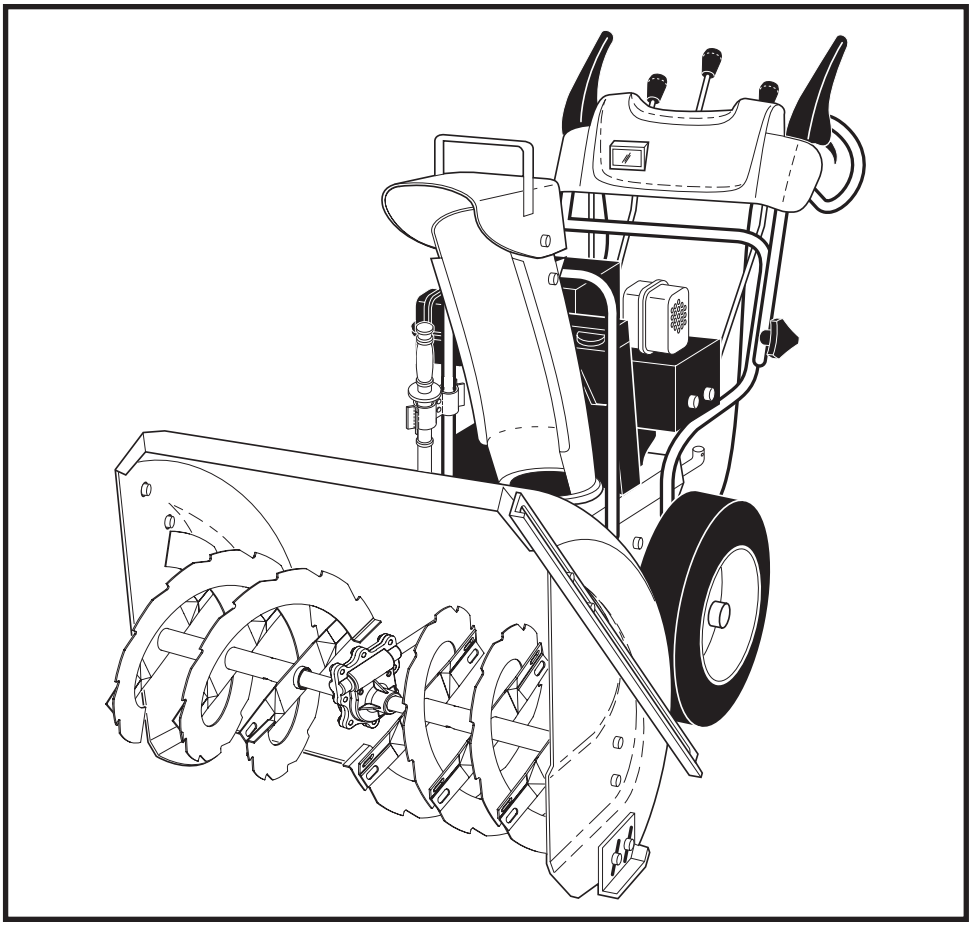
SEARS

OWNER'S MANUAL

MODEL NO. 944.527692

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

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

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.

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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 shalll 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 Sears service centre/department. 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.

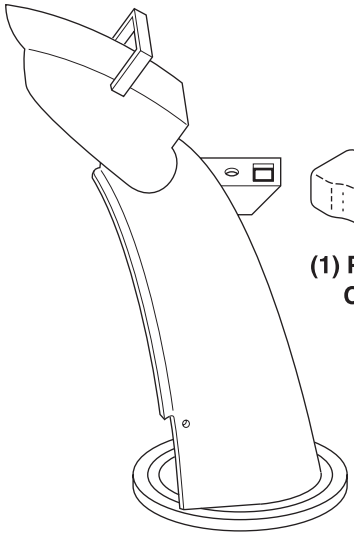
PRODUCT SPECIFICATIONS

Gasoline Capacity and Type:	4,54 Liters Unleaded Regular only
Oil Type (API SG–SL):	SAE 5W-30 or 10W-30 (0°F to +40°F / –18°C to +5°C) Synthetic SAE 5W-30 or 10W-30 (below 0°F / –18°C)
Oil Capacity:	0,8 Liters
Spark Plug: Gap:	Champion RC12YC 0,072 mm

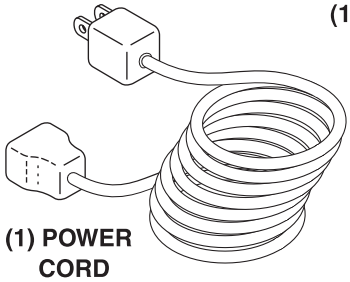
CUSTOMER RESPONSIBILITIES

- 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

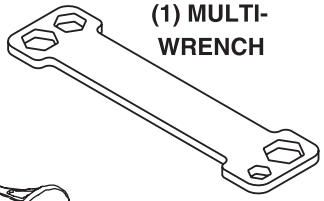


(1) DISCHARGE CHUTE

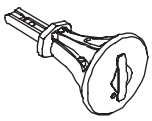


(1) POWER CORD

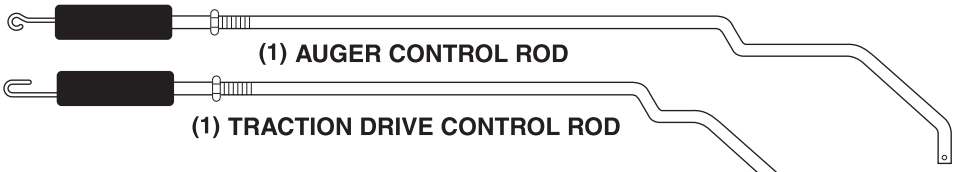
(1) FUEL STABILIZER PACKET



(1) MULTI-WRENCH



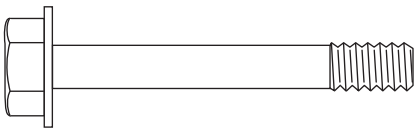
(2) SAFETY IGNITION KEYS



(1) AUGER CONTROL ROD

(1) TRACTION DRIVE CONTROL ROD

EXTRA SHEAR BOLTS AND NUTS

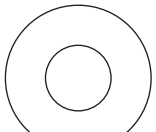


(2) SHEAR BOLTS 1/4-20 x 1-3/4

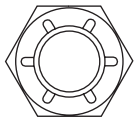
(2) SPACERS

(2) LOCKNUTS 1/4-20

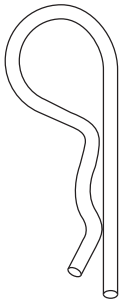
ROTATOR HEAD MOUNTING



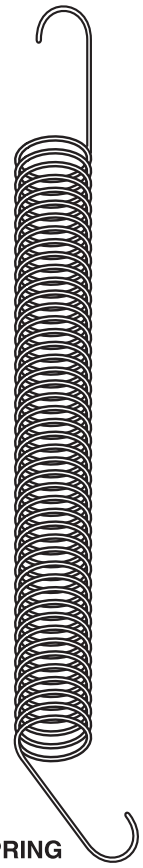
(1) WASHER 3/8



(1) LOCKNUT 3/8

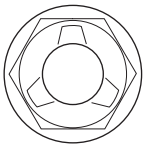


(3) RETAINER SPRINGS

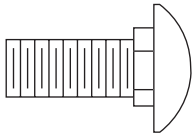


(1) SPRING

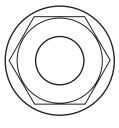
CHUTE DEFLECTOR REMOTE CONTROL



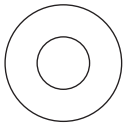
(1) LOCKNUT 5/16-18



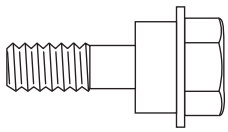
(1) CARRIAGE BOLT 5/16-18 x 5/8



(1) LOCKNUT 1/4-20



(1) NYLON WASHER



(1) SHOULDER BOLT 1/4-20

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.

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.

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

1. Remove plastic tie securing rod to lower handle.
2. Insert rod into speed control bracket and secure with retainer spring.

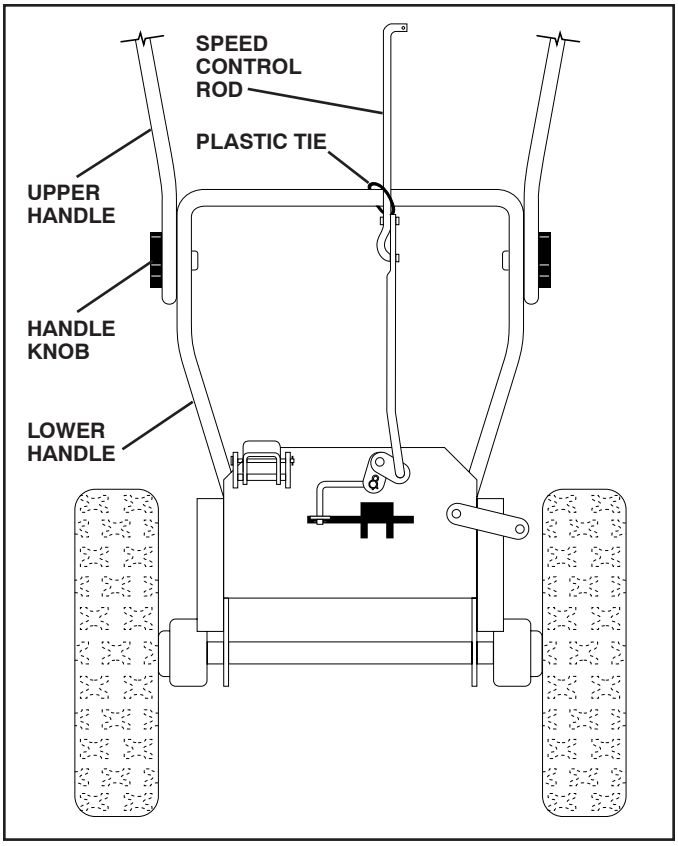


FIG. 1

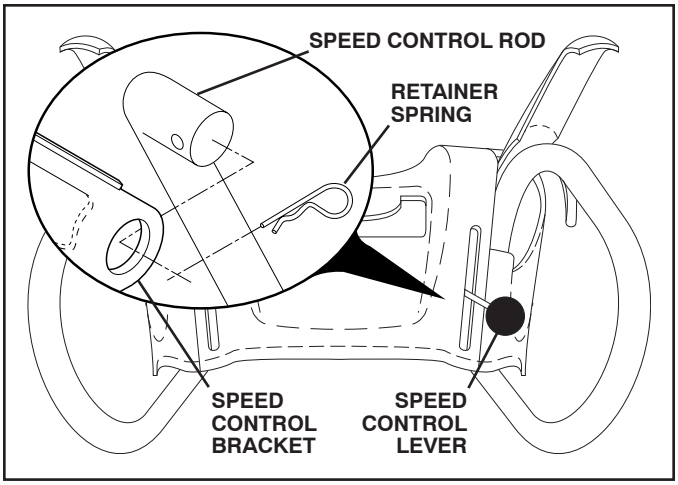


FIG. 2

ASSEMBLY / PRE-OPERATION

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.

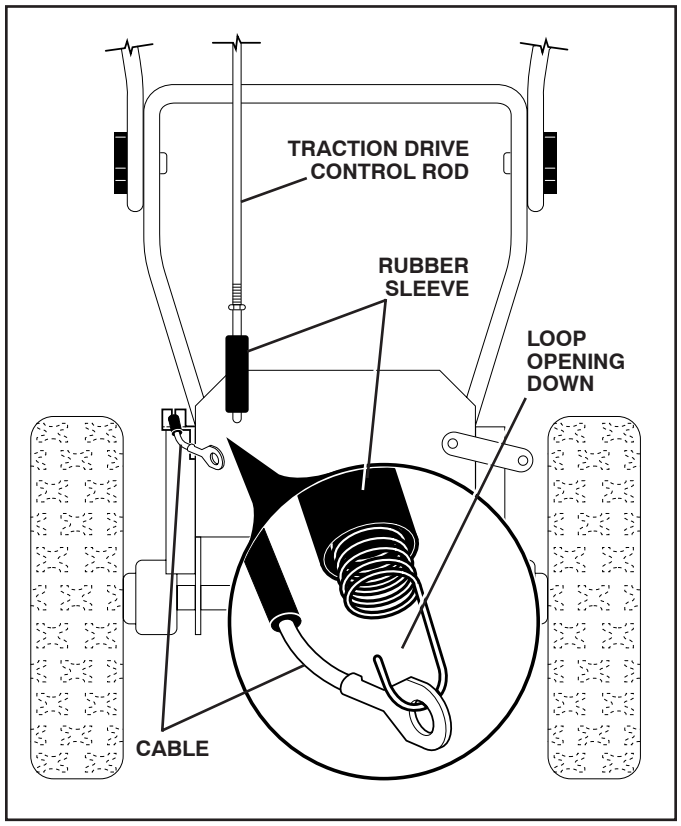


FIG. 3

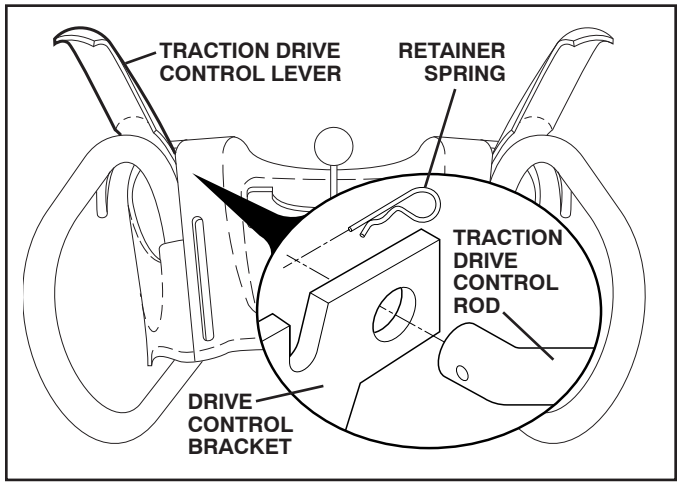


FIG. 4

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.

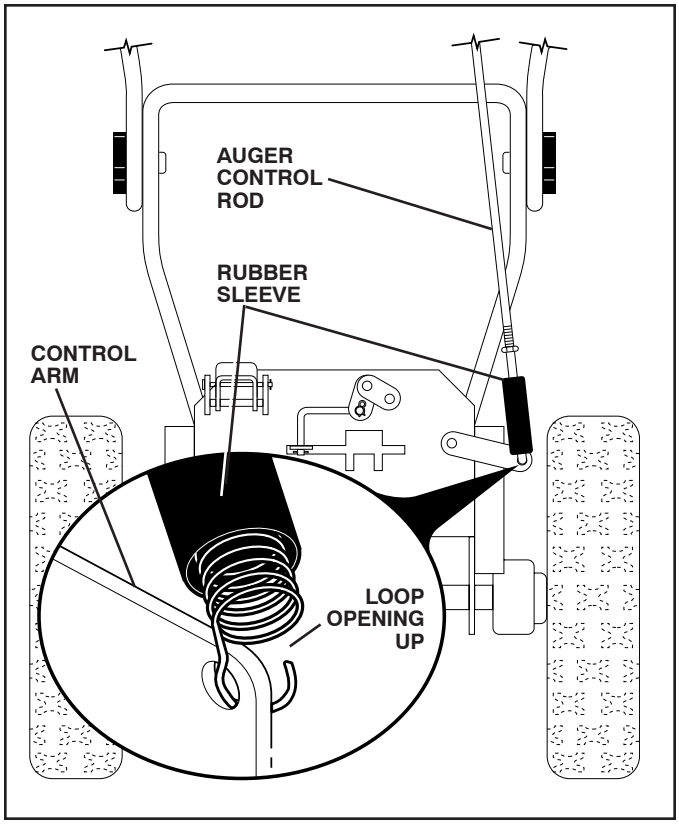


FIG. 5

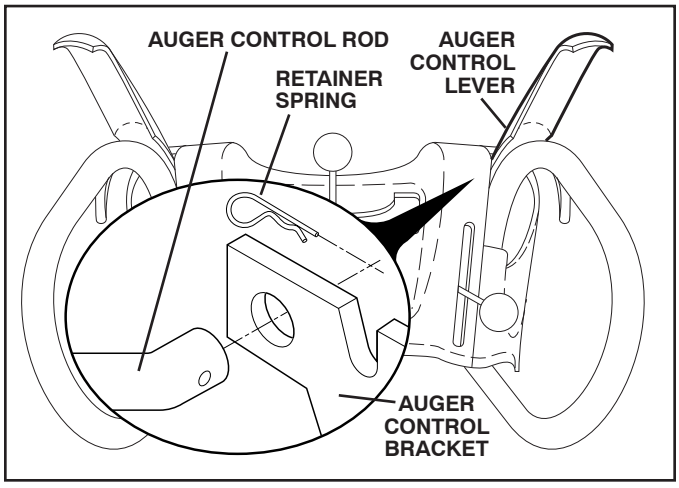


FIG. 6

ASSEMBLY / PRE-OPERATION

INSTALL DISCHARGE CHUTE / CHUTE ROTATOR HEAD (See Fig. 7)

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

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

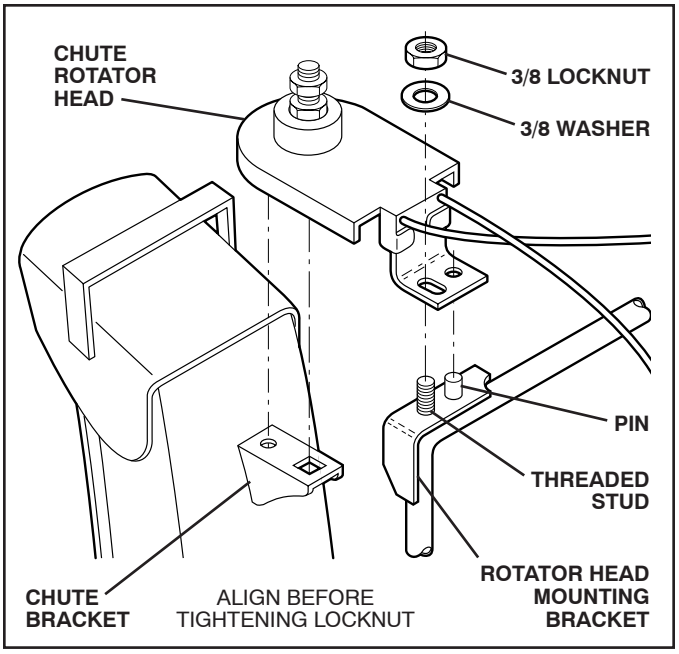


FIG. 7

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 rotator head and into hole in chute deflector as shown.

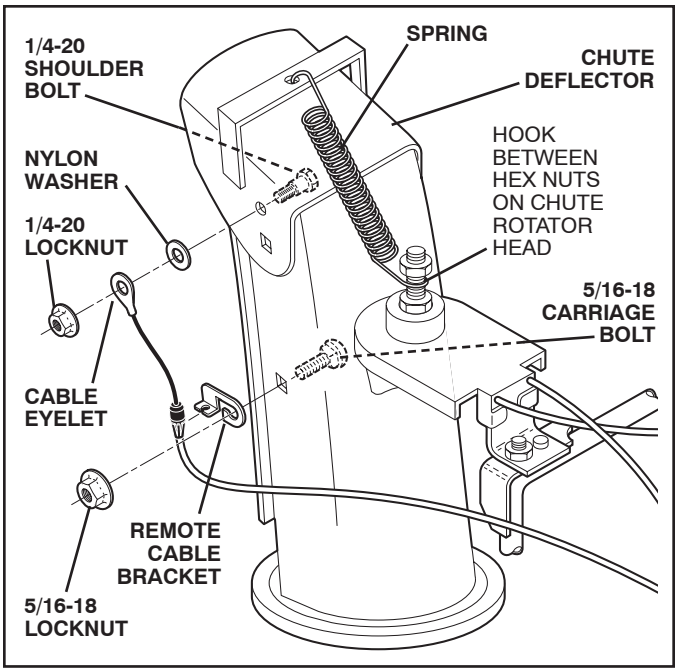


FIG. 8

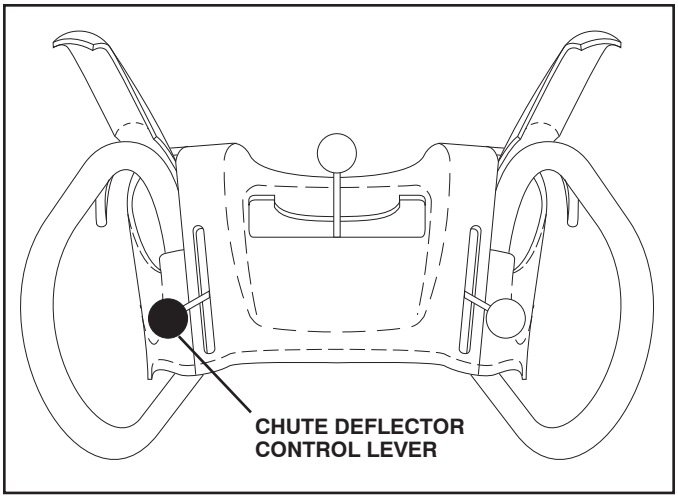


FIG. 9

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.

DANGER OR WARNING

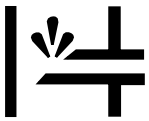
ENGINE ON

ENGINE OFF

FAST

SLOW

CHOKE



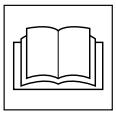
PRIMER

FUEL

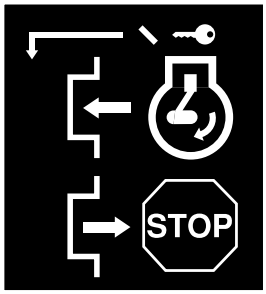
OIL

FORWARD

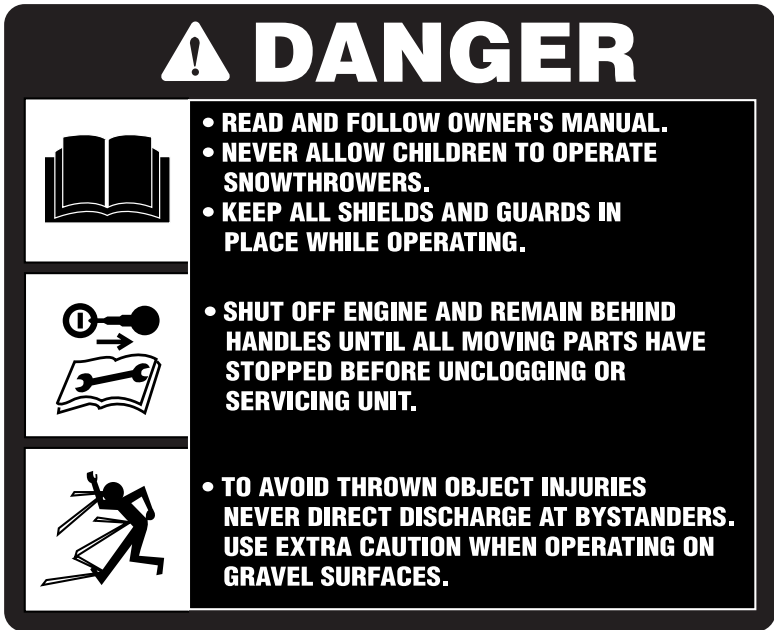
REVERSE

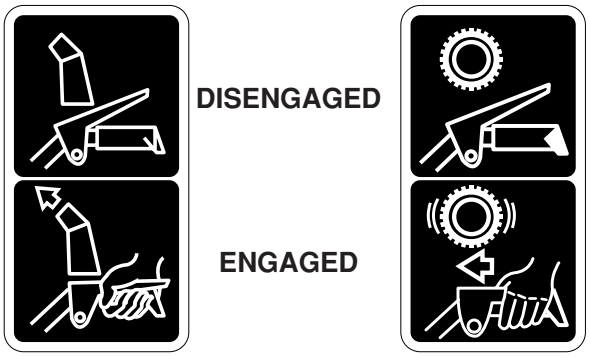


READ AND FOLLOW ALL SAFETY INFORMATION AND INSTRUCTIONS BEFORE USE OF THIS PRODUCT. KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE.



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





SNOW DISCHARGE

TRACTION DRIVE CONTROL

OPERATION

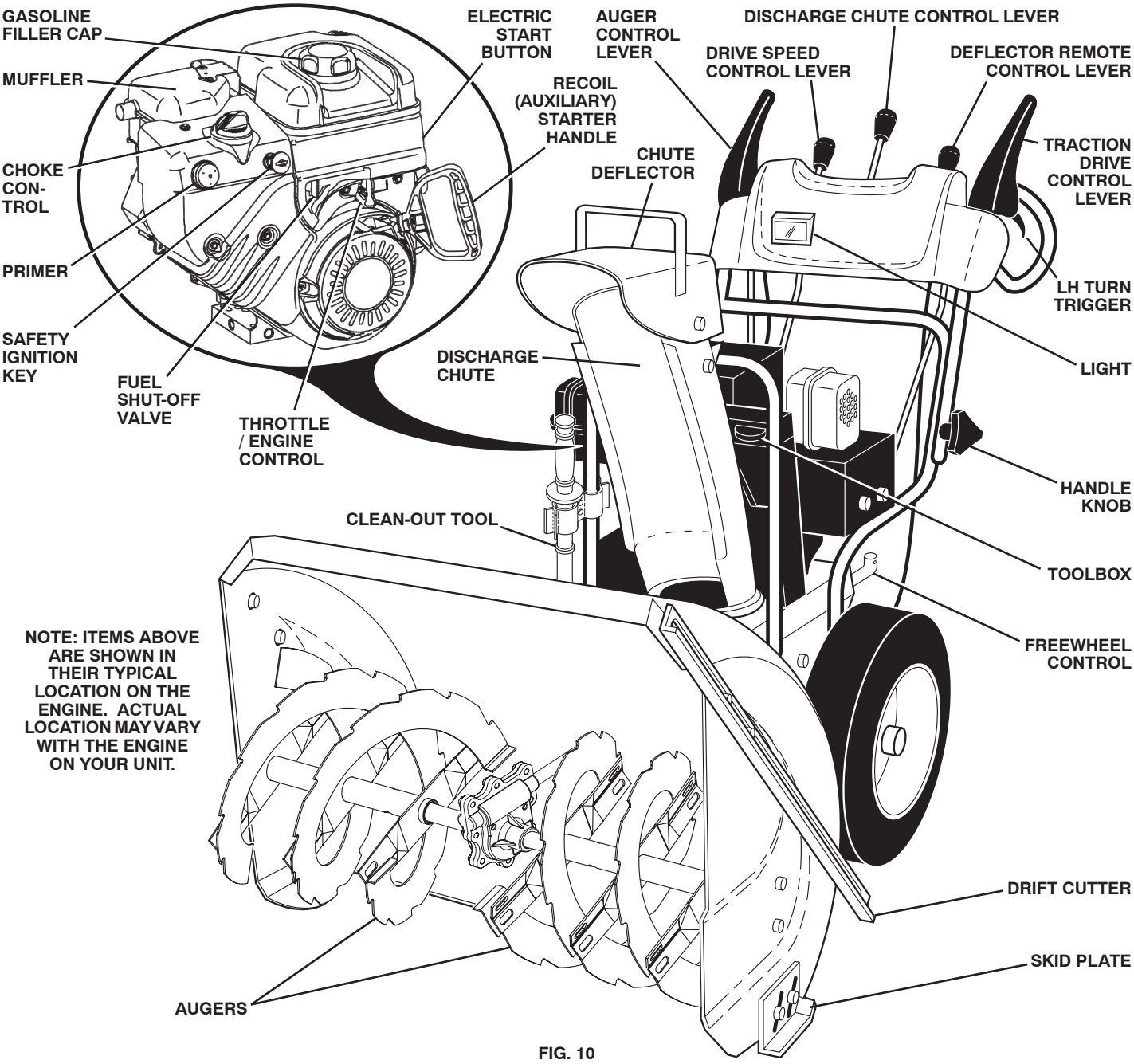


FIG. 10

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 engine.

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

Choke Control – used for starting a cold engine.

Throttle / **Engine control –** used to select either FAST or SLOW engine speed and to STOP the engine.

Freewheel control – disengages transmission for pushing the snowthrower with the engine off.

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

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

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

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

Skid plate – used to adjust height of scraper bar from 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

1. Move throttle control to “STOP” position.
2. Remove (do not turn) safety ignition key to prevent unauthorized use.

NOTE: Never use choke to stop engine.

TO USE FUEL SHUT-OFF VALVE (See Fig. 11)

The fuel shut-off valve is located beneath the fuel tank on the engine. Always operate the snow thrower with the fuel shut-off valve in the OPEN position.

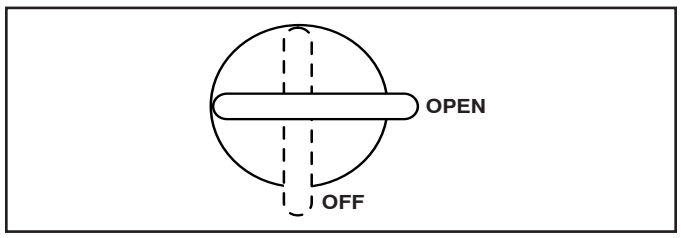


FIG. 11

TO USE THROTTLE CONTROL (See Fig. 12)

The throttle control is located on the engine. Always operate the snow thrower with the engine at full throttle. Full throttle offers the best snow thrower performance.

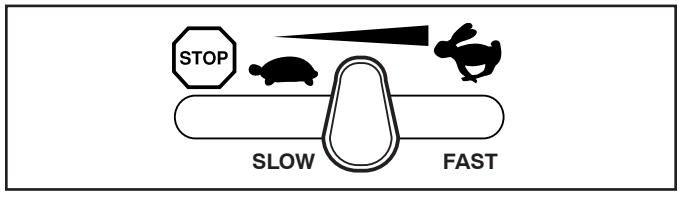


FIG. 12

TO USE CHOKE CONTROL (See Fig. 13)

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.

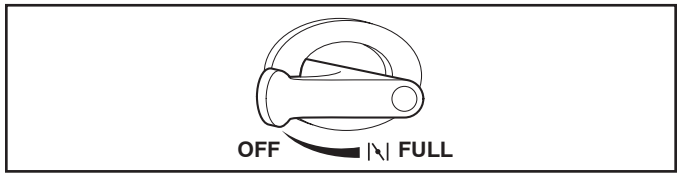


FIG. 13

TO CONTROL SNOW DISCHARGE (See Fig. 14)

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 lower the deflector and decrease the distance. Move lever back to raise the deflector and increase the distance. Be sure lever springs back and locks into desired position.

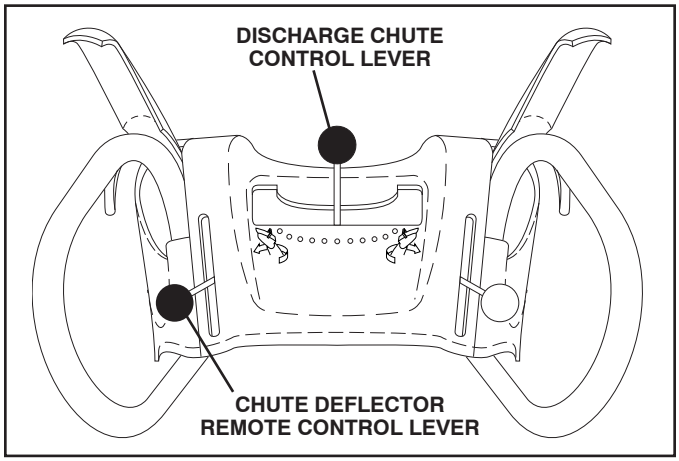


FIG. 14

TO THROW SNOW (See Fig. 15)

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.

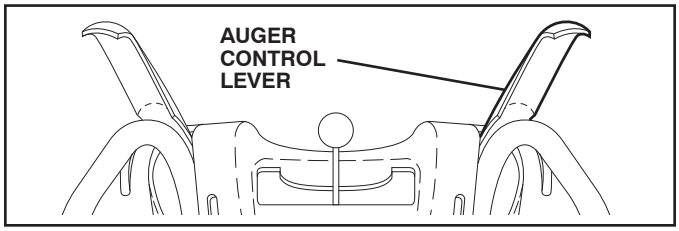


FIG. 15

OPERATION

USING THE CLEAN-OUT TOOL (See Fig. 16)

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 it's 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 it's 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 the engine.
- Restart the engine, then squeeze the auger control lever to the handle to clear snow from the auger housing and the discharge chute.

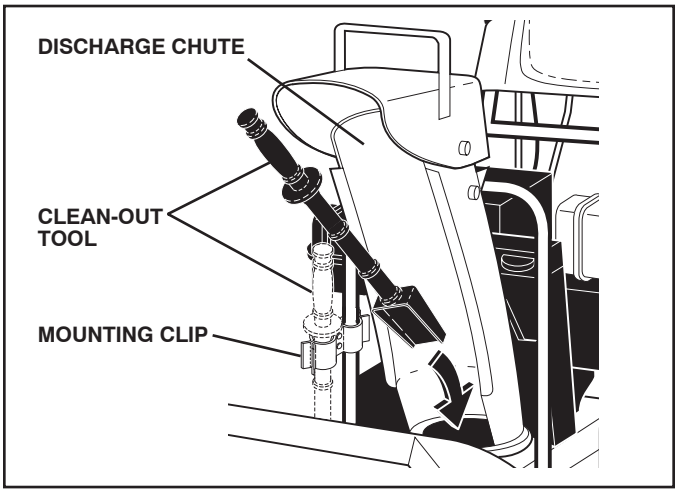


FIG. 16

TO MOVE FORWARD AND BACKWARD (See Fig. 17)

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.

- Squeeze traction drive control lever to handle to engage the drive system, then slowly move drive speed control lever to desired “FORWARD” or “REVERSE” setting.

Forward ground speed will increase as the lever is moved forward, allowing the operator to vary the speed of the unit while it is moving.

- To reverse direction, slowly pull lever back until snow thrower stops, then pull lever further back.

Reverse ground speed will increase as the lever is pulled backward, allowing the operator to vary the speed of the unit while it is moving.

- 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.

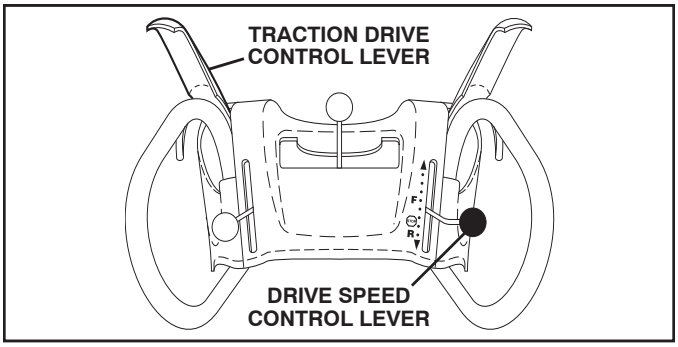


FIG. 17

POWER STEERING OPERATION (See Fig. 18)

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.

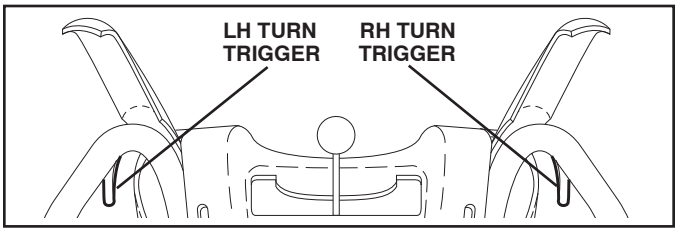


FIG. 18

TO ADJUST SKID PLATES (See Fig. 19)

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 5 mm clearance between the scraper bar and the ground. Use a middle position if the surface to be cleared is uneven.

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 1/2" hex nuts, then moving skid plate to desired position. Be sure both plates are adjusted evenly. Tighten securely.

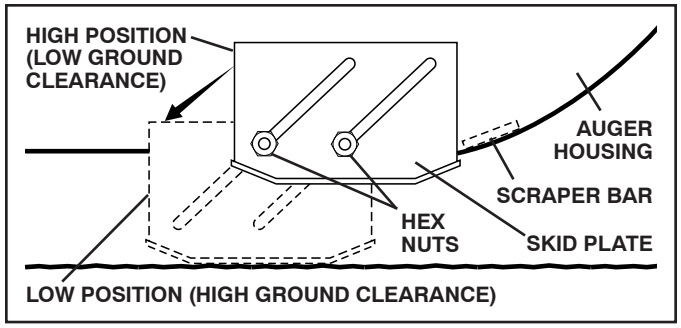


FIG. 19

SCRAPER BAR

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. 20)

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

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

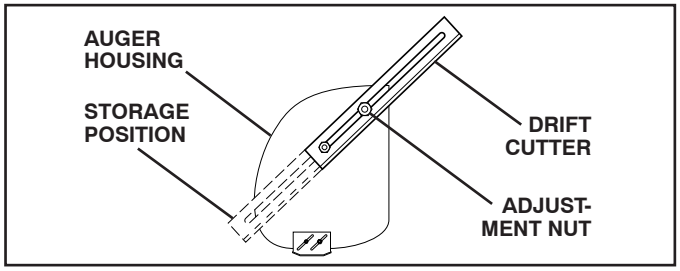


FIG. 20

TO TRANSPORT (See Fig. 21)

When pushing or towing your snowthrower, be sure to disengage transmission by placing freewheel control into FREEWHEEL position. Freewheel control is located at the rear of snowthrower.

- Pull freewheel control out to FREEWHEEL position.
- To reengage transmission, push control back in.

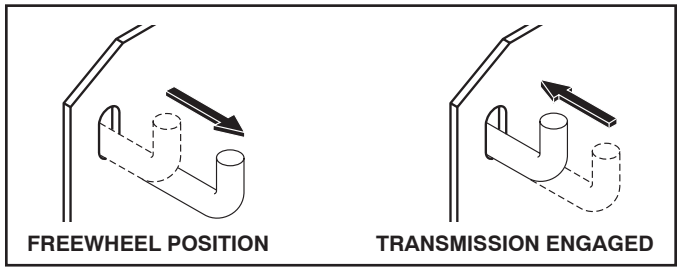


FIG. 21

BEFORE STARTING THE ENGINE

CHECK ENGINE OIL LEVEL (See Fig. 22)

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.

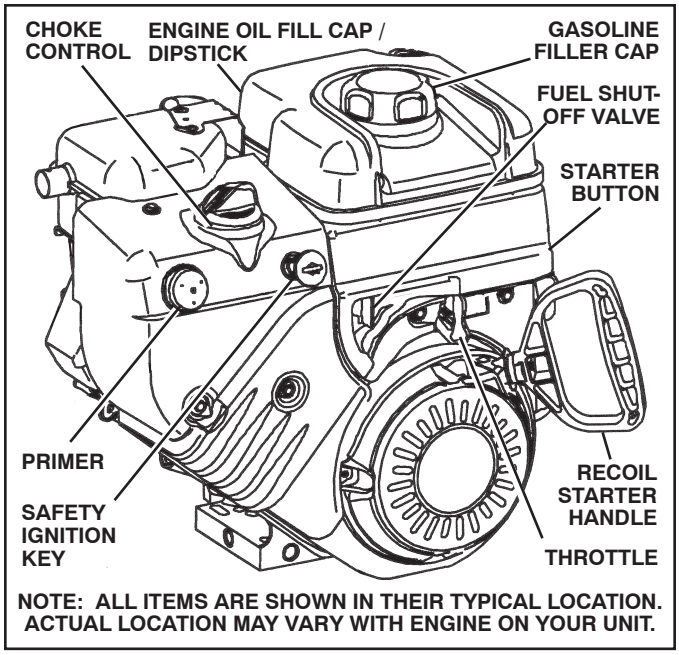


FIG. 22

ADD GASOLINE (See Fig. 22)

- 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.

OPERATION

TO START ENGINE

- Be sure fuel shut-off valve is in the OPEN position.

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 throttle control in FAST 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 throttle control in FAST position.
3. Rotate choke control to FULL position.
4. Push the primer four (4) times if the temperature is below 15°F/–10°C, or two (2) times if temperature is between 15° and 50°F/–10°C and 10°C. If temperature is above 50°F/10°C, 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

- Always operate the snow thrower with the engine at full throttle. Full throttle offers the best performance.
- Go slower in deep, freezing or heavy wet snow. Use the drive speed control, NOT the throttle, 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

FILL IN DATES
AS YOU COMPLETE
REGULAR SERVICE

		BEFORE EACH USE	AFTER EACH USE	EVERY 25 HOURS OR EVERY SEASON	EVERY 50 HOURS	EVERY 100 HOURS	BEFORE STORAGE	SERVICE DATES				
THROWER	Check for Loose Fasteners	✔					✔					
	Clean / Inspect Snow Thrower		✔				✔					
	Check / Replace V-Belts				✔							
	Lubrication Chart			✔			✔					
ENGINE	Check Engine Oil Level	✔										
	Change Engine Oil			✔								
	Inspect Muffler				✔							
	Check / Replace Spark Plug					✔						
	Empty Fuel Tank						✔					

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.

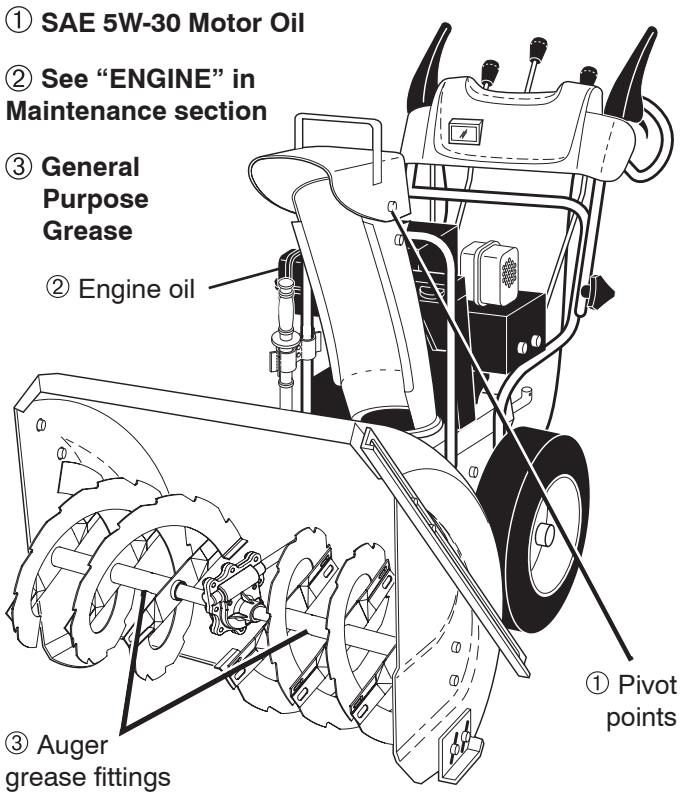
BEFORE EACH USE

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

LUBRICATION

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

LUBRICATION CHART



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.

MAINTENANCE

V-BELTS

Check V-belts for deterioration and wear after every 50 hours of operation and replace if necessary. The belts are not adjustable. Replace belts if they begin to slip from wear. (See “TO REMOVE BELT COVER” in the Service and Adjustments section of this manual).

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 dealer. Using other than OEM belts can cause personal injury or damage to the snow thrower.

AUGER GEAR CASE

- The gear case was filled with lubricant to the proper level at the factory. The only time the lubricant needs attention is if service has been performed on the gear case.
- If lubricant is required, use only Ronex ED #1 grease.

TRACTION DRIVE SYSTEM

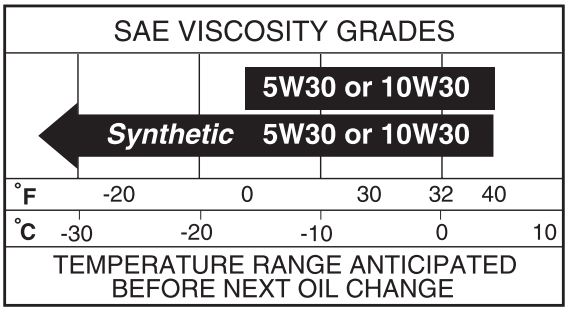
DO NOT lubricate the drive components inside the snow thrower. The sprockets, hex shafts, drive disc and friction wheel require no lubrication. The bearings and bushings are lifetime lubricated and require no maintenance.

CAUTION: Any lubricating of the above components can cause contamination of the friction wheel and damage to the drive system of your snow thrower.

ENGINE

LUBRICATION

Use only high quality detergent oil rated with API service classification SG–SL. Select the oil's SAE viscosity grade according to your expected operating temperature.



NOTE: Although multi-viscosity oils (5W30, 10W30 etc.) improve starting in cold weather, these multi-viscosity oils will result in increased oil consumption when used above 32°F/0°C. Check your engine oil level more frequently to avoid possible engine damage from running low on oil.

Change the oil after every 25 hours of operation or at least once a year if the snow thrower is not used for 25 hours in one year.

Check the crankcase oil level before starting the engine and after each five (5) hours of continuous use. Tighten oil fill cap / dipstick securely each time you check the oil level.

TO CHANGE ENGINE OIL

Determine temperature range anticipated before next oil change. All oil must meet API service classification SG–SL.

- Be sure snow thrower is on level surface.
- Oil will drain more freely when warm.
- Catch oil in a suitable container.

NOTE: The left side wheel may be removed from snow thrower for easier access to the oil drain plug and placement of a suitable container. The unit tilted, resting on the frame with the left wheel removed, will help drain any oil trapped inside the engine. (See “TO REMOVE WHEELS” in the Service and Adjustments section of this manual).

1. Remove safety ignition key and disconnect spark plug wire from spark plug. Place wire where it cannot come in contact with spark plug.
2. Clean area around drain plug.
3. Remove drain plug and drain oil in a suitable container.
4. Install drain plug and tighten securely.
5. Wipe off any spilled oil from snow thrower and engine.
6. Install left wheel (if removed for draining oil). Be sure to install klick pin into proper hole in wheel axle (See “TO REMOVE WHEELS” in the Service and Adjustments section of this manual).
7. Remove oil fill cap/dipstick. Be careful not to allow dirt to enter the engine.
8. Refill engine with oil through oil dipstick tube. Pour slowly. Do not overfill. For approximate capacity see “PRODUCT SPECIFICATIONS” section of this manual.
9. Use gauge on oil fill cap/dipstick for checking level. Be sure dipstick cap is tightened securely for accurate reading. Keep oil at “FULL” line on dipstick.
10. Wipe off any spilled oil.

MUFFLER

Inspect and replace corroded muffler as it could create a fire hazard and/or damage.

SPARK PLUG

Replace spark plug at the beginning of each season or after every 100 hours of operation, whichever occurs first. Spark plug type and gap setting are shown in the “PRODUCT SPECIFICATIONS” section of this manual.

CLEANING

IMPORTANT: For best performance, keep snow thrower housing free of any dirt or trash. Clean the outside of your snow thrower after each use.

WARNING: Remove safety ignition key and disconnect spark plug wire from spark plug. Place wire where it cannot come in contact with spark plug.

- Keep finished surfaces/wheels free of gasoline, oil, etc.
- We do not recommend using a garden hose to clean your snow thrower unless the electrical system, muffler and carburetor are covered to keep water out. Water in engine can result in shortened engine life.

SERVICE AND ADJUSTMENTS

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

1. **Be sure throttle is in STOP 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. 23)

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 spark 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. Insert safety ignition key and reconnect spark plug wire to spark plug.

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 spark 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. Insert safety ignition key and reconnect spark plug wire to spark plug.

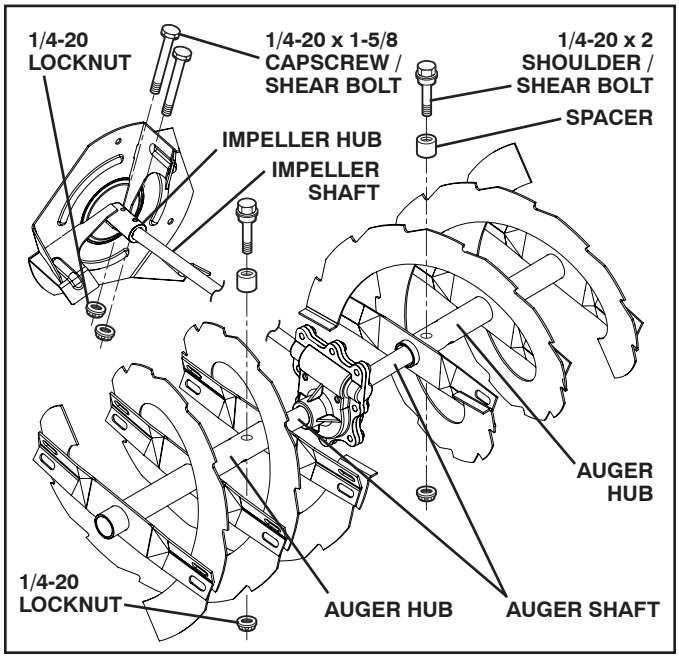


FIG. 23

TO REMOVE BELT COVER (See Fig. 24)

1. Remove the two (2) screws securing belt cover to frame.
2. Remove belt cover.

- Replace belt cover by installing cover and screws and tighten securely.

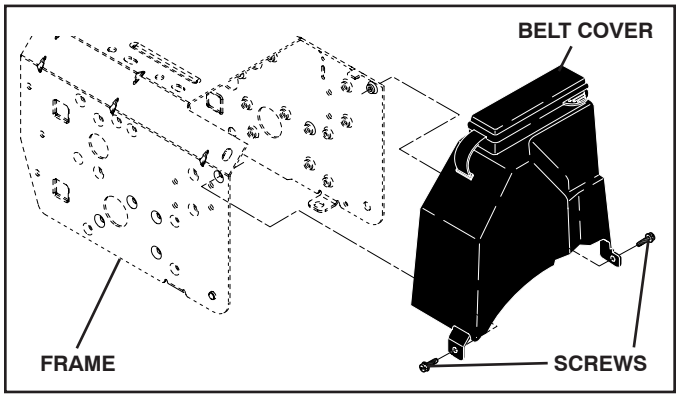


FIG. 24

SERVICE AND ADJUSTMENTS

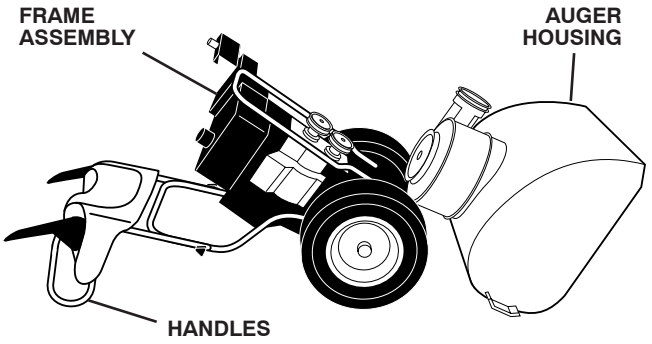
TO REPLACE BELTS (See Fig. 25)

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.

WARNING: Belt replacement requires separation of the snow thrower. While separating the auger housing from the frame assembly, it is important that an assistant stand in the operating position and hold the snow thrower handles. Serious personal injury and/or damage to the unit could occur if the snow thrower should fall during the belt changing process.



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 auger housing and frame together.

WARNING: As the last bolt is removed, have your assistant carefully lower the handles down to the ground.

6. REMOVE AUGER BELT from around pulley.
7. 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.

8. With tension relieved on idler, install new traction drive belt around pulleys and inside belt keepers.
9. Place auger belt around and inside the groove of auger pulley only.
10. 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.
11. 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 10. Belt must be fully seated in pulley groove when bringing the snow thrower together.
12. Install the two (2) hex bolts and tighten securely.
13. 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.
14. INSTALL BELT COVER and two (2) screws. Tighten securely.
15. INSTALL DISCHARGE CHUTE – See “INSTALL DISCHARGE CHUTE / CHUTE ROTATER HEAD” in the Assembly / Pre-Operation section of this manual.

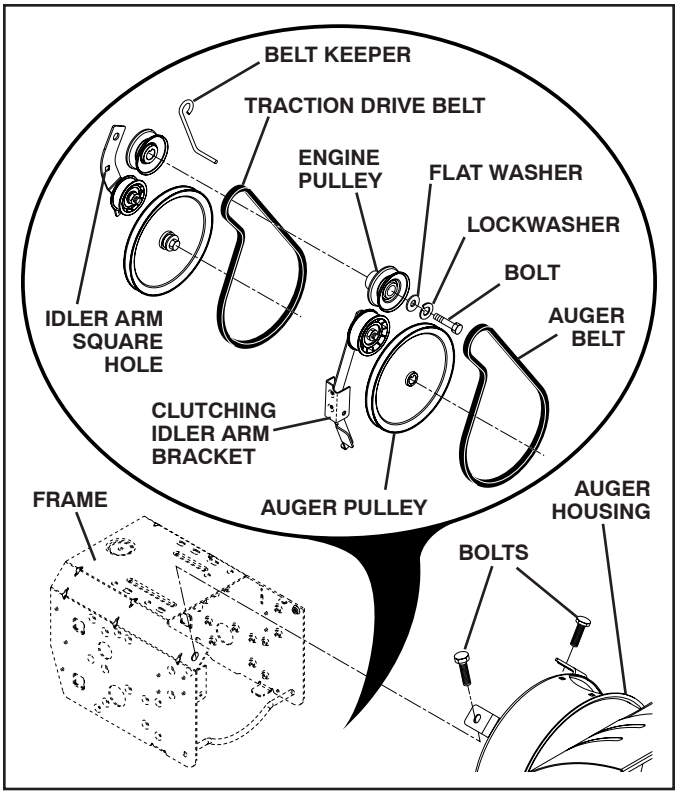


FIG. 25

TO REMOVE WHEELS (See Fig. 26)

- 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.

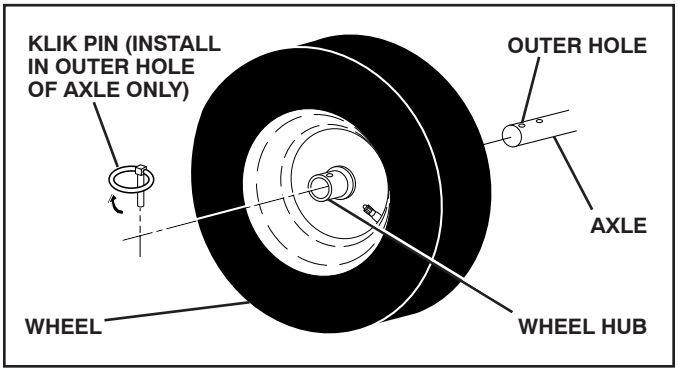


FIG. 26

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

CARBURETOR

Your carburetor is not adjustable. Engine performance should not be affected at altitudes up to 2,134 meters. If your engine does not operate properly due to suspected carburetor problems, take your snow thrower to a Sears service centre/department.

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 Sears service centre/department, which has the 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.

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

ENGINE

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. 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

1. Remove spark plug.
2. Pour approximately one ounce (30 ml) of oil through spark plug hole into cylinder.
3. Pull recoil starter handle slowly a few times to distribute oil.
4. 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.

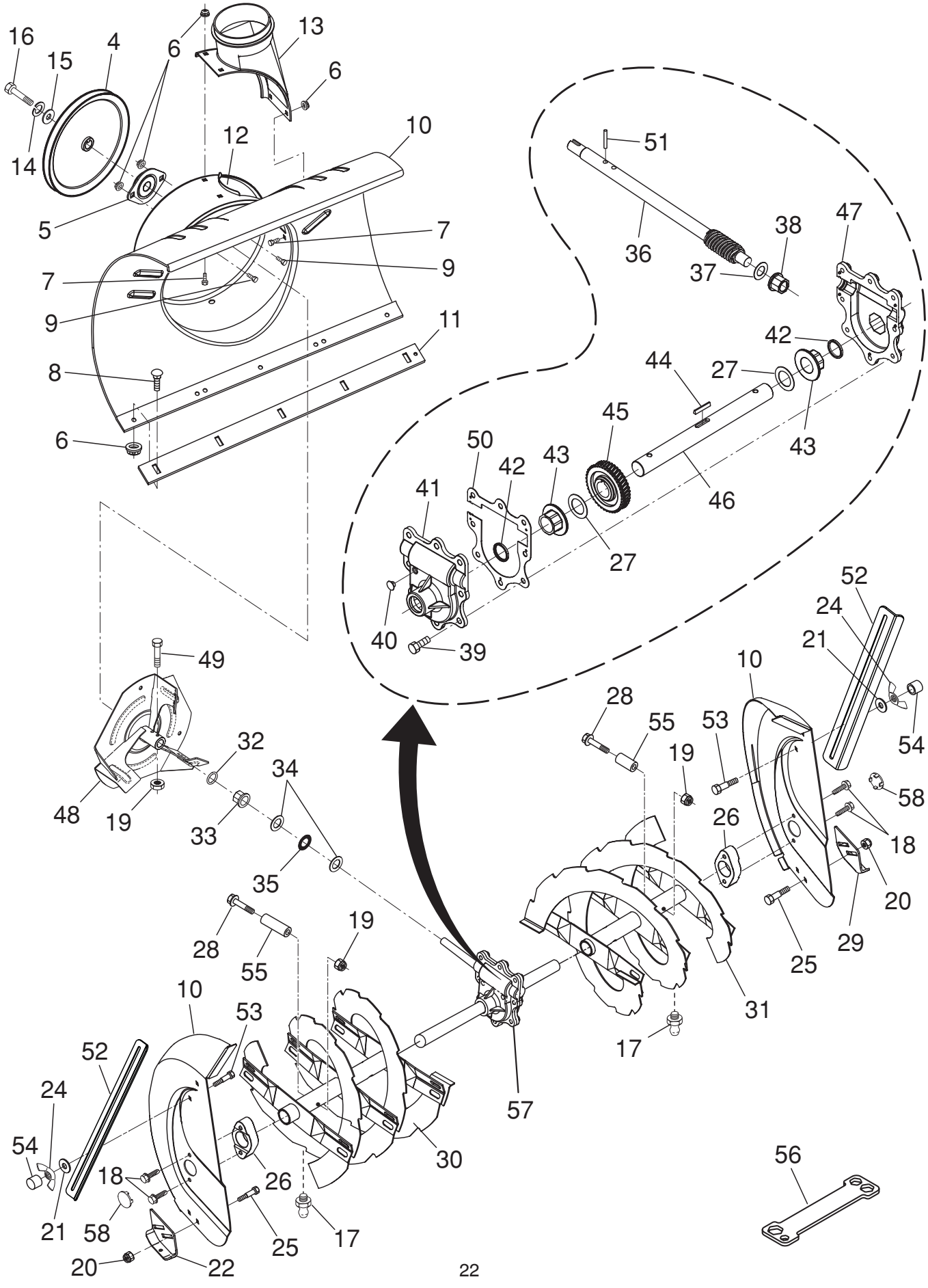
TROUBLESHOOTING

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

PROBLEM	CAUSE	CORRECTION
Does not start	1. Fuel shut-off valve (if so equipped) in OFF position. 2. Safety ignition switch OUT. 3. Out of fuel. 4. Throttle in STOP position. 5. Choke in OFF position. 6. Primer not depressed. 7. Engine is flooded. 8. Spark plug wire is disconnected. 9. Bad spark plug. 10. Stale fuel. 11. Water in fuel.	1. Turn fuel shut-off valve to OPEN position. 2. Push safety ignition switch IN. 3. Fill fuel tank with fresh, clean gasoline. 4. Move throttle to FAST position. 5. Move to FULL position. 6. Prime as instructed in the Operation section of this manual. 7. Wait a few minutes before restarting, DO NOT prime. 8. Connect wire to spark plug. 9. Replace spark plug. 10. Empty fuel tank & carburetor, refill with fresh, clean gasoline. 11. Empty fuel tank & carburetor, refill with fresh, clean gasoline.
Loss of power	1. Spark plug wire loose. 2. Throwing too much snow. 3. Fuel tank cap is covered with ice or snow. 4. Dirty or clogged muffler.	1. Reconnect spark plug wire. 2. Reduce speed and width of swath. 3. Remove ice and snow on and around fuel tank cap. 4. Clean or replace muffler.
Engine idles or runs roughly	1. Choke is in FULL position. 2. Blockage in fuel line. 3. Stale fuel. 4. Water in fuel. 5. Carburetor is in need of adjustment or overhaul.	1. Move choke to OFF position. 2. Clean fuel line. 3. Empty fuel tank & carburetor, refill with fresh, clean gasoline. 4. Empty fuel tank & carburetor, refill with fresh, clean gasoline. 5. Contact a Sears service centre/department.
Excessive vibration	1. Loose parts or damaged augers or impeller.	1. Tighten all fasteners. Replace damaged parts. If vibration remains, contact a Sears service centre/department.
Recoil starter is hard to pull	1. Frozen recoil starter.	1. See “IF RECOIL STARTER HAS FROZEN” in the Operation section of this manual.
Loss of traction drive / slowing of drive speed	1. Drive belt is worn. 2. Drive belt is off of pulley. 3. Friction drive wheel is worn.	1. Check / replace drive belt. 2. Check / reinstall drive belt. 3. Contact a Sears service centre/department.
Loss of snow discharge or slowing of snow discharge	1. Auger belt is off of pulley. 2. Auger belt is worn. 3. Clogged discharge chute. 4. Augers / impeller jammed.	1. Check / reinstall auger belt. 2. Check / replace auger belt. 3. Clean snow chute. 4. Remove debris or foreign object from augers / impeller.

SERVICE NOTES

AUGER HOUSING / IMPELLER ASSEMBLY

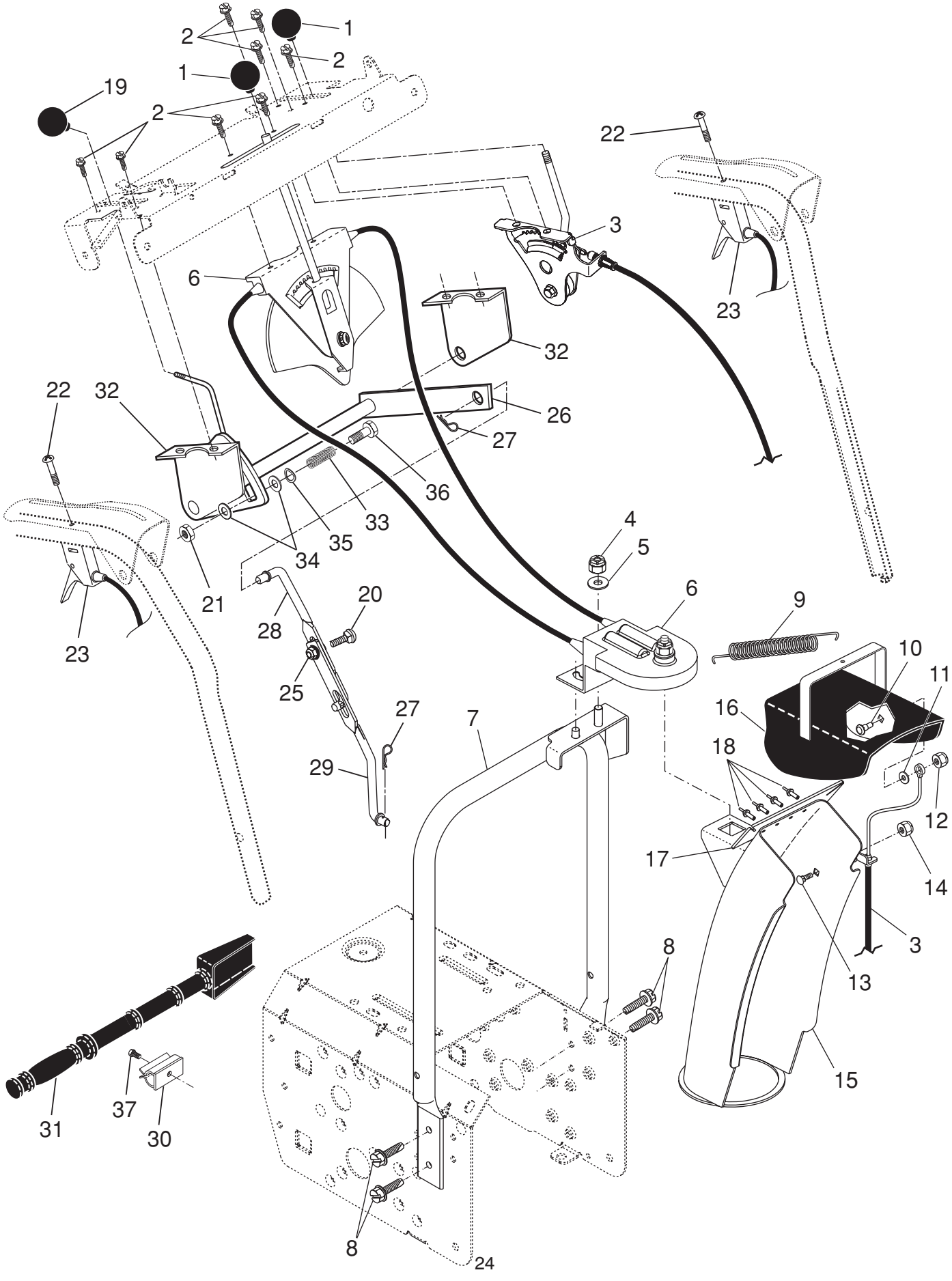


AUGER HOUSING / IMPELLER ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION
4	191079	Pulley, Impeller
5	188909	Bearing Assembly, Flange
6	155377	Nut, Hex Flange 5/16-18
7	180355	Bolt, Flat Head, Carriage 5/16-18 x 5/8
8	72270505	Bolt, Carriage 5/16-18
9	163183	Bolt, Hex Head 5/16-18 x 5/8
10	404929X428	Housing, Auger
11	404932X479	Bar, Scraper
12	178675X008	Bracket, Corner Discharge
13	175322	Base, Discharge Chute
14	**10040500**	Washer, Lock 5/16
15	**19111507**	Washer, Flat
16	74950516	Screw, Hex Head 5/16-18 x 3/4
17	405637	Fitting, Grease
18	179582	Screw, Hex Head 5/16 x 1
19	73800400	Nut, Hex Lock 1/4-20
20	**155377**	Nut, Hex Lock 5/16-18
21	401347	Washer, Flat 5/16
22	178777X479	Skid Plate, RH
24	128638	Wing Nut
25	72270506	Bolt, Carriage 5/16-18 x 3/4
26	174658	Bearing, Auger
27	174697	Washer, Thrust, 1"
28	198636	Bolt, Shear
29	174762X479	Skid Plate, LH
30	413607X479	Auger Assembly, RH
31	413606X479	Auger Assembly, LH
32	407768	O-Ring
33	407769	Bushing, Flange 3/4
34	174681	Washer, Thrust 3/4
35	174684	Bearing, Thrust 3/4
36	407757	Shaft, Impeller
37	174683	Washer, Thrust 5/8
38	407758	Bushing, Flange 5/8
39	407767	Screw, Hex Head 5/16-18 x 3/4
40	407760	Plug, Case
41	407761	Housing, Gearbox, RH
42	407770	Seal, Oil
43	407762	Bushing, Flange, 1"
44	189282	Key, Square 1/4 x 1/4 x 7/8
45	407763	Gear, Worm
46	407764	Shaft, Auger
47	407765	Housing, Gearbox, LH
48	175321X479	Impeller Assembly
49	74780426	Screw, Hex Head 1/4-20 x 1-5/8
50	407766	Gasket, Gearbox
51	7836M	Pin, Roll 3/16 x 1-1/8
52	181160X479	Bar, Drift Cutter
53	72270506	Bolt, Carriage 5/16-18 x 3/4
54	198709	Stop
55	198638	Spacer
56	180684	Multi-Wrench
57	196710	Gearbox Assembly
58	411939	Plug, Bearing Hole

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.

CONTROL PANEL / DISCHARGE CHUTE



CONTROL PANEL / DISCHARGE CHUTE

KEY NO.	PART NO.	DESCRIPTION
1	414280	Knob, Lever, Black
2	17501010	Screw #10-24 x 5/8
3	198475	Control Assembly, Deflector
4	73800600	Nut, Lock 3/8-16
5	19131316	Washer, Flat 3/8
6	404974	Control Assembly, Chute Rotater
7	405784X479	Support, Pivot
8	150078	Screw, Hex Head 5/16-18 x 3/4
9	184505	Spring, Deflector
10	179829	Bolt, Shoulder
11	179246	Washer, Friction, Nylon
12	191730	Nut, Lock 1/4-20
13	72250505	Bolt, Carriage 5/16-18
14	751153	Locknut, Hex
15	404770X428	Chute Assembly
16	178633X428	Deflector Assembly
17	179145	Seal, Deflector
18	128415	Rivet, Blind
19	414281	Knob, Speed Control Lever, Red
20	72270506	Bolt, Carriage 5/16-18 x 3/4
21	73800500	Nut, Lock 5/16-18
22	74041024	Screw #10-24 x 1-1/2
23	188303	Control Assembly, Power Steering
25	155377	Nut, Hex, Flangelock 5/16-18
26	192001	Lever Assembly, Speed Control
27	169675	Retainer, Hairpin
28	187782	Rod, Upper, Speed Control
29	187784	Rod, Lower, Speed Control
30	405400	Clamp, Mounting, Clean-Out Tool
31	192199	Tool, Clean-Out
32	192002	Bracket, Shift
33	192195	Spring
34	179246	Washer, Nylon
35	155415	Washer
36	74760552	Bolt, Hex Head 5/16-18 x 3-1/4
37	194189	Screw, Hi/Lo Thread #13-16 x 5/8

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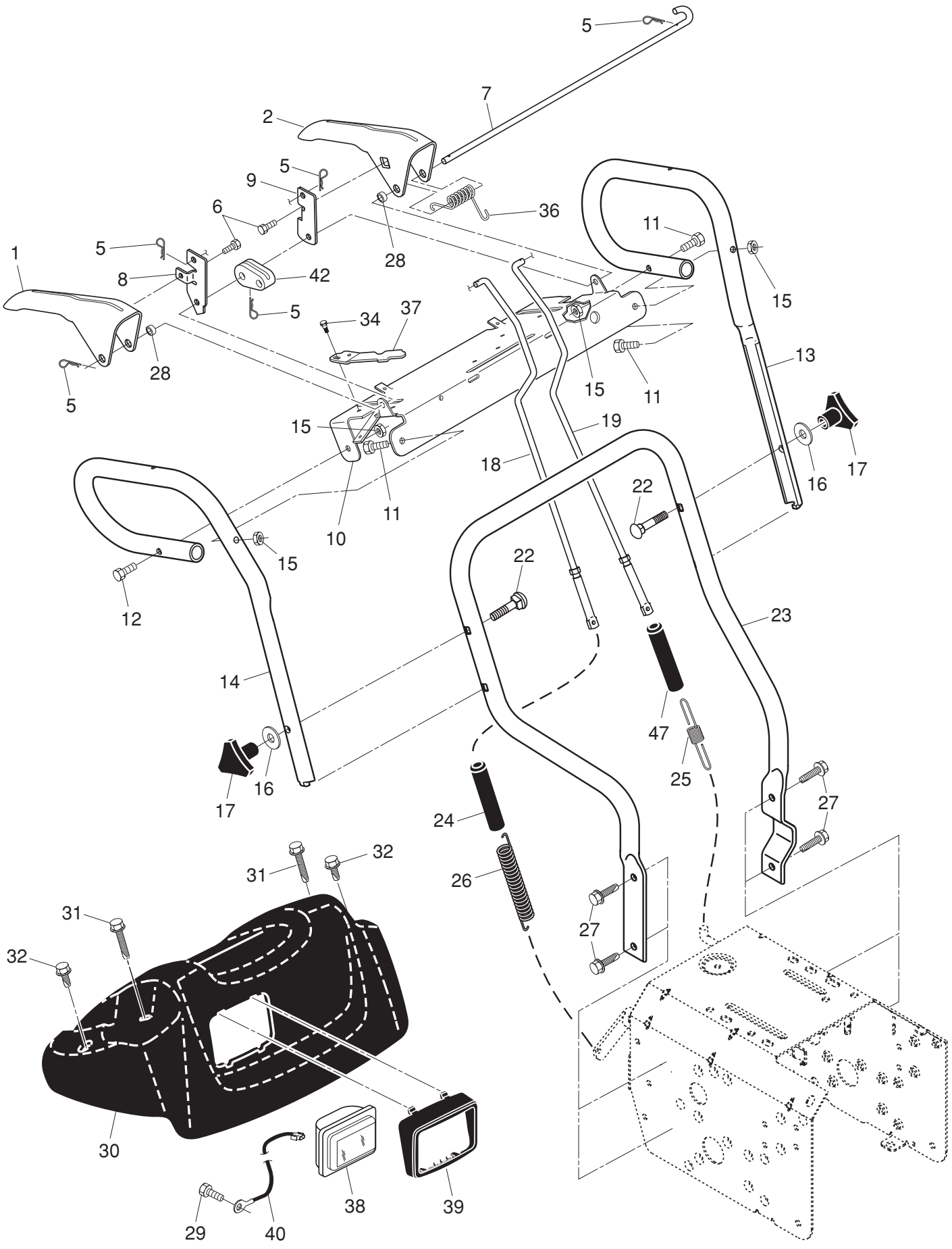
HANDLES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HANDLES

KEY NO.	PART NO.	DESCRIPTION
1	412682X479	Lever, Auger Control, RH
2	412681X479	Lever, Traction Drive Control, LH
5	169675	Retainer, Hairpin
6	17060408	Screw, Hex Head 1/4-20 x 3/4
7	412677	Rod, Interlock
8	196333X008	Arm, Interlock Rod
9	412679X008	Arm, Traction Control Rod
10	412683X479	Panel, Control
11	74780524	Screw, Hex Head 5/16-18 x 1-1/2
12	74780528	Screw, Hex Head 5/16-18 x 1-3/4
13	414519X479	Handle Tube, LH
14	414518X479	Handle Tube, RH
15	751153	Nut, Lock 5/16-18
16	19131316	Washer, Flat 3/8
17	178899	Knob, Handle
18	193447	Rod, Auger Control
19	180485	Rod, Traction Control
22	72120618	Bolt, Carriage 3/8-16 x 2-1/4
23	178643X479	Handle Tube, Lower
24	180447	Sleeve, Spring, Auger Control Rod
25	180926	Spring, Traction Drive
26	178669	Spring, Auger Control
27	17000616	Screw, Hex Head 3/8-16 x 1
28	412680	Spacer
29	408059	Screw, Headlight Ground Wire to Blower Housing
30	182906	Console, Panel
31	175262	Screw, Hex Head, Tapping #10-24 x 1-1/4
32	184471	Screw, Hex Head, Tapping #10-24 x 1/2
34	17060410	Screw
36	178831	Spring, Torsion, Lever
37	412675X004	Spring, Interlock
38	178666	Headlight, Halogen (Includes Bulb)
- -	401620	Bulb, Halogen
39	178668	Bezel, Headlight
40	180964	Harness, Headlight (Halogen)
42	414572	Cam, Interlock
47	192091	Sleeve, Spring, Traction Control Rod

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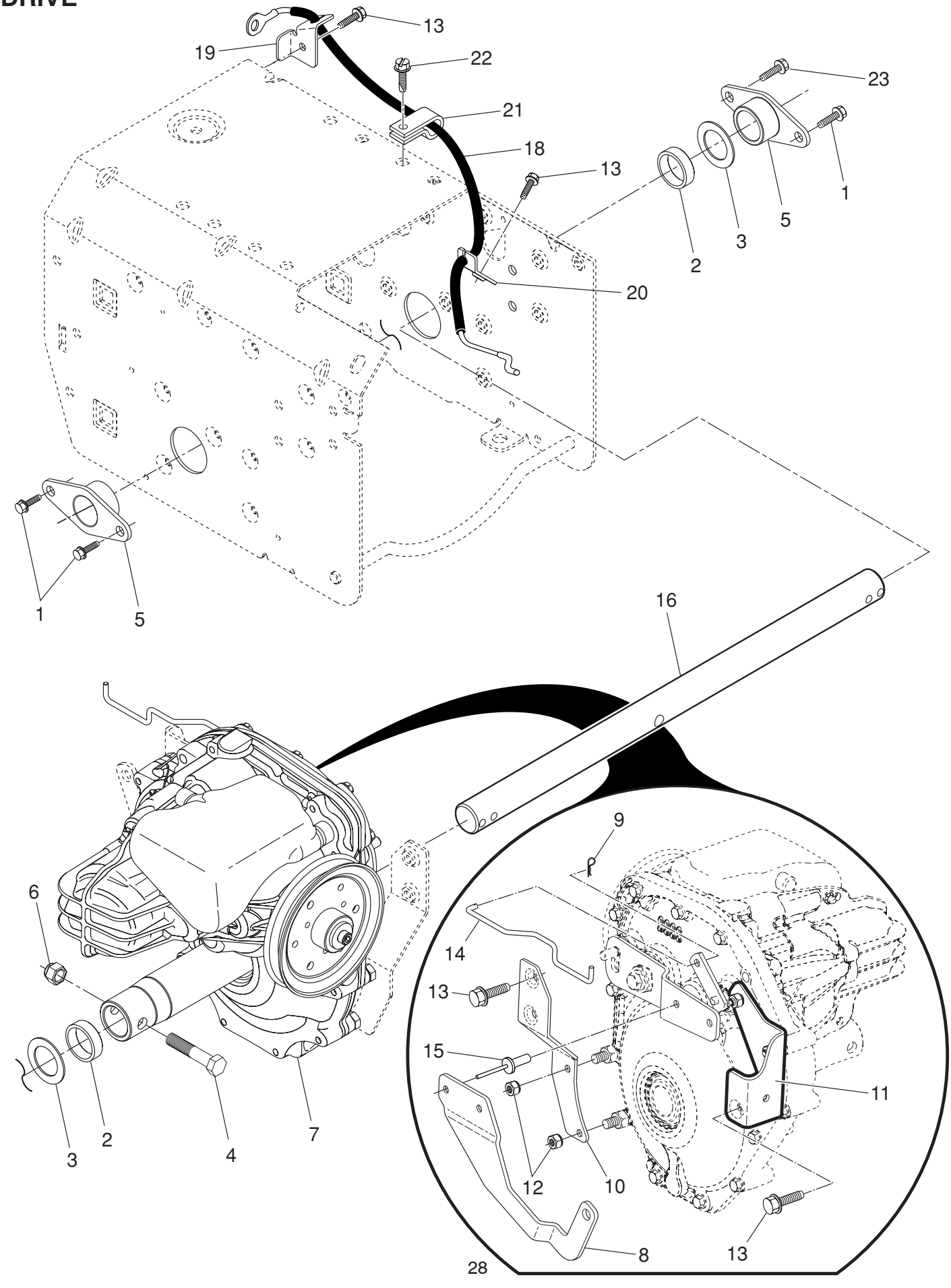
DRIVE



DRIVE

KEY NO.	PART NO.	DESCRIPTION
1	17490508	Screw 1/4-20 x 1/2
2	187794	Spacer, Axle
3	174697	Washer, Thrust
4	74780632	Screw, Cap, Hex Head 3/8-16 x 2
5	179830	Bearing, Axle
6	73800600	Nut, Hex, Centerlock 3/8-16
7	187776	Transmission Assembly
8	187787	Speed Control Arm, Hydro
9	700279	Retainer Clip
10	188101	Torque Strap
11	193255X479	Bracket, Anti-Rotate
12	73800400	Nut, Hex, Nylock 1/4-20
13	150078	Screw, Hex Washer Head 5/16-18 x 3/4
14	193256	Rod, Bypass Valve
15	191995	Pop Rivet
16	404308	Shaft, Axle
18	198466	Cable, Drive Control
19	192000	Bracket, Cable, Rear
20	191993	Bracket, Cable, Front
21	87930	Clip, Cable
22	17391208	Screw, Slotted Hex Head 1/8 x 1/2
23	146315	Screw, Hex Head 5/16-18 x 3/4

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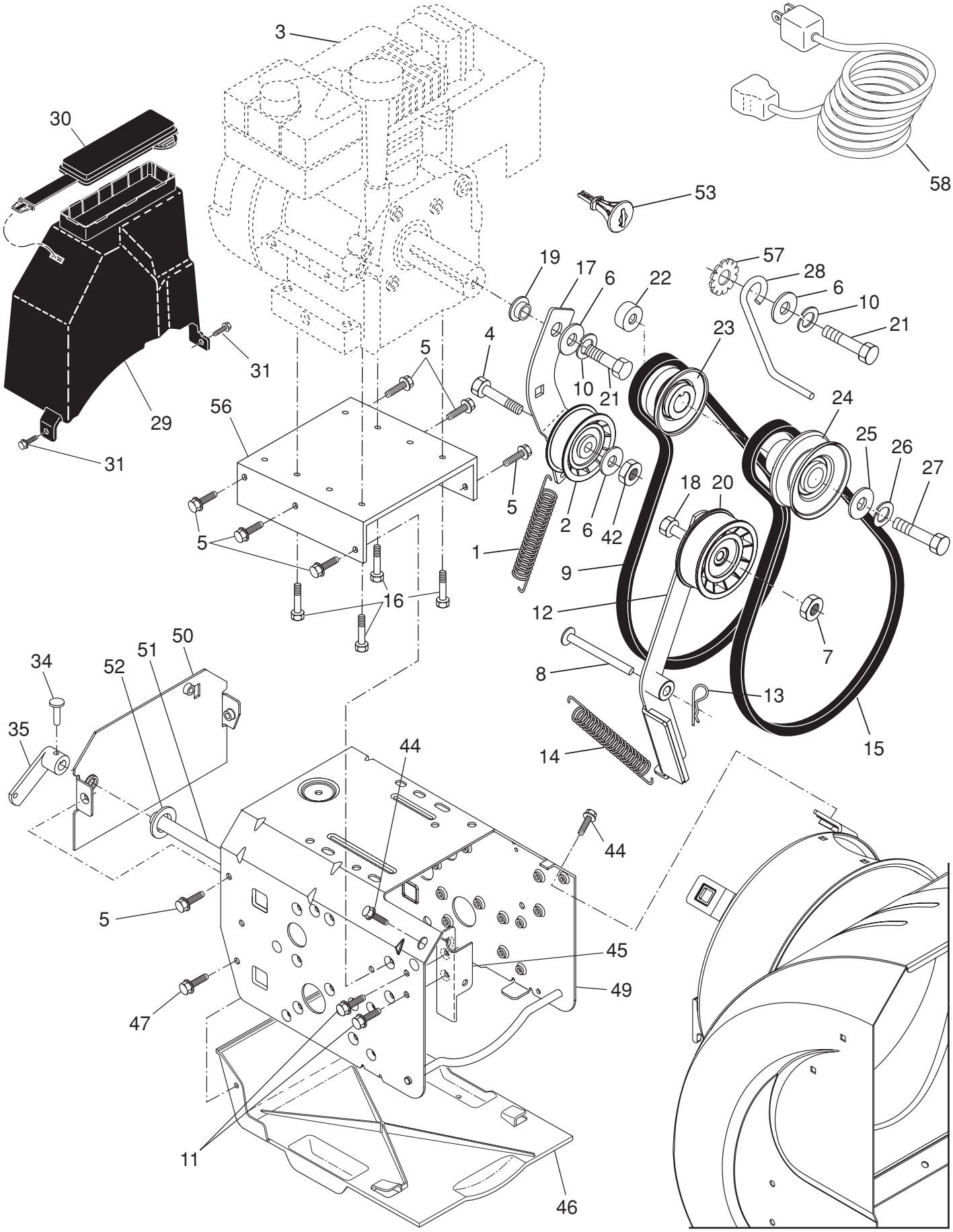
CHASSIS / ENGINE / PULLEYS



CHASSIS / ENGINE / PULLEYS

KEY NO.	PART NO.	DESCRIPTION
1	192873	Spring, Return
2	180522	Pulley, Idler (2-1/4)
3	- - -	Engine, Briggs & Stratton, Model Number 20P214-0929-E1 (See Breakdown)
4	74780520	Screw, Hex Head 5/16-18 x 1-1/4
5	150078	Screw, Hex Washer Head 5/16-18 x 3/4
6	59289	Washer, Flat
7	166785	Nut, Jam, Lock 5/16-18
8	175330	Pin, Idler Pivot
9	192383	V-Belt, Traction Drive
10	10040500	Washer, Lock 5/16
11	17490508	Bolt, Hex Head, Threaded, Rolled 5/16-18 x 1/2
12	410420	Impeller Idler Arm
13	85179	Retainer, Hairpin
14	178828	Spring, Brake
15	408007	V-Belt, Impeller Drive
16	150406	Screw, Hex Head 3/8-16 x 1-1/4
17	**187786**	Arm, Idler
18	74780524	Screw, Hex Head 5/16-18 x 1-1/2
19	175331	Bushing, Idler Pivot
20	180523	Pulley, Idler (2-3/4)
21	74610516	Screw, Hex Head 5/16-18 x 1
22	409475	Spacer, Engine Pulley
23	180478	Pulley, Engine, Traction Drive
24	179157	Pulley, Engine, Impeller Drive
25	400026	Washer, Flat 3/8
26	850263	Washer, Lock 3/8
27	851084	Screw, Hex Head 3/8-24 x 1-3/8
28	193607	Guide, Belt
29	192213	Belt Cover Assembly (Includes Toolbox Cover)
30	178830	Cover, Toolbox
31	17490408	Screw, Hex Head 1/4-20 x 1/2
34	198580	Clevis Pin
35	405484	Arm, Auger Control
42	**73930500**	Locknut, Hex
44	17000616	Screw, Hex Head
45	193397X479	Bracket, Pivot, Idler
46	403732	Pan, Frame Bottom
47	184471	Screw, Hex Head 5/16-18 x 3/4
49	415004X428	Frame Assembly
50	192115X428	Plate, Frame End
51	406109	Shaft, Auger Control
52	57079	Washer, Hardened
53	193071	Safety Ignition Key
56	417015X615	Mounting Plate, Engine
57	11050500	Washer, Lock, External Tooth 5/16
58	198563	Power Cord

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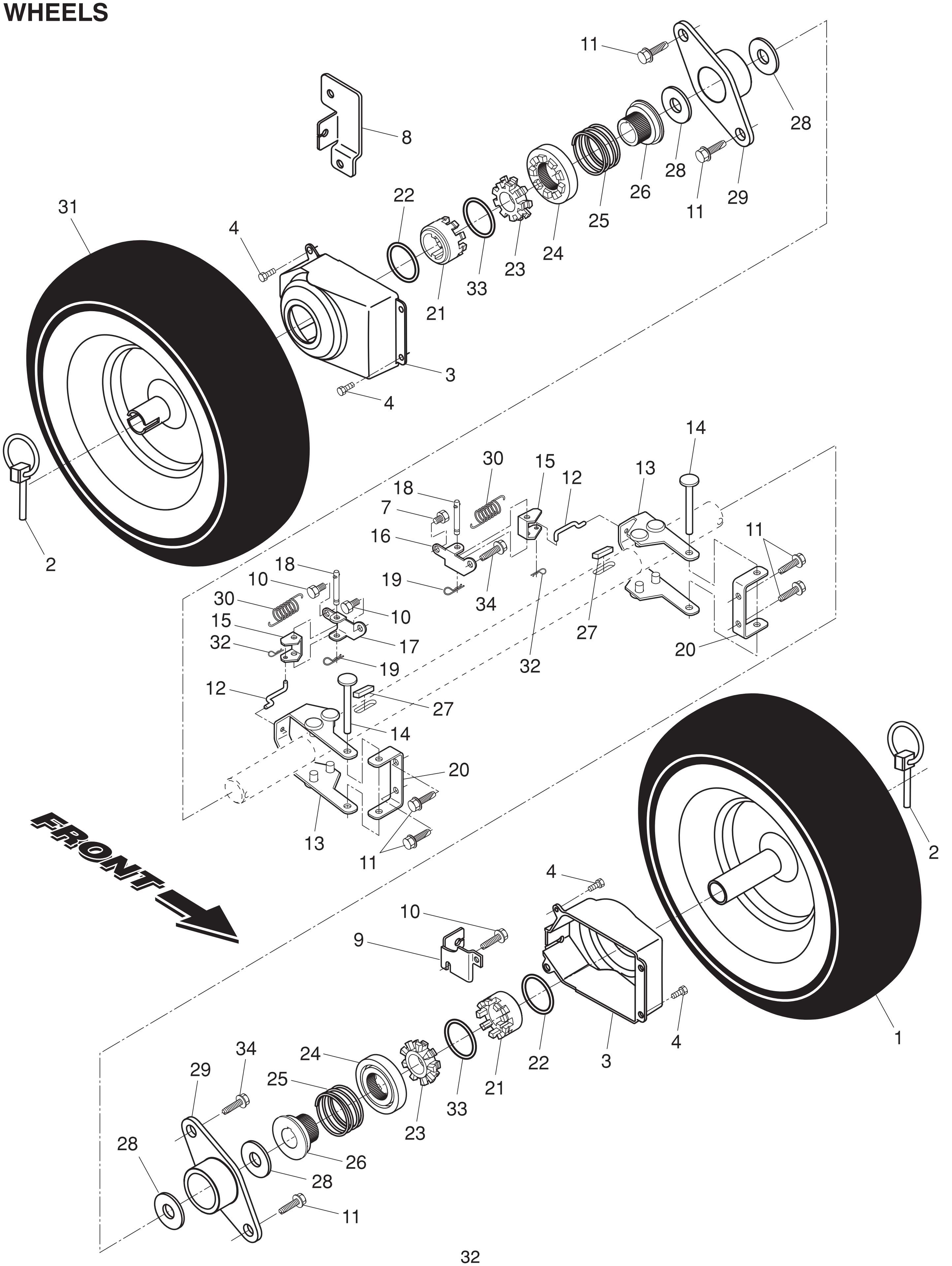
WHEELS

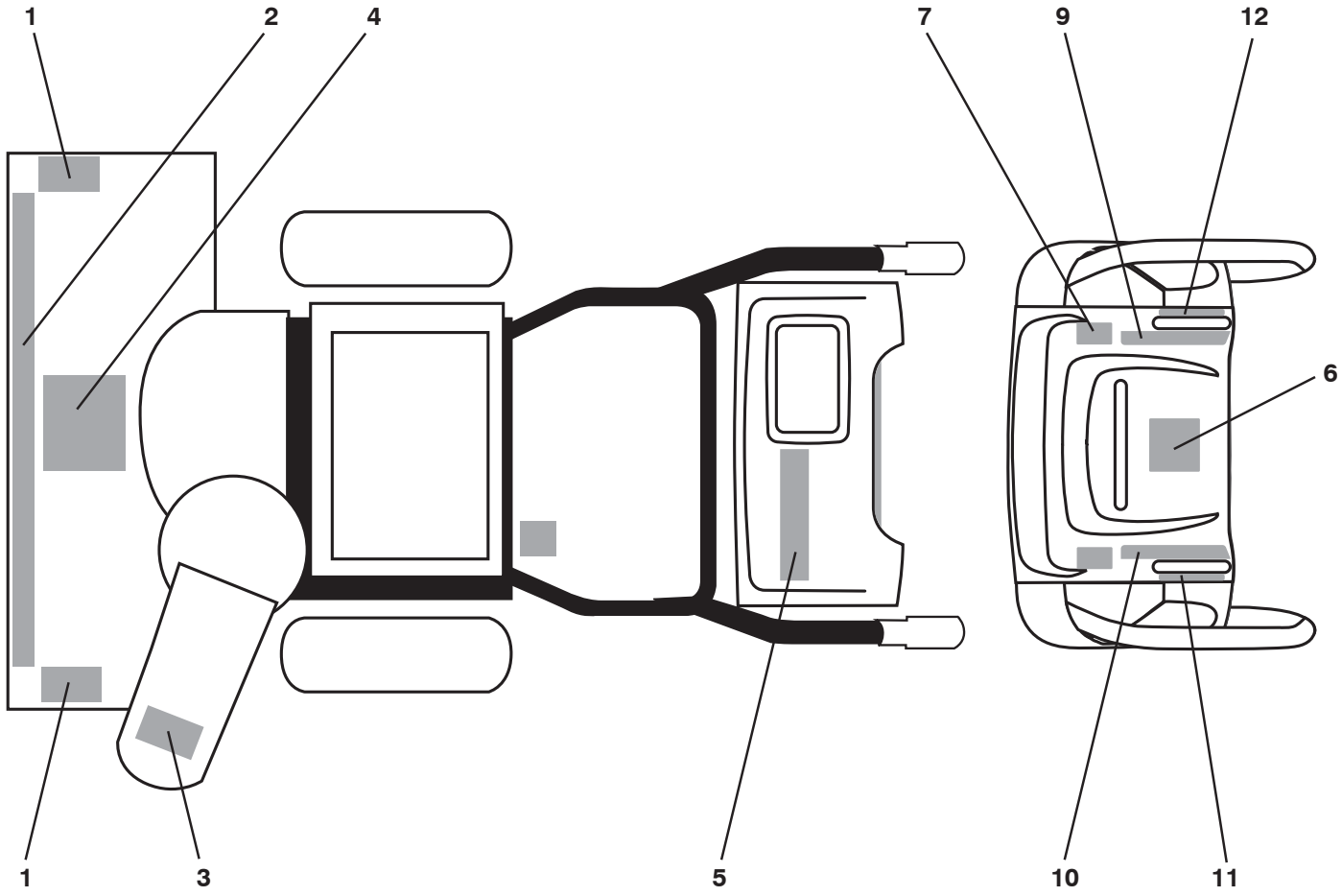


WHEELS

KEY NO.	PART NO.	DESCRIPTION
1	196752X417	Wheel Assembly, 16", with Power Steering, LH
2	155443	Pin, Klik 1/4
3	405161	Cover, Power Steering
4	184471	Screw, Shoulder, Hex Head #10-24 x 1/2
7	17060410	Screw, Hex Head 3/8-16 x 1
8	185603X479	Bracket, Steering Cable, RH
9	185602X004	Bracket, Steering Cable, LH
10	17600406	Screw, Cap, Hex Head 5/16-18 x 3/4
11	17490508	Screw, Hex Head 5/16-18 x 1/2
12	405077	Link, Steering Lever
13	193506X479	Lever Assembly, Steering
14	182015	Pin, Steering Lever
15	194944X008	Bellcrank
16	194939X008	Bracket Assembly, LH Steering
17	194943X008	Bracket Assembly, RH Steering
18	181847	Pin, Steering Bellcrank
19	85179	Retainer, Hairpin
20	179148X479	Bracket, Lever Assembly
21	192126	Driver, Wheel
22	182466	Ring, Wire Retainer
23	187622	Lobe, Wheel
24	194941	Slide, Clutch
25	179139	Spring, Clutch Slide
26	194940	Lobe, Axle
27	189282	Key, Square 1/4 x 1/4 x 7/8
28	174697	Washer, Thrust (1")
29	179830	Bearing, Axle
30	193885	Spring, Return, Steering Latch
31	196753X417	Wheel Assembly, 16", with Power Steering, RH
32	700279	Clip, Retainer
33	12000045	Ring, Retaining
34	146315	Screw, Tapping, Hex Head 5/16-18 x 3/4

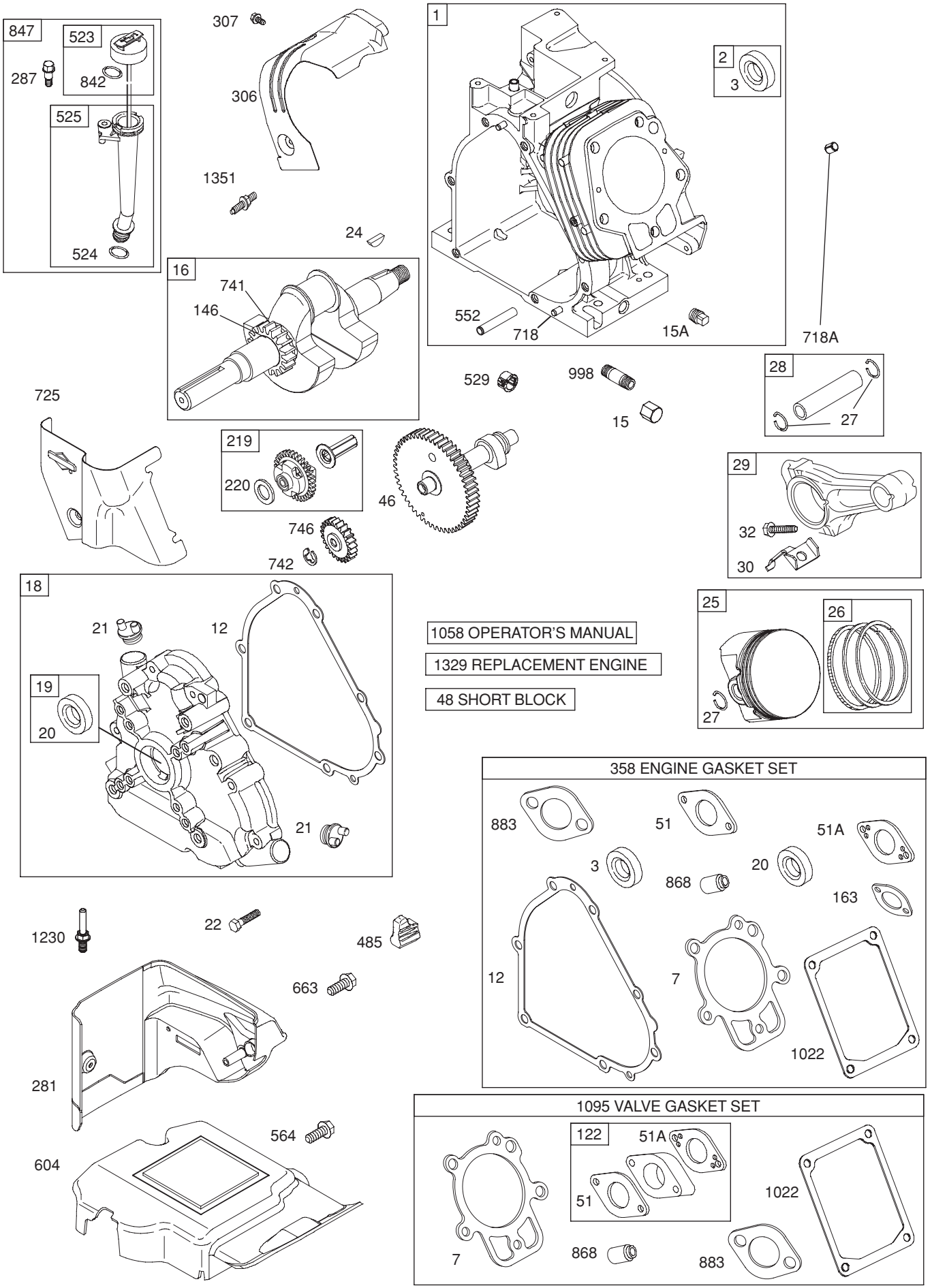
NOTE: All component dimensions given in U.S. inches. 1 inch = 25.4 mm
IMPORTANT: Use only Original Equipment Manufacturer (O.E.M.) replacement parts. Failure to do so could be hazardous, damage your snow thrower and void your warranty.

DECALS



KEY NO.	PART NO.	DESCRIPTION
1	181037	Decal, Danger
2	415447	Decal, Craftsman
3	181035	Decal, Danger, Deflector
4	181042	Decal, Danger
5	183876	Decal, Craftsman
6	181033	Decal, Instruction
7	415455	Decal, Automatic
9	415475	Decal, Speed Control
10	183730	Decal, Remote Deflector
11	415399	Decal, LH Trigger
12	415398	Decal, RH Trigger
- -	416827	Owner's Manual, English
- -	416828	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.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1058 OPERATOR'S MANUAL
1329 REPLACEMENT ENGINE
48 SHORT BLOCK
25
26
27
358 ENGINE GASKET SET
883
51
51A
3
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1095 VALVE GASKET SET
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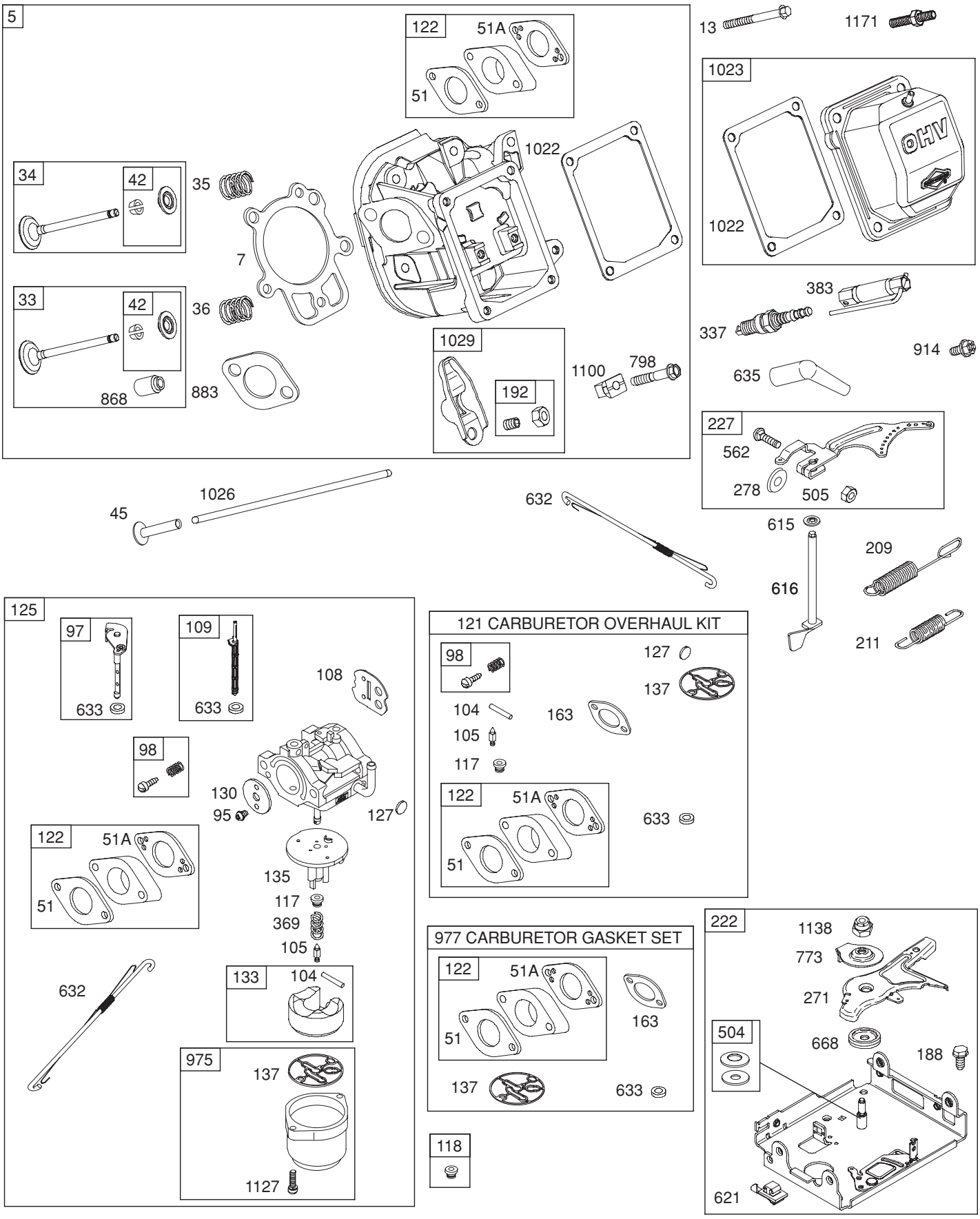
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121 CARBURETOR OVERHAUL KIT
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977 CARBURETOR GASKET SET
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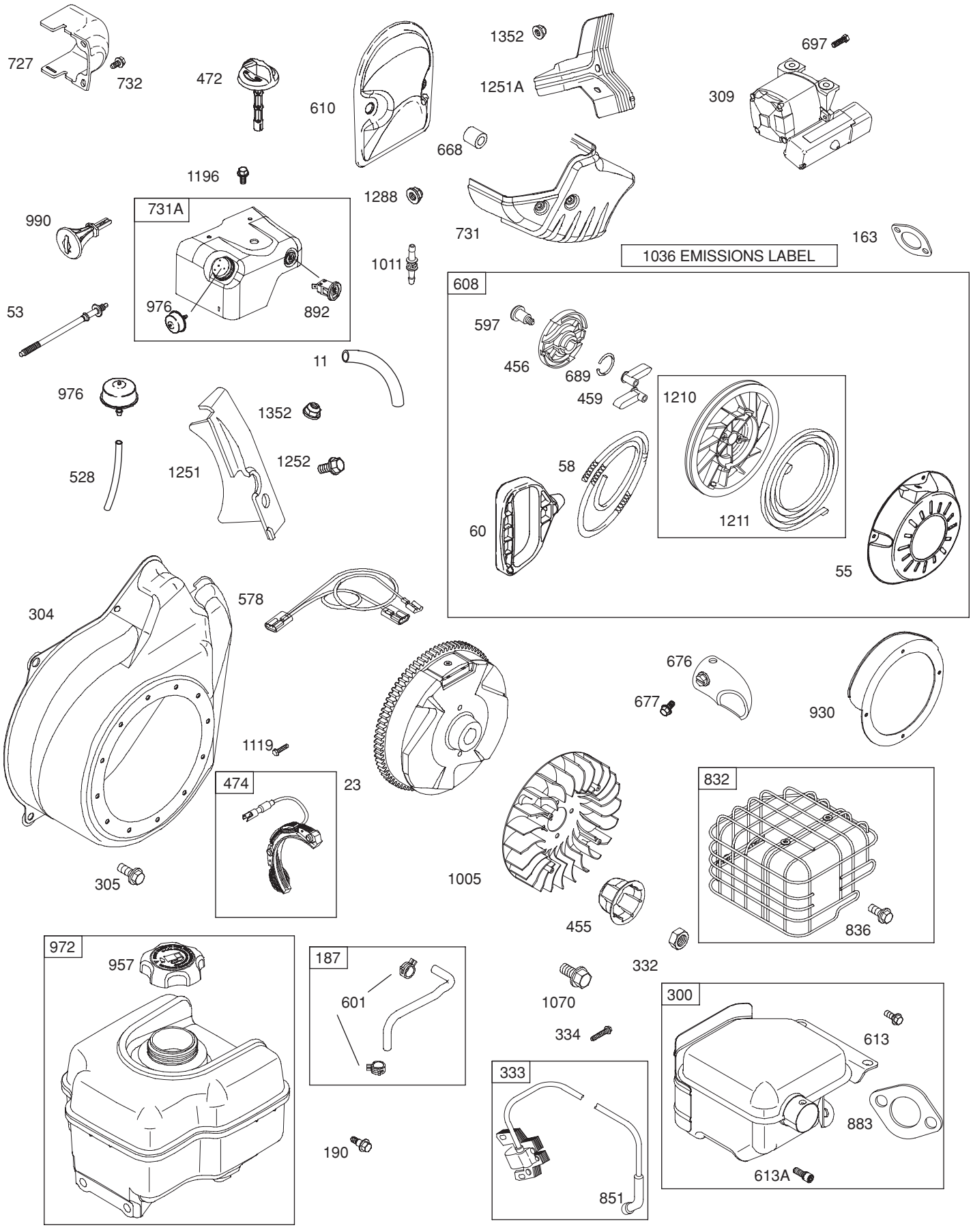
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KEY NO.	PART NO.		DESCRIPTION
1	794849		Cylinder Assembly
2	698340		Kit-Bushing/Seal (Magneto Side)
3	391086s	•	Seal-Oil (Magneto Side)
5	794871		Head-Cylinder
7	694872	•+	Gasket-Cylinder Head
11	696750		Tube-Breather
12	694953	•	Gasket-Crankcase
13	794829		Screw (Cylinder Head)
15	695757		Plug-Oil Drain
15A	691686		Plug-Oil Drain
16	794720		Crankshaft
18	791965		Cover-Crankcase
19	698340		Kit-Bushing/Seal (PTO Side)
20	391086s	•	Seal-Oil (PTO Side)
21	281658s		Cap-Oil Fill
22	794825		Screw (Crankcase Cover/Sump)
23	794812		Flywheel
24	222698s		Key-Flywheel
25	792117		Piston Assembly (Standard)
	792144		Piston Assembly (.020" Oversize)
26	792026		Ring Set (Standard)
	792073		Ring Set (.020" Oversize)
27	690975		Lock-Piston Pin
28	696581		Pin-Piston
29	694691		Rod-Connecting
30	694692		Dipper-Connecting Rod
32	690976		Screw (Connecting Rod)
33	499596		Valve-Exhaust
34	792200		Valve-Intake
35	694865		Spring-Valve (Intake)
36	694865		Spring-Valve (Exhaust)
42	499586		Keeper-Valve
45	690977		Tappet-Valve
46	790958		Camshaft
48	794910		Short Block
51	694874	•+Ø‡	Gasket-Intake
51A	694875	•+Ø‡	Gasket-Intake
53	795017		Stud (Carburetor)
55	696710		Housing-Rewind Starter
58	693389		Rope-Starter (Cut to Required Length)
60	695740		Grip-Starter Rope
95	690718		Screw (Throttle Valve)
97	696387		Shaft-Throttle
98	695408	Ø	Kit-Idle Speed
104	694918	Ø	Pin-Float Hinge
105	696136	Ø	Valve-Float Needle
108	696736		Valve-Choke
109	793162		Shaft-Choke
117	696134	Ø	Jet-Main (Standard)
118	696135	Ø	Jet-Main (High Altitude)
121	696146		Kit-Carburetor Overhaul
122	694876	Ø ‡	Spacer-Carburetor
125	793161		Carburetor
127	690727	Ø	Plug-Welch
130	696139		Valve-Throttle
133	694914		Float-Carburetor
135	696142		Tube-Fuel Transfer
137	695426	Ø ‡	Gasket-Float Bowl
146	690979		Key-Timing
163	692277	+Ø‡	Gasket-Air Cleaner
187	698080		Line-Fuel
188	699479		Screw (Control Bracket)
190	699220		Screw (Fuel Tank)
192	690083		Adjuster-Rocker Arm
209	694867		Spring-Governor
211	695307		Spring-Governed Idle
219	693578		Gear-Governor
220	691724		Washer (Governor Gear)
222	794800		Bracket-Control
227	694864		Lever-Governor Control
271	698035		Lever-Control
278	792008		Washer (Governor Control Lever)
281	697268		Panel-Control
287	699629		Screw (Dipstick Tube)
300	794948		Muffler
304	791479		Housing-Blower
305	699480		Screw (Blower Housing)
306	697240		Shield-Cylinder
307	794822		Screw (Cylinder Shield)
309	793524		Motor-Starter
332	794824		Nut (Flywheel)
333	492341		Armature-Magneto
334	699477		Screw (Magneto Armature)
337	691043		Plug-Spark
358	695438		Gasket Set-Engine
369	695422		Spring-Float Bowl
383	19374s		Wrench-Spark Plug
455	795011		Cup-Flywheel
456	692299		Plate-Pawl Friction
459	281505s		Pawl-Ratchet
472	791958		Knob-Choke Shaft
474	793640		Alternator
485	695755		Knob-Control
504	694254		Washer Set-Friction
505	691251		Nut (Governor Control Lever)
523	695344		Dipstick
524	691876		Seal-O Ring (Dipstick Tube)
525	695343		Tube-Dipstick
528	793006		Hose-Primer
529	791822		Grommet
552	694674		Bushing-Governor Crank
562	793216		Bolt (Governor Control Lever)
564	699854		Screw (Control Cover)
578	793206		Wire Assembly
597	691696		Screw (Pawl Friction Plate)
601	791850		Clamp-Hose
604	696758		Cover-Control
608	699335		Starter-Rewind
610	794541		Arrester-Intake

KEY NO.	PART NO.		DESCRIPTION
613	794846		Screw (Muffler)
613A	794844		Screw (Muffler)
615	694676		Retainer-Governor Shaft
616	694675		Crank-Governor
621	692310		Switch-Stop
632	695917		Spring/Link-Mechanical Governor
633	690998	Ø ‡	Seal-Choke/Throttle Shaft
635	691909		Boot-Spark Plug
663	699854		Screw (Control Panel)
668	794539		Spacer
676	697816		Deflector-Muffler
677	699776		Screw (Muffler Deflector)
689	691855		Spring-Friction
697	795012		Screw (Starter Motor)
718	690959		Pin-Locating
718A	695178		Pin-Locating
725	696756		Shield-Heat
727	697465		Cover-Starter Drive
731	794550		Hood-Snow
731A	793174		Hood-Snow
732	699200		Screw (Starter Drive Cover)
741	691288		Gear-Timing
742	692564		Retainer-E Ring
746	694679		Gear-Idler
798	697890		Screw (Rocker Cover)
832	699223		Guard-Muffler
836	699234		Screw (Muffler Guard)
842	795015		Seal-O Ring (Dipstick Tube)
847	790476		Dipstick/Tube Assembly
851	692424		Terminal-Spark Plug
868	794086	•+	Seal-Valve
883	695398	•+	Gasket-Exhaust
892	791944		Switch-Key
914	794827		Screw (Rocker Cover)
930	696709		Guard-Rewind
957	698109		Cap-Fuel
972	698110		Tank-Fuel
975	696138		Bowl-Float
976	793382		Primer-Carburetor
977	696147		Gasket Set-Carburetor
990	695756		Key Set
998	792928		Pipe-Oil
1005	794815		Fan-Flywheel
1011	794544		Tube-Vent
1022	690971	•+	Gasket-Rocker Cover
1023	698042		Cover-Rocker
1026	695177		Rod-Push
1029	690972		Arm-Rocker
1036	- - -		Label-Emissions (Available from an authorized Briggs & Stratton Service Dealer)
1058	277104		Manual-Operator's
1070	794821		Screw (Flywheel Fan)
1095	695440		Gasket Set-Valve
1100	791959		Pivot-Rocker Arm
1119	699772		Screw (Alternator)
1127	695407		Screw (Float Bowl)
1171	794828		Stud (Rocker Arm Cover)
1196	696692		Screw (Snow Hood)
1210	498144		Pulley/Spring Assembly (Pulley)
1211	498144		Pulley/Spring Assembly (Spring)
1230	699847		Stud (Control Bracket)
1251	696762		Shield-Snow
1251A	790471		Shield-Snow
1252	699480		Screw (Snow Shield)
1288	794838		Nut (Snow Hood)
1298	795016		Nut (Heat Shield)
1318	698111		Knob-Snow Hood
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).
1351	794847		Stud (Cylinder Shield)
1352	795016		Nut (Spark Plug Shield)

• Included in Engine Gasket Set, Key No. 358

Ø Included in Carburetor Overhaul Kit, Key No. 121

‡ Included in Carburetor Gasket Set, Key No. 977

\+ Included in Valve Gasket Set, Key No. 1095

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 Automo-tive 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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