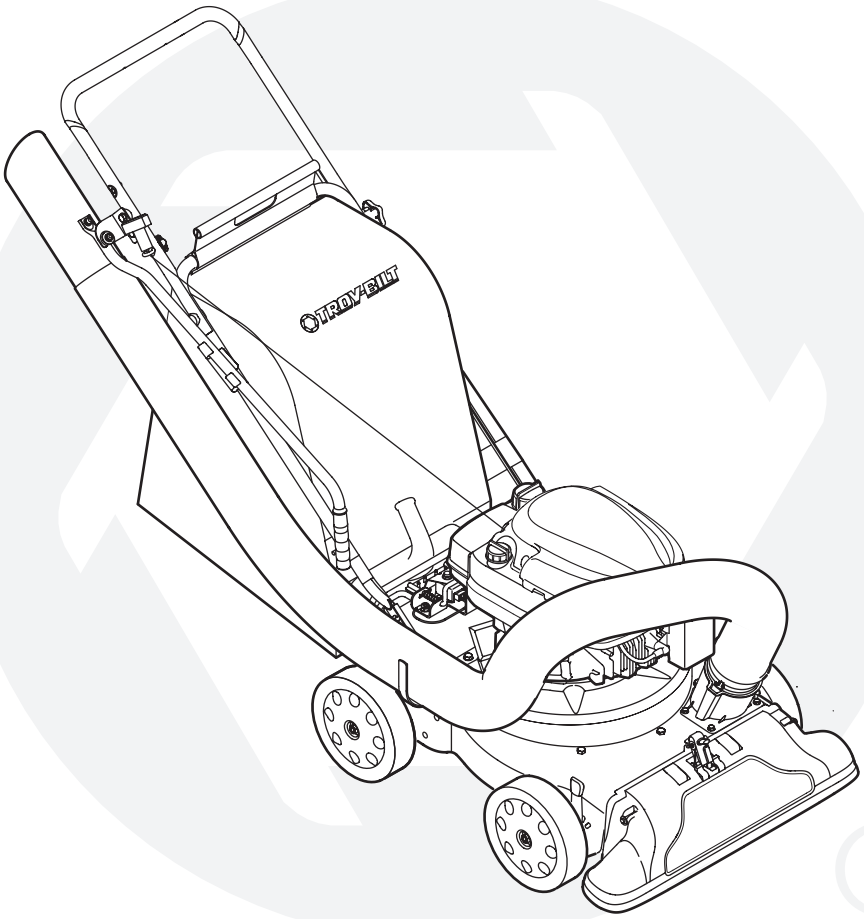
For Parts Call 606-678-9623 or 606-561-4983

Safety • Assembly • Operation • Maintenance • Troubleshooting • Parts Lists • Warranty

TROY-BILT®

OPERATOR'S MANUAL



Yard Vacuum/Chipper/Shredder with Vacuum/Hose
Model Series 060

IMPORTANT

READ SAFETY RULES AND INSTRUCTIONS CAREFULLY BEFORE OPERATION

Warning: This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator. In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest engine authorized service dealer or contact the service department, P.O. Box 361131 Cleveland, Ohio 44136-0019.

PRINTED IN U.S.A.

TROY BILT LLC, P.O. BOX 361131 CLEVELAND, OHIO 44136-0019

FORM NO. 769-00835C
5/24/2006

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This Operator's Manual is an important part of your new yard vacuum. It will help you assemble, prepare and maintain the unit for best performance. Please read and understand what it says.

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Finding and Recording Model Number

BEFORE YOU START ASSEMBLING
YOUR NEW EQUIPMENT,
please locate the model plate on the equipment and copy the information to the sample model plate provided to the right. You can locate the model plate by standing behind the unit and looking down at the frame below the engine. This information will be necessary to use the manufacturer's web site and/or obtain assistance from the Customer Support Department or an authorized service dealer.

TROY-BILT®
www.troybilt.com

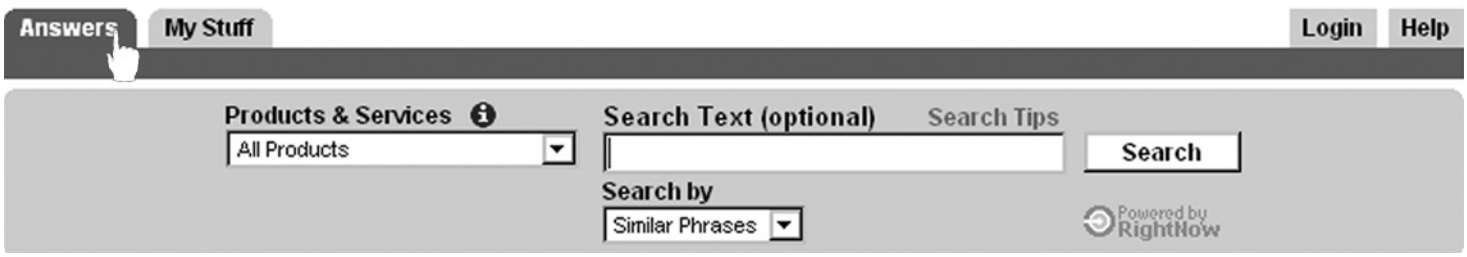
TROY-BILT LLC
P. O. BOX 361131
CLEVELAND, OH 44136
330-558-7220
1-800-520-5520

Customer Support

Please do *NOT* return the unit to the retailer from which it was purchased, without first contacting Customer Support.

If you have difficulty assembling this product or have any questions regarding the controls, operation, or maintenance of this unit, you can seek help from the experts. Choose from the options below:

1. Visit **troybilt.com**. Click on Customer Service at the bottom of the page.
2. Phone a **Customer Support Representative** at 1 (800) 520-5520.
3. The **engine manufacturer** is responsible for all engine-related issues with regards to performance, power-rating, specifications, warranty and service. Please refer to the engine manufacturer's Owner's/Operator's Manual, packed separately with your unit, for more information.



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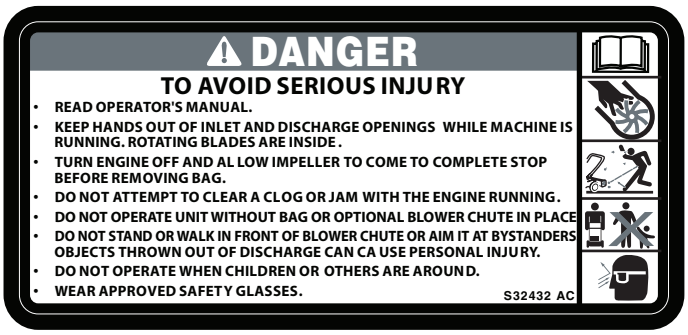

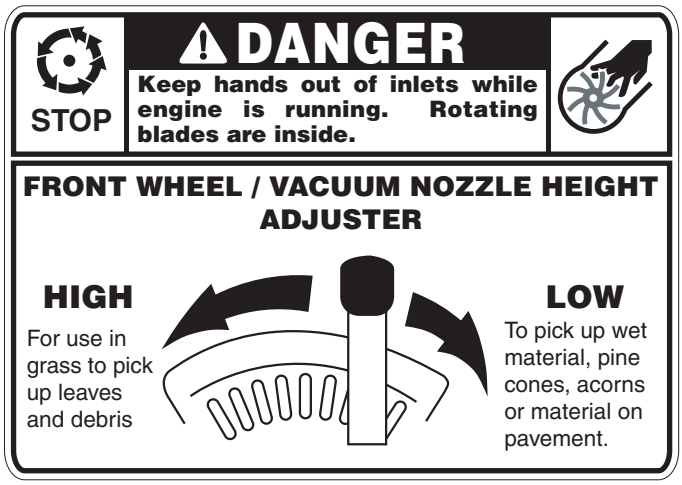

1

Safety Labels

WARNING

This symbol points out important safety instructions which, if not followed, could endanger the personal safety and/or property of yourself and others. Read and follow all instructions in this manual before attempting to operate this machine. Failure to comply with these instructions may result in personal injury. When you see this symbol.

HEED ITS WARNING!

Your Responsibility

Restrict the use of this power machine to persons who read, understand and follow the warnings and instructions in this manual and on the machine.

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2 Safe Operation Practices

WARNING

This symbol points out important safety instructions which, if not followed, could endanger the personal safety and/or property of yourself and others. Read and follow all instructions in this manual before attempting to operate this machine. Failure to comply with these instructions may result in personal injury. When you see this symbol.

HEED ITS WARNING!

Your Responsibility
Restrict the use of this power machine to persons who read, understand and follow the warnings and instructions in this manual and on the machine.

WARNING: Engine Exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to State of California to cause cancer and birth defects or other reproductive harm.

DANGER: This machine was built to be operated according to the rules for safe operation in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. This 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.

Training

1. Read, understand, and follow all instructions on the machine and in the manual(s) before attempting to assemble and operate. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
2. Be familiar with all controls and their proper operation. Know how to stop the machine and disengage them quickly.
3. Never allow children under 16 years old to operate this machine. Children 16 years old and over should read and understand the operation instructions and safety rules in this manual and should be trained and supervised by a parent.
4. Never allow adults to operate this machine without proper instruction.
5. Keep bystanders, helpers, pets, and children at least 75 feet from the machine while it is in operation. Stop machine if anyone enters the area.
6. Never run an engine indoors or in a poorly ventilated area. Engine exhaust contains carbon monoxide, an odorless and deadly gas.
7. Do not put hands and feet near rotating parts or in the feeding chambers and discharge opening. Contact with the rotating impeller can amputate fingers, hands, and feet.
8. Never attempt to unclog either the feed intake or discharge opening, remove or empty vacuum bag, or inspect and repair the machine while the engine is running. Shut the engine off and wait until all moving parts have come to a complete stop. Disconnect the spark plug wire and ground it against the engine.

Preparation

1. Thoroughly inspect the area where the equipment is to be used. Remove all rocks, bottles, cans, or other foreign objects which could be picked up or thrown and cause personal injury or damage to the machine.
2. Always wear safety glasses or safety goggles during operation or while performing an adjustment or repair, to protect eyes. Thrown objects which ricochet can cause serious injury to the eyes.
3. Wear sturdy, rough-soled work shoes and close-fitting slacks and shirts. Loose fitting clothes or jewelry can be caught in movable parts. Never operate this machine in bare feet or sandals. Wear leather work gloves when feeding material in the chipper chute.
4. Before starting, check all bolts and screws for proper tightness to be sure the machine is in safe working condition. Also, visually inspect machine for any damage at frequent intervals.
5. Maintain or replace safety and instructions labels, as necessary.
6. To avoid personal injury or property damage use extreme care in handling gasoline. Gasoline is extremely flammable and the vapors are explosive. Serious personal injury can occur when gasoline is spilled on yourself or your clothes which can ignite. Wash your skin and change clothes immediately.
   a. Use only an approved gasoline container.
   b. Extinguish all cigarettes, cigars, pipes, and other sources of ignition.
   c. Never fuel machine indoors.
   d. Never remove gas cap or add fuel while the engine is hot or running.
   e. Allow engine to cool at least two minutes before refueling.
   f. Never over fill fuel tank. Fill tank to no more than 1/2 inch below bottom of filler neck to provide space for fuel expansion.
   g. Replace gasoline cap and tighten securely.
   h. If gasoline is spilled, wipe it off the engine and equipment. Move machine to another area. Wait 5 minutes before starting the engine.
   i. Never store the machine or fuel container inside where there is an open flame, spark, or pilot light (e.g. furnace, water heater, space heater, clothes dryer, etc.).
   j. To reduce a fire hazard, keep machine free of grass, leaves, or other debris build-up. Clean up oil or fuel spillage and remove any fuel soaked debris.
   k. Allow machine to cool at least 5 minutes before storing.

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Operation

1. Do not put hands and feet near rotating parts or in the feeding chambers and discharge opening. Contact with the rotating impeller can amputate fingers, hands, and feet.
2. Before starting the machine, make sure the chipper chute, feed intake, and cutting chamber are empty and free of all debris.
3. Thoroughly inspect all material to be shredded and remove any metal, rocks, bottles, cans, or other foreign objects which could cause personal injury or damage to the machine.
4. If the impeller strikes a foreign object or if your machine should start making an unusual noise or vibration, immediately shut the engine off. Allow the impeller to come to a complete stop. Disconnect the spark plug wire, ground it against the engine and perform the following steps:
   a. Inspect for damage.
   b. Repair or replace any damaged parts.
   c. Check for any loose parts and tighten to assure continued safe operation.
5. Do not allow an accumulation of processed material to build up in the discharge area. This can prevent proper discharge and result in kickback of material through the feed opening.
6. Do not attempt to shred or chip material larger than specified on the machine or in this manual. Personal injury or machine damage could result.
7. Never attempt to unclog either the feed intake or discharge opening while the engine is running. Shut the engine off, wait until all moving parts have stopped, disconnect the spark plug wire and ground it against the engine before clearing debris.
8. Never operate without vacuum bag and discharge chute properly attached to the machine. Never empty or change vacuum bag while the engine is running. Zippered end of vacuum bag must be kept closed at all times during operation.
9. Never operate without either the inlet nozzle or optional hose attachment properly attached to the machine. Never attempt to attach or change either attachment while the engine is running.
10. Keep all guards, deflectors and safety devices in place and operating properly.
11. Keep your face and body back and to the side of the chipper chute while feeding material into the machine to avoid accidental kickback injuries.
12. Never operate this machine without good visibility or light. Always be sure of your footing and keep a firm hold on the handles.
13. Do not operate this machine on a gravel surface.
14. Do not operate this machine while under the influence of alcohol or drugs.
15. Muffler and engine become hot and can cause a burn. Do not touch.
16. Never pick up or carry machine while the engine is running.

Maintenance & Storage

1. Never tamper with safety devices. Check their proper operation regularly.
2. Check bolts and screws for proper tightness at frequent intervals to keep the machine in safe working condition. Also, visually inspect machine for any damage and repair, if needed.
3. Before cleaning, repairing, or inspecting, stop the engine and make certain the impeller and all moving parts have stopped. Disconnect the spark plug wire and ground it against the engine to prevent unintended starting.
4. Do not change the engine governor settings or overspeed the engine. The governor controls the maximum safe operating speed of the engine.
5. Maintain or replace safety and instruction labels, as necessary.
6. Follow this manual for safe loading, unloading, transporting, and storage of this machine.
7. Never store the machine or fuel container inside where there is an open flame, spark or pilot light such as a water heater, furnace, clothes dryer, etc.
8. Always refer to the operator's manual for proper instructions on off-season storage.
9. If the fuel tank has to be drained, do this outdoors.
10. Observe proper disposal laws and regulations for gas, oil, etc. to protect the environment.

Do not modify engine

To avoid serious injury or death, do not modify engine in any way. Tampering with the governor setting can lead to a runaway engine and cause it to operate at unsafe speeds. Never tamper with factory setting of engine governor.

Notice regarding Emissions

Engines which are certified to comply with California and federal EPA emission regulations for SORE (Small Off Road Equipment) are certified to operate on regular unleaded gasoline, and may include the following emission control systems: Engine Modification (EM) and Three Way Catalyst (TWC) if so equipped.

Your Responsibility

Restrict the use of this power machine to persons who read, understand and follow the warnings and instructions in this manual and on the machine.

2

Safe Operation Practices

WARNING

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Your Responsibility

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3

Setting Up Your Yard Vacuum

IMPORTANT
This unit is shipped without gasoline or oil in the engine. Be certain to service engine with gasoline and oil as instructed in the separate engine manual before operating your machine.

NOTE: Reference to right and left hand side of the Yard Vacuum is observed from the operating position.

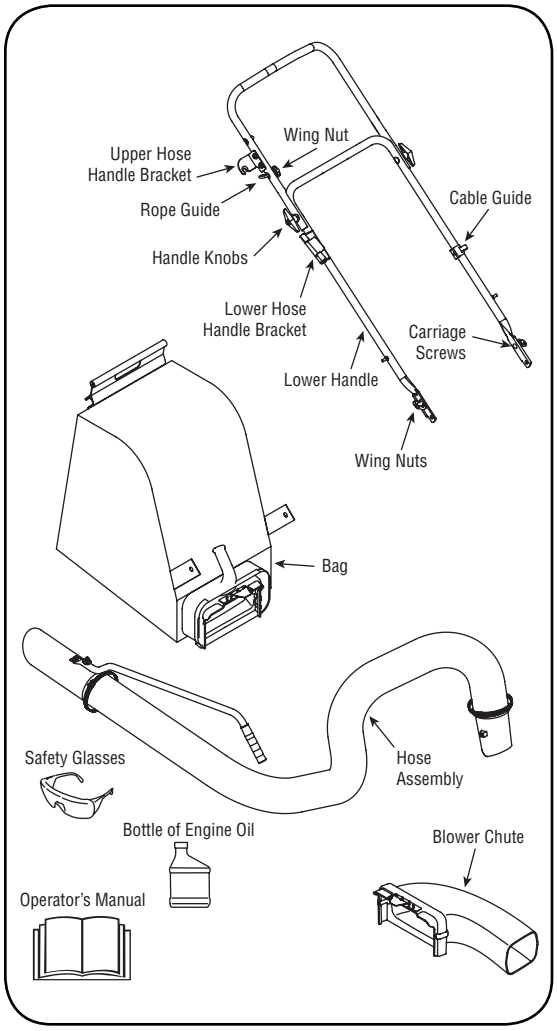

Figure 3-1

NOTE: This Operators Manual covers a range of product specifications for various models. Characteristics and features discussed and/or illustrated in this manual *may not* be applicable to all models. Troy-bilt reserves the right to change product specifications, designs and equipment without notice and without incurring obligation.

IMPORTANT: This unit is shipped without gasoline or oil in the engine. Be certain to service engine with gasoline and oil as instructed in the separate engine manual before operating your machine.

NOTE: Reference to right and left hand side of the Yard Vacuum is observed from the operating position.

Opening Carton

1. Cut each corner of the carton vertically from top to bottom.
2. Remove all loose parts.
3. Remove loose packing material.

Removing Unit From Carton

1. Lift unit from the rear to detach it from underlying carton material and roll unit out of carton.
2. Check carton thoroughly for any other loose parts.

NOTE: Make sure not to crimp cables while removing loose parts or the entire unit from the carton.

Loose Parts In Carton (See Figure 3-1)

a. Upper and Lower Handle
b. Hose Assembly
c. Safety Glasses
d. Engine Oil *(May be located in bag)*
e. Bag
f. Blower Chute *(If Equipped)*
g. Operator's Manual

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Attaching The Handle

1. Remove the hairpin clips from the handle brackets and remove the carriage screws and wing nuts from the lower handle.
   a. Place the bottom holes in lower handle over the pins on the handle brackets and secure with hairpin clips. See Figure 3-2.
   b. Insert carriage screws through upper hole in lower handle from the inside and secure with wing nuts. See Figure 3-2.
2. a. Unfold the upper handle until it aligns with lower handle. Make sure the rope guide is on the right side of upper handle. See Figure 3-3.

IMPORTANT: Make sure the cables are routed outside the lower handle. Also, do not crimp the cables while lifting up the handles.

   b. Secure the two handles by tightening the handle knobs *(carriage bolts must be seated properly into the handle)*. See Figure 3-3.
3. Pull the two cable ties attached to the cables tight approximately 8 inches from each cable end and place the cables into the cable guide.
4. Loosen the wing nut that secures the rope guide to the right side of upper handle.
   a. Pull the starter rope out of the engine slowly. See Figure 3-4.
   b. Slip the starter rope into the rope guide. Tighten the wing nut. See Figure 3-4.

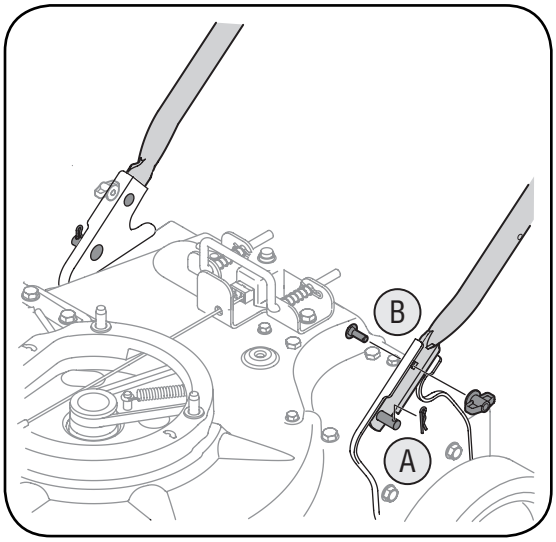

Figure 3-2

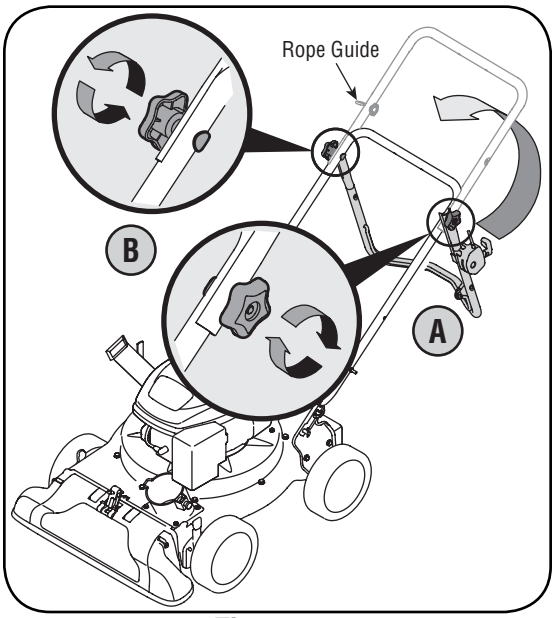

Figure 3-3

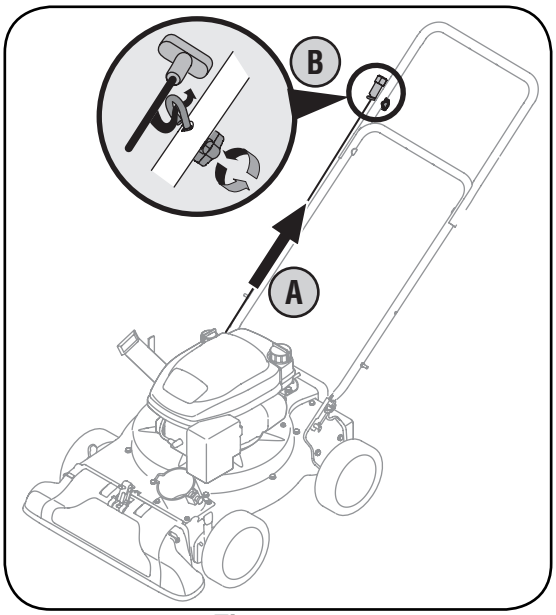

Figure 3-4

3

Setting Up Your Yard Vacuum

IMPORTANT
Make sure the cables are routed outside the lower handle. Also, do not crimp the cables while lifting up the handles.

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3

Setting Up Your Yard Vacuum

NOTE: The bag/chute switch button attached to the mounting bracket must be fully depressed by the tip of front tab on bag handle when securing the bag or engine will not start.

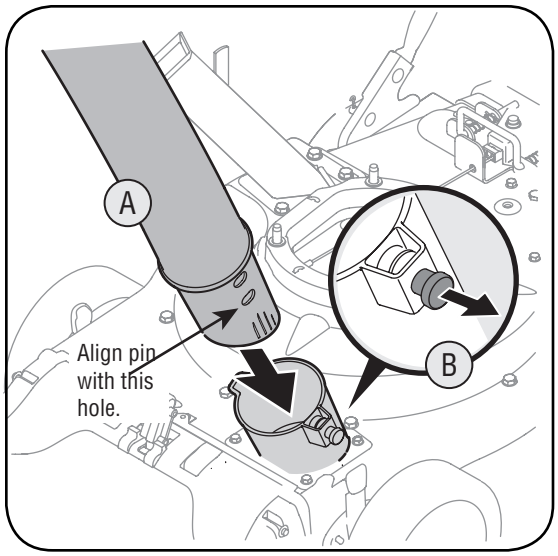

Figure 3-5

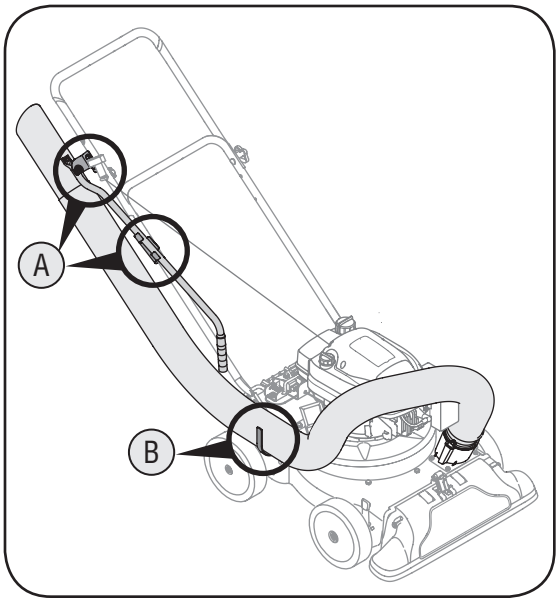

Figure 3-6

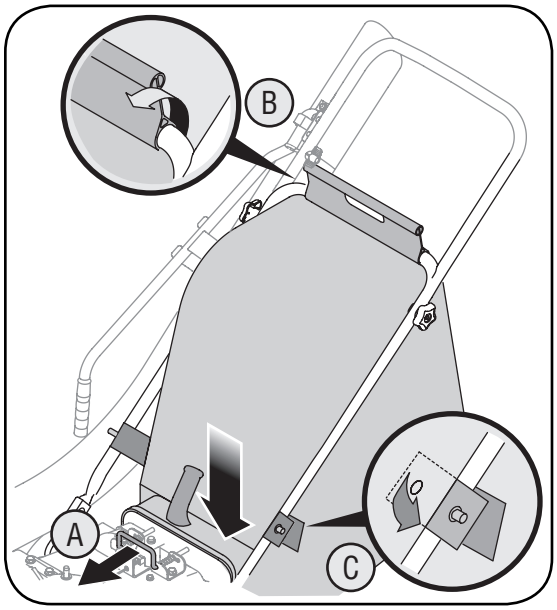

Figure 3-7

Attaching The Hose Assembly

5. a. Slide hose adapter of hose assembly into the base adapter located on the left front of the Yard Vacuum. See Figure 3-5.
   b. Pull spring loaded pin out on the base and align pin with the first hole *(closest to the end of the tube)* in the hose adapter.
   c. Release the pin to lock the hose in place.
6. a. Snap the hose handle first into the upper hose handle bracket and then into the lower hose handle bracket. See Figure 3-6.
   b. Lay hose tubing on hanger bracket next to chipper chute.

Attaching The Bag

7. Grasp bag handle with one hand and slide locking rod on mounting bracket with other hand toward engine. Use the end of mounting bracket as leverage when sliding the locking rod.
   a. Slip bag over the rim of the discharge opening and release locking rod to secure bag in place. See Figure 3-7.
   b. Snap bag clip to the top of the lower handle.
   c. Place the lower straps on the bag over the top of lower handle, hooking them on the studs. See Figure 3-7.

NOTE: The bag/chute switch button attached to the mounting bracket must be fully depressed by the tip of front tab on bag handle when securing the bag or engine will not start.

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Attaching The Blower Chute

(If Equipped)

NOTE: The bag must be removed before installing the blower chute.

8. a. Grasp blower chute with one hand and slide locking rod on mounting bracket with other hand toward engine. Use the end of mounting bracket as leverage when sliding the locking rod. See Figure 3-8.
   b. Slip blower chute over rim of discharge opening and release locking rod to secure chute in place.
   c. Raise the nozzle height to the highest setting when using the blower chute. Refer to nozzle height adjustment in the MAINTENANCE section on page 16.

NOTE: The bag/chute switch button attached to the mounting bracket must be fully depressed by the tip of front tab on the blower chute or engine will not start.

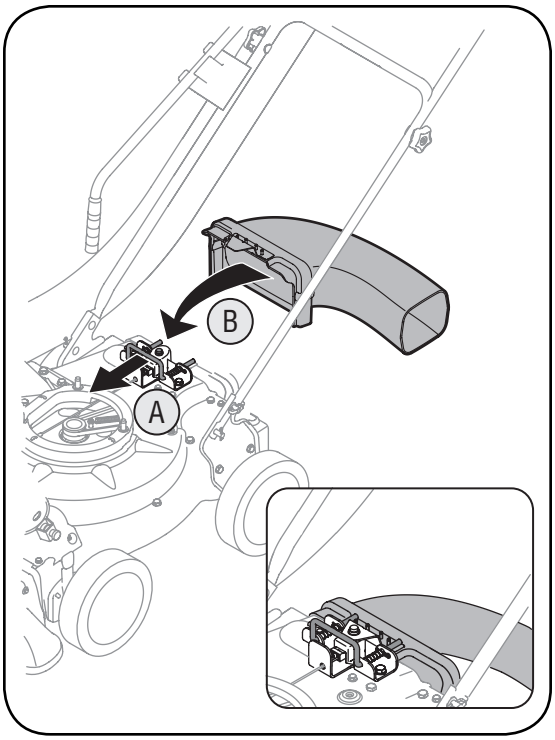

Figure 3-8

3

Setting Up Your Yard Vacuum

NOTE: The bag must be removed before installing the blower chute.

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4

Operating Your Yard Vacuum

WARNING

The operation of any chipper shredder can result in foreign objects being thrown into the eyes, which can damage your eyes severely. Always wear the safety glasses provided with this unit or eye shields while operating or while performing any adjustments or repairs.

Know Your Yard Vacuum

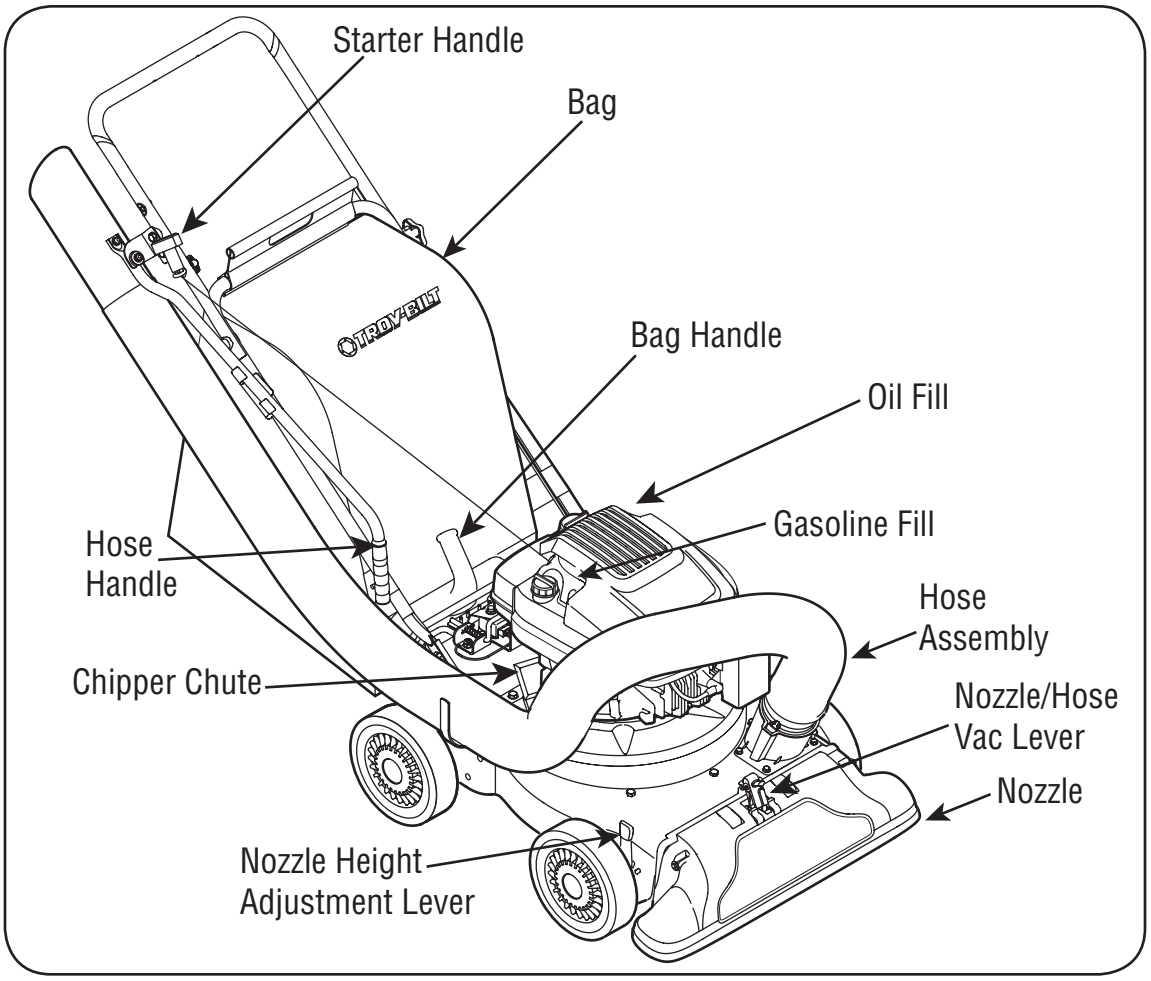

Figure 4-1

Now that you have set up your yard vacuum for operation, get acquainted with its controls and features. These are described below and illustrated on this page. This knowledge will allow you to use your new equipment to its fullest potential.

WARNING: The operation of any chipper shredder can result in foreign objects being thrown into the eyes, which can damage your eyes severely. Always wear the safety glasses provided with this unit or eye shields while operating or while performing any adjustments or repairs.

Chipper Chute
Allows twigs and small branches up to 1-1/2" in diameter to be fed into the impeller for chipping. See Figure 4-1.

Drive Control
Located on the underside of the upper handle, the drive control is used to engage/disengage wheels. Fully squeeze the drive control against the upper handle to engage the wheels; release to disengage. (DO NOT slip clutch).

Speed Control
Located on the left side of the upper handle, the speed control is used to select the forward speed of the yard vacuum.

IMPORTANT: Move the speed control only when the engine is running. Changing the speed control setting with the engine off can damage the yard vacuum.

Nozzle Height Adjustment Lever
Used to adjust the nozzle ground clearance ranging approximately from 5/8" to 4 1/8". See Figure 4-1.

Throttle Control Lever (Not Shown)
The throttle control lever is located on the engine. It controls the engine's speed and stops the engine. See separate engine manual packed with unit for details.

Engine Controls
See the separate engine manual for the location and function of the controls on the engine.

Nozzle
Yard waste such as leaves or pine needles can be vacuumed up through the nozzle for shredding.

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Hose Assembly
Used as an alternative to the nozzle to vacuum yard waste such as leaves or pine needles in hard to reach places. See Figure 4-1.

Nozzle/ Hose Vac Lever
The nozzle/hose vac handle is located on top of the nozzle. Use it to switch vacuum suction between the nozzle and the hose assembly.

Hose Handle
Used to guide hose assembly when vacuuming.

Bag Handle
Used to grasp bag in order to assist in attaching, removing, and emptying bag. See Figure 4-1.

Bag
Collects shredded material fed through the chipper chute or vacuumed through the nozzle or hose.

Blower Chute
When attached to unit, the blower chute is used to blow or scatter yard waste such as leaves, pine needle, or small twigs across yard.

WARNING: The operation of the Yard Vacuum can result in foreign objects being thrown into the eyes, which can damage your eyes severely. Always wear the safety glasses provided with this unit or eye shields before chipping or blowing and while performing any adjustments or repairs.

Gas And Oil Fill-Up
Service the engine with gasoline and oil as instructed in the separate engine manual packed with your Yard Vacuum. Read instructions carefully.

WARNING: Never fill fuel tank indoors with engine running or until the engine has been allowed to cool for at least two minutes after running.

Starting Engine
1. Attach spark plug wire to spark plug. Make certain the metal cap on the end of the spark plug is fastened securely over the metal tip on the spark plug.
2. Make sure safety switch wire is connected to engine and properly grounded.
3. **Engines with choke lever:**

   Move choke lever on engine to CHOKE position. (A warm engine may not require choking).

   Engines with primer:

   Prime engine as instructed in separate engine manual.
4. The throttle control is located on the engine. Move engine throttle control lever to FAST or ON position.
5. Stand behind unit, grasp starter handle and pull rope out slowly until engine reaches start of compression cycle (rope will pull slightly harder at this point).
6. Pull rope with a rapid, continuous, full arm stroke. Keep a firm grip on starter handle. Let rope rewind slowly.
7. Repeat previous steps until engine fires. When engine starts, move choke control (if equipped) gradually to RUN position.

WARNING: Never run the engine indoors or in a poorly ventilated area. Engine exhaust contains carbon monoxide, an odorless and deadly gas.

Stopping Engine
1. Move throttle control lever to STOP or OFF position.
2. Disconnect spark plug wire from spark plug and ground against the engine.

4

Operating Your Yard Vacuum

WARNING

Never fill fuel tank indoors with engine running or until the engine has been allowed to cool for at least two minutes after running.

Never run the engine indoors or in a poorly ventilated area. Engine exhaust contains carbon monoxide, an odorless and deadly gas.

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4

Operating Your Yard Vacuum

IMPORTANT
Move the speed control only when the engine is running. Changing the speed control setting with the engine off can damage the yard vacuum.

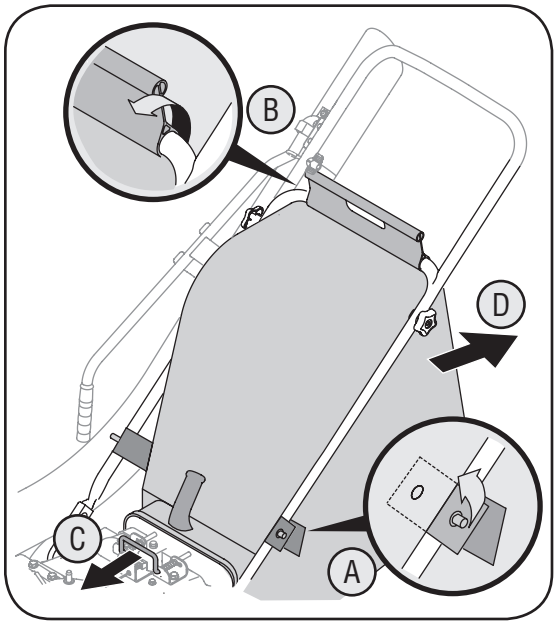

Figure 4-2

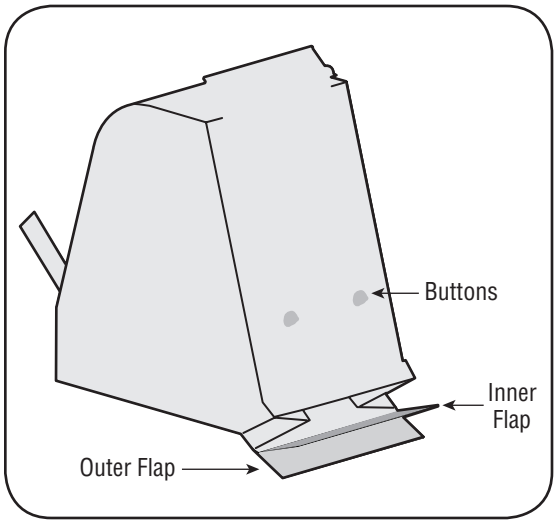

Figure 4-3

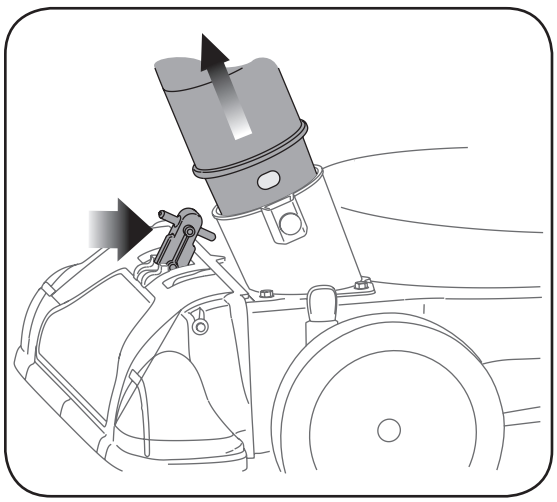

Figure 4-4

To Empty Bag

1. a. Unhook bag straps from the lower handle.
   b. Unsnap bag clip from the top of lower handle. See Figure 4-2.
   c. Grasp bag handle with one hand and pull lock rod on mounting bracket with other hand toward engine to release.
   d. Lift bag off back of unit.
2. Twist the two buttons on the back of the bag to unlock and empty contents. See Figure 4-3. Hold bag handle and bag clip while emptying the contents.
3. Compress bag opening and fold inner flap over opening.
4. Fold outer flap over inner flap and insert buttons on the bag through metal outlets. See Figure 4-3.
5. Twist the buttons to lock bag. Place bag back onto unit as instructed on page 8.

To Remove Blower Chute

1. Grasp blower chute with one hand and pull lock rod on mounting bracket with other hand toward engine to release. Refer to Figure 8 on page 9.
2. Remove blower chute from rim of the discharge opening.

Using The Nozzle Vacuum

1. Place nozzle/hose vac lever in the top position on the nozzle to vacuum through nozzle. See Figure 4-4.
2. The spring loaded pin must be in the first hole (closest to the end of the tube) of the hose adapter to operate the nozzle vac.
3. Place both hands on top of the upper handle and fully lift the drive control against the upper handle to propel the unit over yard.
4. Use the speed control to choose either the high or low speed. The speed control may be moved either while the unit is propelling or before engaging the wheels.

IMPORTANT: Move the speed control only when the engine is running. Changing the speed control setting with the engine off can damage the yard vacuum.

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Yard waste such as leaves and pine needles can be vacuumed up through the nozzle for shredding. After material has been shredded by the flail blades on the impeller assembly, it will be discharged into catcher bag or through blower chute. Do not attempt to shred or chip any material other than vegetation found in a normal yard (i.e. branches, leaves, twigs, etc.) Avoid fibrous plants such as tomato vines until they are thoroughly dried out. Materials such as stalks or heavy branches up to 1-1/2" in diameter may be fed into the chipper chute.

WARNING: Do not attempt to shred, chip, or vacuum any material larger than specified on the machine or in this manual. Personal injury or damage to the machine could result.

IMPORTANT: The flail screen is located inside the housing in the discharge area. If the flail screen becomes clogged, remove and clean as instructed in the Maintenance section on page 16. For best performance, it is also important to keep the chipper blade sharp.

WARNING: Do not at any time make any adjustments without first stopping engine and disconnecting spark plug wire.

Using The Hose Assembly

1. Place nozzle/hose vac handle in the bottom position on the nozzle to redirect vacuum to the hose assembly. See Figure 4-5.
2. The spring loaded pin must be in the second hole of the hose adapter to operate the hose assembly.
3. Unhook the hose from upper handle bracket and grasp the hose handle to guide while vacuuming yard waste such as leaves or pine needles in hard to reach places.

Nozzle Height Adjustment

The nozzle can be adjusted to any six positions, ranging from 5/8" to 4 1/8" ground clearance. The nozzle height has to be adjusted according to yard conditions.

1. Depress nozzle height adjustment lever towards wheel. See Figure 4-6.
2. Move the height adjustment lever forward or backward to adjust the nozzle upwards or downwards. Make sure both levers are in the same position.
3. Release lever towards deck.

NOTE: In general, raise the nozzle height to vacuum a thick layer of leaves or to operate with the blower chute. Lower the nozzle height for smoother surfaces.

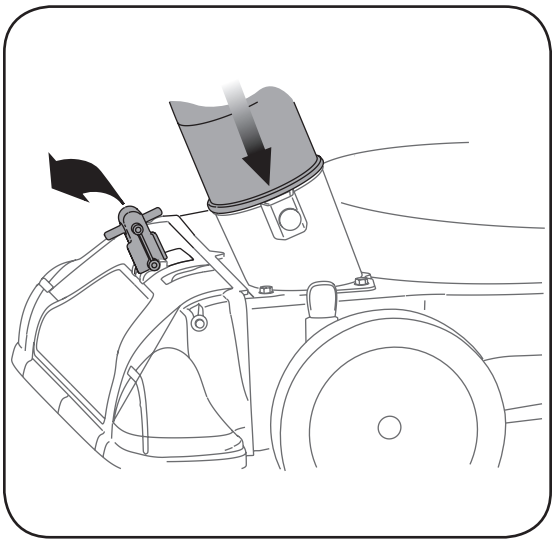

Figure 4-5

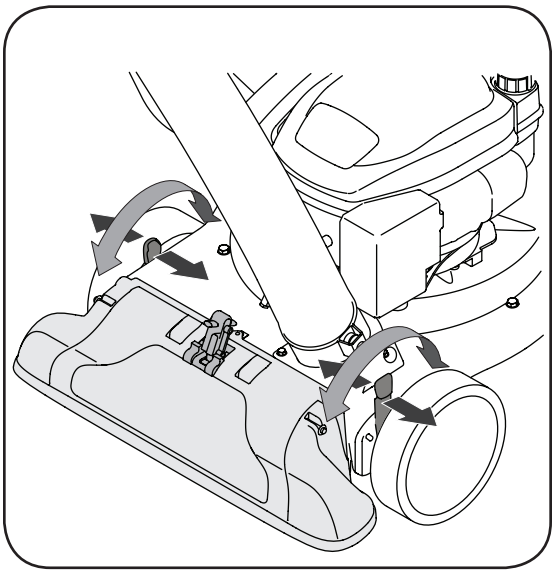

Figure 4-6

4

Operating Your Yard Vacuum

WARNING

Do not attempt to shred, chip, or vacuum any material larger than specified on the machine or in this manual. Personal injury or damage to the machine could result.

Do not at any time make any adjustments without first stopping engine and disconnecting spark plug wire.

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5

Maintaining Your Yard Vacuum

WARNING

Always stop engine, disconnect spark plug, and ground against engine before cleaning, lubricating or doing any kind of maintenance on your machine.

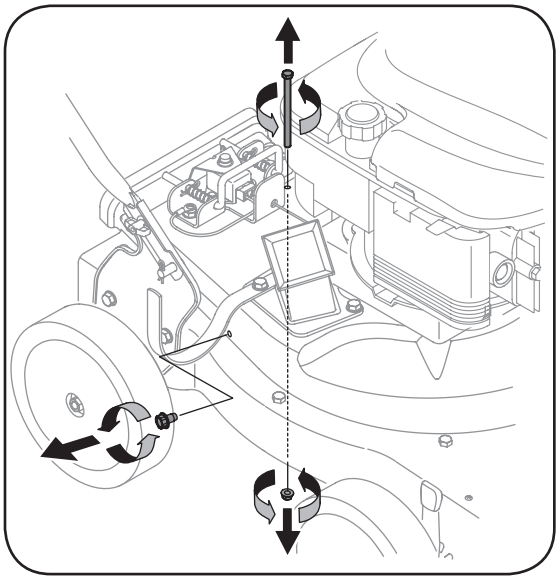

Figure 5-1

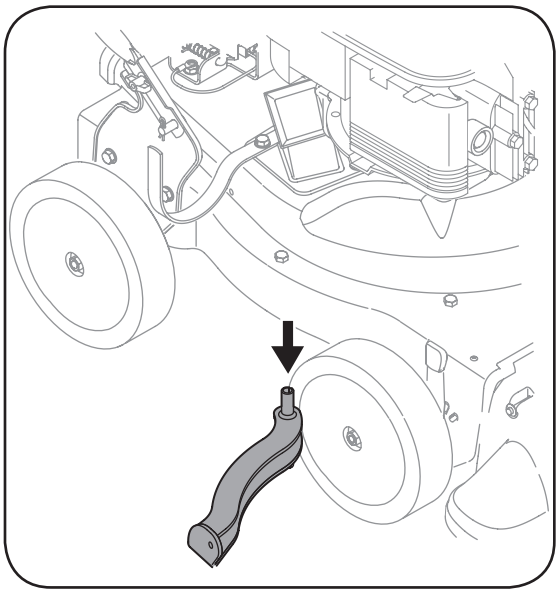

Figure 5-2

WARNING: Always stop engine, disconnect spark plug, and ground against engine before cleaning, lubricating or doing any kind of maintenance on your machine.

Lubrication

1. **Wheels**: Lubricate each wheel shoulder screw (rear wheel) and pivot arm axle (front wheel) once a season with light oil. See Figure 5-3.
2. **Nozzle height adjustment levers**: Lubricate the pivot points of the nozzle height adjustment levers once a season with light oil. Refer to Figure 7.
3. **Locking Rod**: Lubricate the locking rod with light oil to ease the application of attaching on or removing bag. Refer to Figure 6.
4. **Nozzle/Hose Vac Lever**: Lubricate the nozzle/hose vac lever on top of nozzle once a season with light oil. Refer to Figure 4-1.
5. **Engine**: Follow the separate engine manual packed with your unit for lubrication instructions.

Engine Care

Refer to the Maintenance section of the Briggs & Stratton Owner/Operator manual packed with your unit. Read and follow instructions carefully.

1. Check **engine oil level** before each use as instructed in the separate engine manual.
2. Clean **air cleaner's precleaner** every 25 hours under normal conditions. Clean every few hours under extremely dusty conditions. To service the air cleaner, refer to the separate engine manual.
3. The **spark plug** should be cleaned and the gap reset once a season. Refer to the separate engine manual for correct plug type and gap specifications.

Removing The Flail Screen

If the discharge area becomes clogged, remove the flail screen and clean area as follows:

1. Stop the engine and make certain the Yard Vacuum has come to a complete stop.
2. Disconnect and ground the spark plug wire to the retaining post.
3. Remove the bag from the unit as instructed in the OPERATING YOUR YARD VACUUM section to obtain access to flail screen.
4. Remove self-tapping screw on right side of unit that attaches to the fail screen. It may be necessary to remove the hose bracket hanger to get access to the hex screw. See Figure 5-1.
5. Remove hex screw on top of rear housing mounting bracket and the flange lock nut that secures flail screen. See Figure 5-1.
6. Remove and clean the screen by scraping or washing with water. See Figure 5-2.
7. Reinstall the flail screen.

Sharpening Or Replacing Chipper Blade

Because the engine on this unit has a tapered crankshaft, a special impeller tool (part number 753-0900) is required to remove the impeller assembly. For further assistance, contact your local service dealer.

NOTE: When tipping the unit, empty the fuel tank and keep spark plug side up.

1. Disconnect and ground the spark plug wire to retaining post.
2. Remove hose assembly and bag assembly.

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3. Remove the front hubcaps, flange lock nuts, front wheels, and wave washers that attach to the pivot arm assemblies. See Figure 5-3.
4. Remove the shoulder screws, thrust and bell washers that go through the pivot arms to the front support brace. The front support brace and lock nut can be removed at this time as well. See Figure 5-3.
5. Remove the three screws on the upper housing that secure the nozzle cover and the nine screws that secure the lower housing to the upper housing. See Figure 5-4.
6. Remove flange lock nut that secures flail screen to the lower housing. The flail screen does not have to be removed. Refer to Figure 5-1.
7. Remove the hex bolt, lock washer, and flat washer that secure the impeller assembly to the crankshaft. See Figure 5-5.
8. Apply lubricant to the threads of impeller removal tool and then thread the tool into the crankshaft. Stop when the impeller assembly can move on the crankshaft.
9. Remove the impeller assembly from the crankshaft. Unthread the impeller removal tool from the impeller assembly.
10. Remove the blade using a 3/16" allen wrench on the outside of the blade and 1/2" wrench on the impeller assembly.
11. Replace or sharpen chipper blade. The blade can be sharpened with a file or on a grinding wheel.

WARNING: The chipper blade is sharp. When sharpening blade, wear leather work gloves to protect your hands and follow the original angle of grind.

12. Reassemble by performing the previous steps in the opposite order and manner of removal.

IMPORTANT: Make certain chipper blade is reassembled with the sharp edge facing upward. Tighten blade screws to between 210 in.-lbs. and 250 in.-lbs and the impeller bolt to between 375 in.-lbs. and 425 in.-lbs.

Storing Your Yard Vacuum

1. Clean the equipment thoroughly.
2. Wipe equipment with an oiled rag to prevent rust.
3. Refer to engine manual for correct engine storage instructions.
4. Store unit in a clean, dry area. Do not store next to corrosive materials such as fertilizer.

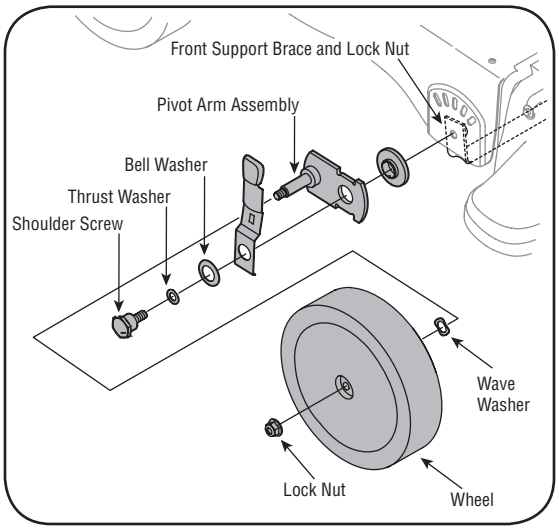

Figure 5-3

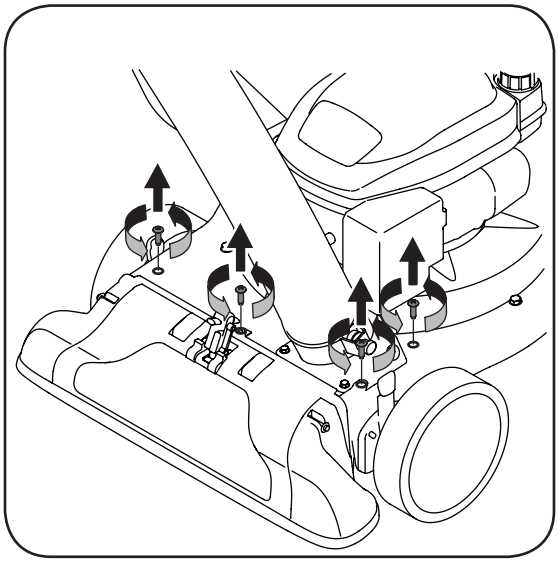

Figure 5-4

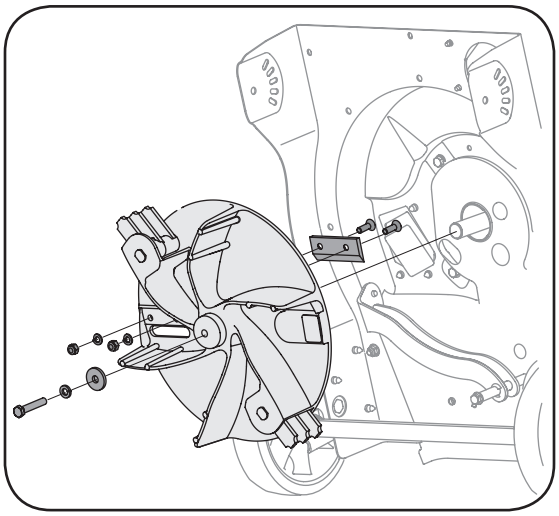

Figure 5-5

5

Maintaining Your Yard Vacuum

WARNING

The chipper blade is sharp. When sharpening blade, wear leather work gloves to protect your hands and follow the original angle of grind.

IMPORTANT

Make certain chipper blade is reassembled with the sharp edge facing upward. Tighten blade screws to between 210 in.-lbs. and 250 in.-lbs. and the impeller bolt to between 375 in.-lbs. and 425 in.-lbs.

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6

Trouble Shooting

For repairs beyond the minor adjustments listed here, contact an authorized service dealer.

Problem	Cause	Remedy
Engine fails to start	1. Throttle lever not in correct starting position. 2. Spark plug wire disconnected. 3. Choke not in CHOKE position (if equipped). 4. Fuel tank empty or stale fuel. 5. Engine not primed (if equipped). 6. Faulty spark plug. 7. Safety switch not depressed. 8. Safety switch wire is not connected to engine or not properly grounded.	1. Move throttle lever to FAST or START position. 2. Connect wire to spark plug. 3. Move choke lever to CHOKE position. 4. Fill tank with clean, fresh gasoline. 5. Prime engine as instructed in Engine Manual. 6. Clean, adjust gap, or replace. 7. Safety switch must be depressed by the front tab on the bag handle when securing the bag. 8. Connect safety switch wire to engine connector and ground to mounting bracket.
Engine runs erratic	1. Spark plug wire loose. 2. Unit running on CHOKE (if equipped). 3. Blocked fuel line or stale fuel. 4. Low engine RPM. 5. Water or dirt in fuel system. 6. Dirty air cleaner. 7. Carburetor out of adjustment.	1. Connect and tighten spark plug wire. 2. Move choke lever to OFF position. 3. Clean fuel line; fill tank with clean, fresh gasoline. 4. Always run engine at full throttle. 5. Drain fuel tank. Refill with fresh fuel. 6. Refer to engine manual. 7. See authorized service dealer.
Engine overheats	1. Engine oil level low. 2. Dirty air cleaner. 3. Carburetor not adjusted properly.	1. Fill crankcase with proper oil. 2. Refer to engine manual. 3. See authorized service dealer.
Occasional skips (hesitates) at high speed	1. Spark plug gap too close. 2. Carburetor idle mixture adjustment improperly set.	1. Adjust gap to .030”. 2. See authorized service dealer.
Excessive Vibration	1. Loose parts or damaged impeller.	1. See authorized service dealer.
Unit does not discharge	1. Discharge area clogged. 2. Foreign object lodged in impeller. 3. Low engine RPM. 4. Vacuum bag is full.	1. Stop engine immediately and disconnect spark plug wire. Clean flail screen and inside of discharge opening. 2. Stop engine and disconnect spark plug wire. Remove lodged object. 3. Always run engine at full throttle. 4. Empty bag.
Rate of discharge slows considerably or composition of discharged material changes	1. Low engine RPM. 2. Chipper blade dull.	1. Always run engine at full throttle. 2. Replace chipper blade or see your authorized service dealer.

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For Parts Call 606-678-9623 or 606-561-4983

NOTES:

Use this page to make notes and write down important information.

For parts and/or accessories please call 1-866-840-6483, or 1-330-558-7220.

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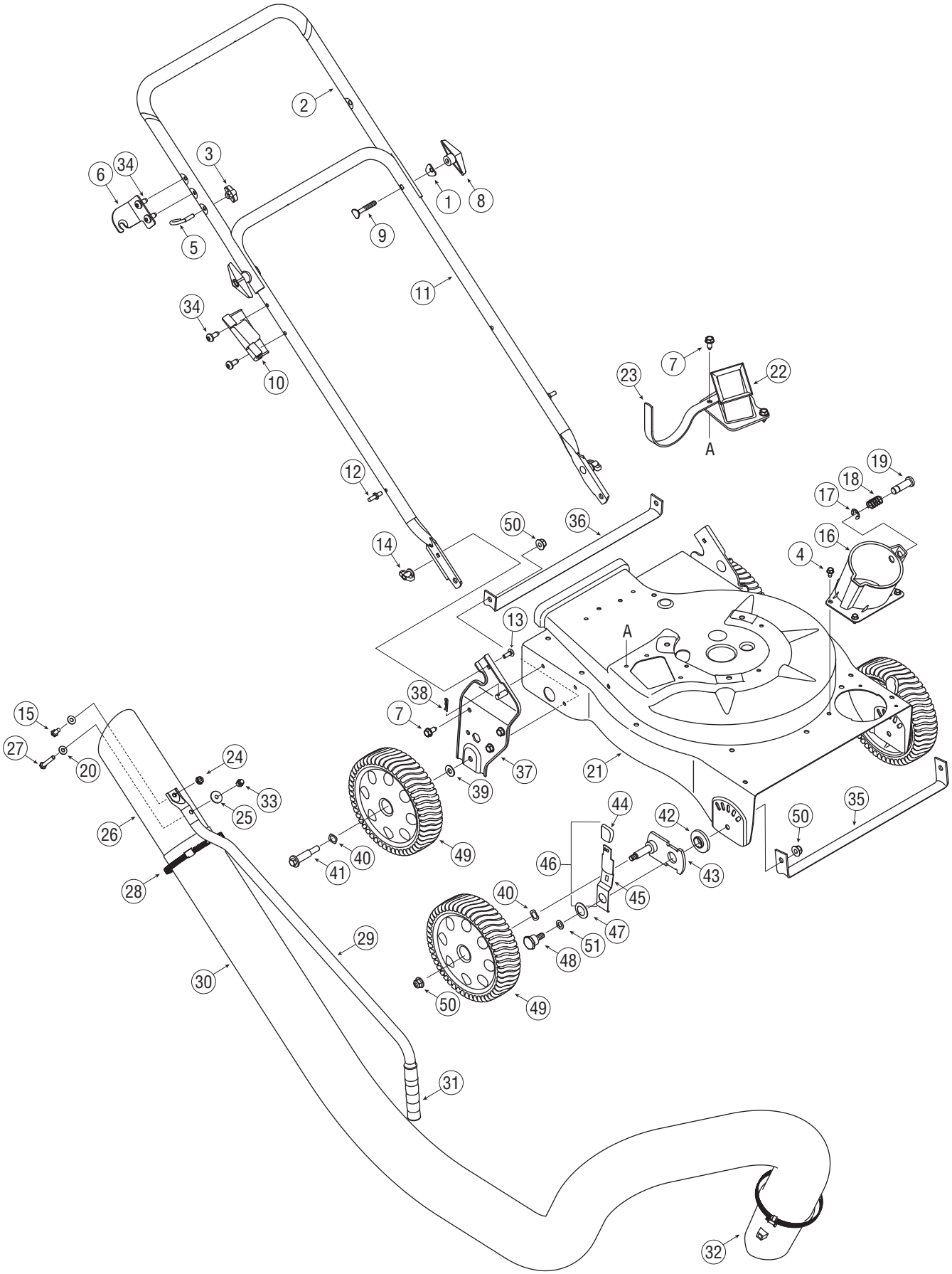
Model Series 060



For Parts Call 606-678-9623 or 606-561-4983

Ref.	Part No.	Description
1.	736-0451	Saddle Washer,.320 x.93
2.	749-04172	Upper Handle
3.	720-0279	Knob
4.	710-0599	Screw, 1/4-20 x.500
5.	710-1205	Eye Bolt
6.	781-1056	Upper Handle Bracket
7.	710-0726	Hex Cap Screw 5/16-12 x.750
8.	720-0241	Handle Knob 5/16-18
9.	710-1174	Carriage Bolt
10.	731-04911	Nozzle Handle Clip
11.	749-04165	Lower Handle
12.	711-1293	Studs
13.	710-0703	Carriage Screw 1/4-20 x.75
14.	712-0397	Wing Nut 1/4-20
15.	710-0751	Hex Cap Screw 1/4-20 x.620
16.	681-0195	Hose Base Adapter Assembly
		(Incl. Ref.# 17-19)
17.	716-0104	E Ring.500 Dia
18.	732-3035	Compression Spring
19.	711-1571	Clevis Pin
20.	736-3020	Flat Washer.271 ID x.630 OD
21.	781-04071	Upper Flail Housing
22.	681-0122	Chipper Chute Assembly
23.	781-1058	Hose Hanger Bracket
24.	712-04064	Flange Lock Nut, 1/4-20
25.	748-0457	Spacer
26.	731-2478	Hose Nozzle

Ref.	Part No.	Description
27.	710-3288	Hex Cap Screw 1/4-20 x 2.625
28.	723-0295	Adjustment Clamp
29.	749-1270	Nozzle Handle
30.	764-0648	Vacuum Hose
31.	07071	Handle Grip
32.	731-2292	Hose Adapter
33.	712-0442	Cap Lock Nut, 1/4-20
34.	710-1611B	TT Screw, 5/16-18 x .750
35.	781-04082	Front Wheel Support Brace
36.	781-04081	Rear Wheel Support Brace
37.	681-0156A	Handle Bracket Ass'y RH
	681-0155A	Handle Brkt Ass'y LH (Not Shown)
38.	714-0104	Cotter Pin
39.	736-0105	Bell Washer.401 ID x.870 OD
40.	736-0232	Wave Washer.531 ID x.781 OD
41.	738-1015	Shoulder Screw 3/8-16
42.	741-0751	Height Adjustment Bearing
43.	687-02094	Pivot Arm Assembly
44.	720-0426	Height Adjustment Knob
45.	732-1026	Spring Lever
46.	687-02051	Height Lever Assembly
		(Incl. Ref.# 44-45)
47.	736-0741	Bell Washer.760 ID x.25 OD
48.	738-1172	Shoulder Screw,.750 x.500
49.	734-04033	Wheel 8 x 2
50.	712-04065	Flange Lock Nut, 3/8-16
51.	736-0314	Thrust Washer.375 ID x.70 OD

To order replacement parts, contact 1-800-520-5520, 1-330-558-7220 or visit www.troybilt.com

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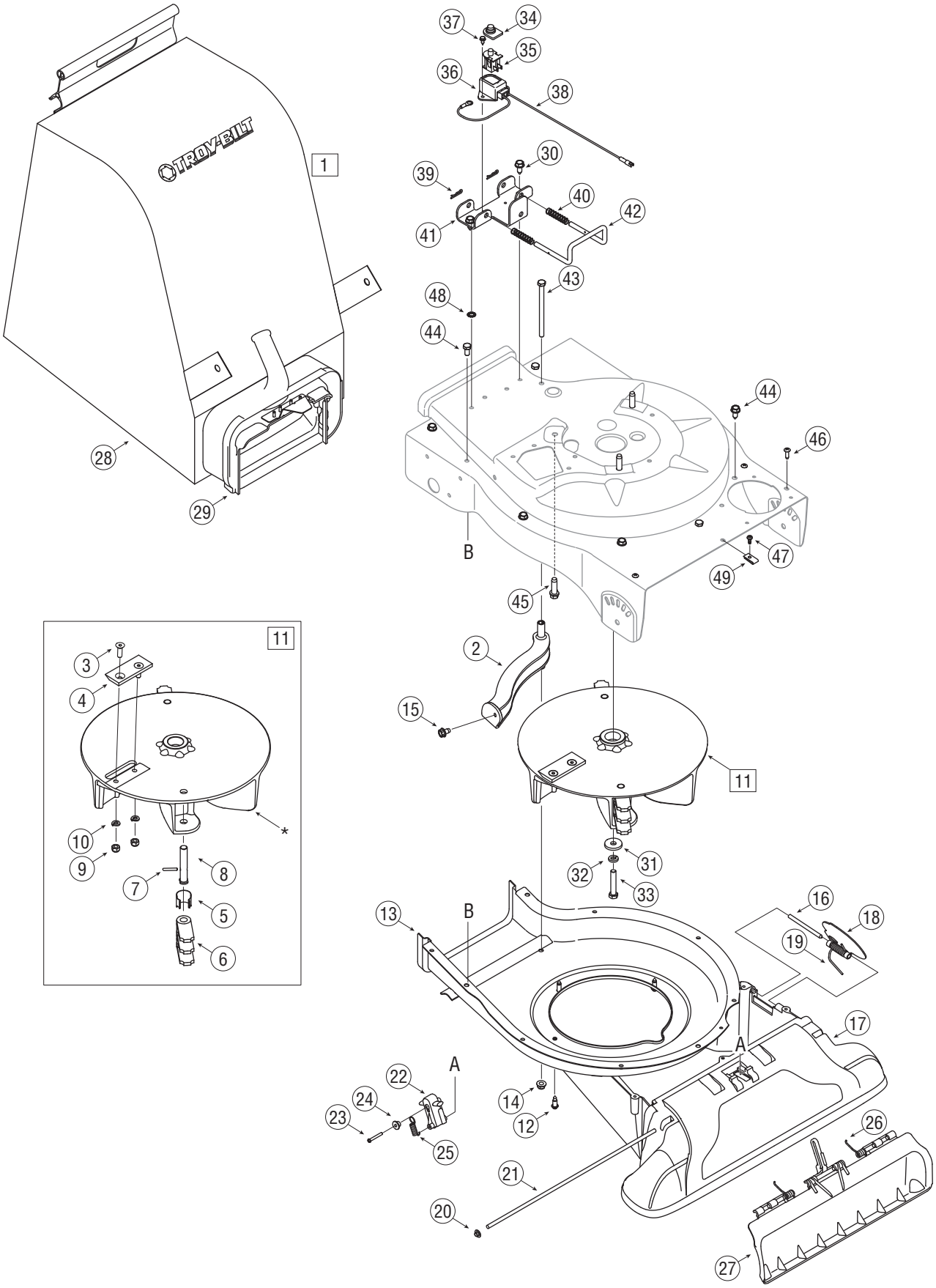
Model Series 060



For Parts Call 606-678-9623 or 606-561-4983

Ref.	Part No.	Description
1.	664-0083	Bag Assembly
2.	681-0154	Screen Assembly
3.	710-1054	Hex Screw 5/16-24 x 1.0
4.	781-0490	Chipper Blade
5.	781-0735	Pin Clip
6.	719-0329	Flail
7.	715-0166	Spiral Pin
8.	711-1401	Clevis Pin
9.	712-0411	Lock Nut, 5/16-24
10.	736-0119	Lock Washer, 5/16
11.	681-0152	Impeller Assembly
		(Incl. Ref.# 3 – 10)
12.	710-1650	Shoulder Screw, #12-24 x.30 x.46
13.	781-0721B	Lower Flail Housing
14.	712-04063	Flange Lock Nut 5/16-18
15.	710-0607	Screw, 5/16-18 x.500
16.	747-04297	Hinge Pin
17.	731-2293A	Nozzle
18.	781-1064	Base Adapter Door
19.	732-1156	Torsion Spring
20.	726-0106	Cap Speed Nut 1/4
21.	711-1551	Pivot Rod
22.	731-04967	Nozzle Door Lever
23.	710-1256	Hex Screw, #8-18 x 1.25
24.	750-1294	Shoulder Spacer
25.	732-3118	Extension Spring

Ref.	Part No.	Description
26.	732-1151A	Nozzle Door Torsion Spring
27.	731-2294A	Nozzle Door
28.	764-0632A	Bag
29.	664-04029	Chute Assembly
30.	710-0726	Hex Index Screw, 5/16-12 x.750
31.	736-0247	Flat Washer.375 ID x 1.25 OD
32.	736-0217	Lock Washer 3/8
33.	710-0818	Hex Cap Screw 3/8-24 x 2.0
34.	725-1700	Switch Cover
35.	725-3166	Safety Switch
36.	731-1613	Safety Switch Cover
37.	710-0224	Hex Washer Screw #10-16 x.50
38.	629-0920A	Wire Harness
39.	714-0104	Cotter Pin
40.	732-0962	Compression Spring
41.	781-0778A	Mounting Bracket
42.	747-1153	Lock Rod
43.	710-3195	Hex Cap Screw 5/16-18 x 4.5
44.	710-3025	Hex Cap Screw 5/16-18 x.625
45.	710-0502A	Hex Washer Screw 3/8-16 x 1.25
46.	710-1220	Screw, #12-16 x.750
47.	710-0351	Screw #10 - 16 x.500
48.	736-0607	External L-Washer 5/16
49.	726-0139	Speed Nut
—	723-0400	Safety Glasses (Not Shown)

To order replacement parts, contact 1-800-520-5520, 1-330-558-7220 or visit www.troybilt.com

www.mymowerparts.com

For Parts Call 606-678-9623 or 606-561-4983

MANUFACTURER'S LIMITED WARRANTY FOR

TROY-BILT®

The limited warranty set forth below is given by Troy-Bilt LLC with respect to new merchandise purchased and used in the United States and/or its territories and possessions, and by MTD Products Limited with respect to new merchandise purchased and used in Canada and/or its territories and possessions (either entity respectively, "Troy-Bilt").

"Troy-Bilt" warrants this product (excluding its normal wear parts as described below) against defects in material and workmanship for a period of two (2) years commencing on the date of original purchase and will, at its option, repair or replace, free of charge, any part found to be defective in materials or workmanship. This limited warranty shall only apply if this product has been operated and maintained in accordance with the Operator's Manual furnished with the product, and has not been subject to misuse, abuse, commercial use, neglect, accident, improper maintenance, alteration, vandalism, theft, fire, water, or damage because of other peril or natural disaster. Damage resulting from the installation or use of any part, accessory or attachment not approved by Troy-Bilt for use with the product(s) covered by this manual will void your warranty as to any resulting damage.

Normal wear parts are warranted to be free from defects in material and workmanship for a period of thirty (30) days from the date of purchase. Normal wear parts include, but are not limited to items such as: batteries, belts, blades, blade adapters, grass bags, rider deck wheels, seats, snow thrower skid shoes, friction wheels, shave plates, auger spiral rubber and tires.

HOW TO OBTAIN SERVICE: Warranty service is available, WITH PROOF OF PURCHASE, through your local authorized service dealer. To locate the dealer in your area:

In the U.S.A.

Check your Yellow Pages, or contact Troy-Bilt LLC at P.O. Box 361131, Cleveland, Ohio 44136-0019, or call 1-866-840-6483 or 1-330-558-7220, or log on to our Web site at www.troybilt.com.

In Canada

Contact MTD Products Limited, Kitchener, ON N2G 4J1, or call 1-800-668-1238 or log on to our Web site at www.mtdcanada.com.

This limited warranty does **not** provide coverage in the following cases:

a. The engine or component parts thereof. These items may carry a separate manufacturer's warranty. Refer to applicable manufacturer's warranty for terms and conditions.
b. Log splitter pumps, valves, and cylinders have a separate one- year warranty.
c. Routine maintenance items such as lubricants, filters, blade sharpening, tune-ups, brake adjustments, clutch adjustments, deck adjustments, and normal deterioration of the exterior finish due to use or exposure.
d. Service completed by someone other than an authorized service dealer.
e. Troy-Bilt does not extend any warranty for products sold or exported outside of the United States and/or Canada, and their respective possessions and territories, except those sold through Troy-Bilt's authorized channels of export distribution.
f. Replacement parts that are not genuine Troy-Bilt parts.
g. Transportation charges and service calls.
h. If Products are used commercially. (Troy-Bilt may separately offer Limited Commercial Warranties on certain select products. Ask your dealer or retailer for details or contact Troy-Bilt Service for more information).

No implied warranty, including any implied warranty of merchantability of fitness for a particular purpose, applies after the applicable period of express written warranty above as to the parts as identified. No other express warranty, whether written or oral, except as mentioned above, given by any person or entity, including a dealer or retailer, with respect to any product, shall bind Troy-Bilt. During the period of the warranty, the exclusive remedy is repair or replacement of the product as set forth above.

The provisions as set forth in this warranty provide the sole and exclusive remedy arising from the sale. Troy-Bilt shall not be liable for incidental or consequential loss or damage including, without limitation, expenses incurred for substitute or replacement lawn care services or for rental expenses to temporarily replace a warranted product.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

In no event shall recovery of any kind be greater than the amount of the purchase price of the product sold. **Alteration of safety features of the product shall void this warranty.** You assume the risk and liability for loss, damage, or injury to you and your property and/or to others and their property arising out of the misuse or inability to use the product.

This limited warranty shall not extend to anyone other than the original purchaser or to the person for whom it was purchased as a gift.

HOW STATE LAW RELATES TO THIS WARRANTY: This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

IMPORTANT: Owner must present Original Proof of Purchase to obtain warranty coverage.

Troy-Bilt LLC, P.O. BOX 361131 CLEVELAND, OHIO 44136-0019; Phone: 1-866-840-6483, 1-330-558-7220
MTD Canada Limited - KITCHENER, ON N2G 4J1; Phone 1-800-668-1238

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