	Cupped Washer			