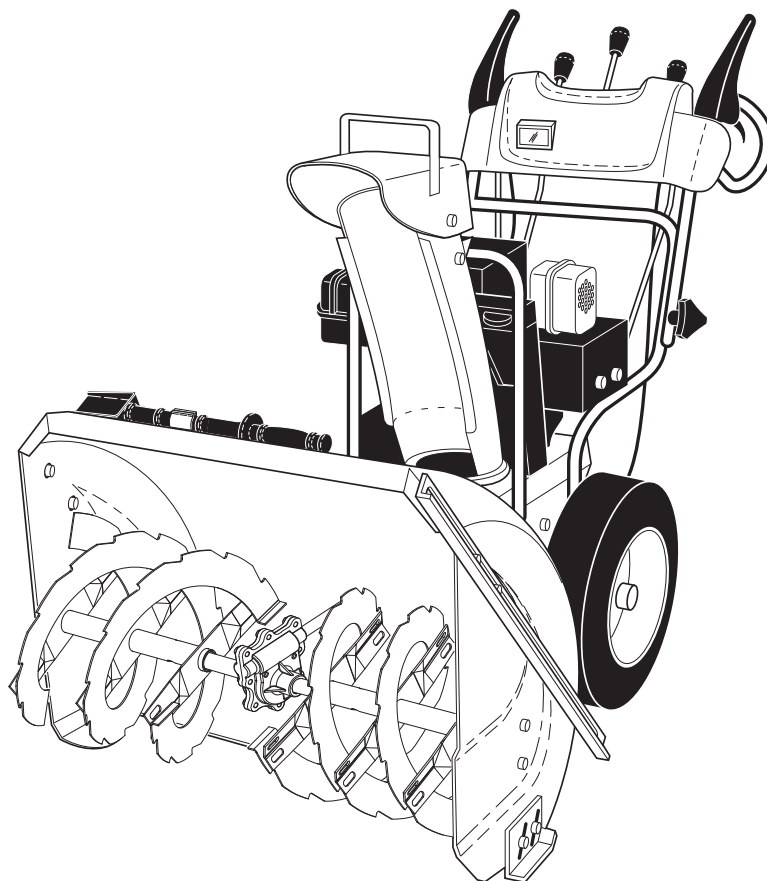


# **SEARS**

## **OWNER'S MANUAL**

**MODEL NO.  
944.529970**

**Caution:**  
Read and follow  
all Safety Rules  
and Instructions  
Before Operating  
This Equipment



# **CRAFTSMAN®**

## **1350 SERIES B&S ENGINE 27" TWO-STAGE POWER-PROPELLED SNOW THROWER**

- Assembly
- Operation
- Maintenance
- Service and Adjustments
- Repair Parts

# IMPORTANT

## Safe Operation Practices for Walk-Behind Snow Throwers

This snow thrower is capable of amputating hands and feet and throwing objects.  
Failure to observe the following safety instructions could result in serious injury.



Look for this symbol to point out important safety precautions. It means **CAUTION!!! BECOME ALERT!!! YOUR SAFETY IS INVOLVED.**



**WARNING:** Always disconnect spark plug wire and place it where it cannot contact plug in order to prevent accidental starting when setting up, transporting, adjusting or making repairs.



**WARNING:** This snow thrower is for use on sidewalks, driveways and other ground level surfaces. Caution should be exercised while using on sloping surfaces. Do not use snow thrower on surfaces above ground level such as roofs of residences, garages, porches or other such structures or buildings.



**WARNING:** Snow throwers have exposed rotating parts, which can cause severe injury from contact, or from material thrown from the discharge chute. Keep the area of operation clear of all persons, small children and pets at all times including startup.



**CAUTION:** Muffler and other engine parts become extremely hot during operation and remain hot after engine has stopped. To avoid severe burns on contact, stay away from these areas.



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

### Training

1. Read, understand and follow all instructions on the machine and in the manual(s) before operating this unit. Be thoroughly familiar with the controls and the proper use of the equipment. Know how to stop the unit and disengage the controls quickly.
2. Never allow children to operate the equipment. Never allow adults to operate the equipment without proper instruction.
3. Keep the area of operation clear of all persons, particularly small children.
4. Exercise caution to avoid slipping or falling, especially when operating the snow thrower in reverse.

### Preparation

1. Thoroughly inspect the area where the equipment is to be used and remove all doormats, sleds, boards, wires, and other foreign objects.
2. Disengage all clutches and shift into neutral before starting the engine (motor).
3. Do not operate the equipment without wearing adequate winter garments. Avoid loose fitting clothing that can get caught in moving parts. Wear footwear that will improve footing on slippery surfaces.
4. Handle fuel with care; it is highly flammable
  - (a) Use an approved fuel container.
  - (b) Never add fuel to a running engine or hot engine.
  - (c) Fill fuel tank outdoors with extreme care. Never fill fuel tank indoors.
  - (d) Never fill containers inside a vehicle or on a truck or trailer bed with a plastic liner. Always place containers on the ground, away from your vehicle, before filling.
  - (e) When practical, remove gas-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment on a trailer with a portable container, rather than from a gasoline dispenser nozzle.

- (f) Keep the nozzle in contact with the rim of the fuel tank or container opening at all times, until refueling is complete. Do not use a nozzle lock-open device.
  - (g) Replace gasoline cap securely and wipe up spilled fuel.
  - (h) If fuel is spilled on clothing, change clothing immediately.
5. Use extension cords and receptacles as specified by the manufacturer for all units with electric drive motors or electric starting motors.
  6. Adjust the collector housing height to clear gravel or crushed rock surface.
  7. Never attempt to make any adjustments while the engine (motor) is running (except when specifically recommended by manufacturer).
  8. Always wear safety glasses or eye shields during operation or while performing an adjustment or repair to protect eyes from foreign objects that may be thrown from the machine.

### Operation

1. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
2. Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.
3. After striking a foreign object, stop the engine (motor), remove the wire from the spark plug, disconnect the cord on electric motors, thoroughly inspect the snow thrower for any damage, and repair the damage before restarting and operating the snow thrower.
4. If the unit should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning of trouble.
5. Stop the engine (motor) whenever you leave the operating position, before unclogging the collector/impeller housing or discharge chute, and when making any repairs, adjustments or inspections.

- 6. When cleaning, repairing or inspecting the snow thrower, stop the engine and make certain the collector/impeller and all moving parts have stopped. Disconnect the spark plug wire and keep the wire away from the plug to prevent someone from accidentally starting the engine.
- 7. Do not run the engine indoors, except when starting the engine and for transporting the snow thrower in or out of the building. Open the outside doors; exhaust fumes are dangerous.
- 8. Exercise extreme caution when operating on slopes.
- 9. Never operate the snow thrower without proper guards, and other safety protective devices in place and working.
- 10. Never direct the discharge toward people or areas where property damage can occur. Keep children and others away.
- 11. Do not overload the machine capacity by attempting to clear snow at too fast a rate.
- 12. Never operate the machine at high transport speeds on slippery surfaces. Look behind and use care when operating in reverse.
- 13. Disengage power to the collector/impeller when snow thrower is transported or not in use.
- 14. Use only attachments and accessories approved by the manufacturer of the snow thrower (such as wheel weights, counterweights, or cabs).
- 15. Never operate the snow thrower without good visibility or light. Always be sure of your footing, and keep a firm hold on the handles. Walk; never run.
- 16. Never touch a hot engine or muffler.

**Clearing a Clogged Discharge Chute**

Hand contact with the rotating impeller inside the discharge chute is the most common cause of injury associated with snow throwers. Never use your hand to clean out the discharge chute. To clear the chute:

- 1. SHUT THE ENGINE OFF!
- 2. Wait 10 seconds to be sure the impeller blades have stopped rotating.
- 3. Always use a clean-out tool, not your hands.

**Maintenance and Storage**

- 1. Check shear bolts and other bolts at frequent intervals for proper tightness to be sure the equipment is in safe working condition.
- 2. Never store the machine with fuel in the fuel tank inside a building where ignition sources are present such as hot water heaters, space heaters, or clothes dryers. Allow the engine to cool before storing in any enclosure.
- 3. Always refer to operator’s manual for important details if the snow thrower is to be stored for an extended period.
- 4. Maintain or replace safety and instruction labels, as necessary.
- 5. Run the machine a few minutes after throwing snow to prevent freeze-up of the collector/impeller.

**TABLE OF CONTENTS**

<b>SAFETY RULES .....</b>	<b>2-3</b>	<b>MAINTENANCE SCHEDULE .....</b>	<b>15</b>
<b>WARRANTY .....</b>	<b>4</b>	<b>MAINTENANCE .....</b>	<b>15-16</b>
<b>PRODUCT SPECIFICATIONS .....</b>	<b>4</b>	<b>SERVICE AND ADJUSTMENTS .....</b>	<b>17-19</b>
<b>CUSTOMER RESPONSIBILITIES .....</b>	<b>4</b>	<b>STORAGE .....</b>	<b>19</b>
<b>ASSEMBLY / PRE-OPERATION .....</b>	<b>5-7</b>	<b>TROUBLESHOOTING .....</b>	<b>20</b>
<b>OPERATION .....</b>	<b>8-14</b>	<b>REPAIR PARTS .....</b>	<b>22-47</b>

## LIMITED TWO (2) YEAR WARRANTY ON CRAFTSMAN SNOW THROWER

For two (2) years from date of purchase Sears Canada, Inc. will repair or replace, at Sears option, free of charge parts which are defective as a result of material or workmanship.

### COMMERCIAL OR RENTAL USE:

Warranty on Snow Thrower will be 90 days from date of purchase if used for commercial or rental purposes.

### This Warranty does **NOT** cover:

1. Pre-delivery set-up.
2. Expendable items which become worn during normal use, such as belts, spark plugs, air cleaners, and shear pins, as well damage to the engine resulting from operating snow thrower with insufficient oil.
3. Repairs necessary because of operator abuse or negligence, including the failure to operate and maintain the equipment according to the instructions contained in the Owner's Manual.
4. Tire replacement or repair caused by punctures from outside objects, such as nails, thorns, stumps or glass.

Warranty service is available by returning the Craftsman Snow Thrower to the nearest Sears Service Centre/Department in Canada. This warranty applies only while this product is in use in Canada.

This warranty is in addition to any statutory warranty and does NOT exclude or limit legal rights you may have but shall run concurrently with applicable provincial legislation. Furthermore, some provinces do not allow limitations on how long an implied warranty will last, so the above limitations may not apply to you.

**Sears Canada, Inc., Toronto, Ontario M5B 2B8**

**CONGRATULATIONS** on your purchase of a new snow thrower. It has been designed, engineered and manufactured to give best possible dependability and performance.

Should you experience any problem you cannot easily remedy, please contact your nearest authorized service center. We have competent, well-trained technicians and the proper tools to service or repair this unit.

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

SERIAL NUMBER: \_\_\_\_\_

DATE OF PURCHASE: \_\_\_\_\_

THE MODEL AND SERIAL NUMBERS WILL BE FOUND ON A DECAL ATTACHED TO THE REAR OF THE SNOW THROWER HOUSING.

YOU SHOULD RECORD BOTH SERIAL NUMBER AND DATE OF PURCHASE AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.

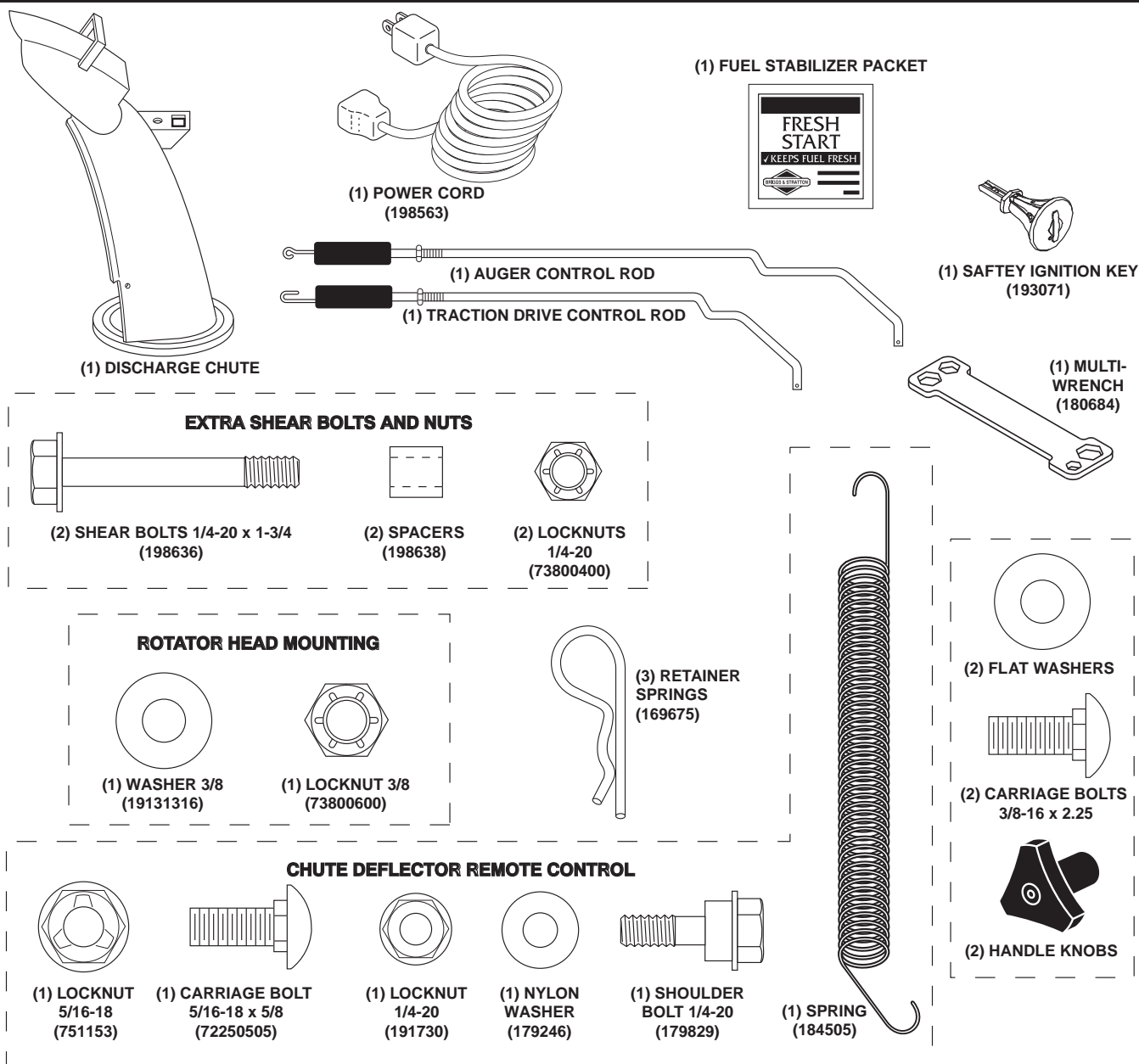
## PRODUCT SPECIFICATIONS

<b>Gasoline Capacity and Type:</b>	3.0 Quarts (2,84 Liters) Unleaded Regular only
<b>Oil Type (API SG-SL):</b>	SAE 5W-30 or 10W-30 Synthetic SAE 5W-30
<b>Oil Capacity:</b>	28 Ounces (0,83 Liters)
<b>Spark Plug: Gap:</b>	Champion QC12YC 0.030" (0,762 mm)

## CUSTOMER RESPONSIBILITIES

- Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for and using your snow thrower.
- Follow the instructions under "Maintenance" and "Storage" sections of this owner's manual.

# PARTS PACKED SEPARATELY IN CARTON



## ASSEMBLY / PRE-OPERATION

Read these instructions and this manual in its entirety before you attempt to assemble or operate your new snow thrower. Reading the entire manual will familiarize you with the unit, which will assist you in assembly, operation and maintenance of the product.

Your new snow thrower has been assembled at the factory with the exception of those parts left unassembled for shipping purposes. All parts such as nuts, washers, bolts, etc., necessary to complete the assembly have been placed in the parts bag. To ensure safe and proper operation of your snow thrower, all parts and hardware you assemble must be tightened securely. Use the correct tools as necessary to ensure proper tightness.

### REMOVE SNOW THROWER FROM CARTON

1. Remove all accessible loose parts and parts boxes from carton.

2. Cut down all four corners of carton and lay panels flat.
3. Remove the two (2) screws securing the auger housing to the pallet.
4. Remove all packing materials except plastic tie holding speed control rod to lower handle.
5. Remove the two (2) plastic ties securing the upper handle to the pallet.
6. Remove snow thrower from carton and check carton thoroughly for additional loose parts.

### HOW TO SET UP YOUR SNOW THROWER

#### TOOL BOX (See Fig. 10)

A toolbox is provided on your snow thrower. The toolbox is located on top of the belt cover. Store the extra shear bolts, nuts and multi-wrench provided in parts bag in the toolbox.



# ASSEMBLY / PRE-OPERATION

**NOTE:** The multi-wrench may be used for assembly of the chute rotator head to snow thrower and making adjustments to the skid plates.

## UNFOLD UPPER HANDLE

1. Raise upper handle to the operating position and tighten handle knobs securely. Additional carriage bolts, washers and handle knobs are in bag of parts. Use to secure upper handle to lower handle. Install in lower holes in handles.

## INSTALL SPEED CONTROL ROD (See Figs. 1 and 2)

1. Remove plastic tie securing rod to lower handle.

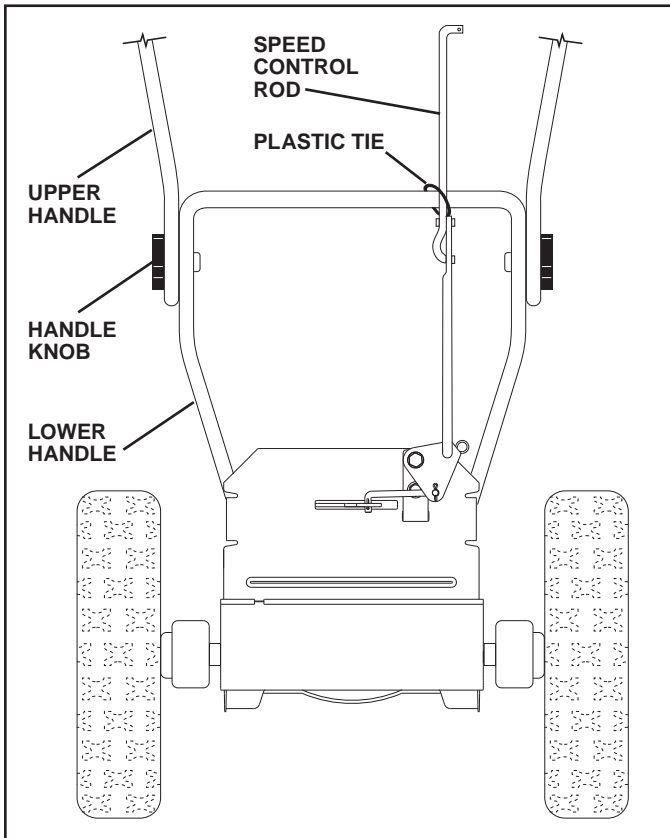


FIG. 1

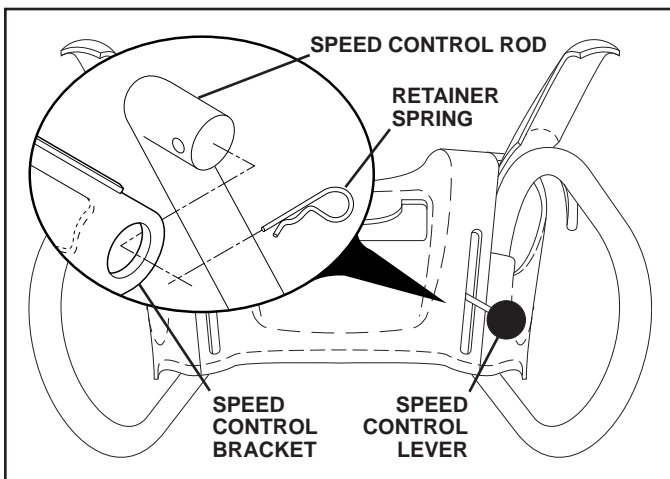


FIG. 2

2. Insert rod into speed control bracket and secure with retainer spring.

## INSTALL TRACTION DRIVE CONTROL ROD (See Figs. 3 and 4)

The traction drive control rod has the long loop on the end of the spring as shown.

1. Slide rubber sleeve up rod and hook end of spring into pivot bracket with loop opening down as shown.
2. With top end of rod positioned under left side of control panel, push rod down and insert top end of rod into hole in drive control bracket. Secure with retainer spring.

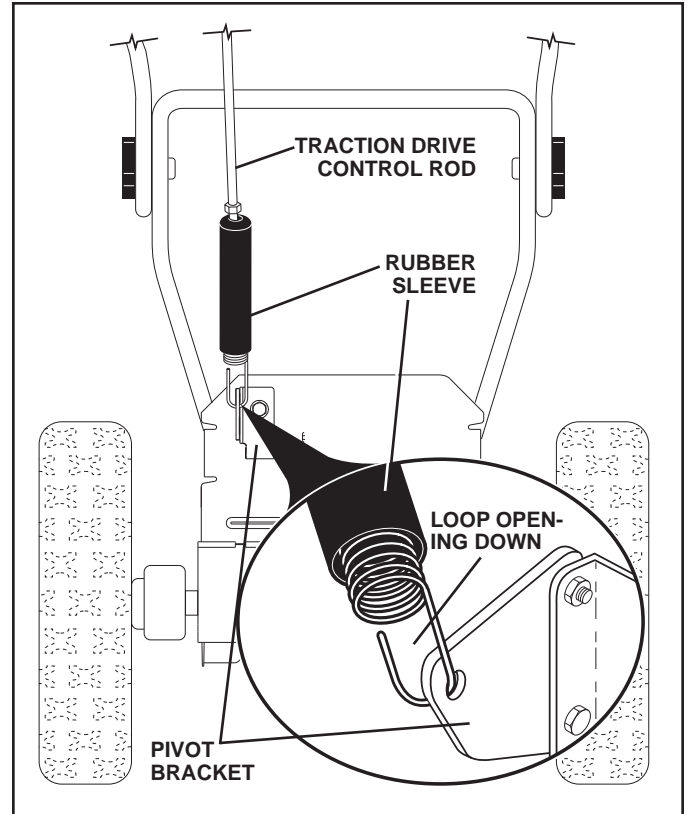


FIG. 3

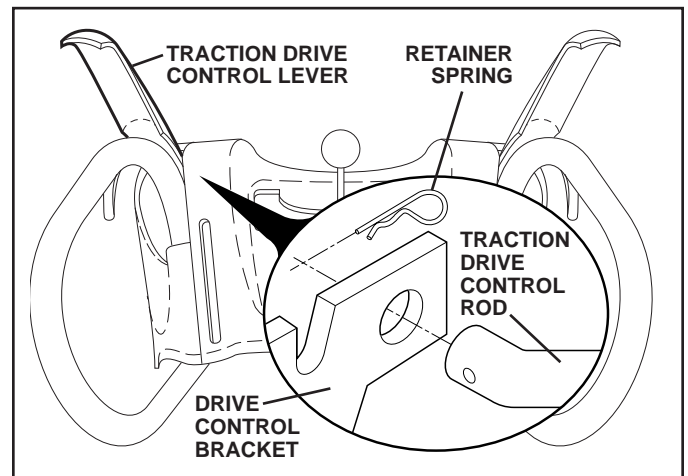


FIG. 4

# ASSEMBLY / PRE-OPERATION

## INSTALL AUGER CONTROL ROD (See Figs. 5 and 6)

The auger control rod has the short loop on the end of the spring as shown.

1. Slide rubber sleeve up rod and hook end of spring into control arm with loop opening up as shown.
2. With top end of rod positioned under right side of control panel, push down on rod and insert end of rod into hole in auger control bracket. Secure with retainer spring.

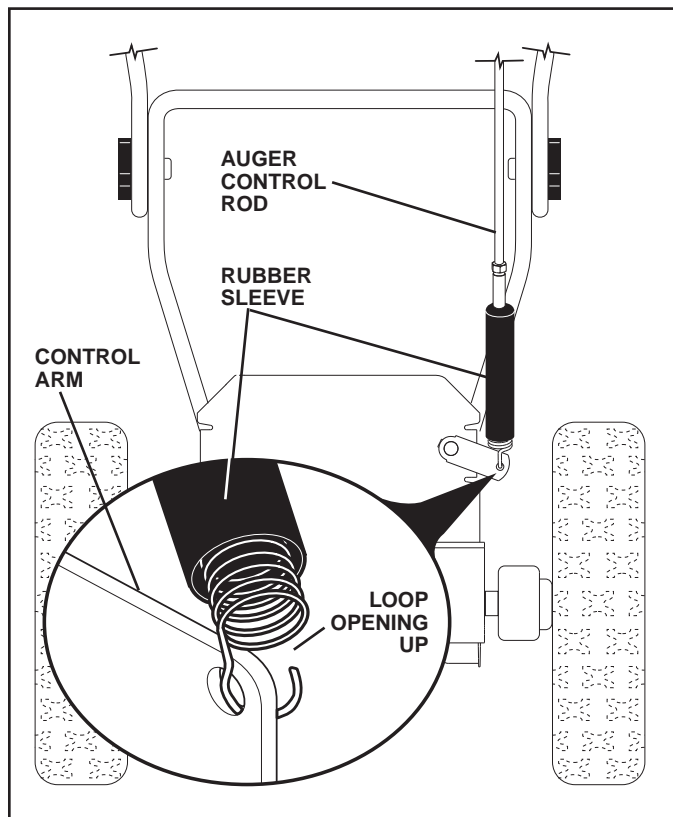


FIG. 5

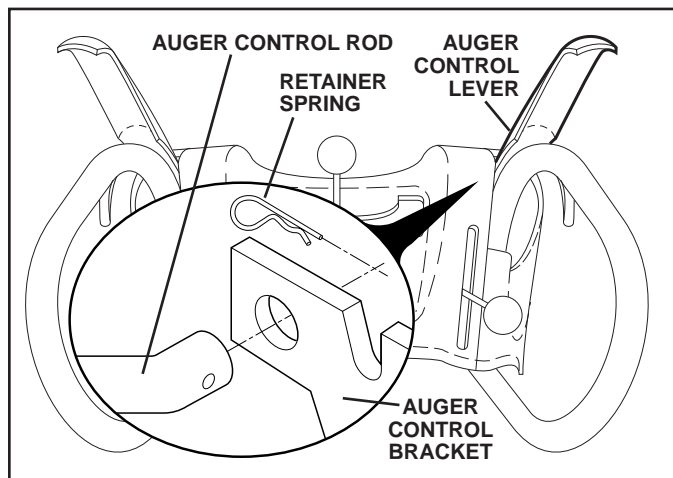


FIG. 6

## INSTALL DISCHARGE CHUTE / CHUTE ROTATER HEAD (See Fig. 7)

**NOTE:** The multi-wrench provided in your parts bag may be used to install the chute rotater head.

1. Place discharge chute assembly on top of chute base with discharge opening toward front of snow thrower.
2. Position chute rotater head over chute bracket. If necessary, rotate chute assembly to align square and pin on underside of chute rotater head with holes in chute bracket.
3. With chute rotater head and chute bracket aligned, position chute rotater head on pin and threaded stud of mounting bracket.
4. Install 3/8 washer and locknut on threaded stud and tighten securely.

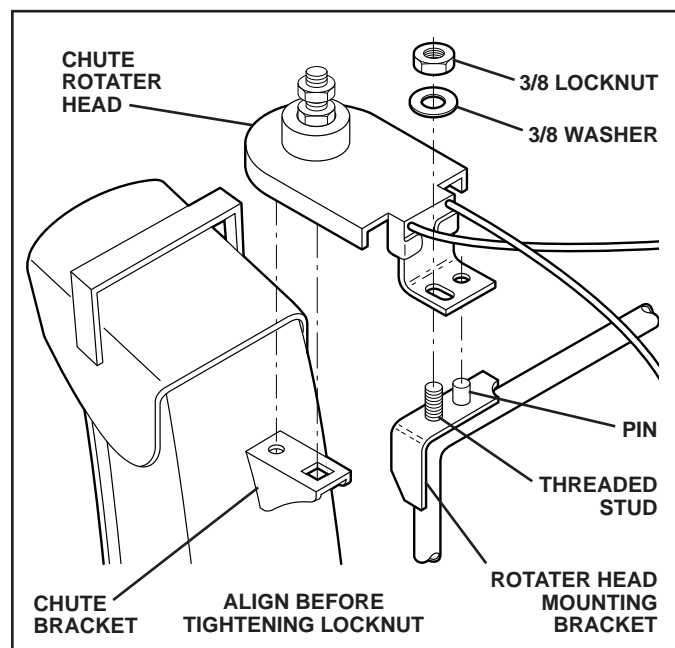


FIG. 7

# ASSEMBLY / PRE-OPERATION

## INSTALL CHUTE DEFLECTOR REMOTE CONTROL

(See Figs. 8 and 9)

1. Install remote cable bracket to discharge chute with 5/16-18 carriage bolt and 5/16-18 locknut as shown. Tighten securely.
2. Install remote cable eyelet to chute deflector with 1/4-20 shoulder bolt, nylon washer and 1/4-20 locknut as shown. Tighten securely.
3. Install spring hooks between hex nuts on chute rotater head and into hole in chute deflector as shown.

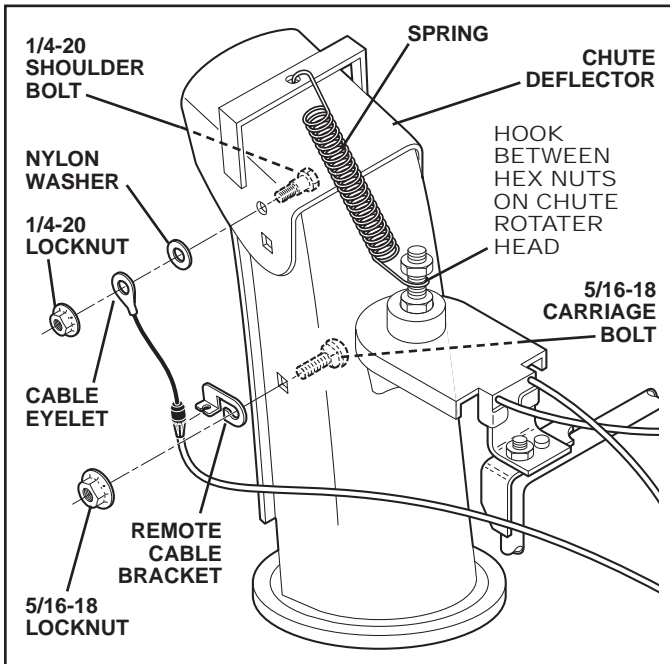


FIG. 8

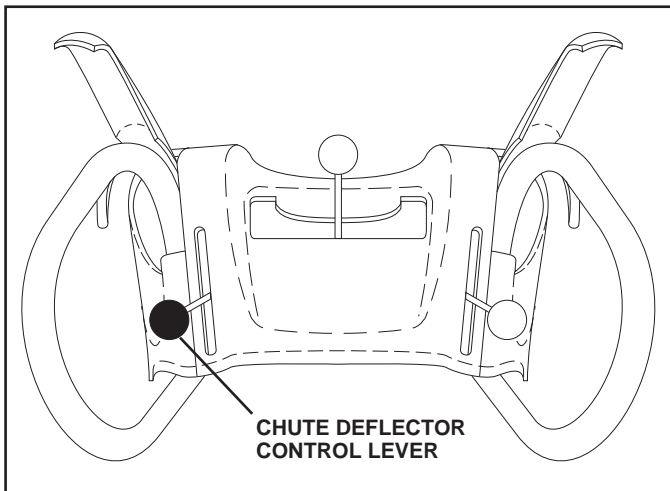


FIG. 9

## CHECK TIRE PRESSURE

The tires on your snow thrower were overinflated at the factory for shipping purposes. Correct and equal tire pressure is important for best snow throwing performance.

- Reduce tire pressure to 14-17 PSI (19-24.5 N-m).

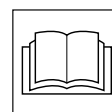
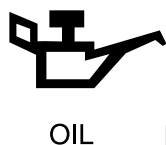
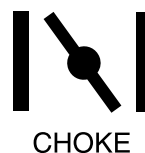
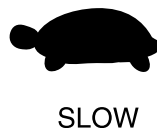


# OPERATION

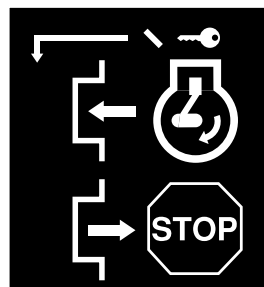
## KNOW YOUR SNOW THROWER

READ THIS OWNER'S MANUAL AND ALL SAFETY RULES BEFORE OPERATING YOUR SNOW THROWER. Compare the illustrations with your snow thrower to familiarize yourself with the location of various controls and adjustments. Save this manual for future reference.

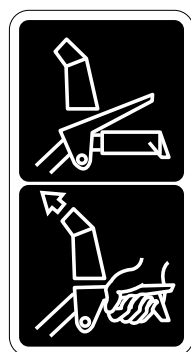
These symbols may appear on your snow thrower or in literature supplied with the product. Learn and understand their meaning.



**READ AND FOLLOW ALL SAFETY INFORMATION AND INSTRUCTIONS BEFORE USE OF THIS PRODUCT. KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE.**

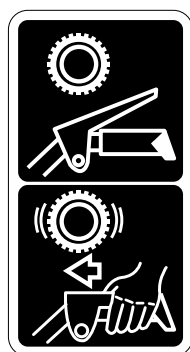


**IGNITION KEY.  
INSERT TO START  
AND RUN,  
PULL OUT TO STOP.**



**SNOW  
DISCHARGE**

**DISENGAGED**



**ENGAGED**

**TRACTION  
DRIVE CONTROL**



# OPERATION

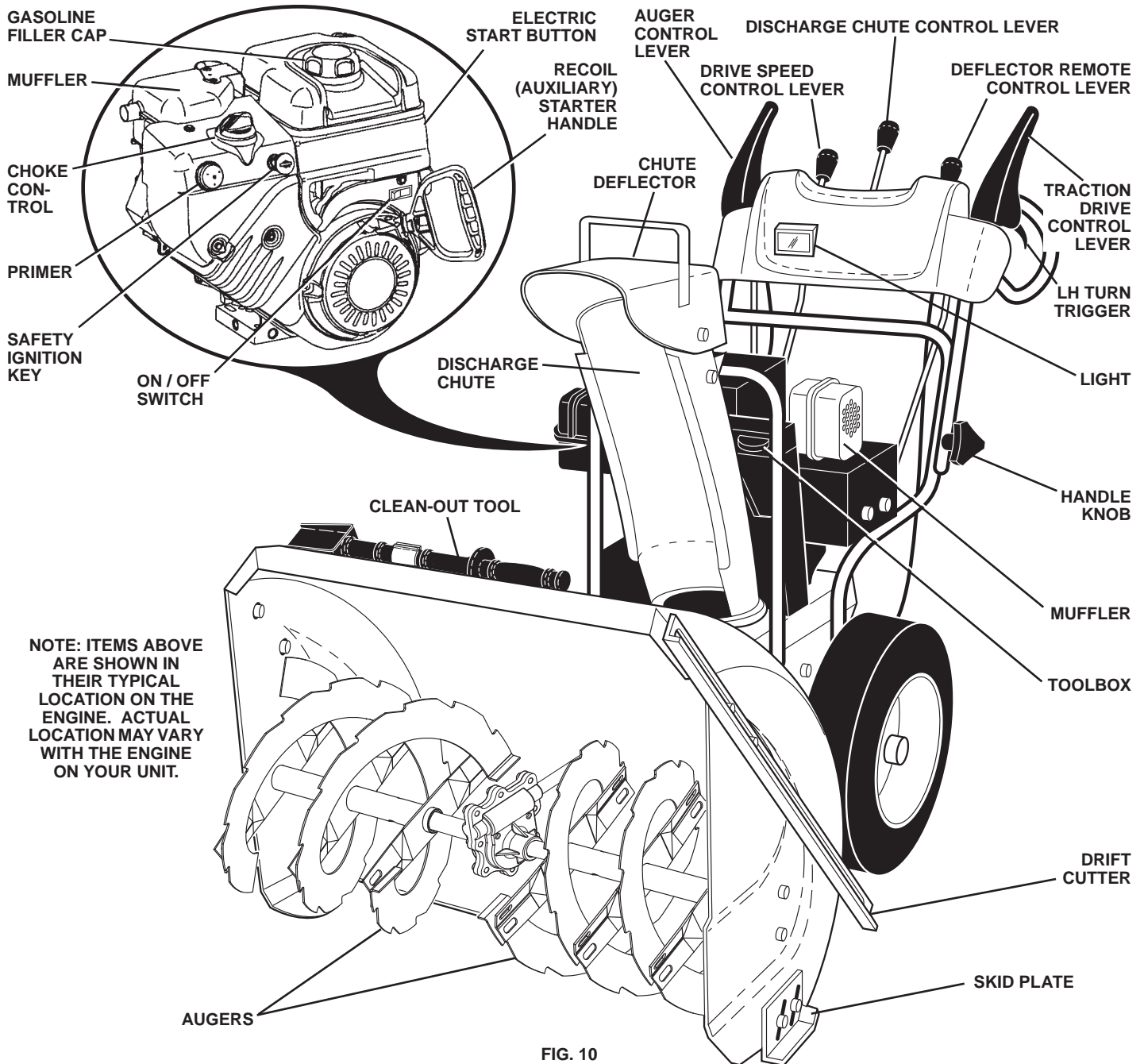


FIG. 10

## MEETS A.N.S.I. SAFETY REQUIREMENTS

Our snow throwers conform to the standards of the American National Standards Institute.

**Toolbox** - used to store spare shear bolts, locknuts and wrench.

**Safety ignition key** - must be inserted for the engine to start and run. Remove when snow thrower is not in use.

**Electric start button** - used for starting the engine.

**Recoil (auxiliary) starter handle** - used for starting the engine.

**Primer** - pumps additional fuel from the carburetor to the cylinder for use when starting a cold engine.

**ON / OFF switch** - used to STOP the engine.

**Choke control** - used for starting a cold engine.

**Drive speed control lever** - used to select forward or reverse motion and speed of snow thrower.

**Deflector remote control lever** - used to change the distance the snow is thrown.

**Traction drive control lever** - used to engage power-propelled forward or reverse motion of snow thrower.

**LH and RH turn triggers** - used to steer the snow thrower.

**Auger control lever** - used to engage auger motion (throw snow).

**Discharge chute control lever** - used to change the direction the snow is thrown.

**Skid plate** - used to adjust height of scraper bar from the ground.

**Drift cutter** - used to cut through deep snowdrifts.

# OPERATION



The operation of any snow thrower 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 snow thrower or performing any adjustments or repairs. We recommend standard safety glasses or a wide vision safety mask worn over spectacles.

## HOW TO USE YOUR SNOW THROWER

**Know how** to operate all controls before adding fuel or attempting to start the engine.

### STOPPING

#### TRACTION DRIVE

- Release traction drive control lever to stop the forward or reverse movement of the snow thrower.

#### AUGER

- Release the auger control lever to stop throwing snow.

#### ENGINE

- Move ON / OFF switch to "OFF" position.
- Remove (do not turn) safety ignition key to prevent unauthorized use.

**NOTE:** Never use choke to stop engine.

### TO USE CHOKE CONTROL (See Fig. 11)

The choke control is located on the engine. Use the choke control whenever you are starting a cold engine. Do not use to start a warm engine.

- To engage choke, turn knob counterclockwise. Slowly turn knob clockwise to disengage.

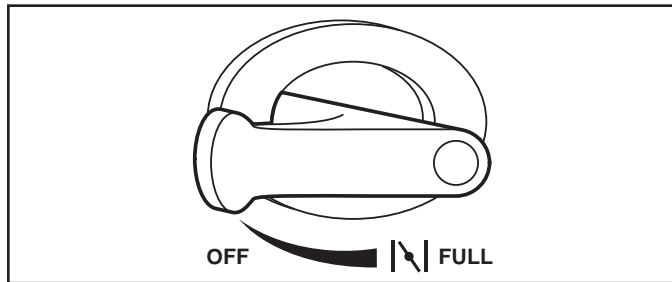


FIG. 11

### TO CONTROL SNOW DISCHARGE (See Fig. 12)



**WARNING:** Snow throwers have exposed rotating parts, which can cause severe injury from contact, or from material thrown from the discharge chute. Keep the area of operation clear of all persons, small children and pets at all times including startup.



**WARNING:** If the discharge chute or auger become clogged, shut-off engine and wait for all moving parts to stop. Use the clean-out tool, NOT YOUR HANDS, to unclog the chute and/or auger.

The **DIRECTION** in which snow is to be thrown is controlled by the discharge chute control lever.

- To change the discharge chute position, press downward on discharge chute control lever and move lever left or right until chute is in desired position. Be sure lever springs back and locks into desired position.

The **DISTANCE** that snow is thrown is controlled by the position of the chute deflector. Set the deflector low to throw snow a short distance; set the deflector higher to throw snow farther.

- Press downward on chute deflector control lever and move lever forward to raise the deflector and increase the distance. Move lever back to lower the deflector and decrease the distance. Be sure lever springs back and locks into desired position.

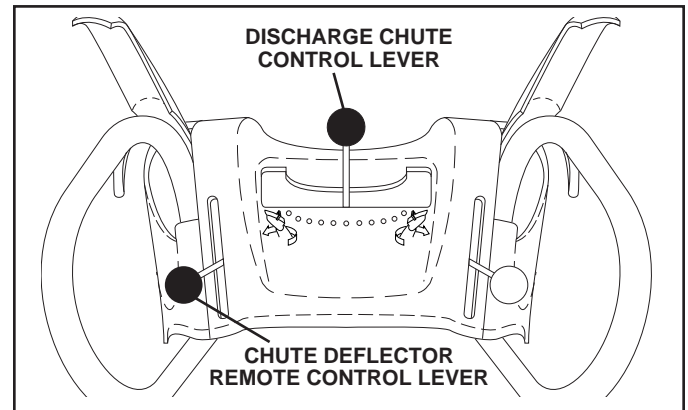


FIG. 12

### TO THROW SNOW (See Fig. 13)

The auger rotation is controlled by the auger control lever located on the right side handle.

- Squeeze auger control lever to handle to engage the auger and throw snow.
- Release the auger control lever to stop throwing snow.

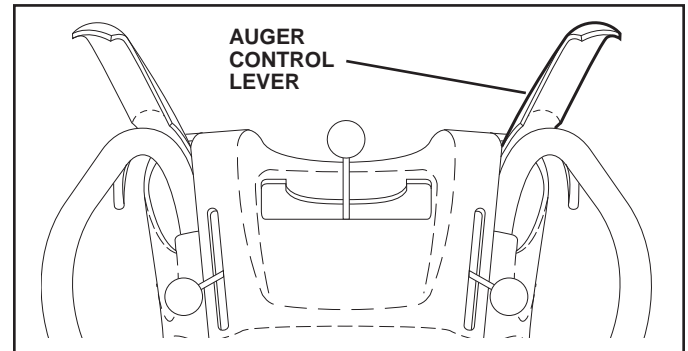


FIG. 13

# OPERATION

## USING THE CLEAN-OUT TOOL (See Fig. 14)

In certain snow conditions, the discharge chute may become clogged with ice and snow. Use the clean-out tool to dislodge this blockage.

**When cleaning, repairing, or inspecting, make certain all controls are disengaged and the auger/impeller and all moving parts have stopped. Disconnect the spark plug wire and keep the wire away from the spark plug to prevent accidental starting.**

- Release the auger control lever and shut off the engine.
- Remove the clean-out tool from its mounting clip. Grasp the tool firmly by the handle and push and twist the tool into the discharge chute to dislodge the blockage.

After the packed snow has been dislodged, return the clean-out tool to its mounting clip by pushing it into the clip.

- Make sure the discharge chute is pointed in a safe direction (no vehicles, buildings, people, or other objects are in the direction of discharge) before restarting engine.
- Restart the engine, then squeeze the auger control lever to the handle to clear snow from the auger housing and the discharge chute.

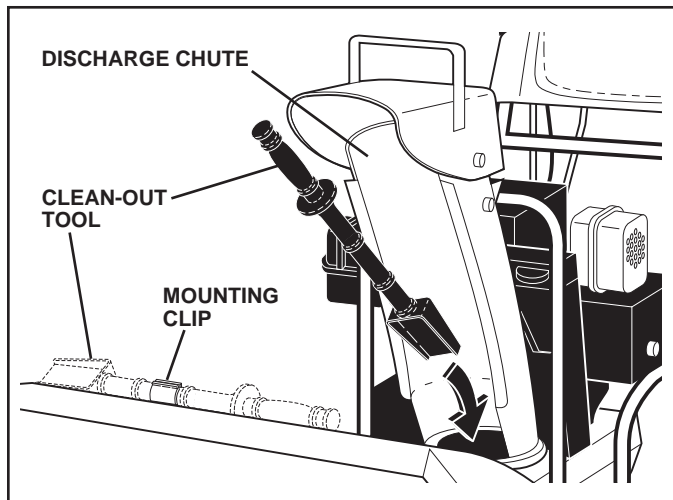


FIG. 14

## TO MOVE FORWARD AND BACKWARD (See Fig. 15)

**SELF-PROPELLING**, forward and reverse movement of the snow thrower, is controlled by the traction drive control lever located on the left side handle.

- Squeeze traction drive control lever to handle to engage the drive system.
- Release traction drive control lever to stop the forward or reverse movement of the snow thrower.

**SPEED and DIRECTION** are controlled by the drive speed control lever.

- Press downward on the speed control lever and move lever to desired position **BEFORE** engaging the traction drive control lever. Be sure lever springs back and locks into desired position.

**CAUTION: Do not move speed control lever when traction drive control lever is engaged. Damage to the snow thrower can result.**

- Slower speeds are for heavier snow and faster speeds are for light snow and transporting the snow thrower. It is recommended that you use a slower speed until you are familiar with the operation of the snow thrower.

**NOTE:** When both traction drive and auger control levers are engaged, the traction drive control lever will lock the auger control lever in the engaged position. This will allow you to release your right hand from the handle and adjust the discharge chute direction without interrupting the snow throwing process.

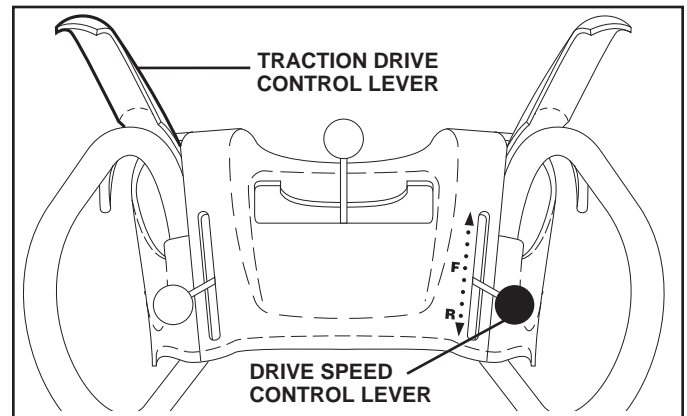


FIG. 15

## POWER STEERING OPERATION (See Fig. 16)

Steering triggers are used to assist in steering your snow thrower. The triggers are located on the underside of each handle. When a trigger is squeezed, it disengages the drive wheel on that side of snow thrower and allows it to turn in that direction.

- To turn left – squeeze left side trigger.
- To turn right – squeeze right side trigger.

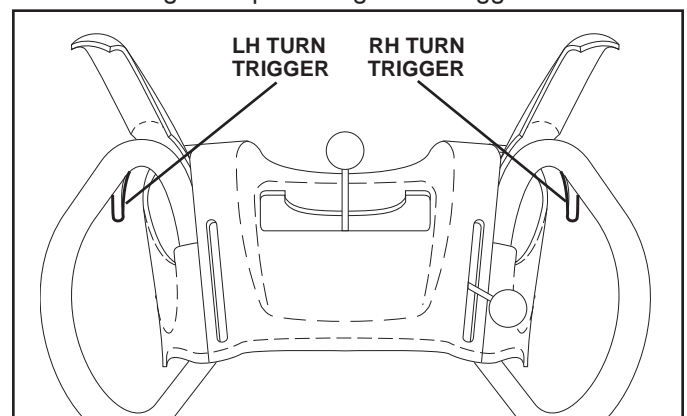


FIG. 16

## TO ADJUST SKID PLATES (See Fig. 17)

**NOTE:** The wrench provided in your parts bag may be used to adjust the skid plates.

Skid plates are located on each side of the auger housing and adjust the clearance between the scraper bar and the ground surface. Adjust skid plates evenly to proper height for current surface conditions. For removal of snow in normal conditions, such as a paved driveway or sidewalk, place skid plates in the highest position (lowest scraper clearance) to give a 1/8" clearance between the scraper bar and the ground. Use a middle position if the surface to be cleared is uneven.



# OPERATION

**NOTE:** It is not recommended to operate the snow thrower over gravel or rocky surfaces. Objects such as gravel, rocks or other debris, can easily be picked up and thrown by the impeller, which can cause serious personal injury, property damage or damage to the snow thrower.

- If snow thrower must be operated over gravel surface, use extra caution and be sure skid plates are adjusted to lowest (highest scraper clearance) position.
1. Shut off engine and wait for all moving parts to stop.
  2. Adjust skid plates by loosening the hex nuts, then moving skid plate to desired position. Be sure both plates are adjusted evenly. Tighten securely.

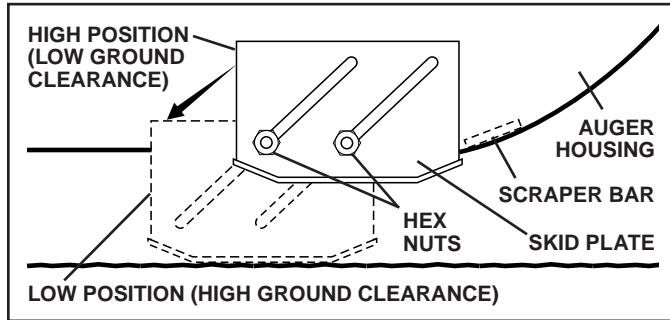


FIG. 17

## SCRAPER BAR (See Fig. 17)

The scraper bar is not adjustable, but is reversible. After considerable use it may become worn. When it has worn almost to the edge of the housing, it can be reversed, providing additional service before requiring replacement. Replace a damaged or worn scraper bar.

## TO USE DRIFT CUTTERS (See Fig. 18)

Use the drift cutters to cut through deep snowdrifts that are higher than the front of the snow thrower.

- Loosen adjustment nuts enough to allow drift cutter to be raised to highest position and tighten nuts securely. Repeat for opposite side of snow thrower.
- When not using drift cutters, loosen adjustment nuts, lower to storage position and tighten nuts securely.

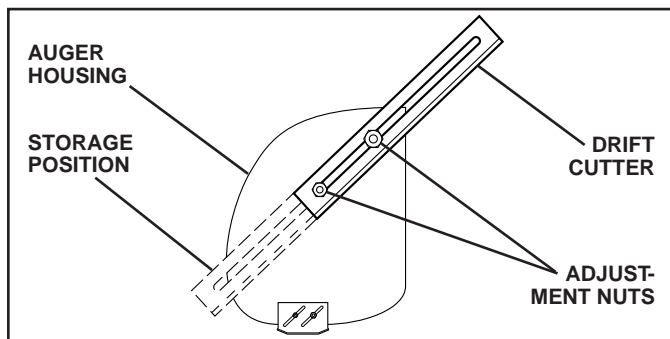


FIG. 18

## BEFORE STARTING THE ENGINE

### CHECK ENGINE OIL LEVEL (See Fig. 19)

The engine on your snow thrower has been shipped, from the factory, already filled with oil.

1. Check engine oil with snow thrower on level ground.

2. Remove oil fill cap/dipstick and wipe clean, reinsert the dipstick and screw tight, wait for a few seconds, remove and read oil level. If necessary, add oil until "FULL" mark on dipstick is reached. Do not overfill.

- To change engine oil, see "TO CHANGE ENGINE OIL" in the Maintenance section of this manual.

### ADD GASOLINE (See Fig. 19)

- Fill fuel tank to bottom of tank filler neck. Do not overfill. Use fresh, clean, regular unleaded gasoline with a minimum of 87 octane. Do not mix oil with gasoline. Purchase fuel in quantities that can be used within 30 days to assure fuel freshness.



**WARNING:** Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame.

**CAUTION:** Alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Empty the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. See Storage Instructions for additional information. Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.

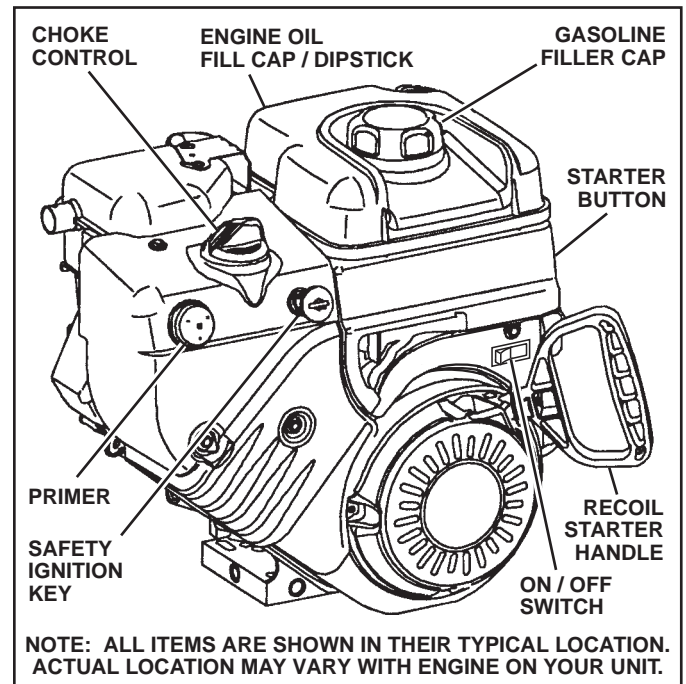


FIG. 19

# OPERATION

## TO START ENGINE

Your snow thrower engine is equipped with both a 120 Volt A.C. electric starter and a recoil starter. The electric starter is equipped with a three-wire power cord and plug and is designed to operate on 120 Volt A.C. household current.

- Be sure your house is a 120 Volt A.C. three-wire grounded system. If you are uncertain, consult a licensed electrician.



**WARNING: Do not use the electric starter if your house is not a 120 Volt A.C. three-wire grounded system. Serious personal injury or damage to your snow thrower could result.**

## COLD START - ELECTRIC STARTER

1. Insert safety ignition key (packed separately in parts bag) into ignition slot until it clicks. DO NOT turn the key. Keep the extra safety ignition key in a safe place.
2. Place ON / OFF switch in "ON" position.
3. Rotate choke control to "FULL" position.
4. Connect the power cord to the engine.
5. Plug the other end of the power cord into a three-hole grounded 120 Volt A.C. receptacle.

**NOTE:** Do not use primer when starting engine with the electric starter.

6. Push starter button until engine starts.

**IMPORTANT:** Do not crank engine more than five continuous seconds between each time you try to start. Wait 5 to 10 seconds between each attempt.

7. When the engine starts, release the starter button and slowly move the choke control to the "OFF" position.
8. Disconnect the power cord from the receptacle first, then from the engine.

Allow the engine to warm up for a few minutes. Engine will not develop full power until it has reached normal operating temperature.

## WARM START - ELECTRIC STARTER

Follow the steps above, keeping the choke control in the "OFF" position.

## COLD START - RECOIL STARTER

1. Insert safety ignition key (packed separately in parts bag) into ignition slot until it clicks. DO NOT turn the key. Keep the extra safety ignition key in a safe place.
2. Place ON / OFF switch in "ON" position.
3. Rotate choke control to "FULL" position.
4. Push the primer four (4) times if the temperature is below 15°F, or two (2) times if temperature is between 15° and 50°F. If temperature is above 50°F, priming is not necessary.

**NOTE:** Over priming may cause flooding, preventing the engine from starting. If you do flood the engine, wait a few minutes before attempting to start and DO NOT push the primer.

5. Pull recoil starter handle quickly. Do not allow starter rope to snap back.

6. When the engine starts, release the recoil starter handle and slowly move the choke control to the "OFF" position.

Allow the engine to warm up for a few minutes. Engine will not develop full power until it has reached normal operating temperature.

## WARM START - RECOIL STARTER

Follow the steps above, keeping the choke in the "OFF" position. DO NOT push the primer.

## BEFORE STOPPING

Run the engine for a few minutes to help dry off any moisture on the engine.

## IF RECOIL STARTER HAS FROZEN

If the recoil starter has frozen and will not turn the engine, proceed as follows:

1. Grasp the recoil starter handle and slowly pull as much rope out of the starter as possible.
2. Release the recoil starter handle and let it snap back against the starter.

If the engine still fails to start, repeat the above steps or use the electric starter.

## SNOW THROWING TIPS

- Go slower in deep, freezing or heavy wet snow. Use the drive speed control, NOT the ON / OFF switch, to adjust speed.
- It is easier and more efficient to remove snow immediately after it falls.
- The best time to remove snow is the early morning. At this time the snow is usually dry and has not been exposed to the direct sun and warming temperatures.
- Slightly overlap each successive path to ensure all snow will be removed.
- Throw snow downwind whenever possible.
- Adjust the skid plates to proper height for current snow conditions. See "TO ADJUST SKID PLATES" in this section of this manual.
- For extremely heavy snow, reduce the width of snow removal by overlapping previous path and moving slowly.
- Keep engine clean and clear of snow during use. This will help air flow and extend engine life.
- After snow-throwing is completed, allow engine to run for a few minutes to melt snow and ice off the engine.
- Clean the entire snow thrower thoroughly after each use and wipe dry so it is ready for next use.



**WARNING: Do not operate snow thrower if weather conditions impair visibility. Throwing snow during a heavy, windy snowstorm can blind you and be hazardous to the safe operation of the snow thrower.**



# MAINTENANCE

MAINTENANCE SCHEDULE		BEFORE EACH USE							AFTER EACH USE							EVERY 25 HOURS OR EVERY SEASON							EVERY 50 HOURS							EVERY 100 HOURS							BEFORE STORAGE							SERVICE DATES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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## GENERAL RECOMMENDATIONS

The warranty on this snow thrower does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain snow thrower as instructed in this manual. Some adjustments will need to be made periodically to properly maintain your snow thrower.

At least once a season, check to see if you should make any of the adjustments described in the Service and Adjustments section of this manual.

- At least once a year, you should replace the spark plug and check belts for wear. A new spark plug will help your engine run better and last longer.
- Follow the maintenance schedule in this manual.

**NOTE:** Use only Original Equipment Manufacturer (OEM) parts to service this unit. Failure to do so can cause the unit to malfunction and pose a risk of injury to the operator.

## BEFORE EACH USE

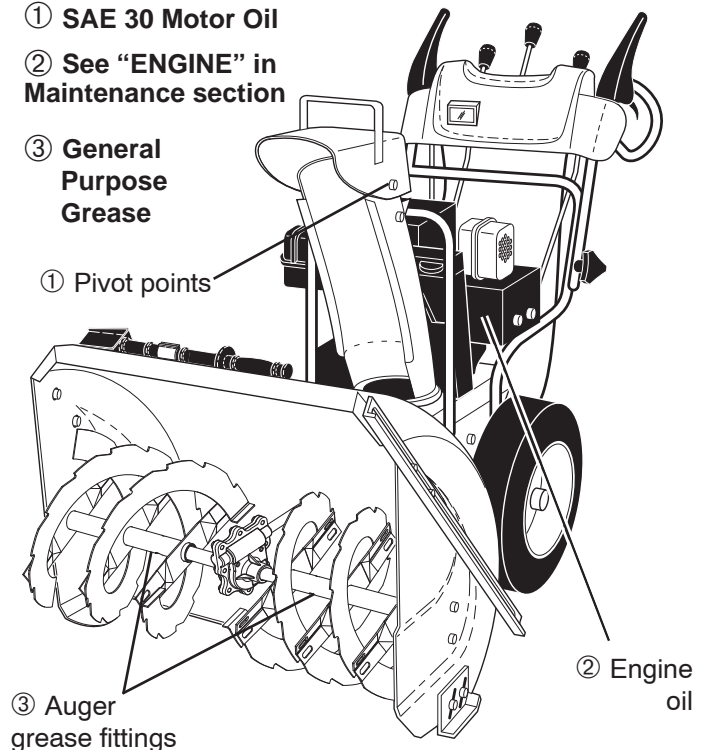
- Check engine oil level.
- Check for loose fasteners.
- Check controls to be sure they are functioning properly.

## LUBRICATION

Keep your snow thrower well lubricated (See "LUBRICATION CHART").

## LUBRICATION CHART

- SAE 30 Motor Oil
- See "ENGINE" in Maintenance section
- General Purpose Grease



## SNOW THROWER

Always observe the safety rules when performing any maintenance.

### TIRES

- Maintain proper air pressure in both tires (14–17 P.S.I. / 19-24.5 N-m).

- Keep tires free of gasoline and oil, which can harm rubber.

**NOTE:** To seal tire punctures and prevent flat tires due to slow leaks, tire sealant may be purchased from your local parts dealer. Tire sealant also prevents tire dry rot and corrosion.



# SERVICE AND ADJUSTMENTS

**WARNING:** To avoid serious injury, before performing any service or adjustments:



1. Be sure the on/off switch is in the OFF position.
2. Remove safety ignition key.
3. Make sure the augers and all moving parts have completely stopped.
4. Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with plug.

## SNOW THROWER

### TO ADJUST SNOW THROWER HEIGHT

See "TO ADJUST SKID PLATES" and "SCRAPER BAR" in the Operation section of this manual.

### CHUTE DEFLECTOR

The chute deflector, attached to the top of the discharge chute, is provided to direct discharging snow away from the operator. If the deflector becomes damaged, it should be replaced.



**WARNING:** To avoid serious injury, never operate your snow thrower with the deflector removed or damaged.

- To change direction and/or distance snow is discharged, see "TO CONTROL SNOW DISCHARGE" in the Operation section of this manual.

### SHEAR BOLTS (See Fig. 20)

#### AUGER SHEAR BOLTS

Both right and left-hand augers are secured to the auger shaft with a shoulder/shear bolt and hex nut. Should a foreign object or ice become lodged in the augers, the shear bolts are designed to break, preventing damage to any other components. If one or both augers do not turn when auger control lever is engaged, check to see if one or both of the bolts have sheared. To replace the shear bolts:

1. Disengage all controls and move throttle control to STOP position. Wait for all moving parts to stop.
2. Remove safety ignition key and disconnect spark plug wire from spark plug. Place wire where it cannot come in contact with plug.
3. Align hole in auger hub with hole in auger shaft and install a new 1/4-20 x 2" shoulder/shear bolt and spacer. Install 1/4-20 lock nut and tighten securely.

**CAUTION:** Do not substitute. Use only original equipment shear bolts as supplied with your snow thrower.

4. Connect spark plug wire to spark plug. Replace safety ignition key

#### IMPELLER SHEAR BOLTS

The impeller is secured to the impeller shaft with two (2) capscrew/shear bolts and hex nuts. Should a foreign object or ice become lodged in the impeller, the capscrews are designed to break, preventing damage to any other components. If impeller does not turn when auger control lever is engaged, check to see if the capscrews have sheared.

To replace the capscrew/shear bolts:

1. Disengage all controls and move throttle control to STOP position. Wait for all moving parts to stop.
2. Remove safety ignition key and disconnect spark plug wire from spark plug. Place wire where it cannot come in contact with plug.
3. Align holes in impeller hub with holes in impeller shaft and install two (2) new 1/4-20 x 1-5/8" capscrew/shear bolts. Install 1/4-20 locknuts and tighten securely.

**CAUTION:** Do not substitute. Use only original equipment capscrew/shear bolts as supplied with your snow thrower.

4. Connect spark plug wire to spark plug.

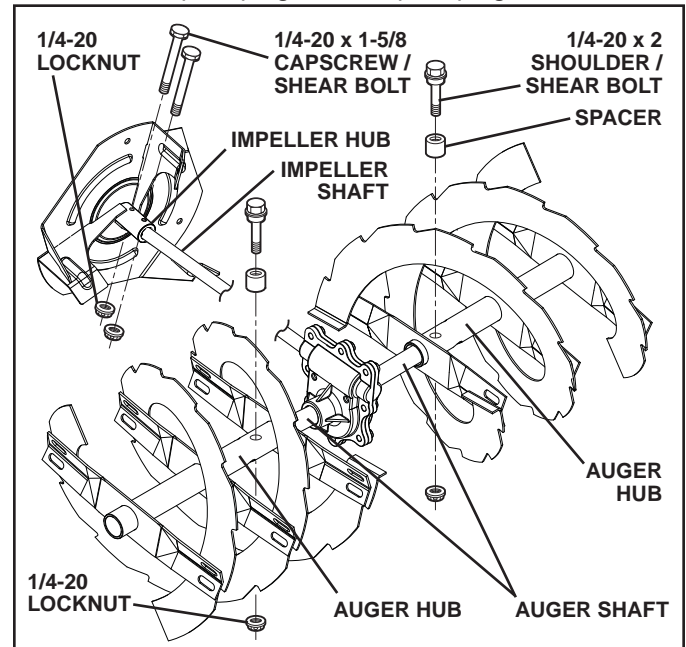


FIG. 20

### TO REMOVE BELT COVER (See Fig. 21)

1. Remove the two (2) screws securing belt cover to frame.
2. Remove belt cover.
3. Replace belt cover by installing cover and screws and tighten securely.

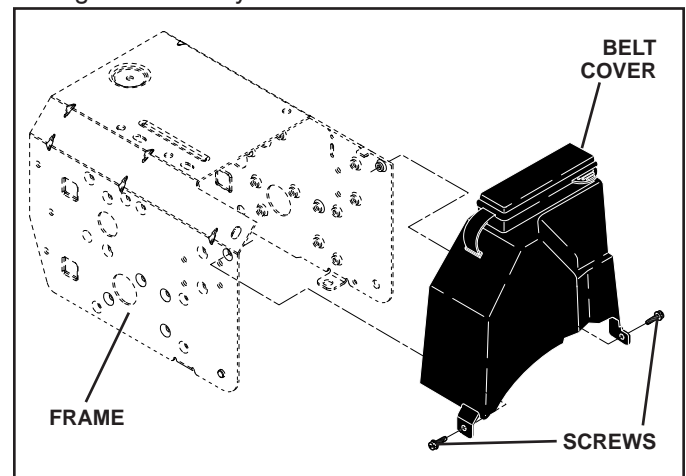


FIG. 21

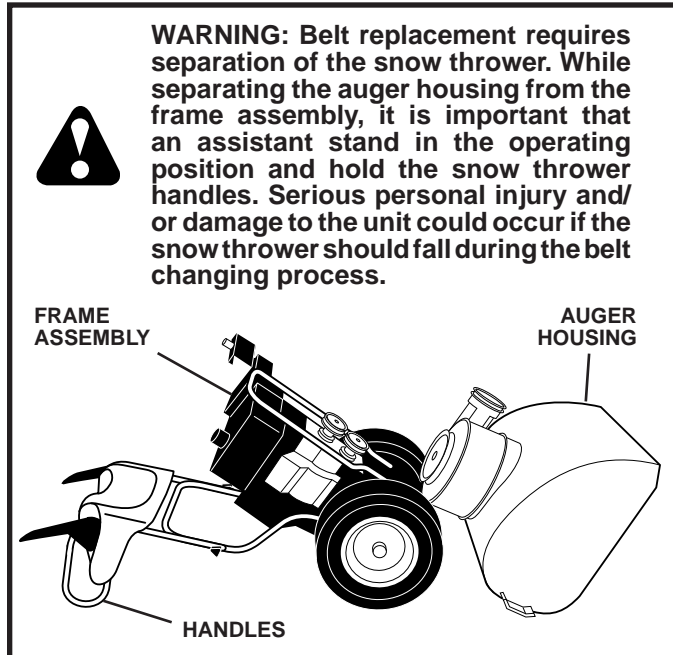
# SERVICE AND ADJUSTMENTS

## TO REPLACE BELTS (See Fig. 22)

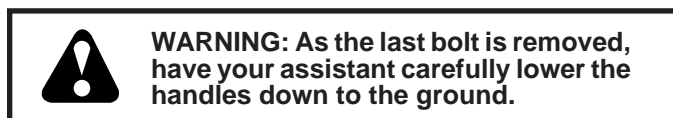
The auger and traction drive belts are not adjustable. If the belts are damaged or begin to slip from wear, they should be replaced. It is recommended that the belt(s) be replaced by a Sears service centre/department.

**NOTE:** It is recommended that both the auger and traction drive belt be replaced at the same time.

The V-belts on your snow thrower are of special construction and should be replaced by original equipment manufacturer (OEM) belts available from your nearest Sears service centre/department. Using other than OEM belts can cause personal injury or damage to the snow thrower.



1. REMOVE GASOLINE FROM FUEL TANK - Drain gasoline from fuel tank into a suitable container, outdoors, away from fire or flame. Wipe up any spilled gasoline.
2. REMOVE DISCHARGE CHUTE - Loosen locknut securing chute rotator head to mounting bracket only enough to allow chute rotator head to be raised and discharge chute to be removed from snow thrower.
3. REMOVE BELT COVER - See "TO REMOVE BELT COVER" in this section of this manual.
4. REMOVE ENGINE PULLEY - Remove bolt, lockwasher and flat washer securing pulley to engine crankshaft. Remove outside (auger) pulley only from crankshaft.
5. SEPARATE SNOW THROWER - With your assistant standing in the operating position holding the handles, remove the two (2) bolts holding the auger housing and frame together.



6. REMOVE HAIRPIN FROM CLUTCH ROD and remove clutch rod from swing plate. Tip swing plate forward.
7. REMOVE AUGER BELT from around pulley.

8. RELIEVE TENSION ON TRACTION DRIVE BELT IDLER and remove traction drive belt from around pulleys.

**HINT:** Insert a 3/8" drive ratchet (in the "ON" position) into the square hole in idler arm and rotate ratchet clockwise to relieve tension.

9. With tension relieved on idler, install new traction drive belt around pulleys and inside belt keepers.
10. Install clutch rod in swing plate; secure with hairpin.
11. Place auger belt around and inside the groove of auger pulley only.
12. While your assistant slowly raises handles to rejoin the auger housing and frame assembly, pull up on the auger belt and squeeze sides together above pulley so belt is fully seated in groove of pulley.
13. Move idler arm so it does not hit impeller pulley as you bring snow thrower completely together and check carefully for proper routing of belts. If auger belt has become dislodged from the pulley (by catching the idler arm bracket while bringing snow thrower together), separate the snow thrower and repeat step 12. Belt must be fully seated in pulley groove when bringing the snow thrower together.
14. Install the two (2) hex bolts and tighten securely.
15. INSTALL ENGINE PULLEY - Place belt in pulley groove and slide pulley on crankshaft. Install flat washer, lockwasher and bolt and tighten securely (41-47 N-m torque). Make sure belt is inside belt keeper.
16. INSTALL BELT COVER and two (2) screws. Tighten securely.
17. INSTALL DISCHARGE CHUTE - See "INSTALL DISCHARGE CHUTE / CHUTE ROTATER HEAD" in the Assembly / Pre-Operation section of this manual.

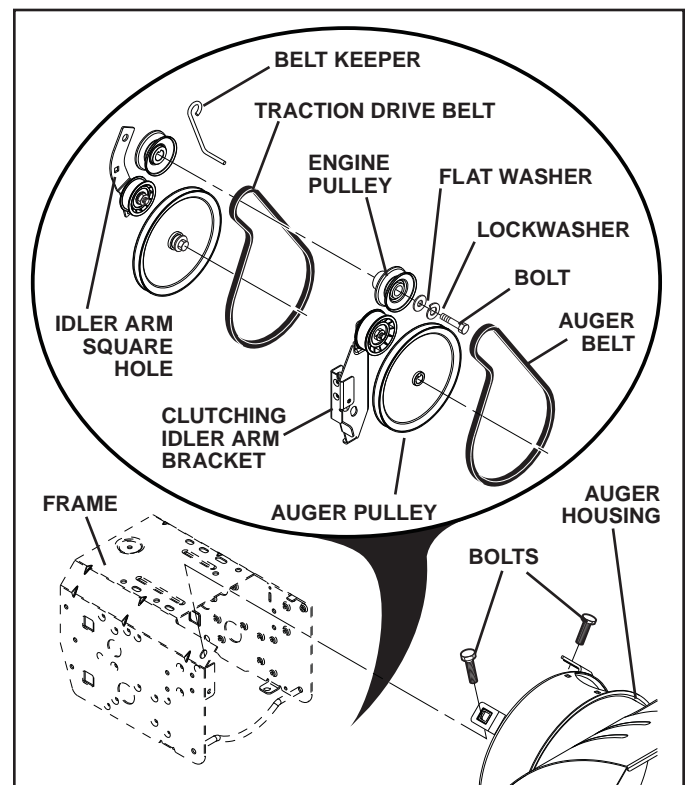


FIG. 22



## TO REMOVE WHEELS (See Fig. 23)

- Remove the klik pin and remove wheel from axle.

**IMPORTANT:** When installing wheel, be sure to use the axle hole closest to the end of the shaft – *do not* use the hole in the wheel hub (if equipped). Inner hole in axle and hole in wheel hub are not used for your model snow thrower.

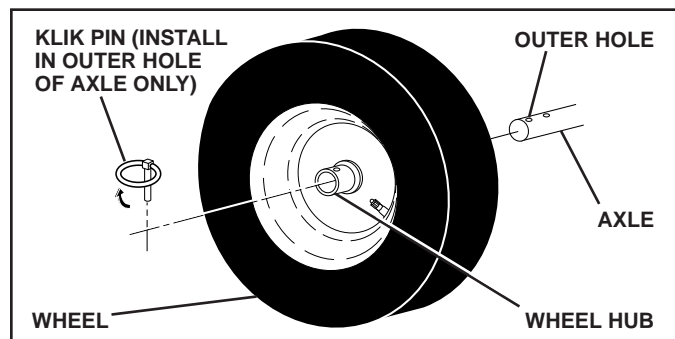


FIG. 23

**NOTE:** To seal punctures or prevent flat tires due to slow leaks, tire sealant may be purchased from your local parts dealer. Tire sealant also prevents tire dry rot and corrosion.

## ENGINE

See engine manual.

### CARBURETOR

Your carburetor is not adjustable. Engine performance should not be affected at altitudes up to 7,000 feet (2,134 meters). If your engine does not operate properly due to suspected carburetor problems, take your snow thrower to a qualified service center.

### ENGINE SPEED

Never tamper with the engine governor, which is factory set for proper engine speed. Overspeeding the engine above the factory high speed setting can be dangerous and will void the warranty. If you think the engine-governed high speed needs adjusting, contact a qualified service center, which has proper equipment and experience to make any necessary adjustments.

# STORAGE

Immediately prepare your snow thrower for storage at the end of the season or if the unit will not be used for 30 days or more.



**WARNING:** Never store the snow thrower 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 gas appliance. Allow the engine to cool before storing in any enclosure.

## SNOW THROWER

When snow thrower is to be stored for a period of time, clean it thoroughly, remove all dirt, grease, leaves, etc. Store in a clean, dry area.

- Clean entire snow thrower (See "CLEANING" in the Maintenance section of this manual).
- Inspect and replace belts, if necessary (See "TO REPLACE BELTS" in the Service and Adjustments section of this manual).
- Lubricate as shown in the Maintenance section of this manual.
- Be sure that all nuts, bolts, screws, and pins are securely fastened. Inspect moving parts for damage, breakage and wear. Replace if necessary.
- Touch up all rusted or chipped paint surfaces; sand lightly before painting.

## ENGINE

See engine manual.

### FUEL SYSTEM

**IMPORTANT:** It is important to prevent gum deposits from forming in essential fuel system parts such as carburetor, fuel hose, or tank during storage. Also, alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage.

- Empty the fuel tank by starting the engine and letting it run until the fuel lines and carburetor are empty.
- Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.
- Use fresh fuel next season.

**NOTE:** Fuel stabilizer is an acceptable alternative in minimizing the formation of fuel gum deposits during storage. Add stabilizer to gasoline in fuel tank or storage container. Always follow the mix ratio found on stabilizer container. Run engine at least 10 minutes after adding stabilizer to allow the stabilizer to reach the carburetor. Do not empty the gas tank and carburetor if using fuel stabilizer.

### ENGINE OIL

Drain oil (with engine warm) and replace with clean engine oil. (See "ENGINE" in the Maintenance section of this manual).

### CYLINDER

- Remove spark plug.
- Pour one ounce (29 ml) of oil through spark plug hole into cylinder.
- Pull recoil starter handle slowly a few times to distribute oil.
- Replace with new spark plug.

## OTHER

- Remove safety ignition key; store it in a safe place.
- Do not store gasoline from one season to another.
- Replace your gasoline can if your can starts to rust. Rust and/or dirt in your gasoline will cause problems.
- If possible, store your snow thrower indoors and cover it to protect it from dust and dirt.
- Cover your snow thrower with a suitable protective cover that does not retain moisture. Do not use plastic. Plastic cannot breathe, which allows condensation to form and will cause your snow thrower to rust.

**IMPORTANT:** Never cover snow thrower while engine/exhaust area is still warm.

# TROUBLESHOOTING

See appropriate section in manual unless directed to a Sears service centre/department.

PROBLEM	CAUSE	CORRECTION
<b>Does not start</b>	<ol style="list-style-type: none"> <li>1. Fuel shut-off valve (if so equipped) in OFF position.</li> <li>2. Safety ignition key is not inserted.</li> <li>3. Out of fuel.</li> <li>4. Throttle in STOP position</li> <li>5. Choke in OFF position.</li> <li>6. Primer not depressed.</li> <li>7. Engine is flooded.</li> <li>8. Spark plug wire is disconnected.</li> <li>9. Bad spark plug.</li> <li>10. Stale fuel.</li> <li>11. Water in fuel.</li> </ol>	<ol style="list-style-type: none"> <li>1. Turn fuel shut-off valve to OPEN position.</li> <li>2. Insert safety ignition key.</li> <li>3. Fill fuel tank with fresh, clean gasoline.</li> <li>4. Move throttle to FAST position</li> <li>5. Move to FULL position.</li> <li>6. Prime as instructed in the Operation section of this manual.</li> <li>7. Wait a few minutes before restarting, DO NOT prime.</li> <li>8. Connect wire to spark plug.</li> <li>9. Replace spark plug.</li> <li>10. Empty fuel tank &amp; carburetor, refill with fresh, clean gasoline.</li> <li>11. Empty fuel tank &amp; carburetor, refill with fresh, clean gasoline.</li> </ol>
<b>Loss of power</b>	<ol style="list-style-type: none"> <li>1. Spark plug wire loose.</li> <li>2. Throwing too much snow.</li> <li>3. Fuel tank cap is covered with ice or snow.</li> <li>4. Dirty or clogged muffler.</li> </ol>	<ol style="list-style-type: none"> <li>1. Reconnect spark plug wire.</li> <li>2. Reduce speed and width of swath.</li> <li>3. Remove ice and snow on and around fuel tank cap.</li> <li>4. Clean or replace muffler.</li> </ol>
<b>Engine idles or runs roughly</b>	<ol style="list-style-type: none"> <li>1. Choke is in FULL position.</li> <li>2. Blockage in fuel line.</li> <li>3. Stale fuel.</li> <li>4. Water in fuel.</li> <li>5. Carburetor is in need of adjustment or overhaul.</li> </ol>	<ol style="list-style-type: none"> <li>1. Move choke to OFF position.</li> <li>2. Clean fuel line.</li> <li>3. Empty fuel tank &amp; carburetor, refill with fresh, clean gasoline.</li> <li>4. Empty fuel tank &amp; carburetor, refill with fresh, clean gasoline.</li> <li>5. Contact a Sears service centre/department.</li> </ol>
<b>Excessive vibration</b>	<ol style="list-style-type: none"> <li>1. Loose parts or damaged augers or impeller.</li> </ol>	<ol style="list-style-type: none"> <li>1. Tighten all fasteners. Replace damaged parts. If vibration remains, contact a Sears service centre/department.</li> </ol>
<b>Recoil starter is hard to pull</b>	<ol style="list-style-type: none"> <li>1. Frozen recoil starter.</li> </ol>	<ol style="list-style-type: none"> <li>1. See "IF RECOIL STARTER HAS FROZEN" in the Operation section of this manual.</li> </ol>
<b>Loss of traction drive / slowing of drive speed</b>	<ol style="list-style-type: none"> <li>1. Drive belt is worn.</li> <li>2. Drive belt is off of pulley.</li> <li>3. Friction drive wheel is worn.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check / replace drive belt.</li> <li>2. Check / reinstall drive belt.</li> <li>3. Contact a Sears service centre/department.</li> </ol>
<b>Loss of snow discharge or slowing of snow discharge</b>	<ol style="list-style-type: none"> <li>1. Auger belt is off of pulley.</li> <li>2. Auger belt is worn.</li> <li>3. Clogged discharge chute.</li> <li>4. Augers / impeller jammed.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check / reinstall auger belt.</li> <li>2. Check / replace auger belt.</li> <li>3. Clean snow chute.</li> <li>4. Remove debris or foreign object from augers / impeller.</li> </ol>



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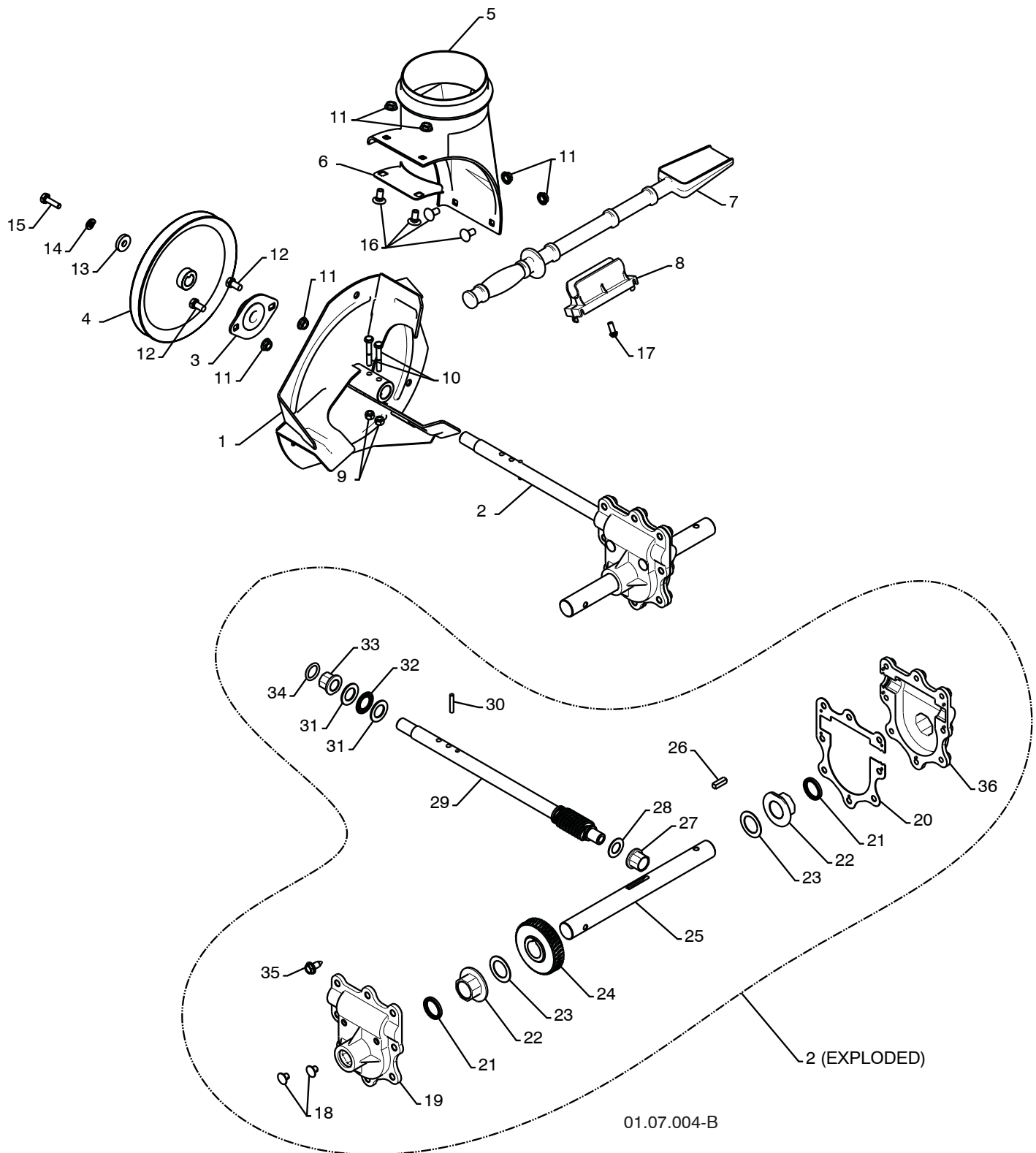
## SERVICE NOTES

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## REPAIR PARTS

SNOW THROWER - - MODEL NUMBER 944.529970

## AUGER HOUSING / IMPELLER ASSEMBLY



**NOTE:** All component dimensions given in U.S. inches. 1 inch = 25.4 mm

**IMPORTANT:** Use only Original Equipment Manufacturer (O.E.M.) replacement parts. Failure to do so could be hazardous, damage your snow thrower and void your warranty.

**REPAIR PARTS****SNOW THROWER - - MODEL NUMBER 944.529970****AUGER HOUSING / IMPELLER ASSEMBLY**

KEY NO.	PART NO.	DESCRIPTION
1	175321X479	IMPELLER
2	196710	GEARBOX ASSEMBLY
3	188909	BEARING
4	191079	IMPELLER PULLEY
5	175322	DISCHARGE BASE
6	178675X008	CORNER BRACKET
7	192199	CLEAN OUT TOOL
8	405400	TOOL CLIP
9	73800400	NUT 1/4-20
10	74780426	SCREW 1/4-20 X .625
11	155377	NUT 5/16-18
12	163183	SCREW 5/16-18 X .625
13	19111507	WASHER
14	10040500	LOCKWASHER 5/16
15	74940516	SCREW 5/16-18 X 1.00
16	180355	CARRIAGE BOLT
17	194189	SCREW 13-16 X .625
18	407760	PLUG
19	407761	GEARBOX COVER RH
20	407766	GASKET
21	407770	SEAL
22	407762	BEARING
23	174697	THRUST WASHER 1.00
24	407763	WORM GEAR
25	407764	AUGER SHAFT
26	189282	SQUARE KEY
27	407758	BEARING
28	174683	THRUST WASHER
29	407757	IMPELLER SHAFT
30	7836M	ROLL PIN
31	174681	THRUST WASHER
32	174684	THRUST BEARING
33	407769	BEARING
34	407768	O-RING
35	407767	SCREW 5/16-18 X .750
36	407765	GEARBOX COVER LH

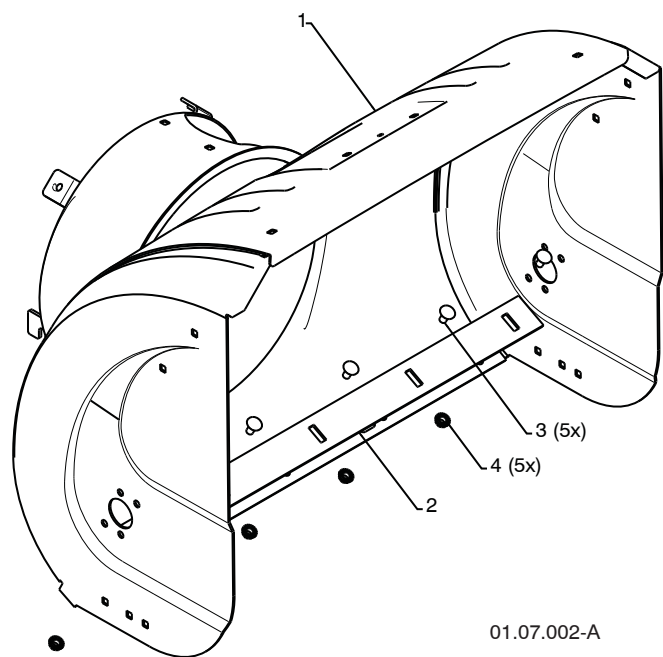
**NOTE:** All component dimensions given in U.S. inches. 1 inch = 25.4 mm

**IMPORTANT:** Use only Original Equipment Manufacturer (O.E.M.) replacement parts. Failure to do so could be hazardous, damage your snow thrower and void your warranty.

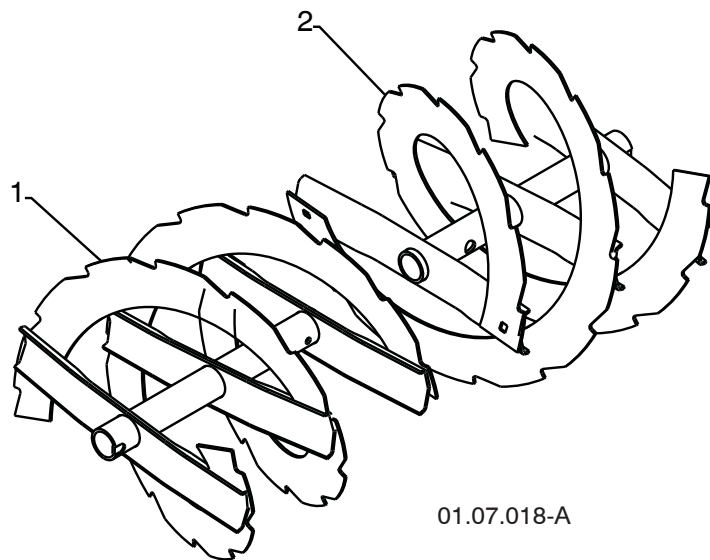
REPAIR PARTS

SNOW THROWER - - MODEL NUMBER 944.529970

AUGER HOUSING / IMPELLER ASSEMBLY



KEY NO.	PART NO.	DESCRIPTION
1	404929X615	AUGER HOUSING 27
2	404932X479	SCRAPER BAR
3	72270505	CARRIAGE BOLT 5/16-18 X .625
4	155377	NUT 5/16-18



KEY NO.	PART NO.	DESCRIPTION
1	420495X479	AUGER 27 LH
2	420496X479	AUGER 27 RH

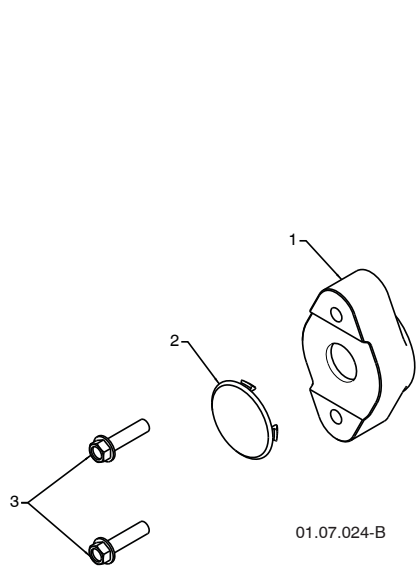
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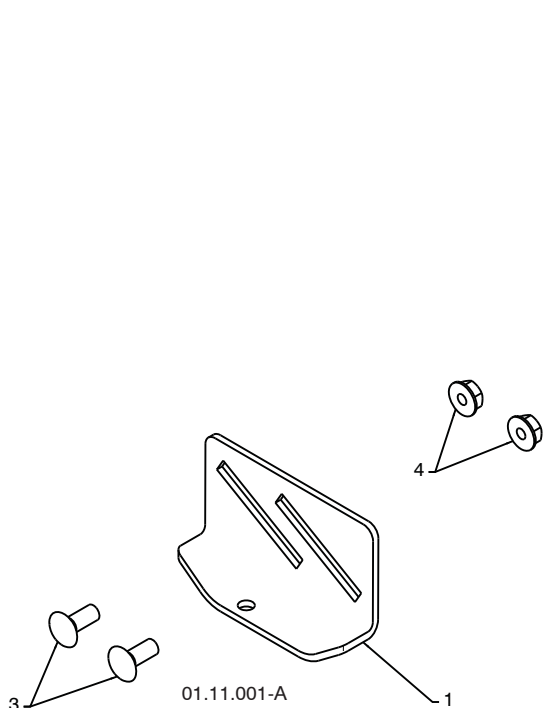
REPAIR PARTS

SNOW THROWER - - MODEL NUMBER 944.529970

AUGER HOUSING / IMPELLER ASSEMBLY



KEY NO.	PART NO.	DESCRIPTION
1	420478	AUGER BEARING
2	411939	BEARING PLUG
3	179582	SCREW 5/16-18 X 1.00



KEY NO.	PART NO.	DESCRIPTION
1	174762X479	SKID PLATE LH
2	178777X479	SKID PLATE RH
3	72270506	CARRIAGE BOLT 5/16-18 X .75
4	751153	NUT 5/16-18

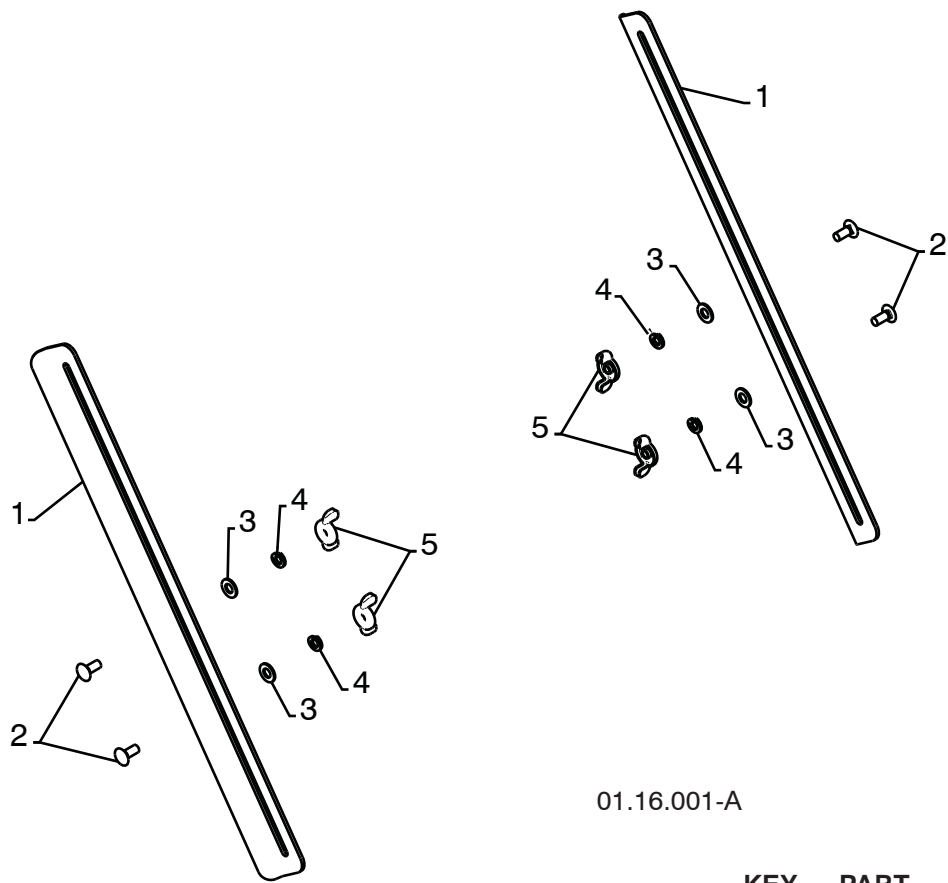
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REPAIR PARTS

SNOW THROWER - - MODEL NUMBER 944.529970

AUGER HOUSING / IMPELLER ASSEMBLY



01.16.001-A

KEY NO.	PART NO.	DESCRIPTION
1	181160X479	DRIFT CUTTER BAR
2	72270506	CARRIAGE BOLT 5/16-18X.750
3	179246	PLASTIC WASHER
4	10040500	LOCKWASHER 5/16
5	128638	NUT 5/16-18

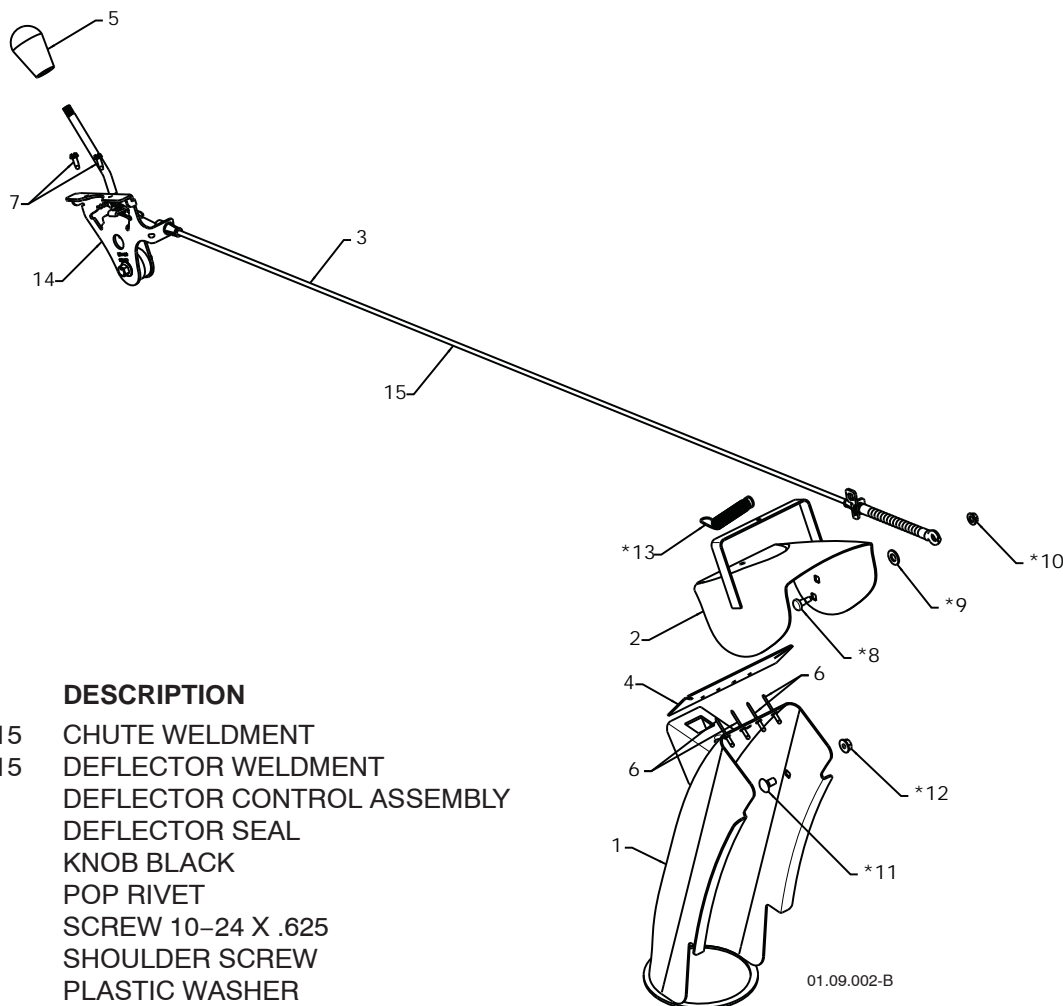
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## REPAIR PARTS

SNOW THROWER - - MODEL NUMBER 944.529970

### CONTROL PANEL / DISCHARGE CHUTE



KEY NO.	PART NO.	DESCRIPTION
1	404770X615	CHUTE WELDMENT
2	178633X615	DEFLECTOR WELDMENT
3	420673	DEFLECTOR CONTROL ASSEMBLY
4	420325	DEFLECTOR SEAL
5	414280	KNOB BLACK
6	128415	POP RIVET
7	17501010	SCREW 10-24 X .625
*8	179829	SHOULDER SCREW
*9	179246	PLASTIC WASHER
*10	191730	NUT 1/4-20
*11	72250505	CARRIAGE BOLT 5/16-18 X .50
*12	751153	NUT 5/16-18
*13	184505	DEFLECTOR SPRING
14	420679	(SERVICE PART) DEFLECTOR CONTROL HEAD
15	420672	(SERVICE PART) DEFLECTOR CONTROL CABLE

#### NOTE:

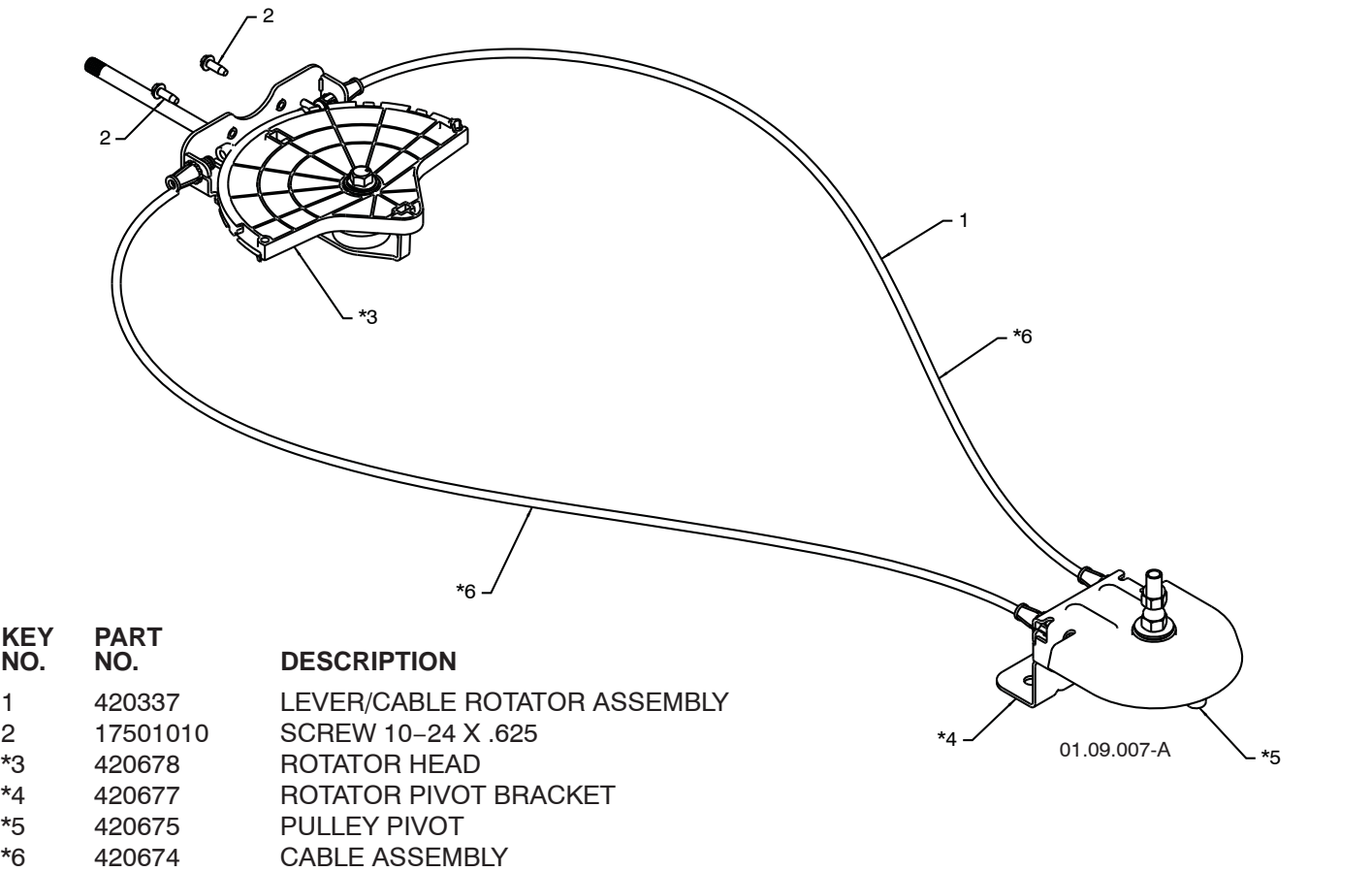
1. ALL ITEMS INDICATED WITH AN \* ARE PROVIDED IN THE BAG OF ITEMS SHIPPED LOOSE WITH PRODUCT.
2. ITEMS 14 AND 15 ARE SERVICE PART NUMBERS TO ALLOW PURCHASE OF INDIVIDUAL ITEMS IF NECESSARY.

**NOTE:** All component dimensions given in U.S. inches. 1 inch = 25.4 mm  
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REPAIR PARTS

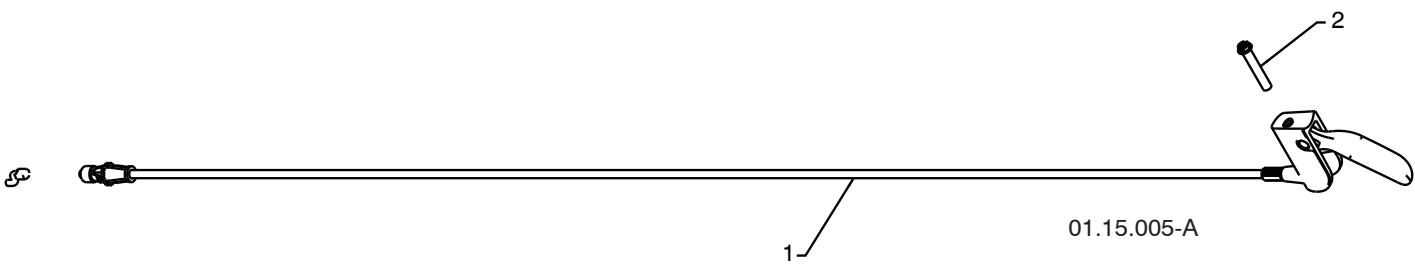
SNOW THROWER - - MODEL NUMBER 944.529970

CONTROL PANEL / DISCHARGE CHUTE



NOTES:

1. ITEMS INDICATED WITH AN \* ARE LISTED AS REFERENCE FOR SERVICE PARTS ONLY.

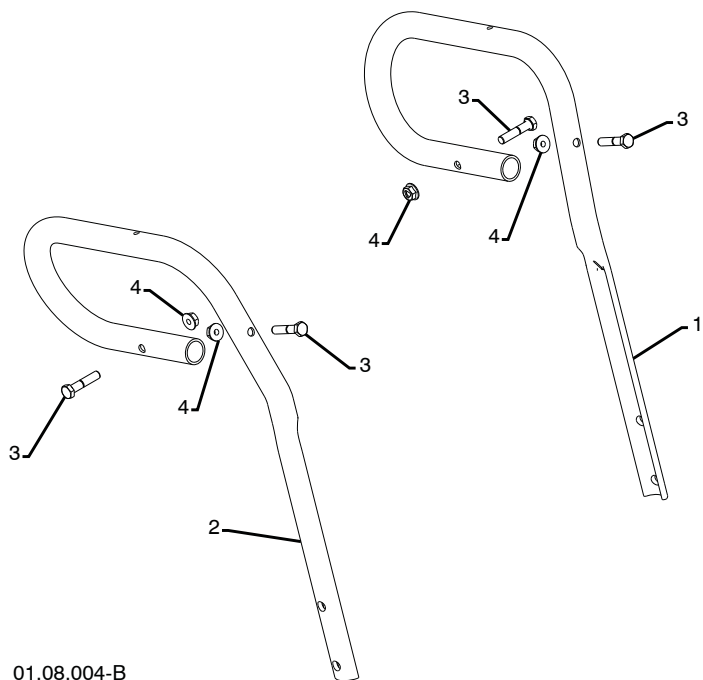


**NOTE:** All component dimensions given in U.S. inches. 1 inch = 25.4 mm

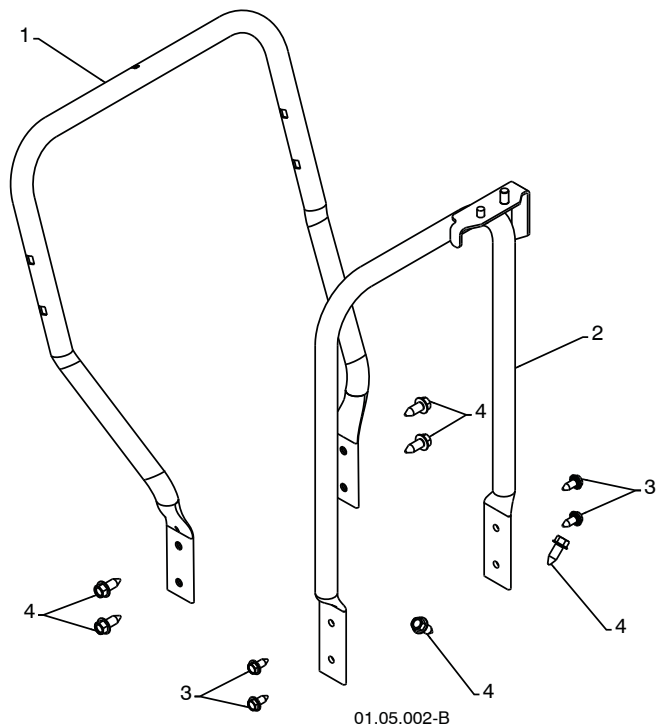
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**REPAIR PARTS  
HANDLES**

**SNOW THROWER - - MODEL NUMBER 944.529970**



KEY NO.	PART NO.	DESCRIPTION
1	419798X479	LOOP HANDLE LH
2	419799X479	LOOP HANDLE RH
3	74780524	SCREW 5/16-18 X 1.50
4	751153	NUT 5/16-18

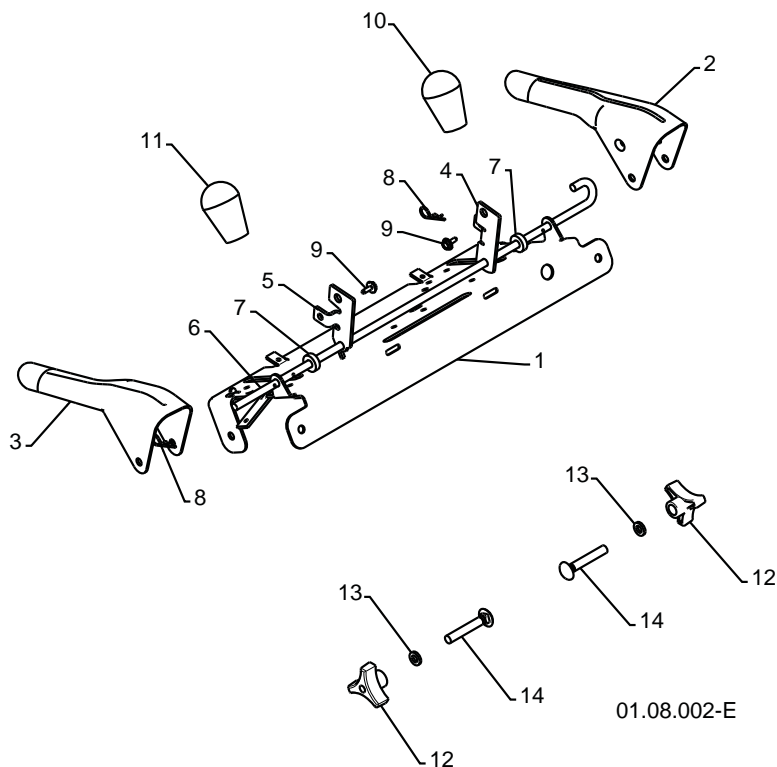


KEY NO.	PART NO.	DESCRIPTION
1	419797X479	LOWER HANDLE
2	405784X479	PIVOT SUPPORT WELDMENT
3	17000512	SCREW 5/16-18 X .750
4	17000616	SCREW 3/8-16 X 1.00

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# REPAIR PARTS HANDLES

## SNOW THROWER - - MODEL NUMBER 944.529970



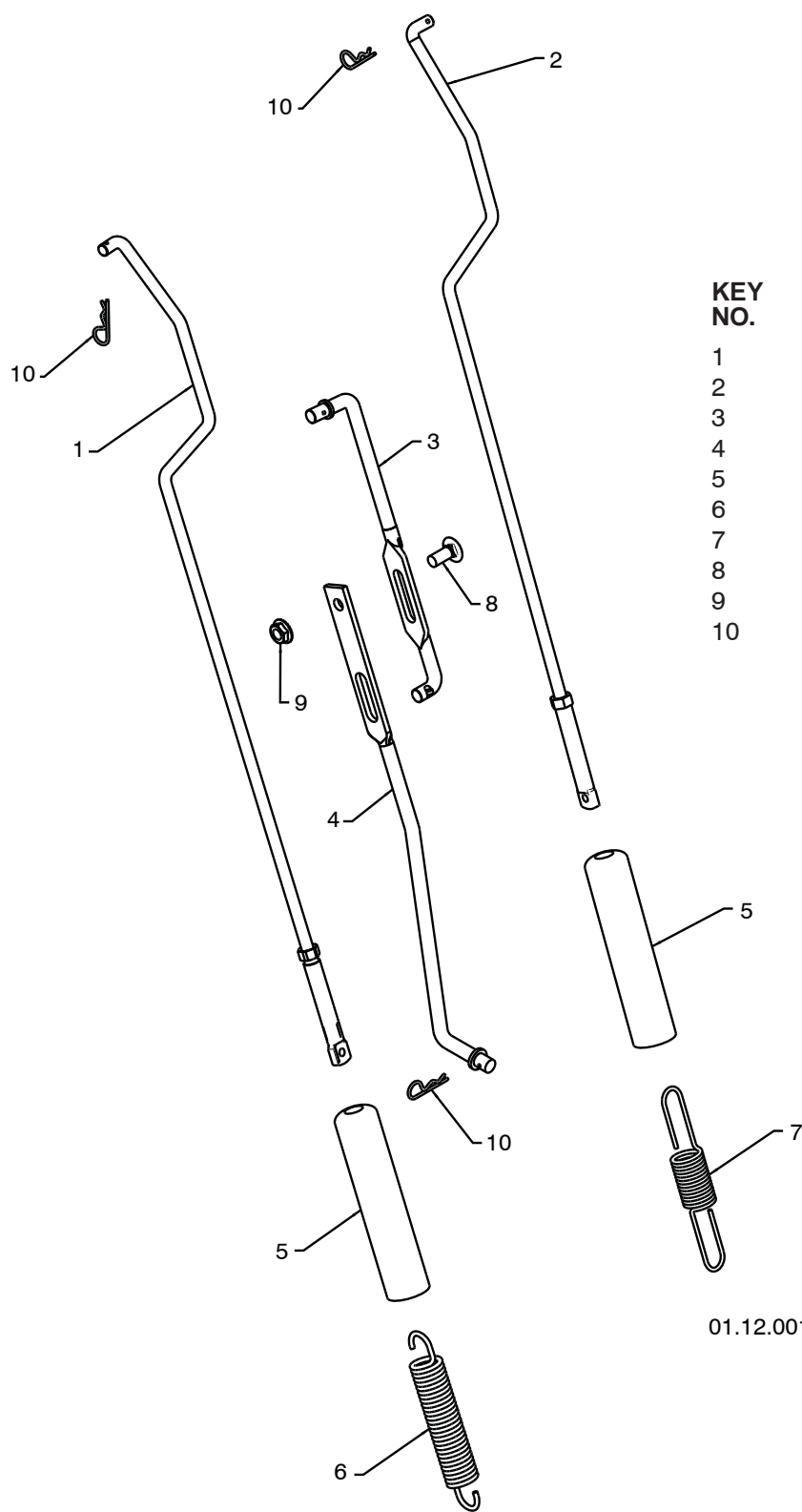
KEY NO.	PART NO.	DESCRIPTION
1	412683X479	CONTROL PANEL
2	412681X479	CONTROL LEVER LH
3	412682X479	CONTROL LEVER RH
4	412679X008	TRACTION ROD ARM
5	420889X008	IMPELLER ROD ARM
6	412677	INTERLOCK BAIL
7	421613	SPACER
8	169675	RETAINER
9	17060408	SCREW 1/4-20 X .50
10	414280	KNOB BLACK
11	414281	KNOB RED
12	178899	HANDLE KNOB
13	19131316	WASHER 3/8
14	72120618	CARRIAGE BOLT 3/8-16 X 2.25

**NOTE:** All component dimensions given in U.S. inches. 1 inch = 25.4 mm

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**REPAIR PARTS  
HANDLES**

**SNOW THROWER - - MODEL NUMBER 944.529970**



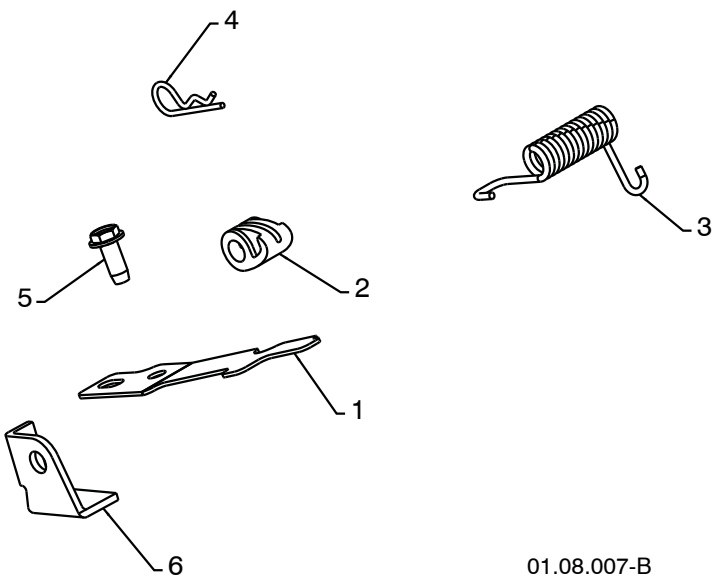
KEY NO.	PART NO.	DESCRIPTION
1	180480	IMPELLER ROD ASSEMBLY
2	405740	TRACTION ROD ASSEMBLY
3	180445	SHIFTER ROD TOP
4	187716	SHIFTER ROD BOTTOM
5	180447	SPRING SLEEVE
6	178669	IMPELLER SPRING
7	180926	TRACTION SPRING
8	72270506	CARRIAGE BOLT 5/16-18 X .75
9	155377	NUT 5/16-18
10	169675	RETAINER

01.12.001-B

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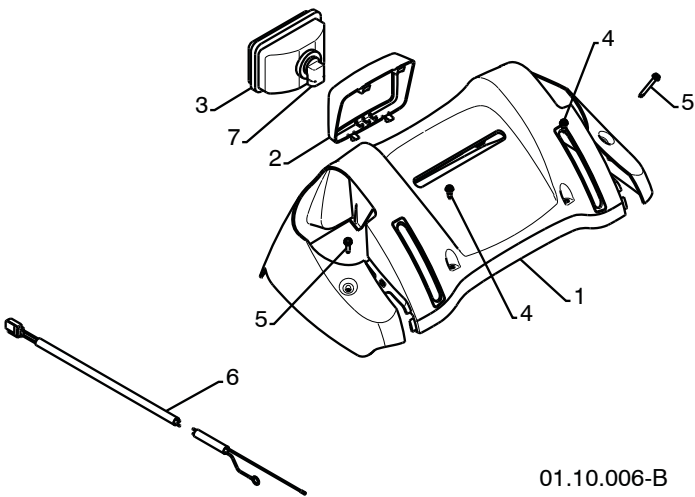
REPAIR PARTS  
HANDLES

SNOW THROWER - - MODEL NUMBER 944.529970



KEY NO.	PART NO.	DESCRIPTION
1	412675X004	INTERLOCK SPRING
2	414572	INTERLOCK CAM
3	178831	TORSION SPRING
4	169675	RETAINER
5	17060410	SCREW 1/4-20 X .625
6	421252X004	INTERLOCK STOP

01.08.007-B



KEY NO.	PART NO.	DESCRIPTION
1	182906	PANEL CONSOLE
2	178668	HEADLIGHT BEZEL
3	178666	HALOGEN HEADLIGHT
4	184471	SHOULDER SCREW
5	175262	SCREW 10-24 X 1.25
6	180964	WIRE HARNESS
7	401620	BULB

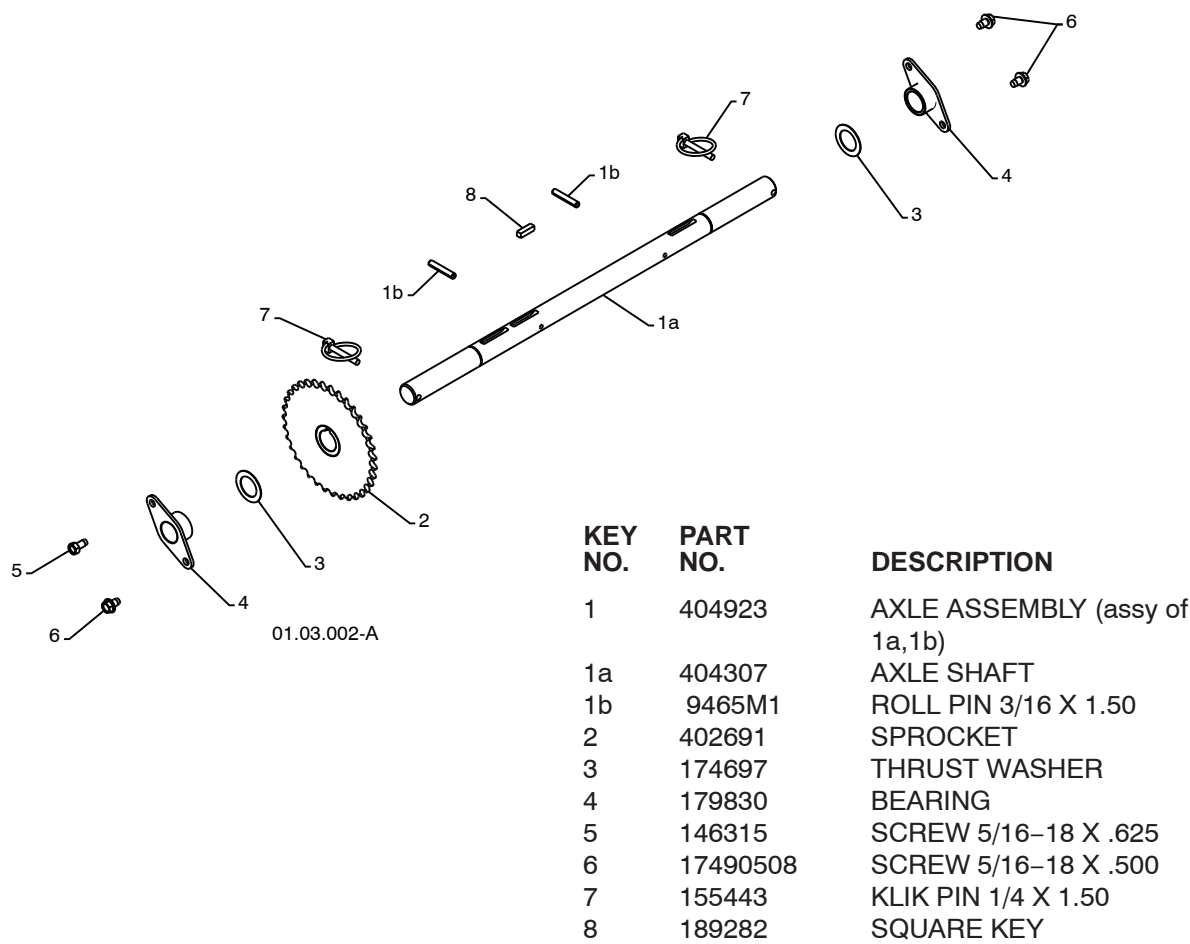
01.10.006-B

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**REPAIR PARTS**  
**DRIVE**

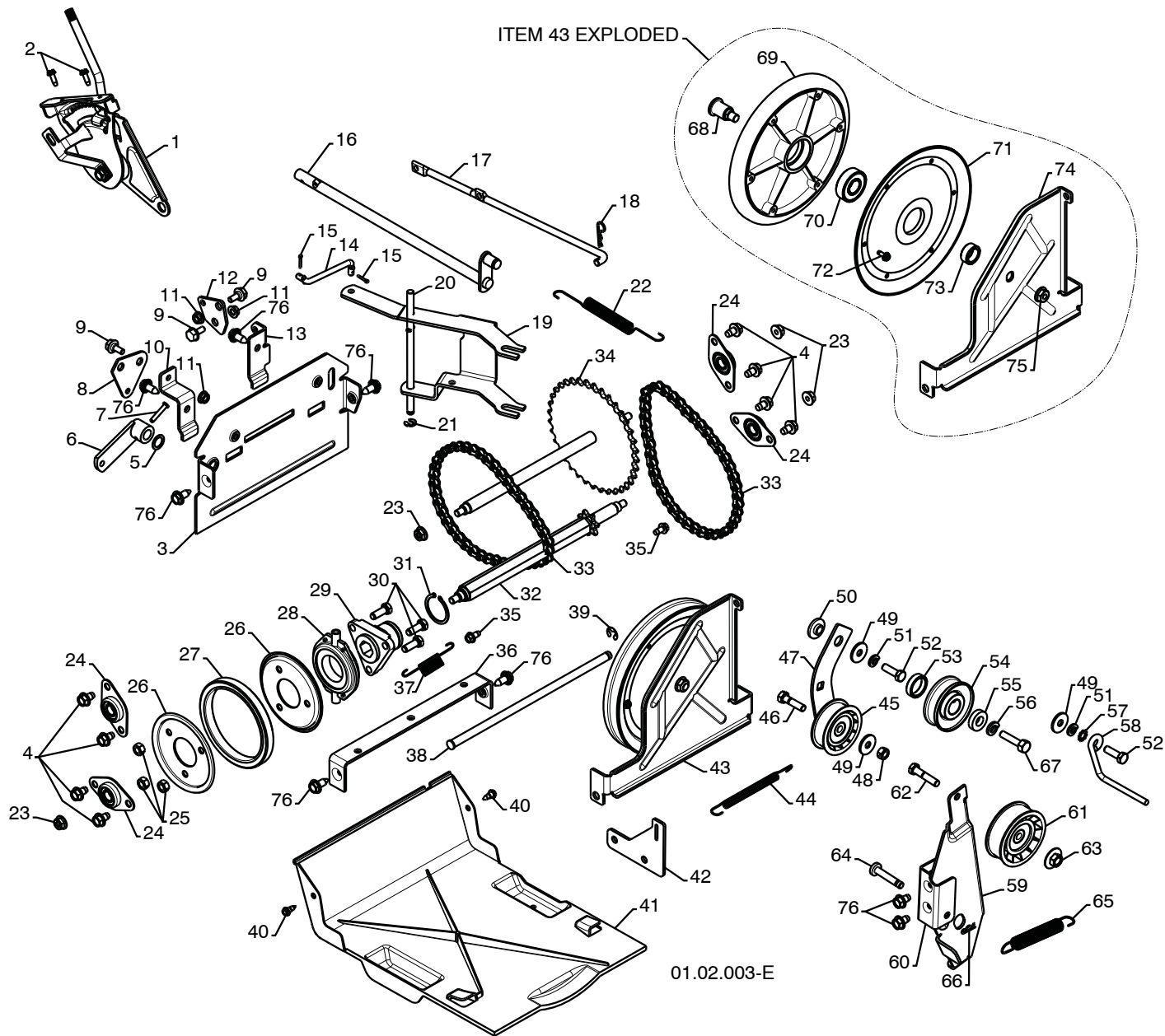
**SNOW THROWER - - MODEL NUMBER 944.529970**



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# REPAIR PARTS DRIVE

SNOW THROWER - - MODEL NUMBER 944.529970



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**REPAIR PARTS****SNOW THROWER - - MODEL NUMBER 944.529970****DRIVE**

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	198474	SPEED SELECTOR ASSEMBLY	39	12000007	E-RING .375
2	17501010	SCREW 10-24 X .625	40	184471	SHOULDER SCREW
3	402685X615	END PLATE	41	410877	BOTTOM PAN
4	17490508	SCREW 5/16-18 X .50	42	413429X479	SPRING BRACKET
5	57079	WASHER	43	402689	DRIVE PLATE ASSEMBLY
6	405485	CONTROL ARM	44	414557	IDLER SPRING
7	198580	CLEVIS PIN	45	180522	IDLER PULLEY
8	403097X004	SHIFTER PLATE	46	74780520	SCREW 5/16-18 X 1.25
9	402881	SHOULDER BOLT	47	187786	IDLER ARM
10	403096X004	SHIFTER BRACKET	48	73930500	NUT 5/16-18
11	191730	NUT 1/4-20	49	59289	WASHER
12	402856X004	CLUTCH PLATE	50	175331	PIVOT BUSHING
13	416717X004	CLUTCH BRACKET	51	10040500	LOCKWASHER 5/16
14	187101	SHIFTER LINK	52	74610516	SCREW 5/16-18 X 1.00
15	700279	RETAINER	53	409475	SPACER
16	406109	CONTROL SHAFT	54	180478	TRACTION PULLEY
17	402568	CLUTCH ROD	55	400026	WASHER 3/8
18	169675	RETAINER	56	850263	LOCKWASHER 3/8
19	401732	SHIFTER YOKE	57	11050500	LOCKWASHER
20	402310	PIVOT ROD	58	155452	BELT GUIDE
21	402882	RETAINER	59	419925X479	IDLER ARM
22	402878	RETURN SPRING	60	175324X479	IDLER BRACKET
23	751153	NUT 5/16-18	61	180523	IDLER PULLEY
24	408981	BEARING	62	74780524	SCREW 5/16-18 X 1.50
25	73930500	NUT 5/16-18	63	166785	NUT 5/16-18
26	198176X479	RUBBER WHEEL PLATE	64	175330	PIN IDLER PIVOT
27	179831	RUBBER RING	65	178828	IDLER SPRING
28	175344	BEARING	66	85179	RETAINER
29	178613	WHEEL HUB	67	851084	SCREW 3/8-24 X 1.375
30	74760514	SCREW 5/16-18-.875	68	402504X008	PULLEY SHAFT
31	12000012	RETAINER RING	69	401820	DRIVE PLATE
32	402187	HEX SHAFT	70	198791	BEARING
33	401619	CHAIN	71	402393	PULLEY HALF
34	417234	SPROCKET SHAFT	72	17541008	SCREW 10-24 X .50
35	17490408	SCREW 1/4-20 X .50	73	402511	SPACER BEARING
36	401984X479	SHIFTER BRACKET	74	418894X479	SWING PLATE
37	180135	SPRING	75	132010	NUT 3/8-16
38	402652	PLATE PIVOT ROD	76	17000512	SCREW 5/16-18 X .750

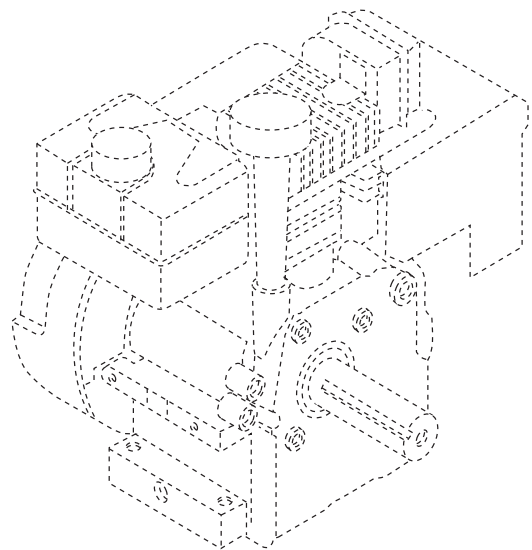
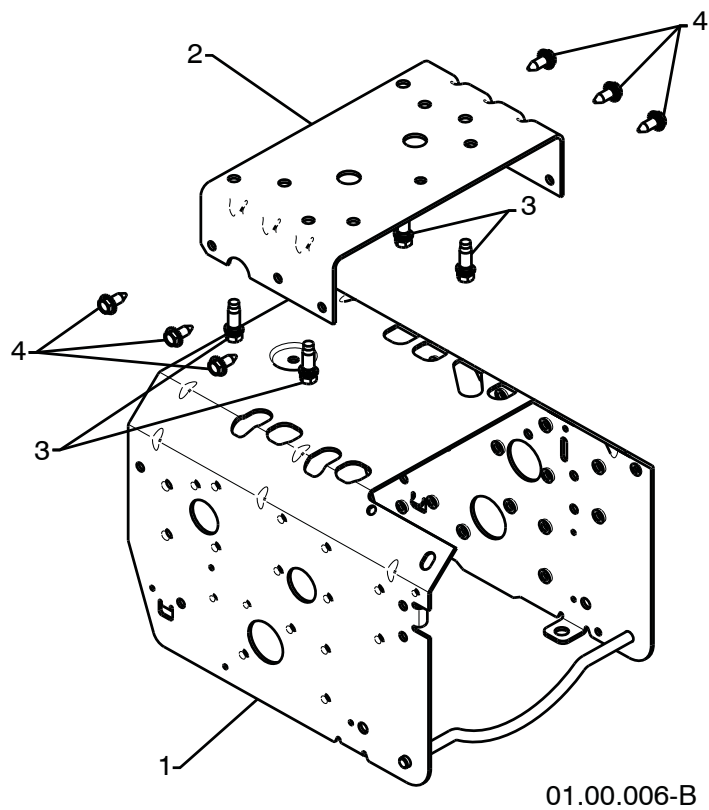
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REPAIR PARTS

SNOW THROWER - - MODEL NUMBER 944.529970

CHASSIS / ENGINE / PULLEYS



KEY NO.	PART NO.	DESCRIPTION
--	-----	ENGINE B&S MODEL 20M114-0922-E1
1	409346X615	FRAME WELDMENT
2	423185X615	ENGINE MOUNT PLATE
3	150406	ENGINE BOLT 3/8-16
4	17000512	SCREW 5/16-18 X .750

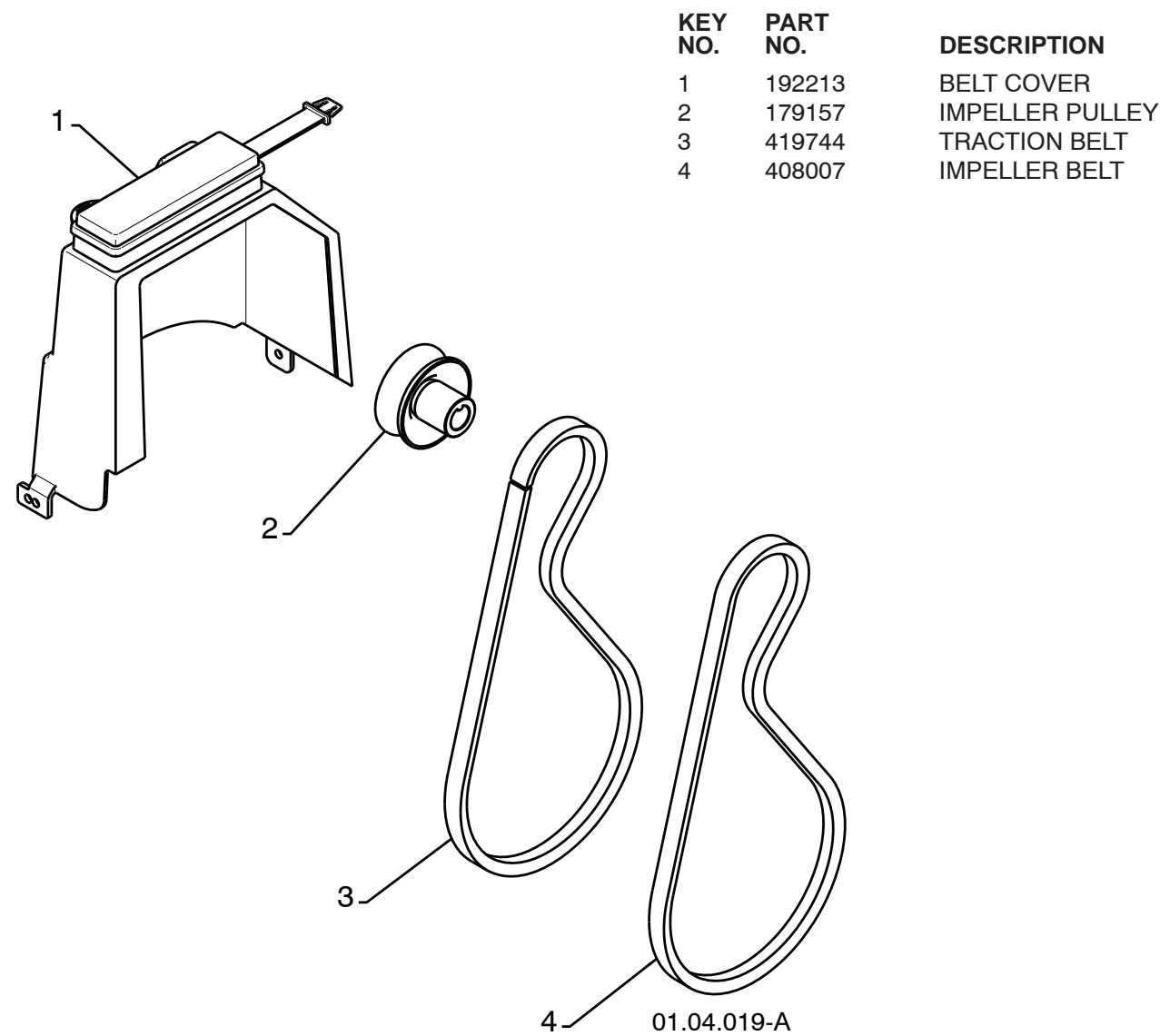
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**REPAIR PARTS**

**SNOW THROWER - - MODEL NUMBER 944.529970**

**CHASSIS / ENGINE / PULLEYS**

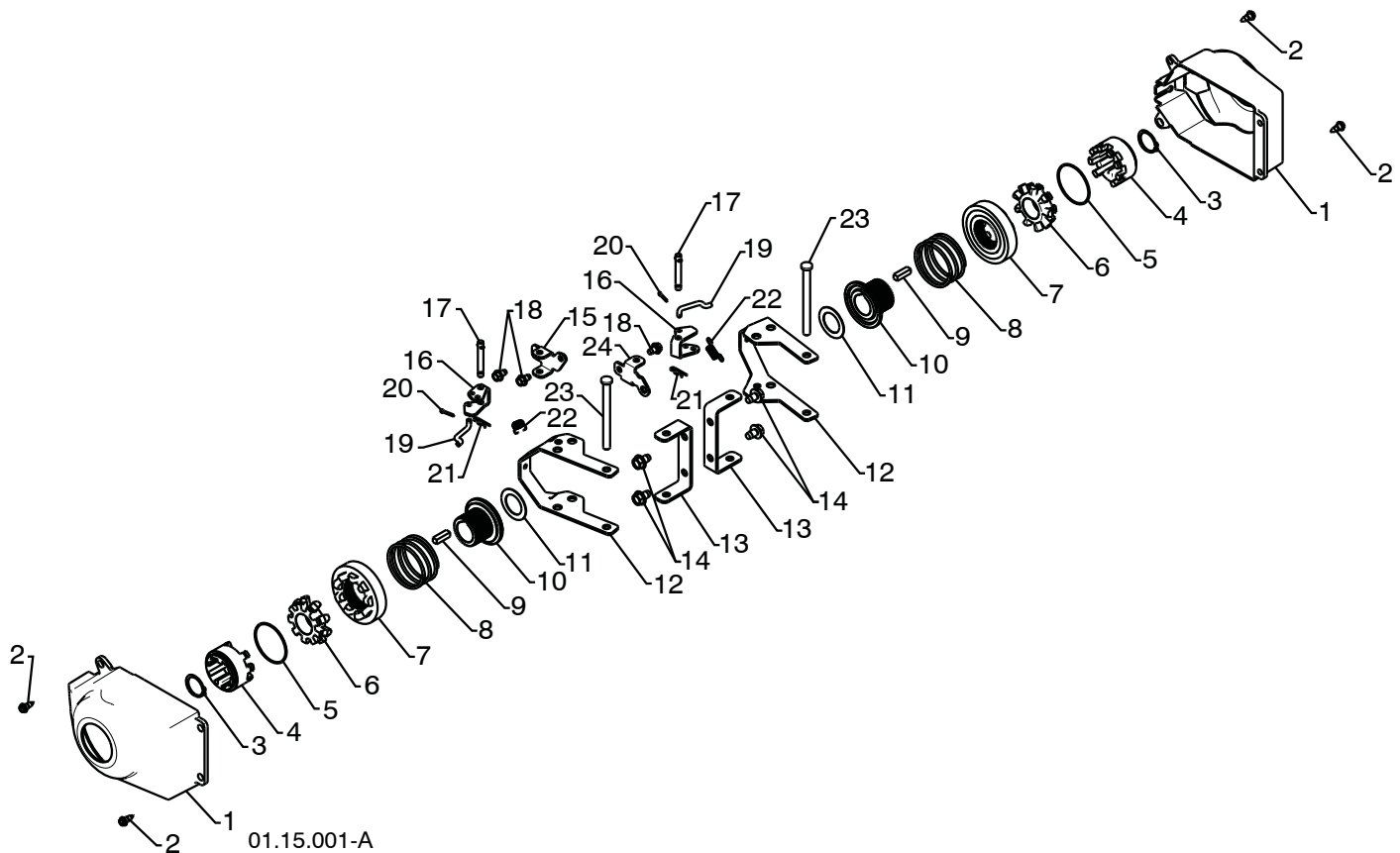


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# REPAIR PARTS WHEELS

## SNOW THROWER - - MODEL NUMBER 944.529970

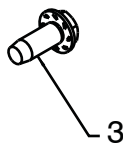
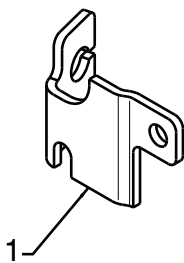
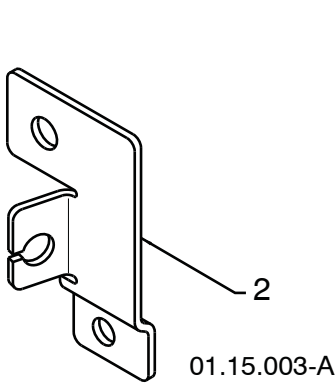


KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	405161	COVER	13	179148X479	STEERING BRACKET
2	184471	SHOULDER SCREW	14	17490508	SCREW 5/16-18 X .50
3	12000045	RETAINER RING	15	194943X008	PIVOT BRACKET
4	192126	WHEEL DRIVER	16	194944X008	BELLCRANK
5	182466	RETAINER RING	17	181847	BELLCRANK PIN
6	187622	WHEEL LOBE	18	17600406	SCREW 1/4-20 X .375
7	194941	CLUTCH SLIDE	19	405077	STEERING LINK
8	179139	SPRING	20	700279	RETAINER
9	189282	SQUARE KEY	21	85179	RETAINER
10	194940	AXLE LOBE	22	193885	SPRING
11	174697	THRUST WASHER	23	182015	LEVER PIN
12	193506X479	STEERING YOKE	24	194939X008	PIVOT BRACKET

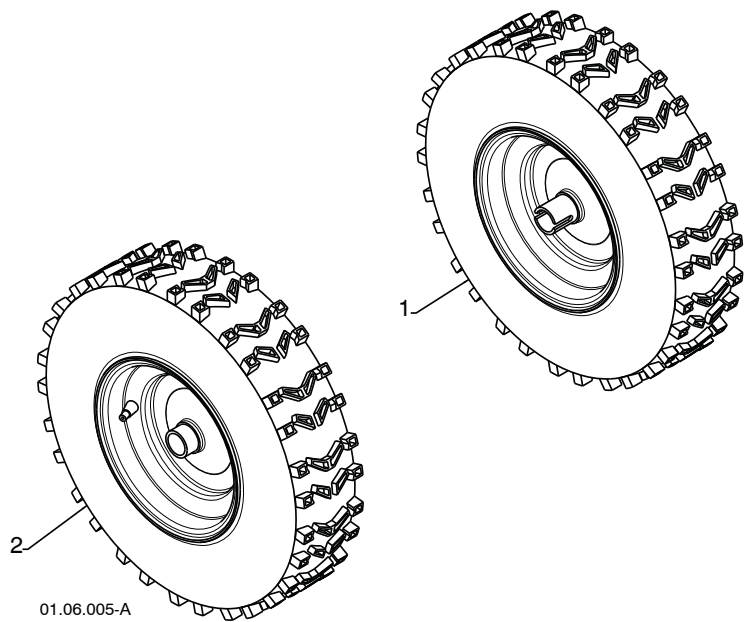
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**REPAIR PARTS**  
**WHEELS**

**SNOW THROWER - - MODEL NUMBER 944.529970**



KEY NO.	PART NO.	DESCRIPTION
1	410293	CABLE BRACKET LH
2	410294	CABLE BRACKET RH
3	17060410	SCREW 1/4-20 X .625



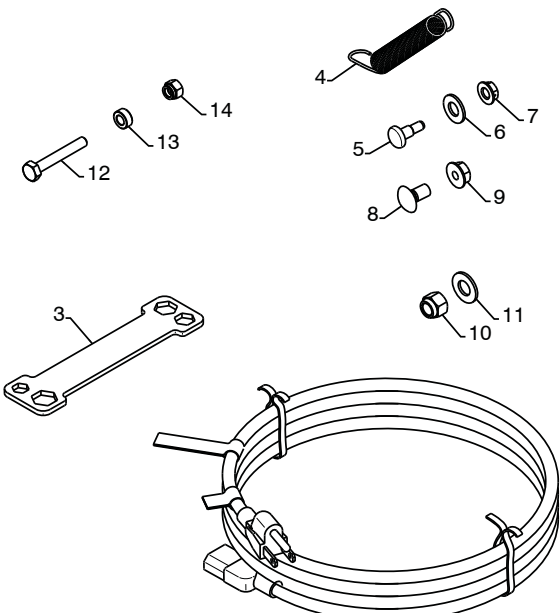
KEY NO.	PART NO.	DESCRIPTION
1	192092X417	WHEEL 16 X 4.80 X LH
2	192093X417	WHEEL 16 X 4.80 X RH

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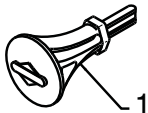
REPAIR PARTS

SNOW THROWER - - MODEL NUMBER 944.529970

BAG OF PARTS



KEY NO.	PART NO.	DESCRIPTION
1	198563	POWER CORD
2	169675	RETAINER PIN
3	180684	WRENCH
4	184505	REMOTE SPRING
5	179829	SHOULDER BOLT 1/4-20
6	179246	NYLON WASHER 1/4-20
7	191730	LOCKNUT 1/4-20
8	72250505	CARRIAGE BOLT 5/16-18 X 5/8
9	751153	LOCKNUT 5/16-18
10	73800600	LOCKNUT 3/8-16
11	19131316	WASHER 3/8
12	198636	SHEAR BOLT 1/4-20 X 1-3/4
13	198638	SPACER
14	73800400	LOCKNUT 1/4-20



01.14.007-A

KEY NO.	PART NO.	DESCRIPTION
1	193071	SAFETY IGNITION KEY

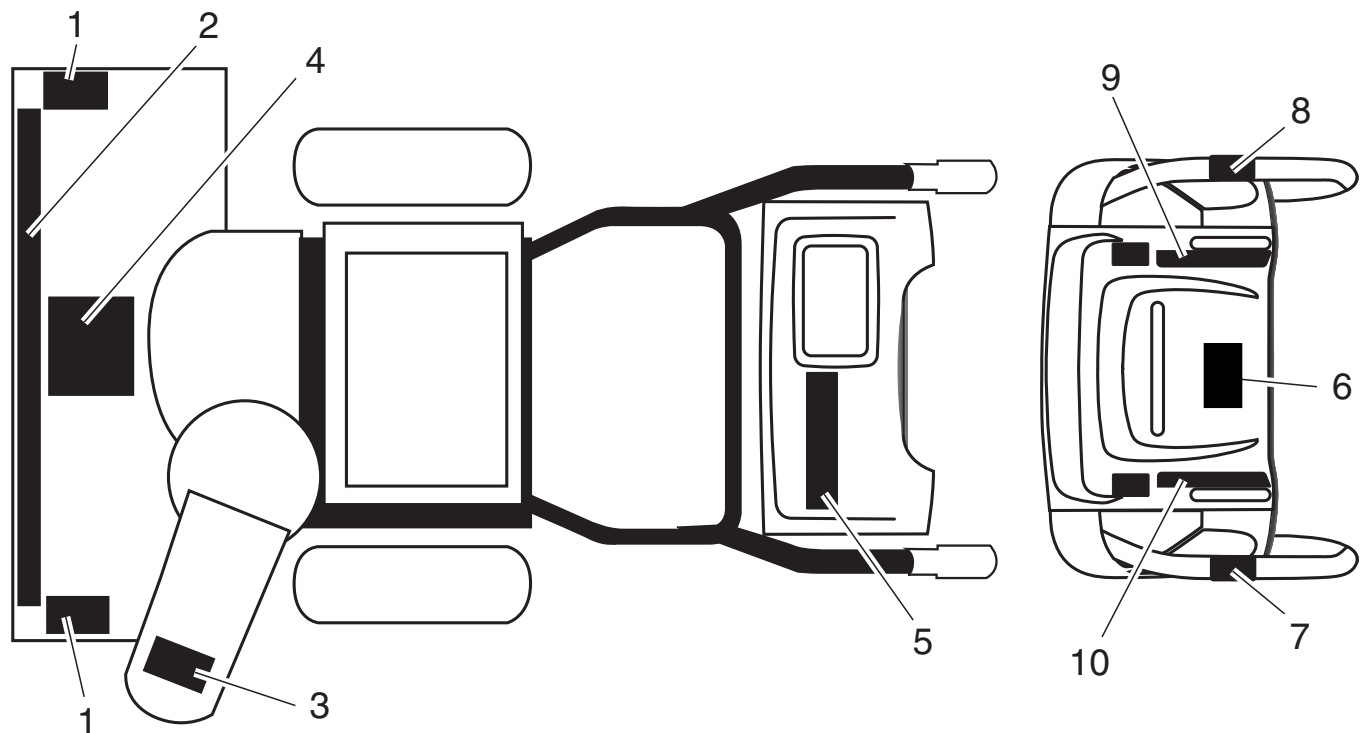
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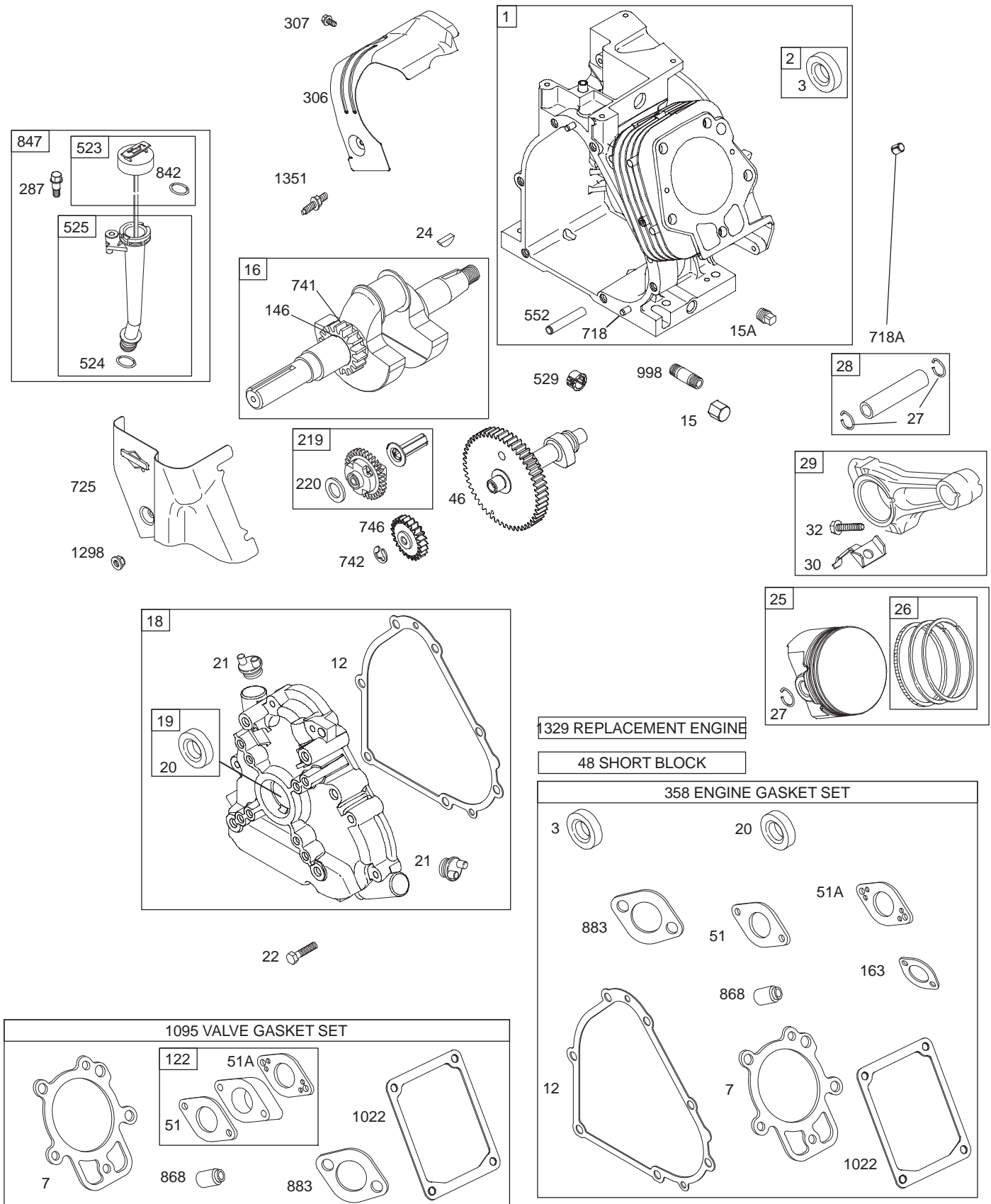
**REPAIR PARTS**  
**DECALS**

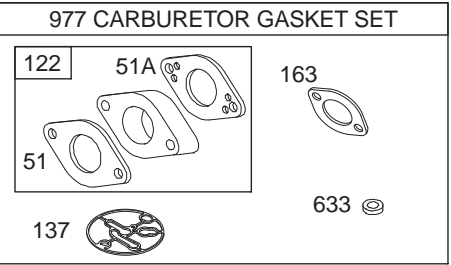
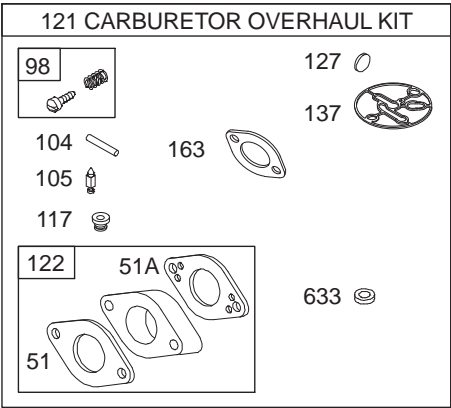
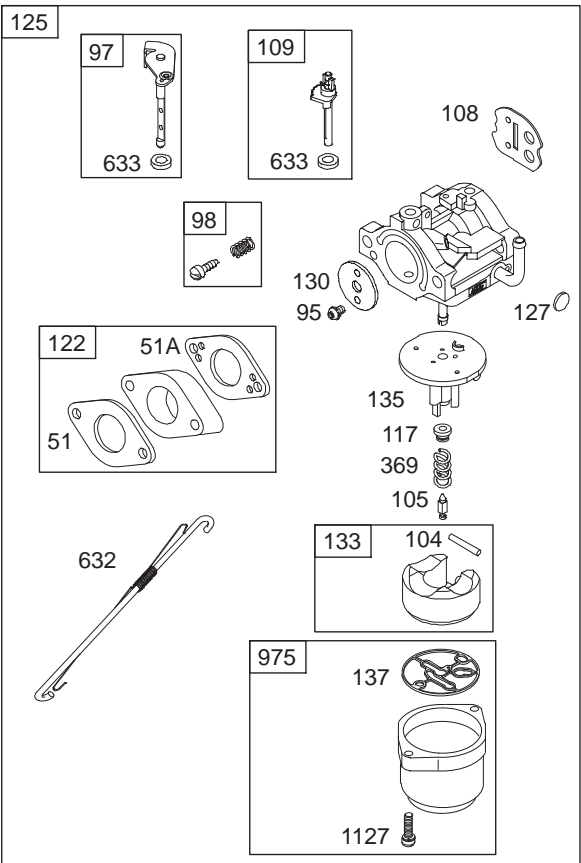
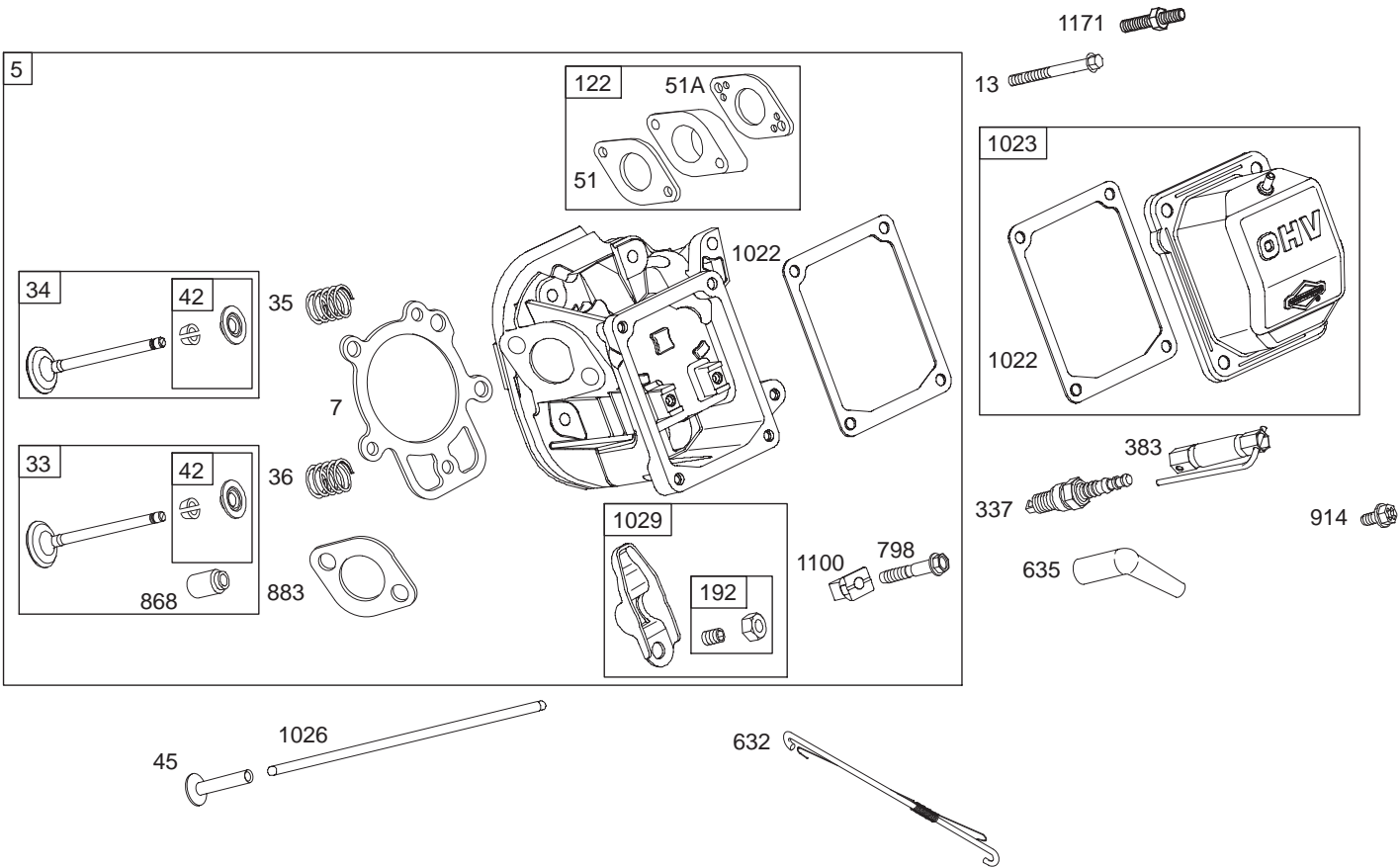
**SNOW THROWER - - MODEL NUMBER 944.529970**

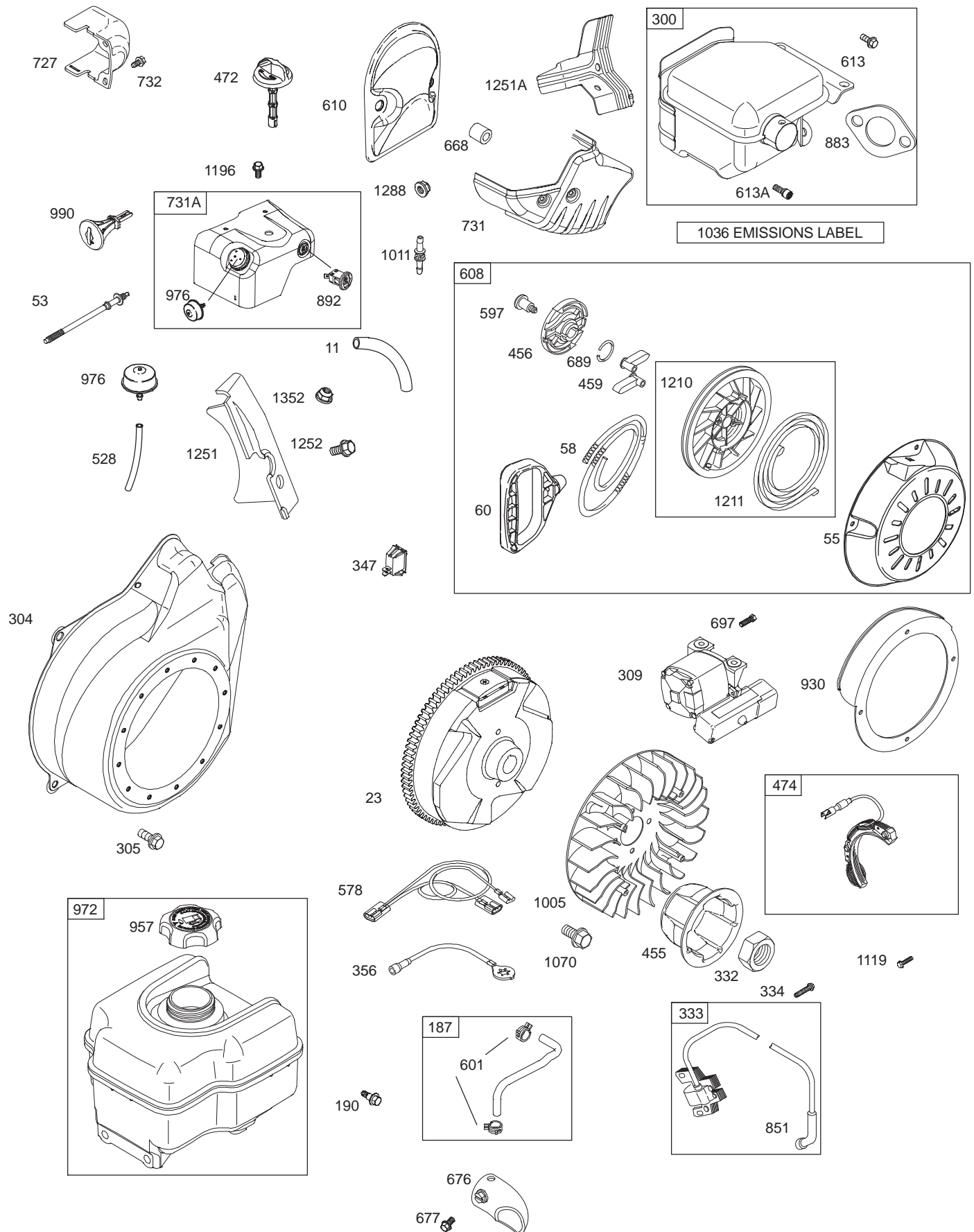


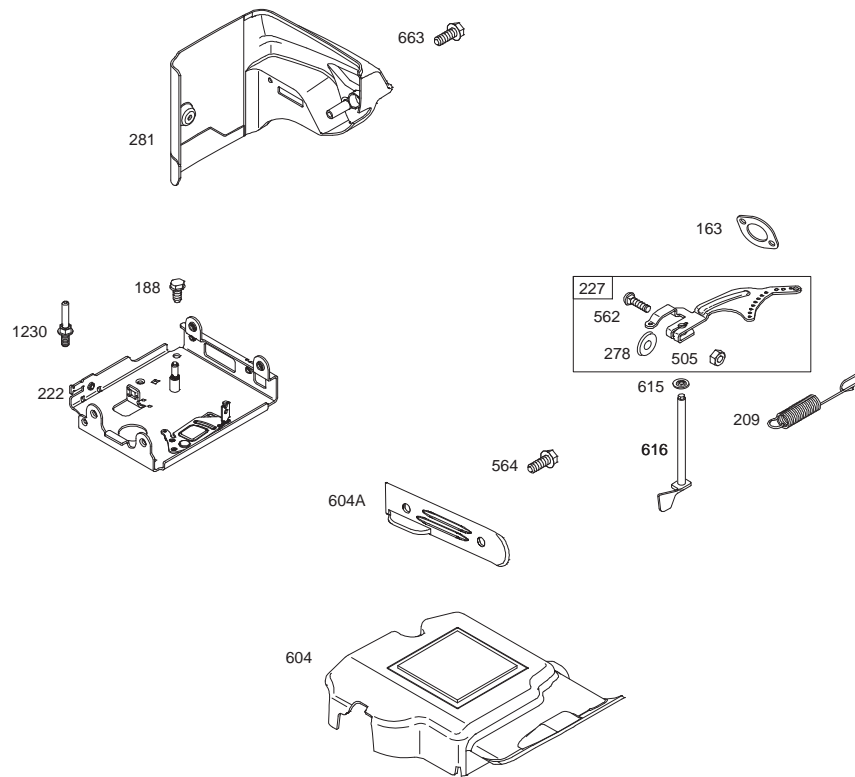
KEY NO.	PART NO.	DESCRIPTION
1	181037	DECAL, DANGER
2	421388	DECAL, CRAFTSMAN 27"/13.5
3	181035	DECAL, DANGER, DEFLECTOR
4	181042	DECAL, DANGER
5	421387	DECAL, CRAFTSMAN, 27"., 13.5 OHV
6	181033	DECAL, INSTRUCTION
7	415399	DECAL, TRACTION LEVER, POWER STEER LT.
8	415398	DECAL, POWER STEER RT.
9	415475	DECAL, SPEED CONTROL
10	183730	DECAL, REM DEFLECTOR
--	426419	OWNER'S MANUAL, ENGLISH
--	426420	OWNER'S MANUAL, FRENCH

**NOTE:** All component dimensions given in U.S. inches. 1 inch = 25.4 mm  
**IMPORTANT:** Use only Original Equipment Manufacturer (O.E.M.) replacement parts.  
Failure to do so could be hazardous, damage your snow thrower and void your warranty.









KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	794849	CYLINDER ASSEMBLY	24	222698S	KEY-FLYWHEEL
2	698340	KIT-BUSHING/SEAL (MAGNETO SIDE)	25	793561	PISTON ASSEMBLY (STANDARD)
3	391086S •	SEAL-OIL (MAGNETO SIDE)		792144	PISTON ASSEMBLY (.020" OVERSIZE)
5	794871	HEAD-CYLINDER			
7	694872 •+	GASKET-CYLINDER HEAD	26	792026	RING SET (STANDARD)
11	696750	TUBE-BREATHER		792073	RING SET (.020" OVERSIZE)
12	694953 •	GASKET-CRANKCASE	27	690975	LOCK-PISTON PIN
13	794829	SCREW (CYLINDER HEAD)	28	696581	PIN-PISTON
15	695757	PLUG-OIL DRAIN	29	694691	ROD-CONNECTING
15A	691686	PLUG-OIL DRAIN	30	694692	DIPPER-CONNECTING ROD
16	794720	CRANKSHAFT	32	690976	SCREW (CONNECTING ROD)
18	791965	COVER-CRANKCASE	33	499596	VALVE-EXHAUST
19	698340	KIT-BUSHING/SEAL (PTO SIDE)	34	792200	VALVE-INTAKE
20	391086S •	SEAL-OIL (PTO SIDE)	35	694865	SPRING-VALVE (INTAKE)
21	281658S	CAP-OIL FILL	36	694865	SPRING-VALVE (EXHAUST)
22	794825	SCREW (CRANKCASE COVER/SUMP)	42	499586	KEEPER-VALVE
23	794812	FLYWHEEL	45	690977	TAPPET-VALVE
			46	790958	CAMSHAFT

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
48	794910	SHORT BLOCK	337	691043	PLUG-SPARK
51	694874	•+ Ø‡ GASKET-INTAKE	347	698338	SWITCH-ROCKER
51A	694875	•+ Ø‡ GASKET-INTAKE	356	692603	WIRE-STOP
53	795017	STUD (CARBURETOR)	358	697715	GASKET SET-ENGINE
55	696710	HOUSING-REWIND STARTER	369	695422	SPRING-FLOAT BOWL
58	693389	ROPE-STARTER (CUT TO REQUIRED LENGTH)	383	19374S	WRENCH-SPARK PLUG
60	695740	GRIP-STARTER ROPE	455	795011	CUP-FLYWHEEL
95	690718	SCREW (THROTTLE VALVE)	456	692299	PLATE-PAWL FRICTION
97	696387	SHAFT-THROTTLE	459	281505S	PAWL-RATCHET
98	695408 Ø	KIT-IDLE SPEED	472	791948	KNOB-CHOKE SHAFT
104	694918 Ø	PIN-FLOAT HINGE	474	793640	ALTERNATOR
105	696136 Ø	VALVE-FLOAT NEEDLE	505	691251	NUT (GOVERNOR CONTROL LEVER)
108	696736	VALVE-CHOKE	523	790477	DIPSTICK
109	793520	SHAFT-CHOKE	524	691876	SEAL-O RING (DIPSTICK TUBE)
117	696134 Ø	JET-MAIN (STANDARD)	525	792041	TUBE-DIPSTICK
118	696135 Ø	JET-MAIN (HIGH ALTITUDE)	528	793006	HOSE-PRIMER
121	696146	KIT-CARBURETOR OVERHAUL	529	791822	GROMMET
122	694876 Ø‡	SPACER-CARBURETOR	552	694674	BUSHING-GOVERNOR CRANK
125	793161	CARBURETOR	562	793216	BOLT (GOVERNOR CONTROL LEVER)
127	690727 Ø	PLUG-WELCH	564	699854	SCREW (CONTROL COVER)
130	696139	VALVE-THROTTLE	578	792576	WIRE ASSEMBLY
133	694914	FLOAT-CARBURETOR	597	691696	SCREW (PAWL FRICTION PLATE)
135	696142	TUBE-FUEL TRANSFER	601	791850	CLAMP-HOSE
137	695426 Ø‡	GASKET-FLOAT BOWL	604	696758	COVER-CONTROL
146	690979	KEY-TIMING	604A	790473	COVER-CONTROL
163	692277 +Ø‡	GASKET-AIR CLEANER	608	699335	STARTER-REWIND
187	698080	LINE-FUEL	610	794541	ARRESTER-INTAKE
188	699479	SCREW (CONTROL BRACKET)	613	794846	SCREW (MUFFLER)
190	692127	SCREW (FUEL TANK)	613A	794844	SCREW (MUFFLER)
192	690083	ADJUSTER-ROCKER ARM	615	694676	RETAINER-GOVERNOR SHAFT
209	695491	SPRING-GOVERNOR	616	694675	CRANK-GOVERNOR
219	693578	GEAR-GOVERNOR	632	695917	SPRING/LINK-MECHANICAL GOVERNOR
220	691724	WASHER (GOVERNOR GEAR)	633	690998 Ø‡	SEAL-CHOKE/THROTTLE SHAFT
222	794801	BRACKET-CONTROL	635	691909	BOOT-SPARK PLUG
227	694864	LEVER-GOVERNOR CONTROL	663	699854	SCREW (CONTROL PANEL)
278	792008	WASHER (GOVERNOR CONTROL LEVER)	668	794539	SPACER
281	697268	PANEL-CONTROL	676	697816	DEFLECTOR-MUFFLER
287	699629	SCREW (DIPSTICK TUBE)	677	699776	SCREW (MUFFLER DEFLECTOR)
300	794947	MUFFLER	689	691855	SPRING-FRICTION
304	791479	HOUSING-BLOWER	697	795012	SCREW (STARTER MOTOR)
305	699480	SCREW (BLOWER HOUSING)	718	690959	PIN-LOCATING
306	697240	SHIELD-CYLINDER	718A	695178	PIN-LOCATING
307	794822	SCREW (CYLINDER SHIELD)	725	696756	SHIELD-HEAT
309	793524	MOTOR-STARTER			
332	794824	NUT (FLYWHEEL)			
333	492341	ARMATURE-MAGNETO			
334	699477	SCREW (MAGNETO ARMATURE)			



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
727	697465	COVER-STARTER DRIVE	1119	699772	SCREW (ALTERNATOR)
731	793621	HOOD-SNOW	1127	695407	SCREW (FLOAT BOWL)
731A	794540	HOOD-SNOW	1171	794828	STUD (ROCKER ARM COVER)
732	699200	SCREW (STARTER DRIVE COVER)	1196	696692	SCREW (SNOW HOOD)
741	691288	GEAR-TIMING	1210	498144	PULLEY/SPRING ASSEMBLY (PULLEY)
742	692564	RETAINER-E RING	1211	498144	PULLEY/SPRING ASSEMBLY (SPRING)
746	694679	GEAR-IDLER	1230	699847	STUD (CONTROL BRACKET)
798	697890	SCREW (ROCKER COVER)	1251	696762	SHIELD-SNOW
842	795015	SEAL-O RING (DIPSTICK TUBE)	1251A	790471	SHIELD-SNOW
847	790476	DIPSTICK/TUBE ASSEMBLY	1252	699480	SCREW (SNOW SHIELD)
851	692424	TERMINAL-SPARK PLUG	1288	696757	NUT (SNOW HOOD)
868	794086 •+	SEAL-VALVE	1298	795016	NUT (HEAT SHIELD)
883	695398 •+	GASKET-EXHAUST	1318	794838	KNOB-SNOW HOOD
892	791944	SWITCH-KEY	1329	20P414-0015	REPLACEMENT ENGINE (TRANSFER MUFFLER AND/OR SPARK ARRESTER ASSEMBLY FROM THE ORIGINAL ENGINE IF SUITABLE FOR ADDITIONAL SERVICE OR ADD NEW PARTS AS REQUIRED).
914	794827	SCREW (ROCKER COVER)			STUD (CYLINDER SHIELD)
930	696709	GUARD-REWIND			
957	694261	CAP-FUEL			
972	694260	TANK-FUEL			
975	696138	BOWL-FLOAT			
976	790221	PRIMER-CARBURETOR			
977	696147	GASKET SET-CARBURETOR			
990	695756	KEY SET	1351	794847	
998	792928	PIPE-OIL			
1005	794815	FAN-FLYWHEEL			
1011	794544	TUBE-VENT			
1022	690971 •+	GASKET-ROCKER COVER	•		INCLUDED IN ENGINE GASKET SET, KEY. NO. 358
1023	698042	COVER-ROCKER	Ø		INCLUDED IN CARBURETOR OVERHAUL KIT, KEY. NO. 121
1026	695177	ROD-PUSH	‡		INCLUDED IN CARBURETOR GASKET SET, KEY. NO. 977
1029	690972	ARM-ROCKER	+		INCLUDED IN VALVE GASKET SET, KEY. NO. 1095
1036		LABEL-EMISSIONS (AVAILABLE FROM AN AUTHORIZED BRIGGS & STRATTON SERVICE DEALER)			
1070	794821	SCREW (FLYWHEEL FAN)			
1095	695440	GASKET SET-VALVE			
1100	791959	PIVOT-ROCKER ARM			

**NOTE:** ALL COMPONENT DIMENSIONS GIVEN IN U.S. INCHES 1 INCH = 25.4 MM

### Engine Power Rating Information

The gross power rating for individual gas engine models is labeled in accordance with SAE (Society of Automotive Engineers) code J11940 (Small Engine Power & Torque Rating Procedure), and rating performance has been obtained and corrected in accordance with SAE J1995 (Revision 2002-5). Actual gross engine power will be lower and is affected by, among other things, ambient operating conditions and engine-to-engine variability. Given both the wide array of products on which engines are placed and the variety of environmental issues applicable to operating the equipment, the gas engine will not develop the rated gross power when used in a given piece of power equipment (actual "on-site" or net horsepower). This difference is due to a variety of factors including, but not limited to, accessories (air cleaner, exhaust, charging, cooling, carburetor, fuel pump, etc.), application limitations, ambient operating conditions (temperature, humidity, altitude), and engine-to-engine variability. Due to manufacturing and capacity limitations, Briggs & Stratton may substitute an engine of higher rated power for this Series engine.

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