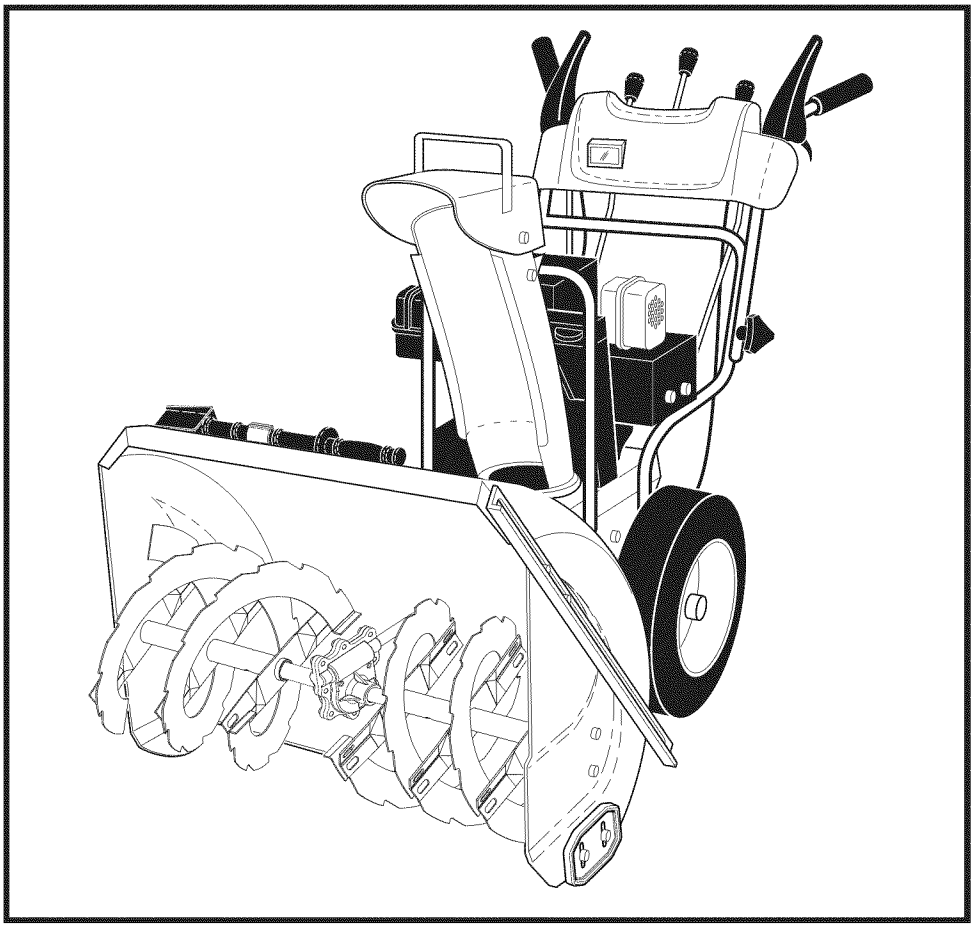
SEARS

OWNER'S MANUAL

MODEL NO. 944.522444

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



CRAFTSMAN®

1650 SERIES B&S ENGINE 30" TWO-STAGE POWER-PROPELLED SNOW THROWER

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

Gasoline containing up to 10% ethanol (E10) is acceptable for use in this machine. The use of any gasoline exceeding 10% ethanol (E10) will void the product warranty.

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

585576627

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.

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.

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.

PRODUCT SPECIFICATIONS

Gasoline Capacity and Type:	3.2 Quarts (3,02 Liters) Unleaded Regular only
Oil Type (API SG–SL):	SAE 5W-30 or 10W-30 Synthetic SAE 5W-30
Oil Capacity:	28 Ounces (0,62 Liters)
Spark Plug: **Gap:**	Champion 696798 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.

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GENERAL: Craftsman products are warranted to be free from defects in materials or workmanship for a specific time period as set-out below (the "Warranty Period"). Warranties extend to the original purchaser of a Craftsman product only. Purchases made through an online auction or through any website other than www.sears.ca are excluded. The relevant Warranty Period commences on the original date of purchase. Within this period, SEARS CANADA, Inc. will, at its sole option, repair or replace any products or components which fail in normal use. Such repairs or replacement will be made at no charge to the customer for parts or labor, provided that the customer shall be responsible for any transportation cost.

EXCLUSIONS: This warranty does not cover failures due to normal wear, abuse, misuse, neglect (including but not limited to the use of stale fuel, dirt, abrasives, moisture, rust, corrosion, or any adverse reaction due to improper storage or use habits), improper maintenance or failure to follow maintenance guidelines and/or instructions, failure to operate the product in accordance with the owner's manual or any additional instructions or information provided at the time of purchase or in subsequent communications with the original purchaser, accident or unauthorized alterations or repairs made or attempted by others. Also excluded from warranty coverage - except as provided below - are the following: maintenance, adjustments, components subject to wear including but not limited to: cosmetic components, belts, blades, blade adapters, bulbs, tires, filters, guide bars, lubricants, seats, grips, recoil assy's, saw chains and bars, trimmer lines and spools, spark plugs, starter ropers and tines, and discoloration resulting from ultraviolet light. Any product missing the model and/or serial number identification label will be disqualified from coverage under this warranty.

REPAIRS: Repairs have a 90 day warranty. If the defective product is still within the Warranty Period, then the new warranty is 90 days from the date of repair or to the end of the original Warranty Period, whichever period is longer.

DISCLAIMERS: THE WARRANTIES AND REMEDIES CONTAINED HEREIN ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER ORAL OR WRITTEN (OTHER THAN AS STATED HEREIN), AND WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING BUT NOT LIMITED TO ANY. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, WHICH MAY VARY FROM PROVINCE TO PROVINCE.

IN NO EVENT SHALL SEARS BE LIABLE FOR ANY INCIDENTAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM THE USE, MISUSE OR INABILITY TO USE THE PRODUCT OR FROM DEFECTS IN THE PRODUCT. THE EXCLUSIONS IN THIS PARAGRAPH SHALL NOT APPLY IN JURISDICATIONS WHERE APPLICABLE LAW DOES NOT ALLOW FOR THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. IN SUCH JURISDICTIONS, THIS PARAGRAPH SHALL NOT APPLY, BUT THE REMAINING PROVISIONS OF THIS DOCUMENT SHALL REMAIN VALID.

SEARS retains the exclusive right to repair or replace the product or offer a full refund of the purchase price at its sole discretion. SUCH REMEDY SHALL BE YOUR SOLE AND EXCLUSIVE REMEDY FOR ANY BREACH OF WARRANTY.

CUSTOMER RESPONSIBILITIES: In additional to complying with all suggested maintenance guidelines and instructions, customers' obligations shall include but shall not be limited to: operating the product in accordance with the owner's manual or any additional instructions or information provided at the time of purchase or in subsequent communications to the purchaser from time to time, exhibit reasonable care in the use, operation, maintenance, general upkeep and storage of the product. Failure to comply with these requirements will void any applicable warranty.

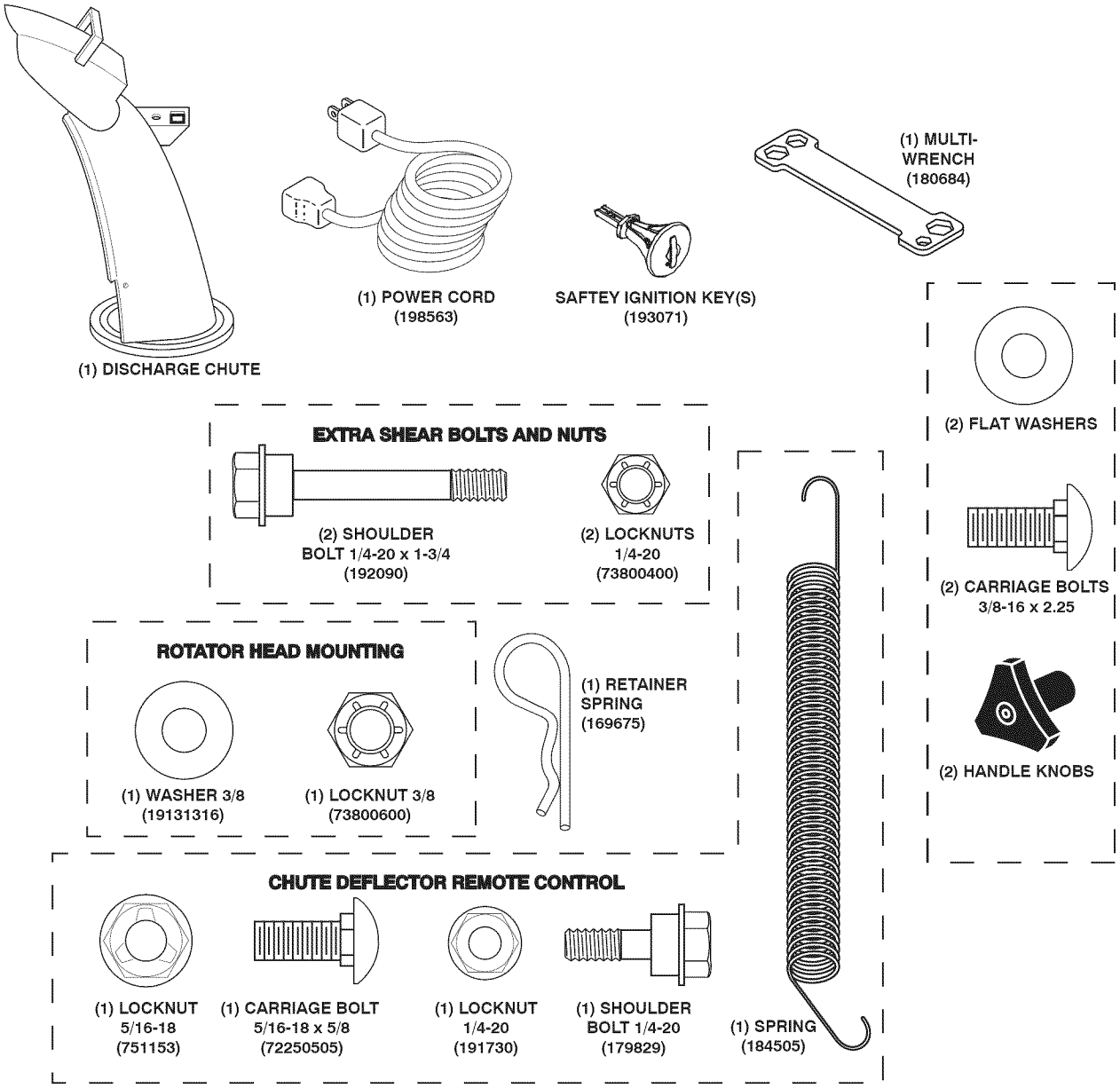
LIST OF APPLICABLE WARRANTY PERIODS: The following list contains the applicable Warranty Period for your Craftsman product and is based on a combination of the type of product or component and the intended and actual use of the product or component:

1. **90 DAYS:** Craftsman products intended for use or actually used for commercial, institutional, professional or income-producing purposes
2. **2 YEARS:** Craftsman riding lawn mowers, yard and garden tractors, walk behind mowers, tillers, brush cutters, snow blowers, handheld blowers, backpack blowers, hedge trimmers and electrical products for noncommercial, nonprofessional, non-institutional, or non-income-producing use, except for those components which are part of engine systems manufactured by third party engine manufacturers for which the purchase has received an separate warranty with product information supplied at the time of purchase.
3. **1 YEAR:** Craftsman power cutters, stump grinders, pole pruners, gas chain saws, electric chain saws, trimmer attachments, baggers and pole saws for noncommercial, nonprofessional, non-institutional, or non-income-producing use.
4. **90 DAYS:** All defective batteries, which will be replaced during this 90-day Warranty Period.
5. **60 DAYS:** Additional Warranty Period of 60 days will apply to adjustments and worn products or components BUT DOES NOT INCLUDE WEAR OR ADJUSTMENTS for products used for commercial, institutional, professional or income-producing purposes. Wear items include but are not limited to: belts, blades, tires, spark plugs, air filters, chains, shear bolts, skid plates, scraper bars, drift cutters, ropes, tines, collection bags and pulleys.

As the Warranty Period runs from the date of purchase and NOT from the date that a product is delivered, opened, assembled or first used, please ensure during this time period that your product or component has been assembled and tested for correction operation regardless of when you intend to actually use it. Claims made after the Warranty Period has expired will not be honored.

PROOF OF PURCHASE/DOCUMENTATION: Warranty coverage is conditioned upon the original purchaser furnishing SEARS CANADA or its authorized third party service provider if applicable, with the original sales receipt or other adequate written proof of the original purchase date and identification of the product. In the event that the original purchaser is unable to provide a company of the original sales receipt, SEARS CANADA Inc. reserves the right to determine in its sole discretion what other written proof of the original purchase date and identification of the product is acceptable.

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.

ASSEMBLY / PRE-OPERATION

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

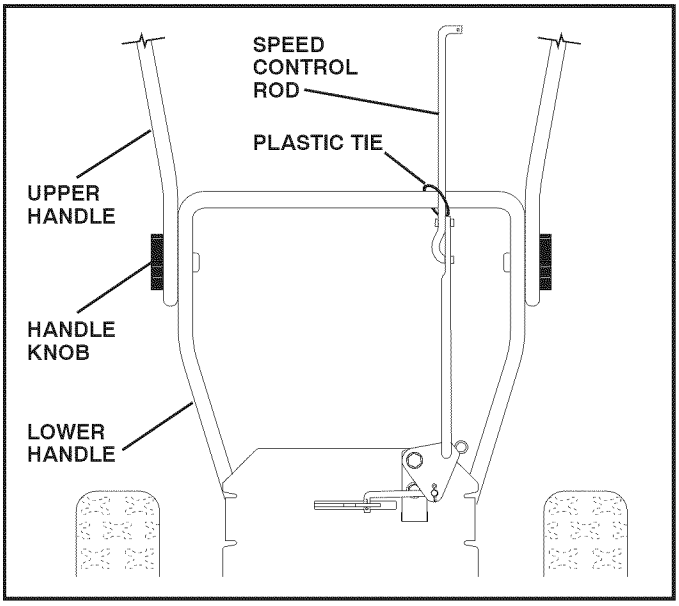


FIG. 1

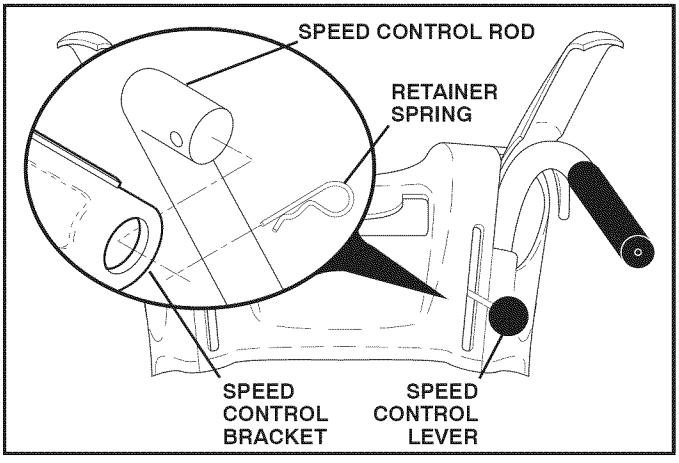


FIG. 2

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

The traction drive control rod is installed on the snow thrower.

1. Remove plastic tie securing traction drive control rod to rotator bracket.
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 traction drive control lever. Snap rod into place by pushing down.

NOTE: Engage lever once and rod should snap into place.

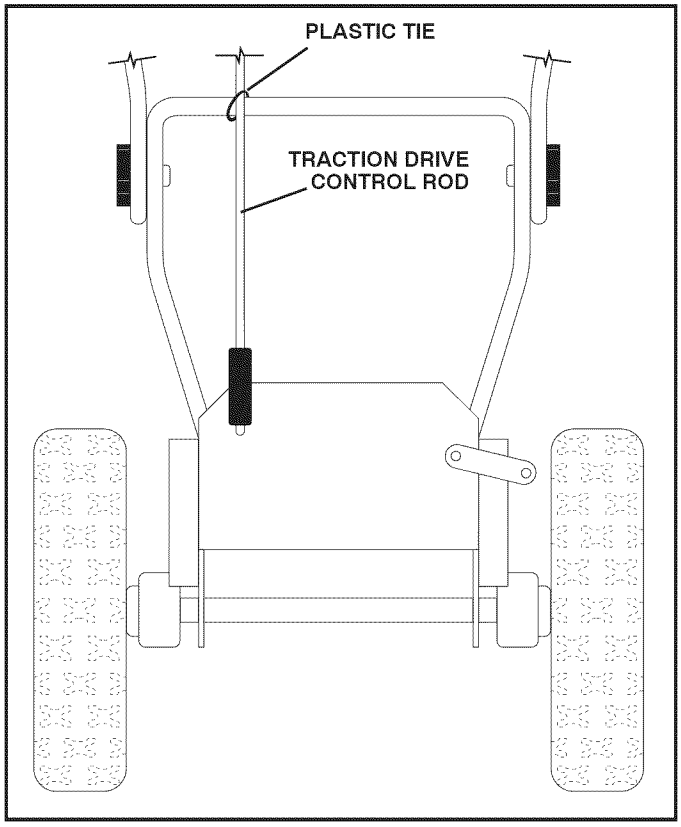


FIG. 3

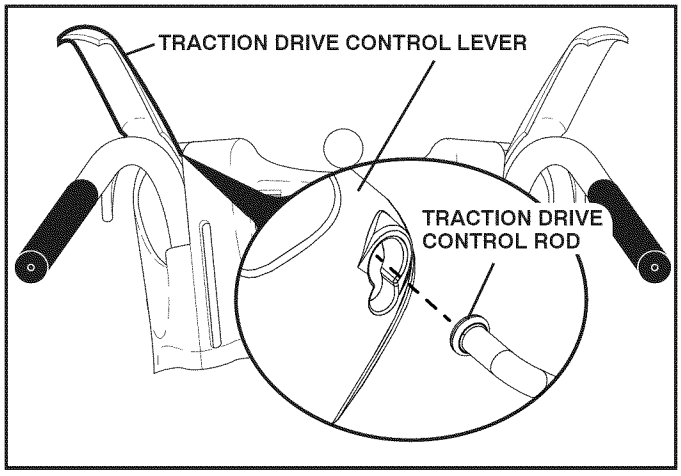


FIG. 4

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

The auger control rod is installed on the snow thrower.

1. Remove plastic tie securing auger control rod to lower handle. (See Fig. 5).
2. Push down on the auger control rod and bring top end of rod up between the metal console and plastic console cover at right control lever.
3. With control lever in the raised position, insert end of control rod in slot of control lever.

NOTE: Engage lever once and rod should snap into place.

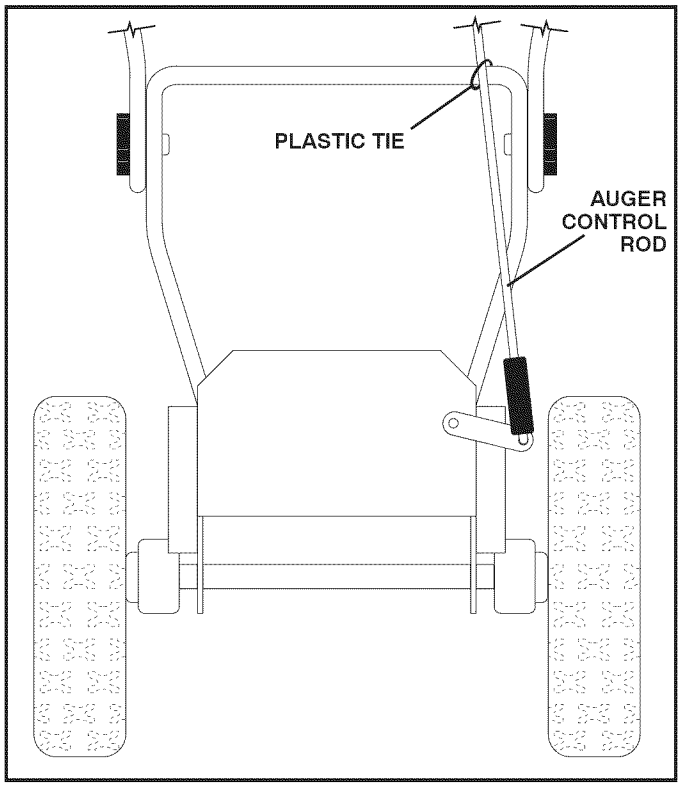


FIG. 5

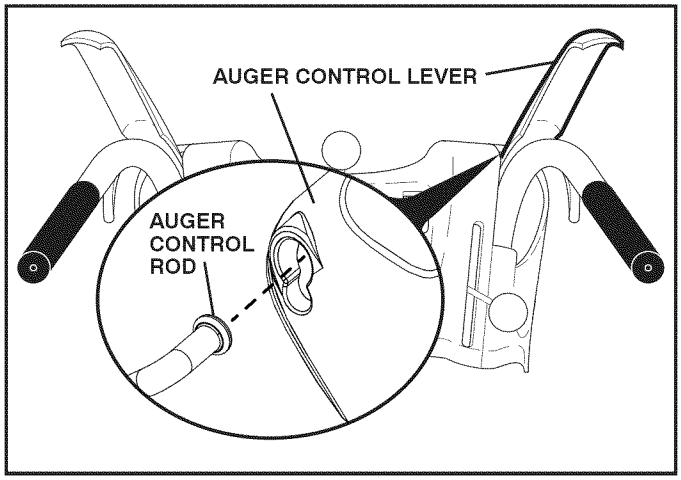


FIG. 6

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.

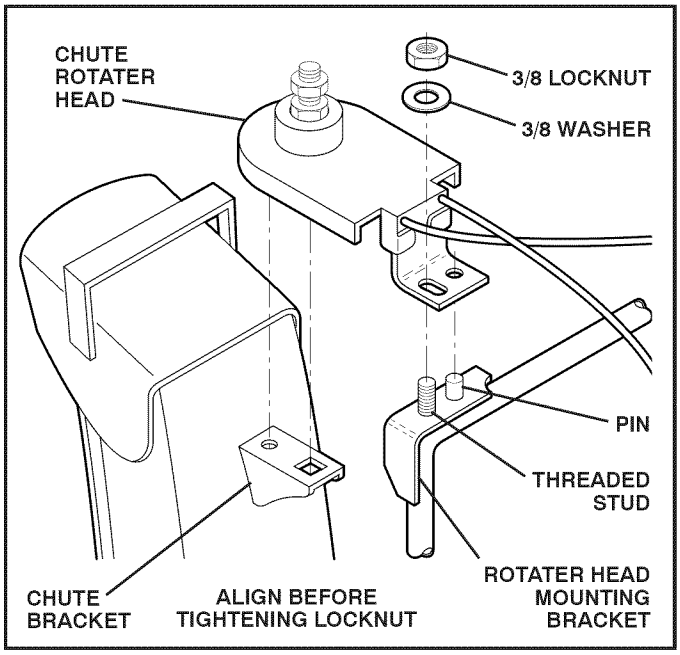


FIG. 7

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 and 1/4-20 locknut as shown. Tighten nut securely. Eyelet will be loose on shoulder bolt.
3. Install spring hooks between hex nuts on chute rotater head and into hole in chute deflector as shown.

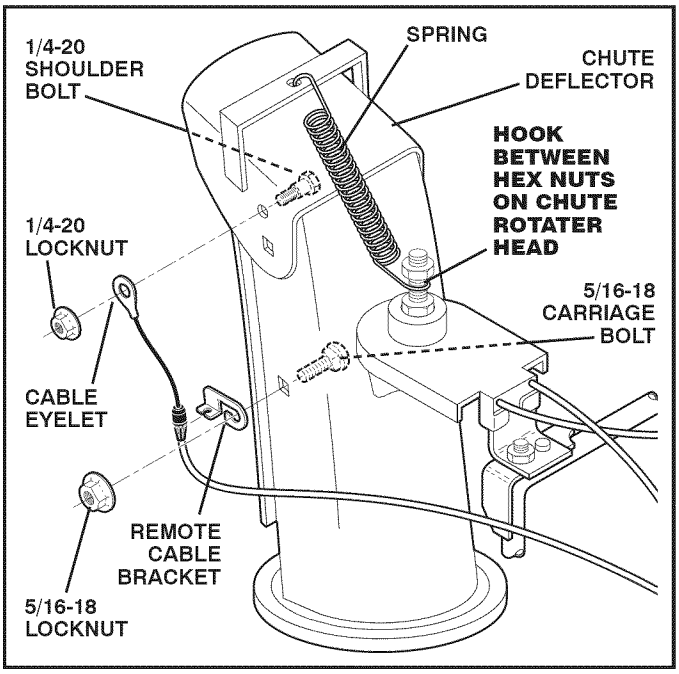


Fig. 8

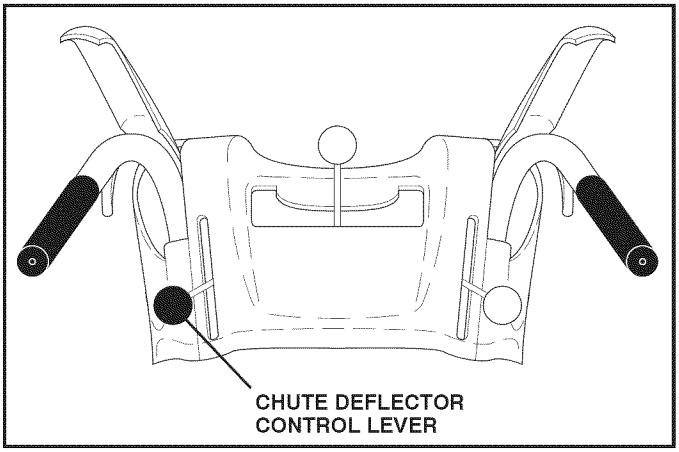


FIG. 9

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.

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



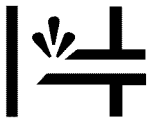
FAST



SLOW



CHOKE



PRIMER



FUEL



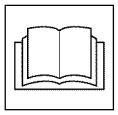
OIL

F

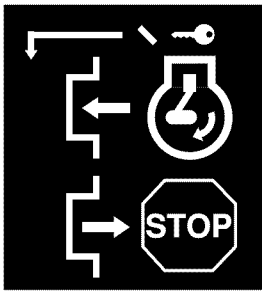
FORWARD

R

REVERSE



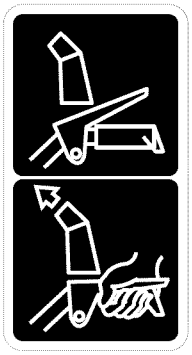
READ AND FOLLOW ALL SAFETY INFORMATION AND INSTRUCTIONS BEFORE USE OF THIS PRODUCT. KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE.



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



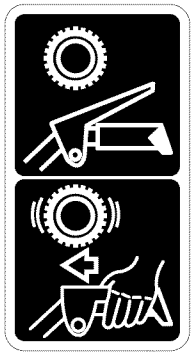




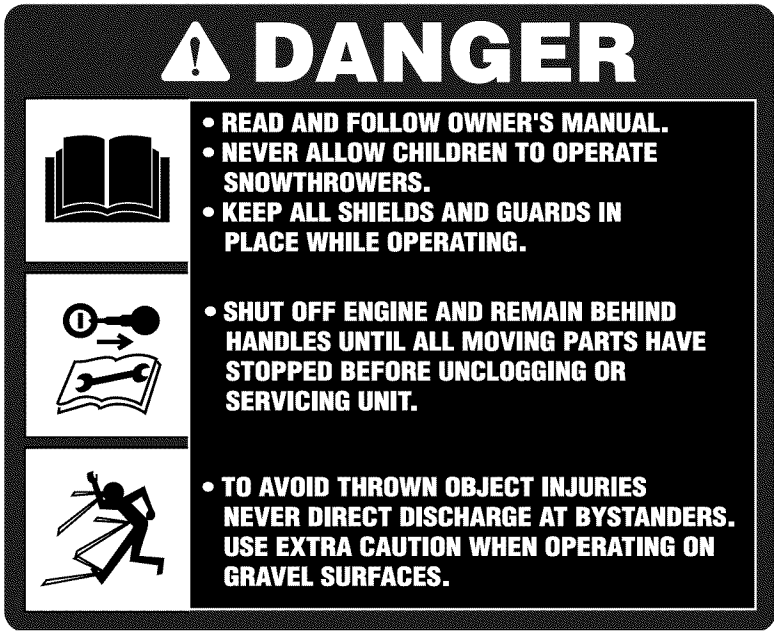
DISENGAGED

ENGAGED

SNOW DISCHARGE



TRACTION DRIVE CONTROL



OPERATION

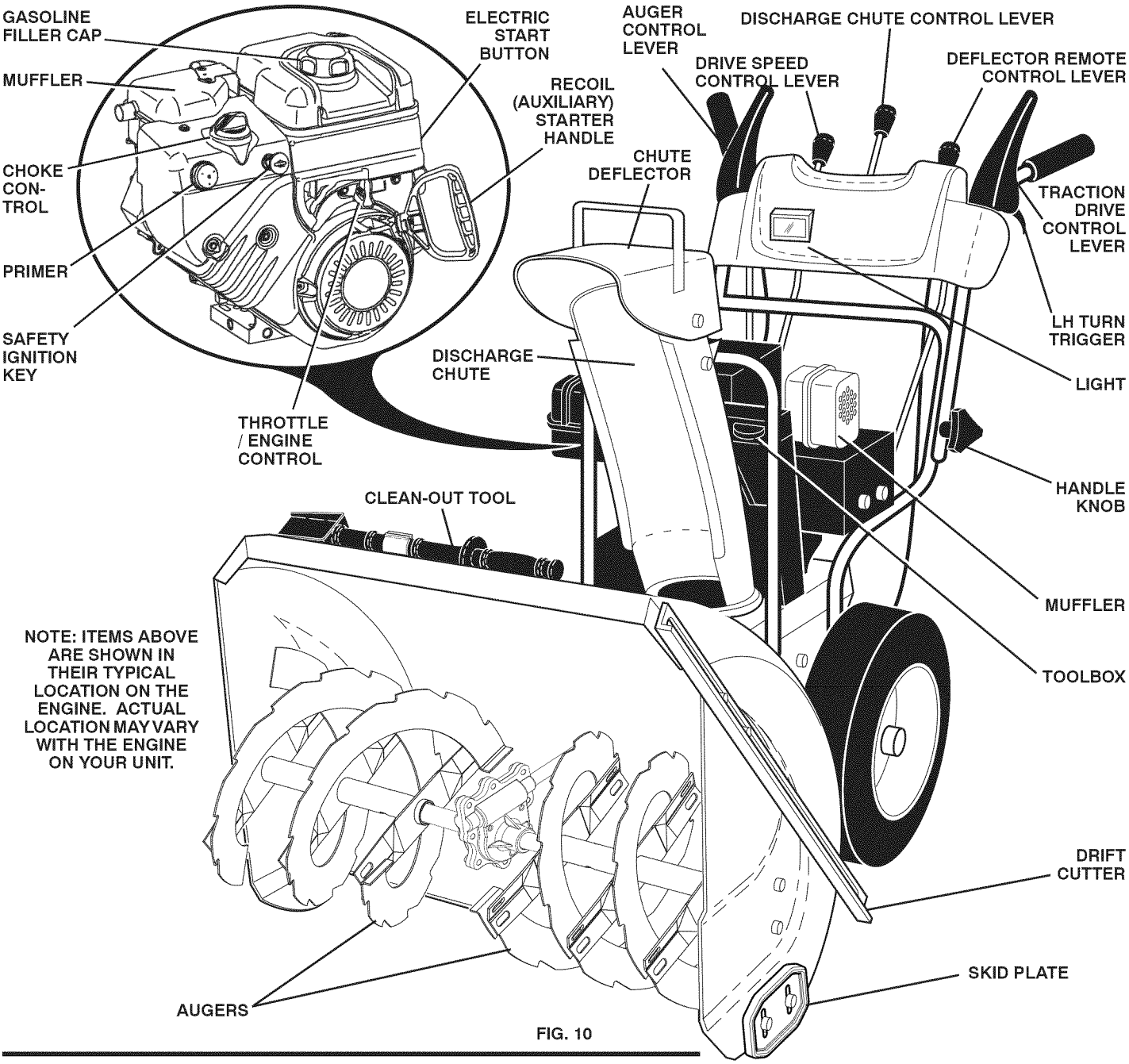


FIG. 10

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 the 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.

ON / OFF switch - used to STOP the engine.

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 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

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 THROTTLE CONTROL (See Fig. 11)

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.

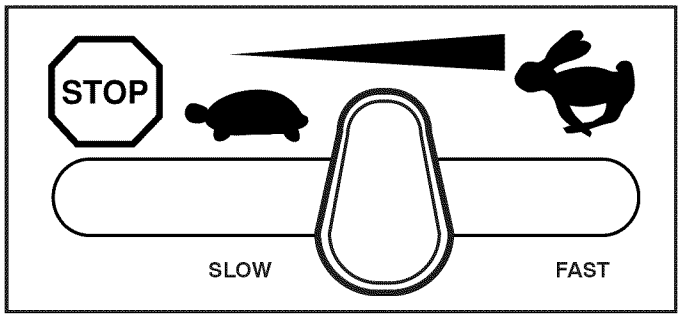


FIG. 11

TO USE CHOKE CONTROL (See Fig. 12)

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.

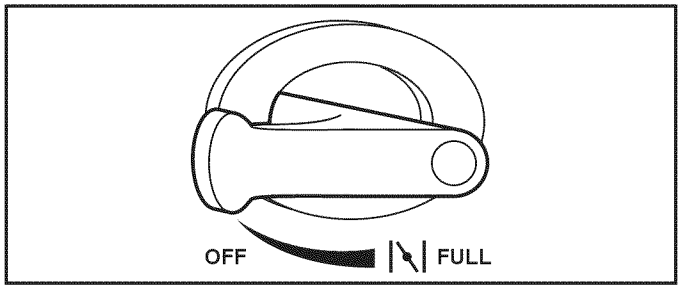


FIG. 12

TO CONTROL SNOW DISCHARGE (See Fig. 13)

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.

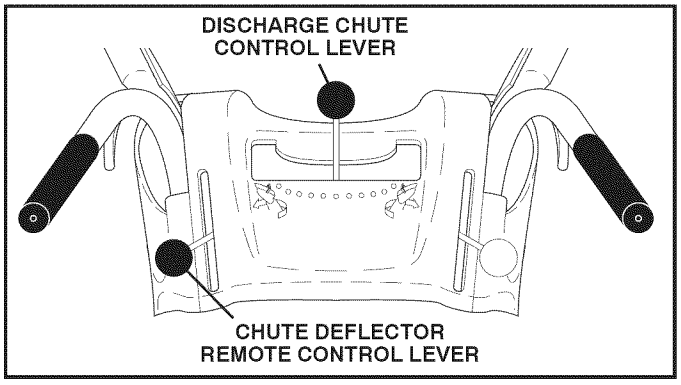


FIG. 13

TO THROW SNOW (See Fig. 14)

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.

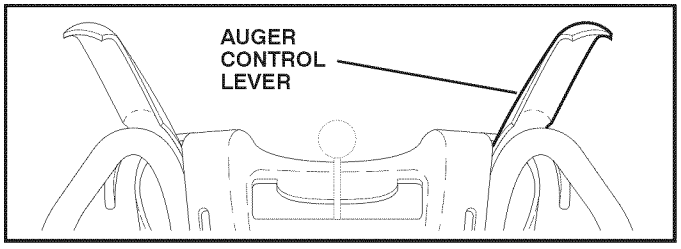


FIG. 14

OPERATION

USING THE CLEAN-OUT TOOL (See Fig. 15)

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

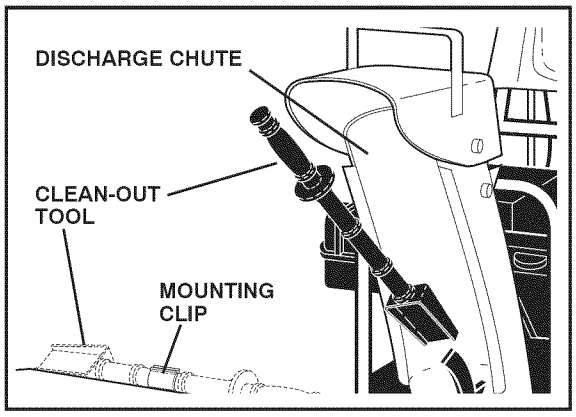


FIG. 15

TO MOVE FORWARD AND BACKWARD (See Fig. 16)

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.

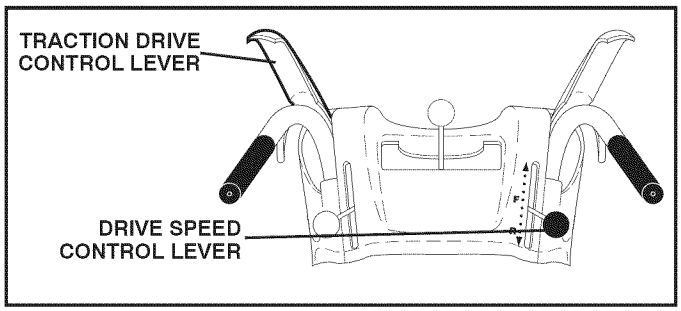


FIG. 16

POWER STEERING OPERATION (See Fig. 17)

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.

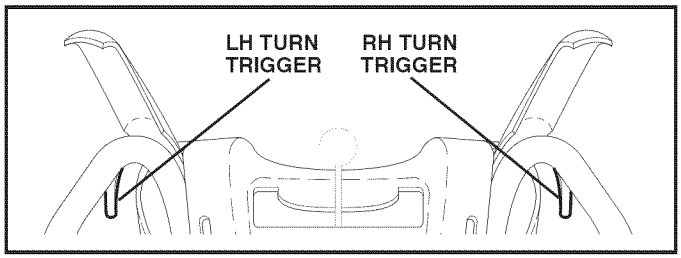


FIG. 17

TO ADJUST SKID PLATES (See Fig. 18)

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.

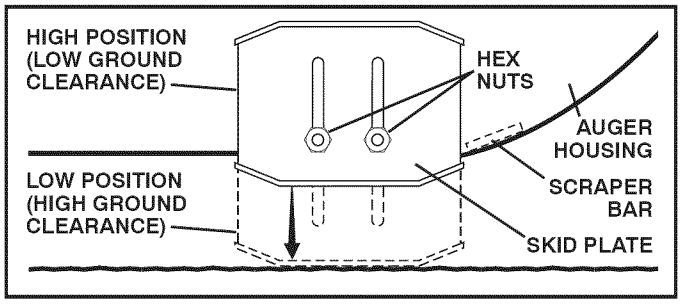


FIG. 18

SCRAPER BAR (See Fig. 18)

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. 19)

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.

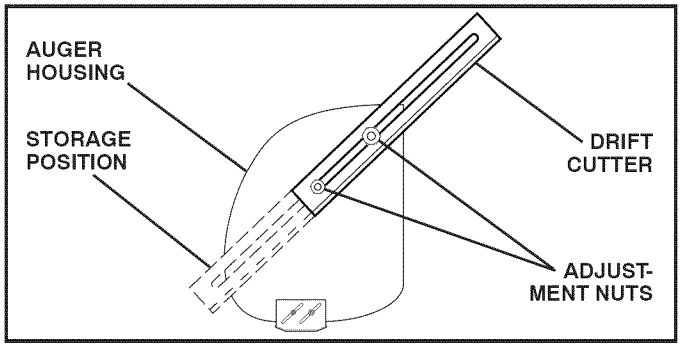


FIG. 19

BEFORE STARTING THE ENGINE

CHECK ENGINE OIL LEVEL (See Fig. 20)

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.

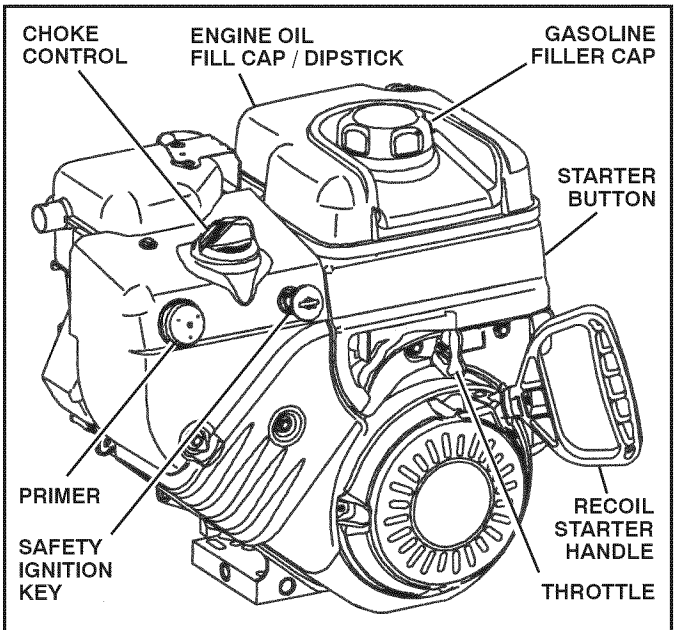
- To change engine oil, see "TO CHANGE ENGINE OIL" in the Maintenance section of this manual.

ADD GASOLINE (See Fig. 20)

- 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.



NOTE: ALL ITEMS ARE SHOWN IN THEIR TYPICAL LOCATION. ACTUAL LOCATION MAY VARY WITH ENGINE ON YOUR UNIT.

FIG. 20

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 (tied to recoil start cord) 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 (tied to recoil start cord) 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, 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

- 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.

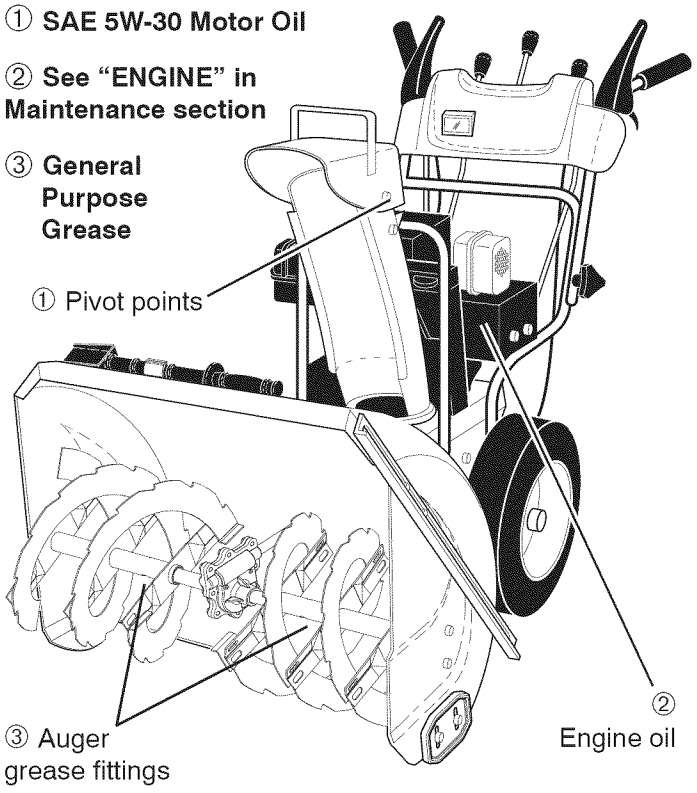
BEFORE EACH USE

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 PSI).
- 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

BELTS

Check 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 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.

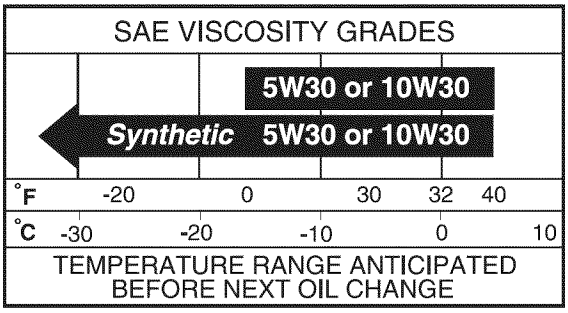
CAUTION: Any lubricating of the above components can cause contamination of the friction wheel and damage to the drive system of your snow thrower.

ENGINE

See engine manual.

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. 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 and place wire where it cannot come in contact with 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 wheel pin and retainer 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: Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with 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. 21)

AUGER SHEAR BOLTS

Both right and left-hand augers are secured to the auger shaft with a 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" shear bolt. 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.

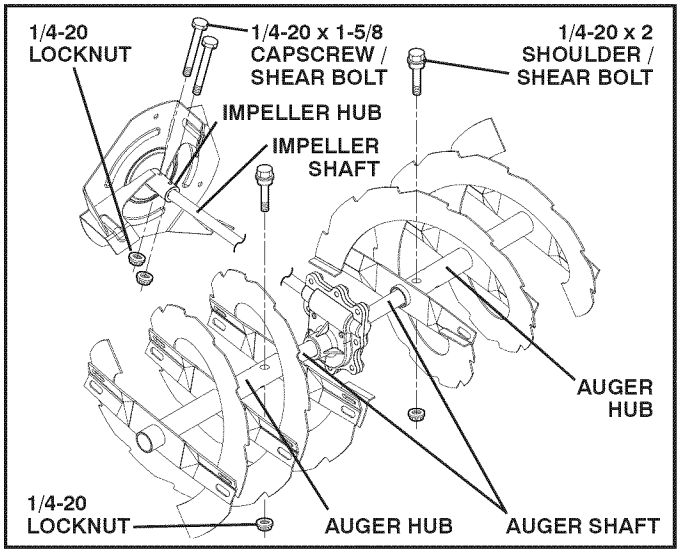


Fig. 21

TO REMOVE BELT COVER (See Fig. 22)

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

- Replace belt cover by installing cover and tightening screws.

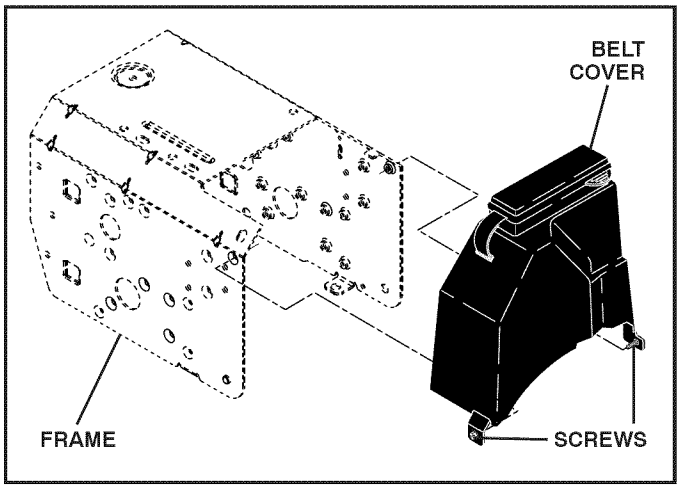


FIG. 22

SERVICE AND ADJUSTMENTS

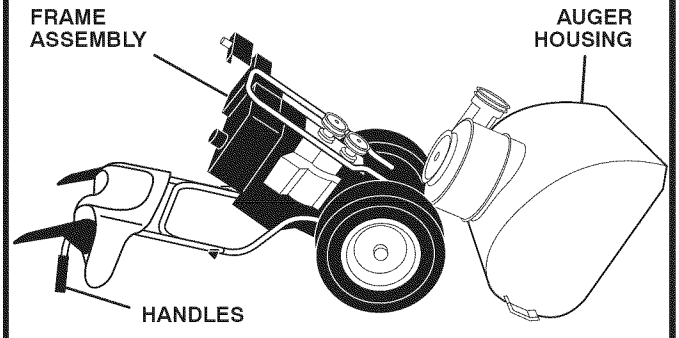
TO REPLACE BELTS (See Fig. 23)

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 center/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 center/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, 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.

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

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, 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.

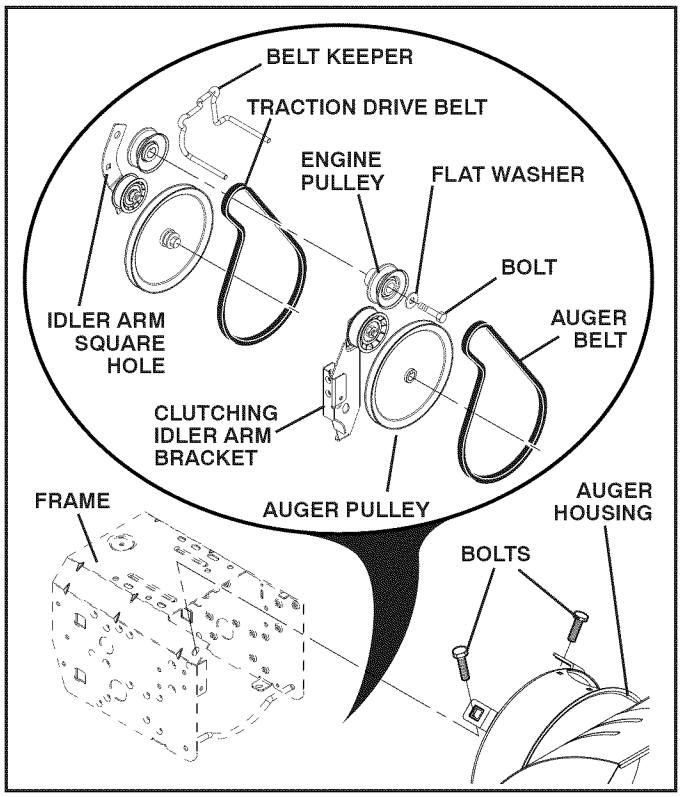


FIG. 23

SERVICE AND ADJUSTMENTS

TO REMOVE WHEELS (See Fig. 24)

- Remove the wheel pin and retainer pin and remove wheel from axle.

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.

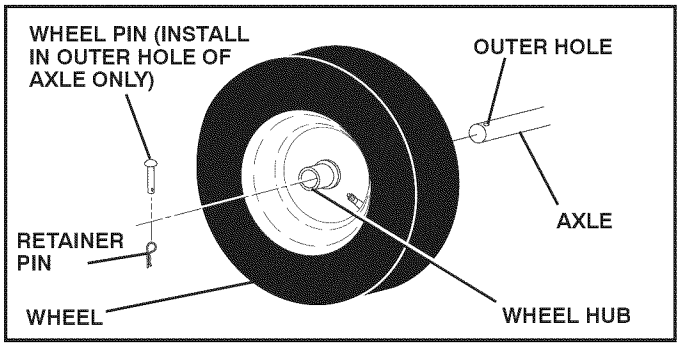


FIG. 24

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 center/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 center/ department, which has the proper equipment and experience to make any necessary adjustments.

TO ADJUST CABLE TENSION (See Fig. 25)

Adjust cable tension by turning the adjuster turn buckle, located on the right hand cable. Grasp the long section tightly and turn the short section to lengthen the adjuster. Adjust until cable is snug.

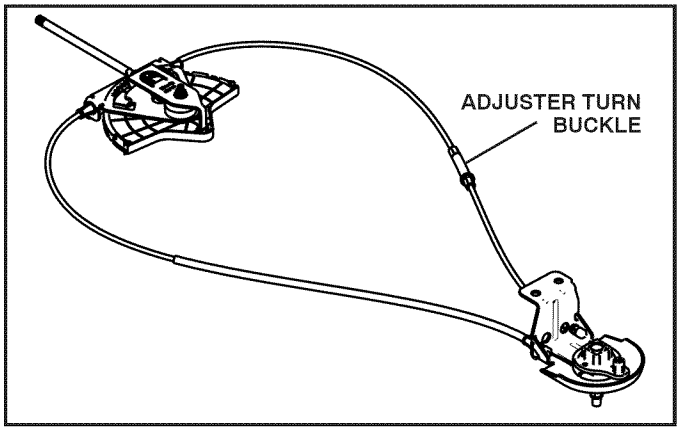


FIG. 25

TO ADJUST TRACTION BELT AND AUGER BELT TENSION

If the traction or auger belt is slipping because it is not tight enough when engaged, the tension can be increased by adjusting the spring location in the control rod. Unhook the rod from the control lever and move the spring at the bottom of the rod one or two holes closer to the top of the rod. This effectively shortens the rod and increases the belt tension. (See "INSTALL AUGER CONTROL ROD" in the Assembly section of this manual.)

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

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

1. Remove spark plug.
2. Pour one ounce (29 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.

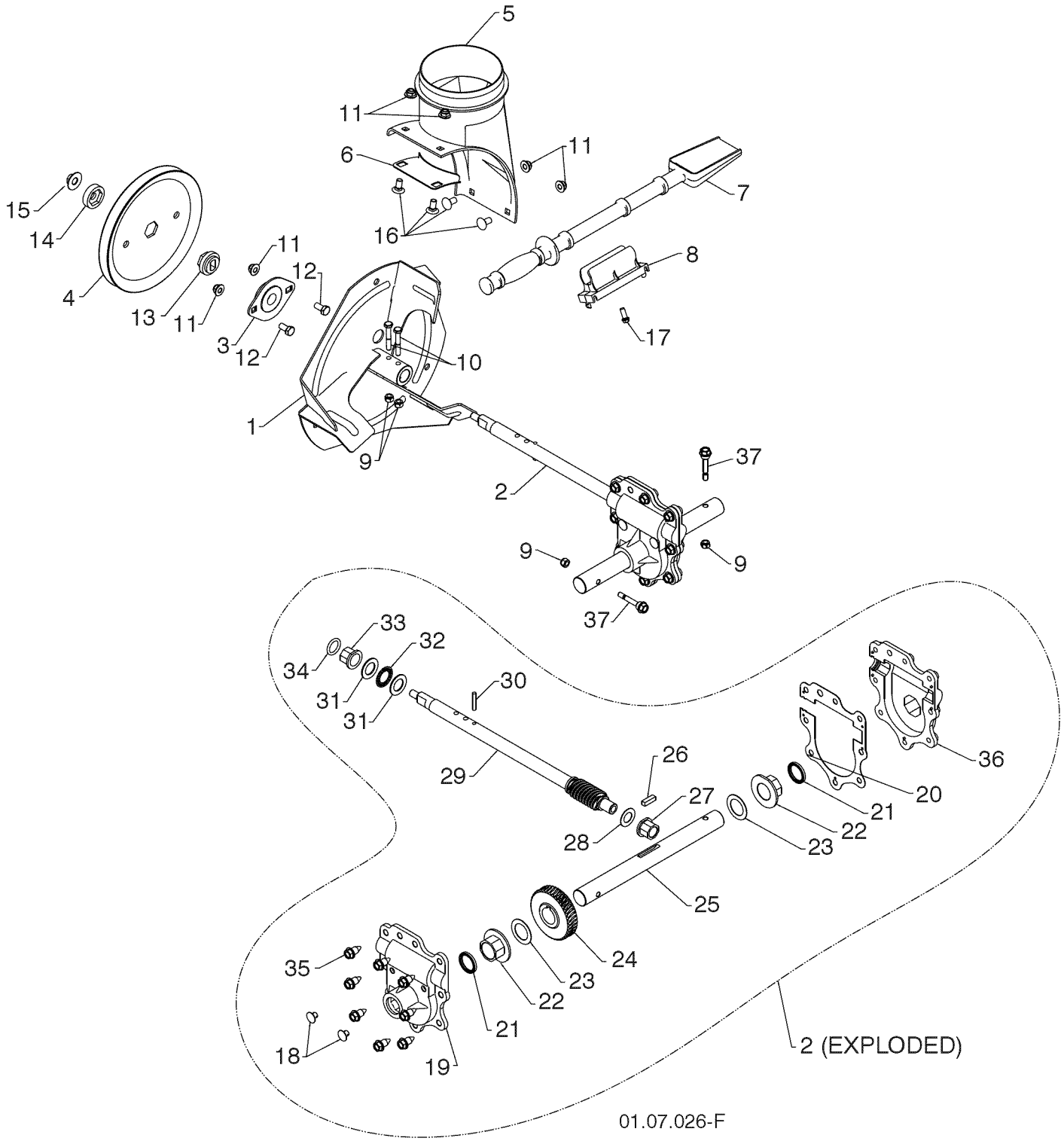
IMPORTANT: Never cover snow thrower while engine/exhaust area is still warm.

TROUBLESHOOTING

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

PROBLEM	CAUSE	CORRECTION
Does not start	1. Fuel shut-off valve (if so equipped) in OFF position.	1. Turn fuel shut-off valve to OPEN position.
	2. Safety ignition key is not inserted.	2. Insert safety ignition key.
	3. Out of fuel.	3. Fill fuel tank with fresh, clean gasoline.
	4. Throttle in STOP position (or ON/ OFF switch is OFF).	4. Move throttle to FAST position (or ON/OFF switch to ON position).
	5. Choke in OFF position.	5. Move to FULL position.
	6. Primer not depressed.	6. Prime as instructed in the Operation section of this manual.
	7. Engine is flooded.	7. Wait a few minutes before restarting, DO NOT prime.
	8. Spark plug wire is disconnected.	8. Connect wire to spark plug.
	9. Bad spark plug.	9. Replace spark plug.
	10. Stale fuel.	10. Empty fuel tank & carburetor, refill with fresh, clean gasoline.
	11. Water in fuel.	11. Empty fuel tank & carburetor, refill with fresh, clean gasoline.
Loss of power	1. Spark plug wire loose.	1. Reconnect spark plug wire.
	2. Throwing too much snow.	2. Reduce speed and width of swath.
	3. Fuel tank cap is covered with ice or snow.	3. Remove ice and snow on and around fuel tank cap.
	4. Dirty or clogged muffler.	4. Clean or replace muffler.
Engine idles or runs roughly	1. Choke is in FULL position.	1. Move choke to OFF position.
	2. Blockage in fuel line.	2. Clean fuel line.
	3. Stale fuel.	3. Empty fuel tank & carburetor, refill with fresh, clean gasoline.
	4. Water in fuel.	4. Empty fuel tank & carburetor, refill with fresh, clean gasoline.
	5. Carburetor is in need of adjustment or overhaul.	5. Contact an authorized Sears service center/department.
Excessive vibration	1. Loose parts or damaged augers or impeller.	1. Tighten all fasteners. Replace damaged parts. If vibration re-mains, contact an authorized Sears service center/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.	1. Check / replace drive belt.
	2. Drive belt is off of pulley.	2. Check / reinstall drive belt.
	3. Friction drive wheel is worn.	3. Contact an authorized Sears service center/department.
Loss of snow discharge or slowing of snow discharge	1. Auger belt is off of pulley.	1. Check / reinstall auger belt.
	2. Auger belt is worn.	2. Check / replace auger belt.
	3. Clogged discharge chute.	3. Clean snow chute.
	4. Augers / impeller jammed.	4. Remove debris or foreign object from augers / impeller.
Lights not On	1. Motor not running.	1. Start engine.
	2. Loose wire connection.	2. Check wire connections at engine and light.
	3. LED burnt out.	3. Replace LED light module. (Individual LEDs are not replaceable)

AUGER HOUSING / IMPELLER ASSEMBLY



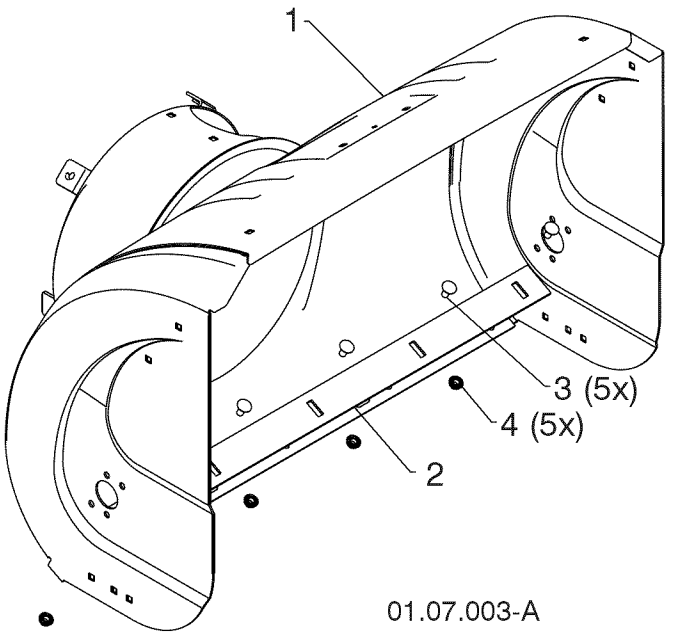
NOTE: All component dimensions given in U.S. inches. 1 inch = 25.4 mm
IMPORTANT: Use only Original Equipment Manufacturer (O.E.M.) replacement parts.
Failure to do so could be hazardous, damage your snow thrower and void your warranty.

AUGER HOUSING / IMPELLER ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION
1	175321X479	IMPELLER
2	427148	GEARBOX ASSEMBLY
3	188909	BEARING
4	427146	IMPELLER PULLEY
5	442438	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	427942	NUT 5/16-18
12	163183	SCREW 5/16-18 X .625
13	427145	IMPELLER HUB
14	427154	IMPELLER SLEEVE
15	145212	FLANGE NUT 3/8-16
16	180355	CARRIAGE BOLT
17	194189	SCREW 13-16 X .625
18	407760	PLUG
19	427302	GEARBOX COVER RH
20	427345	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	427147	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	427317	GEARBOX COVER LH
37	192090	SHEAR BOLT

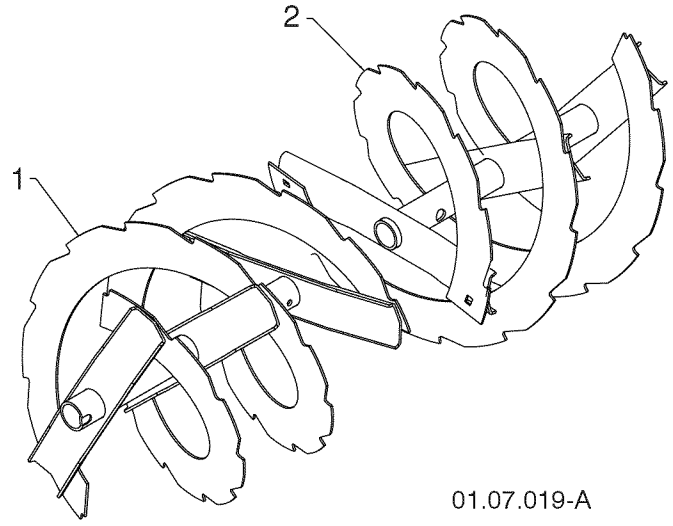
NOTE: All component dimensions given in U.S. inches. 1 inch = 25.4 mm
IMPORTANT: Use only Original Equipment Manufacturer (O.E.M.) replacement parts. Failure to do so could be hazardous, damage your snow thrower and void your warranty.

AUGER HOUSING / IMPELLER ASSEMBLY



01.07.003-A

KEY NO.	PART NO.	DESCRIPTION
1	404930X428	AUGER HOUSING
2	404933X479	SCRAPPER BAR
3	72270505	CARRIAGE BOLT 5/16-18 X .625
4	155377	NUT 5/16-18

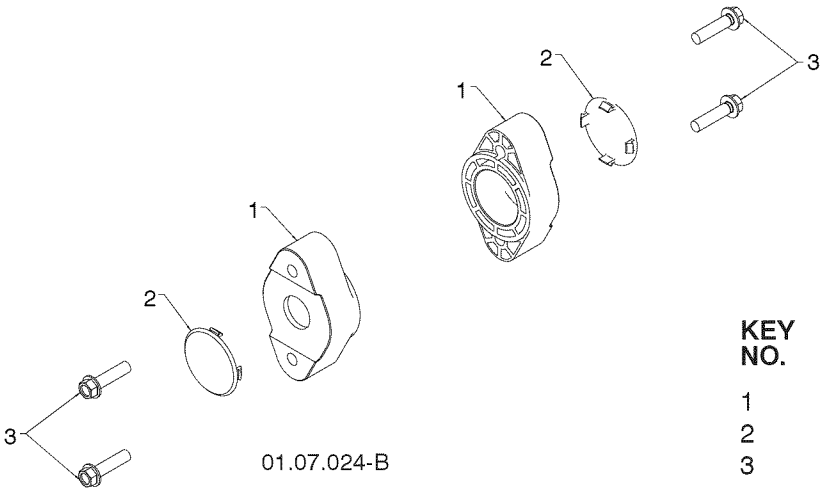


01.07.019-A

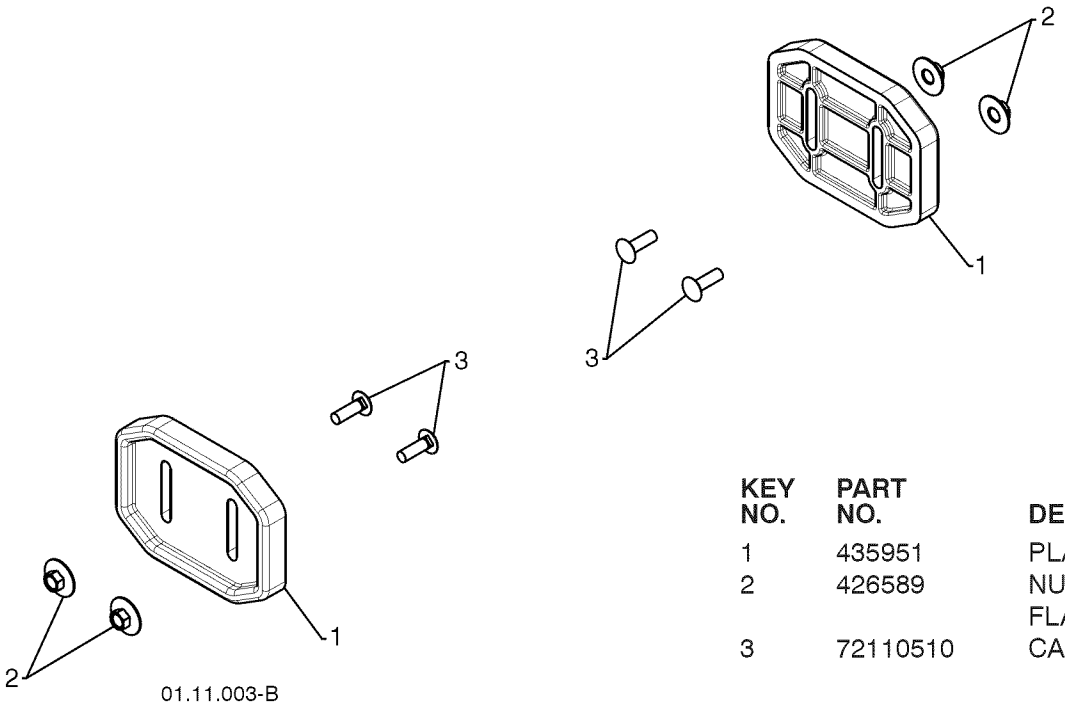
KEY NO.	PART NO.	DESCRIPTION
1	420497X479	AUGER ASSEMBLY 30 LH
2	420498X479	AUGER ASSEMBLY 30 RH

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.

AUGER HOUSING / IMPELLER ASSEMBLY



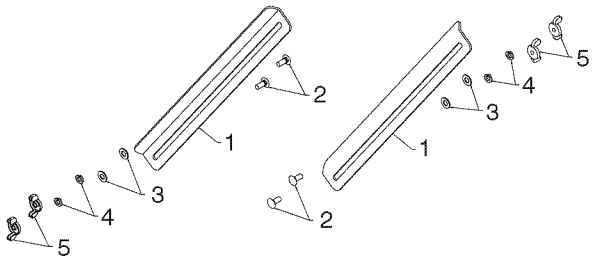
KEY NO.	PART NO.	DESCRIPTION
1	420478	AUGER BEARING
2	411939	BEARING PLUG
3	179582	SCREW 5/16–18 X 1.00



KEY NO.	PART NO.	DESCRIPTION
1	435951	PLATE SKID PLASTIC HDPE
2	426589	NUT 5/16-18 LARGE HEX FLANGE BLK
3	72110510	CARRIAGE BOLT 5/16-18 X 1.25

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.

AUGER HOUSING / IMPELLER ASSEMBLY

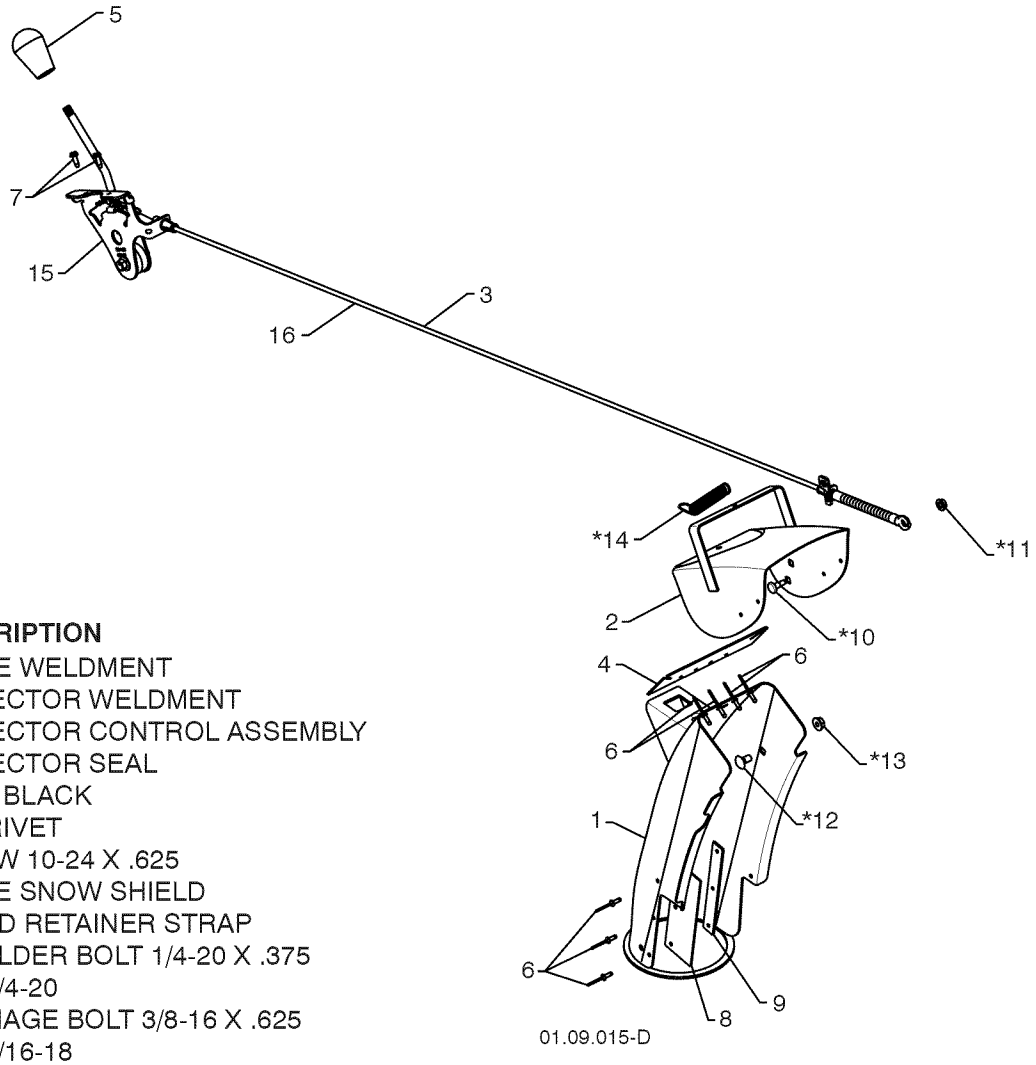


01.16.001-B

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

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

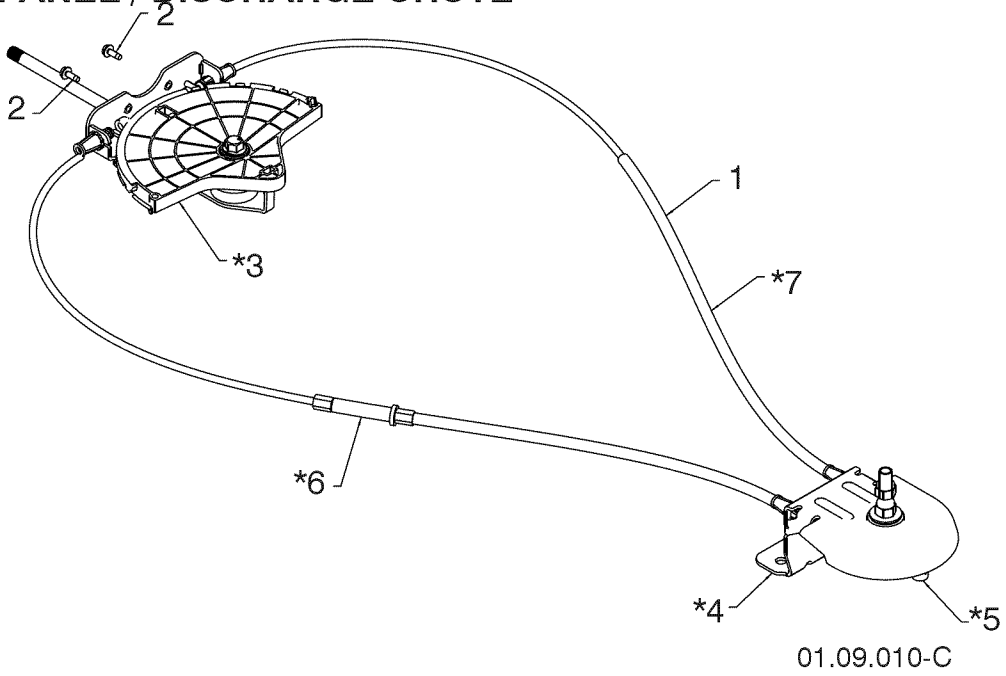


KEY NO.	PART NO.	DESCRIPTION
1	443328X428	CHUTE WELDMENT
2	178633X428	DEFLECTOR WELDMENT
3	585271701	DEFLECTOR CONTROL ASSEMBLY
4	420325	DEFLECTOR SEAL
5	414280	KNOB BLACK
6	128415	POP RIVET
7	17541008	SCREW 10-24 X .625
8	430324	CHUTE SNOW SHIELD
9	419822X004	SHIELD RETAINER STRAP
*10	179829	SHOULDER BOLT 1/4-20 X .375
*11	191730	NUT 1/4-20
*12	72250505	CARRIAGE BOLT 3/8-16 X .625
*13	751153	NUT 5/16-18
*14	184505	DEFLECTOR SPRING
15	420679	(SERVICE PART) DEFLECTOR CONTROL
16	585271601	(SERVICE PART) DEFLECTOR CABLE BLACK

NOTE:
1. ALL ITEMS INDICATED WITH AN * ARE PROVIDED IN THE BAG OF ITEMS SHIPPED LOOSE WITH PRODUCT.
2. ITEMS 15 AND 16 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
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.

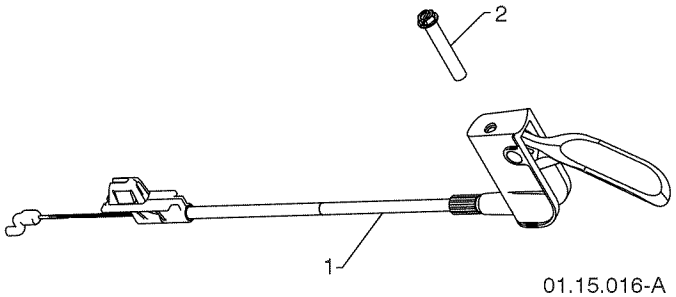
CONTROL PANEL / DISCHARGE CHUTE



01.09.010-C

KEY NO.	PART NO.	DESCRIPTION
1	428272	LEVER/CABLE ROTATOR ASSEMBLY
2	17541008	SCREW 10-24 X .625
*3	420678	ROTATOR HEAD
*4	405932	ROTATOR PIVOT BRACKET
*5	420675	PULLEY PIVOT
*6	428273	CABLE ASSEMBLY ADJUSTABLE
*7	428310	CABLE ASSEMBLY HEAT SHIELD

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

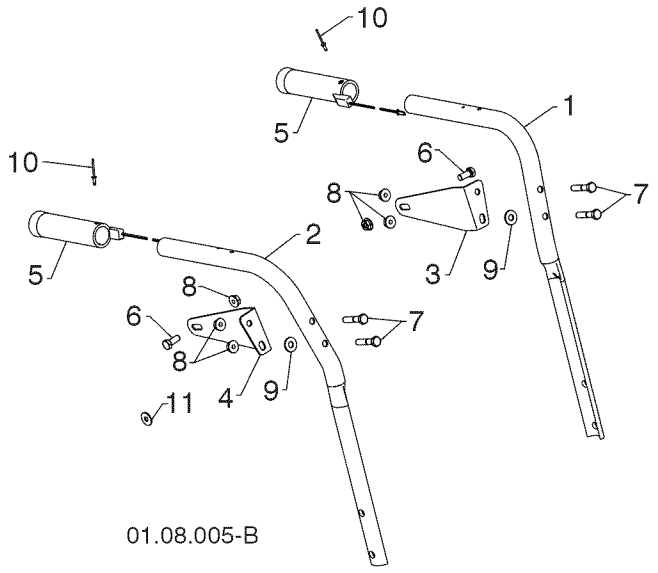


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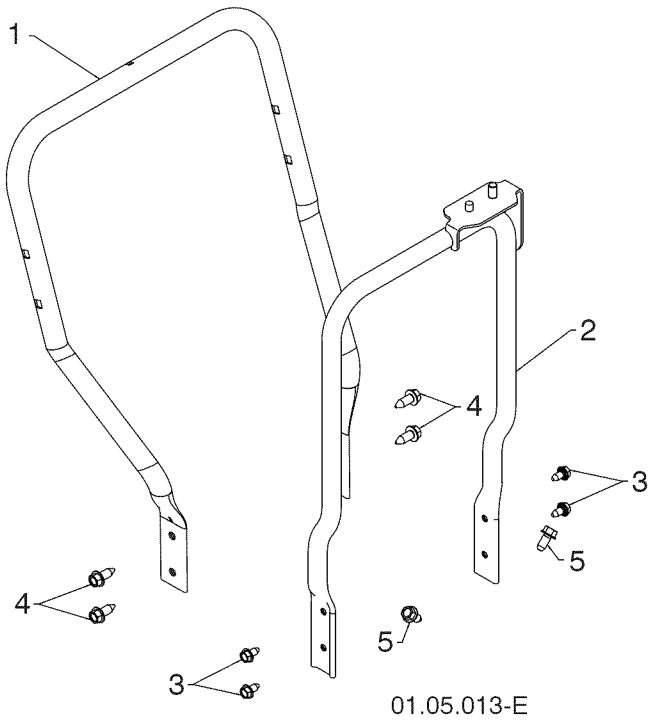
KEY NO.	PART NO.	DESCRIPTION
1	438626	STEER CABLE
2	74041024	SCREW 10-24 X 1.50

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.

HANDLES



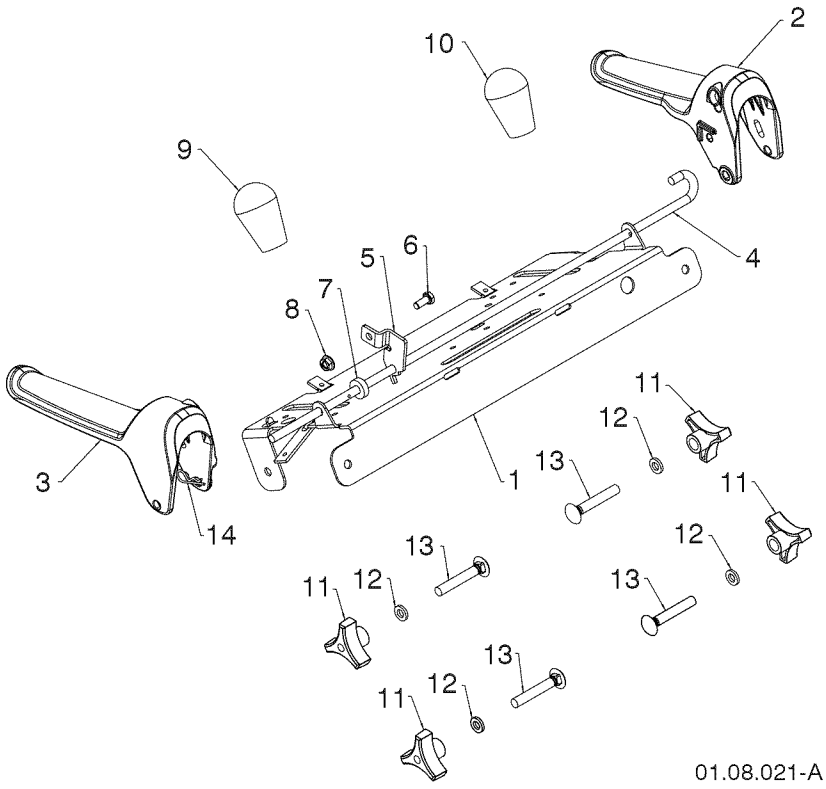
KEY NO.	PART NO.	DESCRIPTION
1	419800X479	PLOW HANDLE LH
2	419801X479	PLOW HANDLE RH
3	196944X007	PANEL BRACKET LH
4	196943X007	PANEL BRACKET RH
5	414515	HEATED HANDLE GRIP
6	74780512	CREW 5/16-18 X .750
7	74780524	SCREW 5/16-18 X 1.50
8	751153	NUT 5/16-18
9	155415	WASHER
10	178775	POP RIVET 1/8
11	53847	WASHER



KEY NO.	PART NO.	DESCRIPTION
1	585238102	LOWER HANDLE
2	427513X479	PIVOT SUPPORT WELDMENT
3	17000510	SCREW 5/16-18 X .750
4	17000616	SCREW 3/8-16 X 1.00
5	17000612	SCREW 3/8-16 X .750

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.

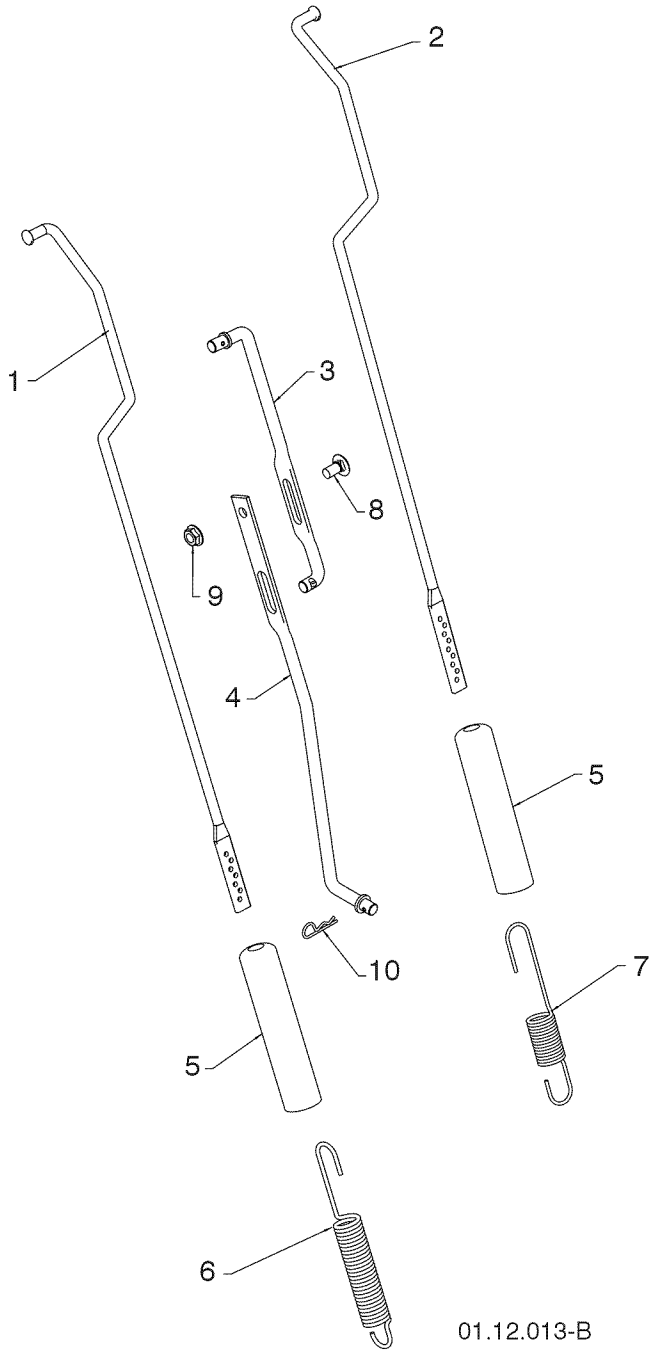
HANDLES



KEY NO.	PART NO.	DESCRIPTION
1	585198802	CONTROL PANEL
2	581779801	LH CONTROL LEVER
3	581779701	RH CONTROL LEVER
4	584809001	INTERLOCK CONTROL ROD
5	585004703	INTERLOCK BRACKET
6	74780410	1/4-20 X .625 HEX HEAD SCREW
7	421613	SPACER
8	88349	1/4-20 FLANGE NUT (TOP LOCK)
9	414281	KNOB RED
10	414280	KNOB BLACK
11	178899	HANDLE KNOB
12	19131316	3/8 WASHER
13	72120618	CARRIAGE BOLT 3/8-16 X 2.25
14	169675	RETAINER

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.

HANDLES

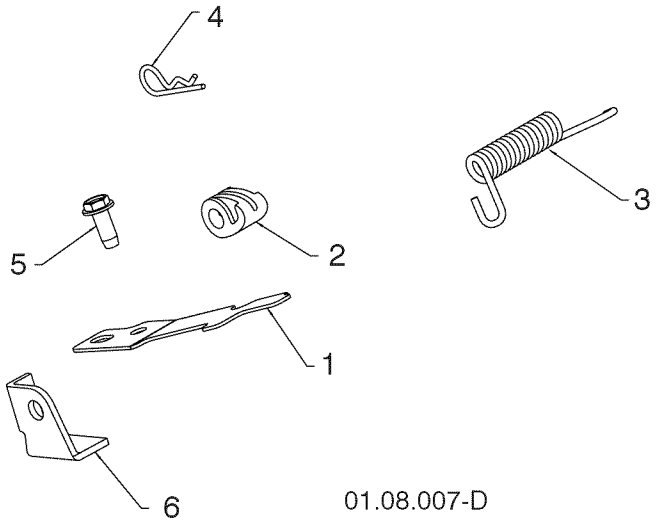


KEY NO.	PART NO.	DESCRIPTION
1	584808701	ROD IMPELLER CONTROL
2	584808801	ROD TRACTION CONTROL
3	180445	SHIFTER ROD TOP
4	187716	SHIFTER ROD BOTTOM
5	180447	SPRING SLEEVE
6	580796201	SPRING CONTROL ROD
7	580802101	SPRING TRACTION ROD
8	72270505	CARRIAGE BOLT 5/16-18 X .75
9	155377	NUT 5/16-18
10	169675	RETAINER HAIRPIN

NOTE: HOOK TRACTION ROD SPRING IN HOLE 7
HOOK IMPELLER ROD SPRING IN HOLE 4

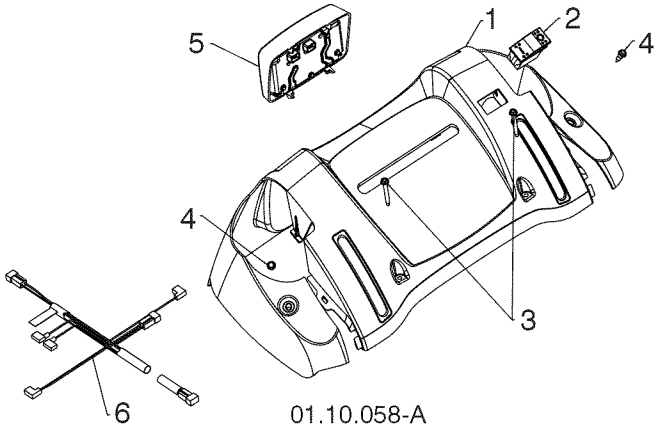
NOTE: All component dimensions given in U.S. inches. 1 inch = 25.4 mm
IMPORTANT: Use only Original Equipment Manufacturer (O.E.M.) replacement parts. Failure to do so could be hazardous, damage your snow thrower and void your warranty.

HANDLES



01.08.007-D

KEY NO.	PART NO.	DESCRIPTION
1	412675X004	INTERLOCK SPRING
2	445291	INTERLOCK CAM
3	443215	TORSION SPRING
4	169675	RETAINER
5	17060410	SCREW 1/4-20 X .625
6	421252X004	INTERLOCK STOP

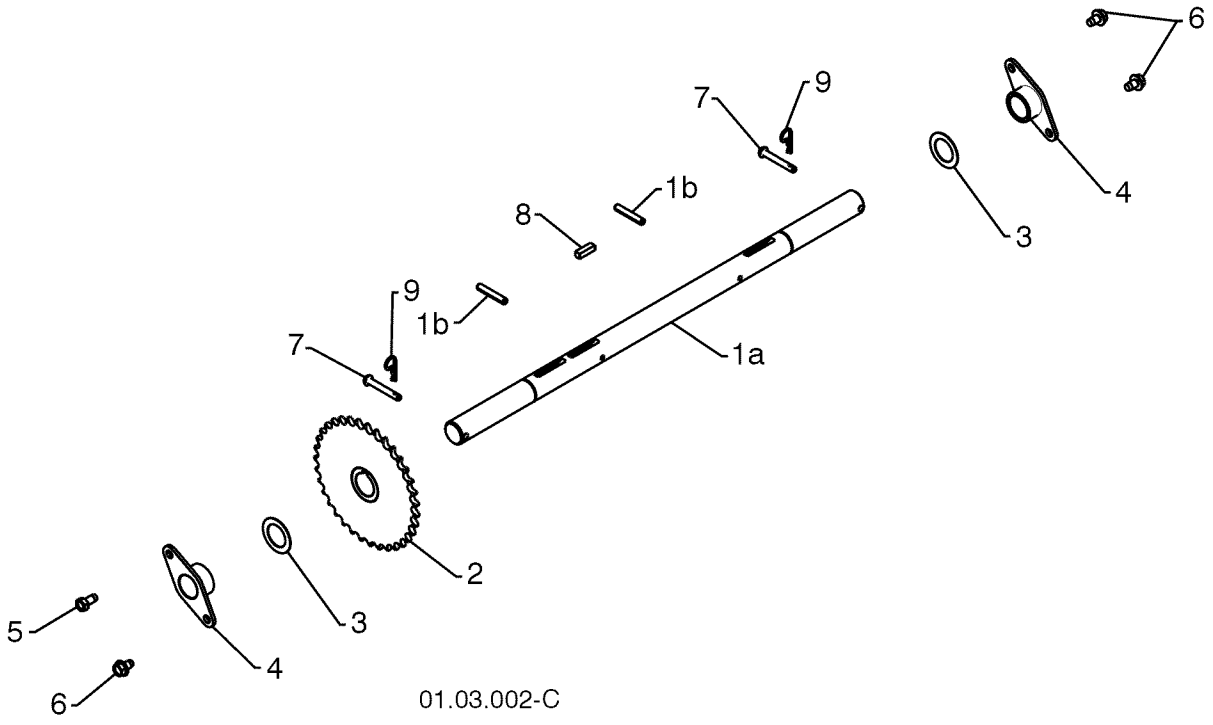


01.10.058-A

KEY NO.	PART NO.	DESCRIPTION
1	413927	CONSOLE PANEL
2	417760	SWITCH GRIP
3	175262	SCREW HEX WASHER HD 10-24 X 1.25
4	184471	SCREW SHOULDER 10-24 X .62
5	581684202	HEADLIGHT LED DUAL STAGE BLK
6	580625601	WIRE HARNESS FLOOD/LED HEATED

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.

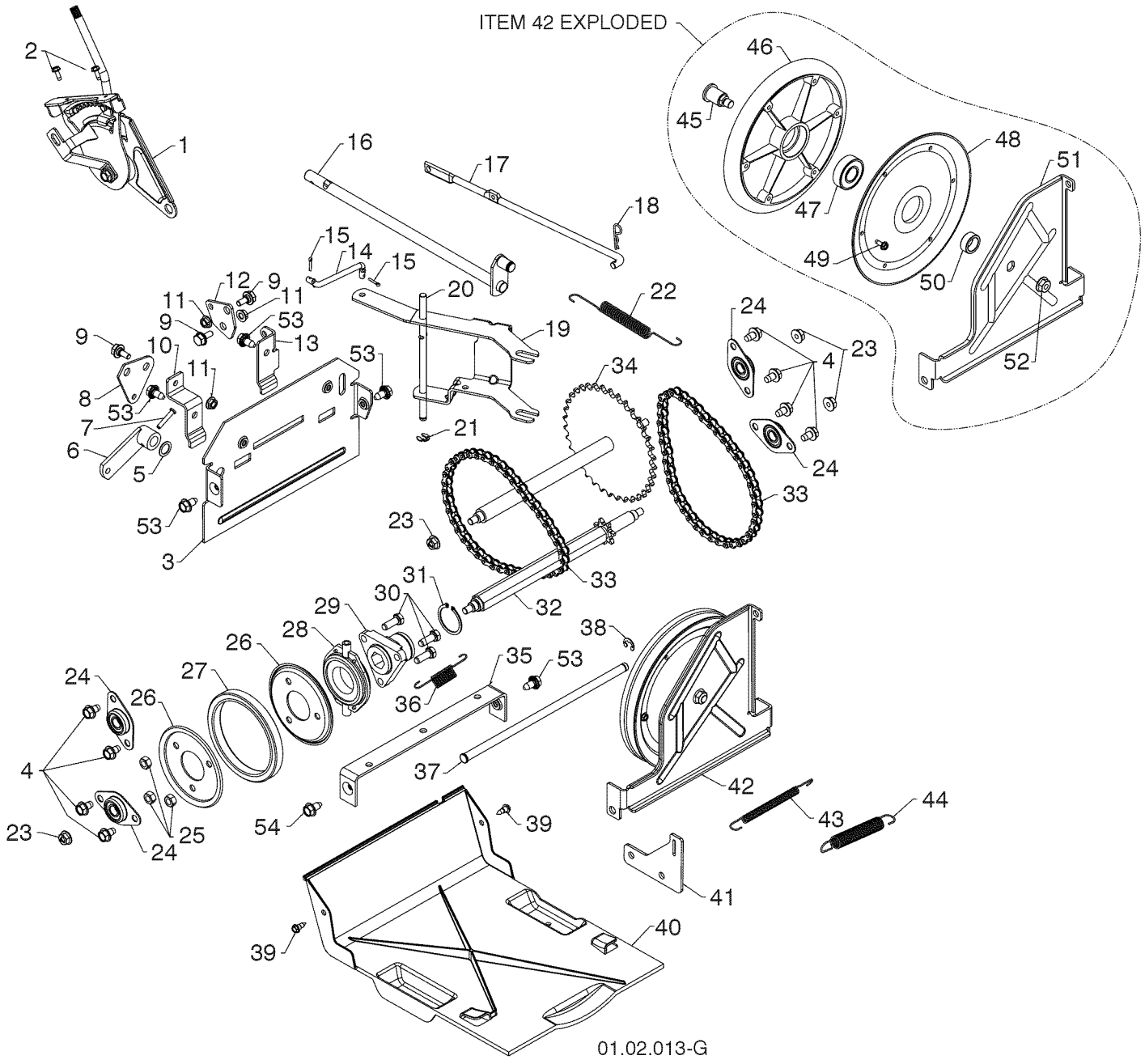
DRIVE



KEY NO.	PART NO.	DESCRIPTION
1	404923	AXLE ASSEMBLY (assy of 1a,1b)
1a	404307	AXLE SHAFT
1b	9465M1	ROLL PIN 3/16 X 1.50
2	402691	SPROCKET
3	444949	THRUST WASHER
4	179830	BEARING
5	146315	SCREW 5/16-18 X .625
6	17490508	SCREW 5/16-18 X .500
7	126875X	CLEVIS PIN 1/4 X 1-3/4
8	189282	SQUARE KEY
9	4497H	RETAINER

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.

DRIVE



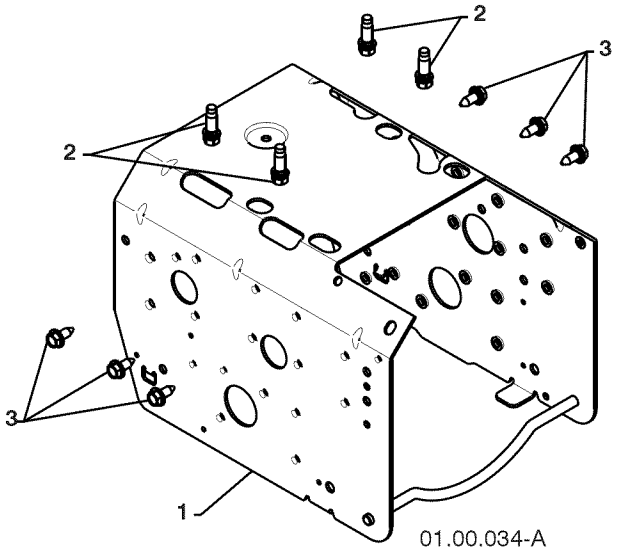
NOTE: All component dimensions given in U.S. inches. 1 inch = 25.4 mm
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DRIVE

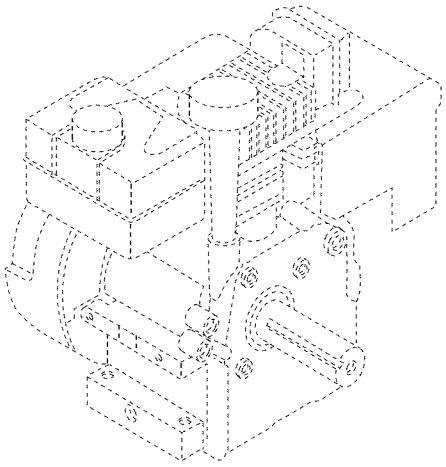
KEY NO.	PART NO.	DESCRIPTION
1	198875	SPEED SELECTOR ASSEMBLY
2	17541008	SCREW 10-24 X .625
3	402685X428	END PLATE
4	17490508	SCREW 5/16-18 X .50
5	57079	WASHER
6	405485	CONTROL ARM
7	198580	CLEVIS PIN
8	403097X004	SHIFTER PLATE
9	402881	SHOULDER BOLT
10	403096X004	SHIFTER BRACKET
11	191730	NUT 1/4-20
12	402856X004	CLUTCH PLATE
13	416717X004	CLUTCH BRACKET
14	187101	SHIFTER LINK
15	700279	RETAINER
16	427542	CONTROL SHAFT
17	402568	CLUTCH ROD
18	169675	RETAINER
19	446922X479	SHIFTER YOKE
20	402310	PIVOT ROD
21	12000036	RETAINER
22	402878	RETURN SPRING
23	751153	NUT 5/16-18
24	408981	BEARING
25	73930500	NUT 5/16-18
26	198176X479	RUBBER WHEEL PLATE
27	585021001	RUBBER RING
28	175344	BEARING
29	178613	WHEEL HUB
30	74760514	SCREW 5/16-18-.875
31	12000012	RETAINER RING
32	402187	SPROCKET SHAFT
33	401619	CHAIN
34	437303	SPROCKET WELDMENT
35	401984X479	SHIFTER BRACKET
36	180135	SPRING
37	402652	PLATE PIVOT ROD
38	428288	E-RING .375
39	184471	SHOULDER SCREW
40	410877	BOTTOM PAN
41	413429X479	SPRING BRACKET
42	402689	DRIVE PLATE ASSEMBLY
43	414557	IDLER SPRING
44	178828	IDLER SPRING
45	402504	PULLEY SHAFT
46	401820	DRIVE PLATE
47	198791	BEARING
48	402393	PULLEY HALF
49	17541008	SCREW 10-24 X .50
50	402511	SPACER BEARING
51	418894X479	SWING PLATE
52	132010	NUT 3/8-16
53	428867	SCREW 5/16-18 X .750
54	17000510	BOLT 5/16-18 X .625

NOTE: All component dimensions given in U.S. inches. 1 inch = 25.4 mm
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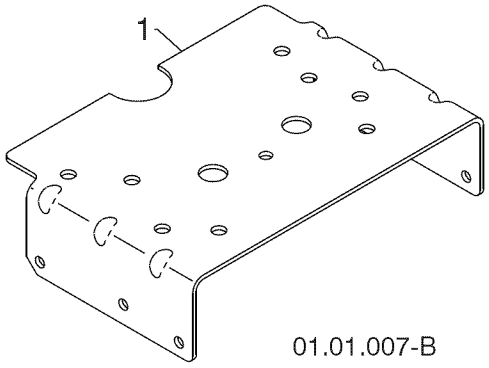
CHASSIS / ENGINE / PULLEYS



01.00.034-A

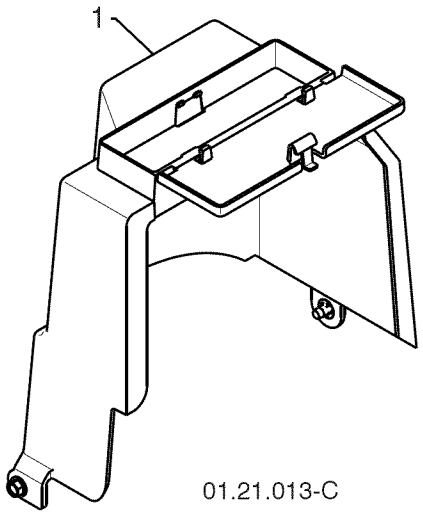


KEY NO.	PART NO.	DESCRIPTION
- -	- - - - -	B&S ENGINE MODEL 21M314-2470-F2
1	418694X428	FRAME
2	150406	BOLT 3/8-16
3	428867	SCREW 5/16-18 X .750



01.01.007-B

KEY NO.	PART NO.	DESCRIPTION
1	436146X428	ENGINE MOUNT PLATE

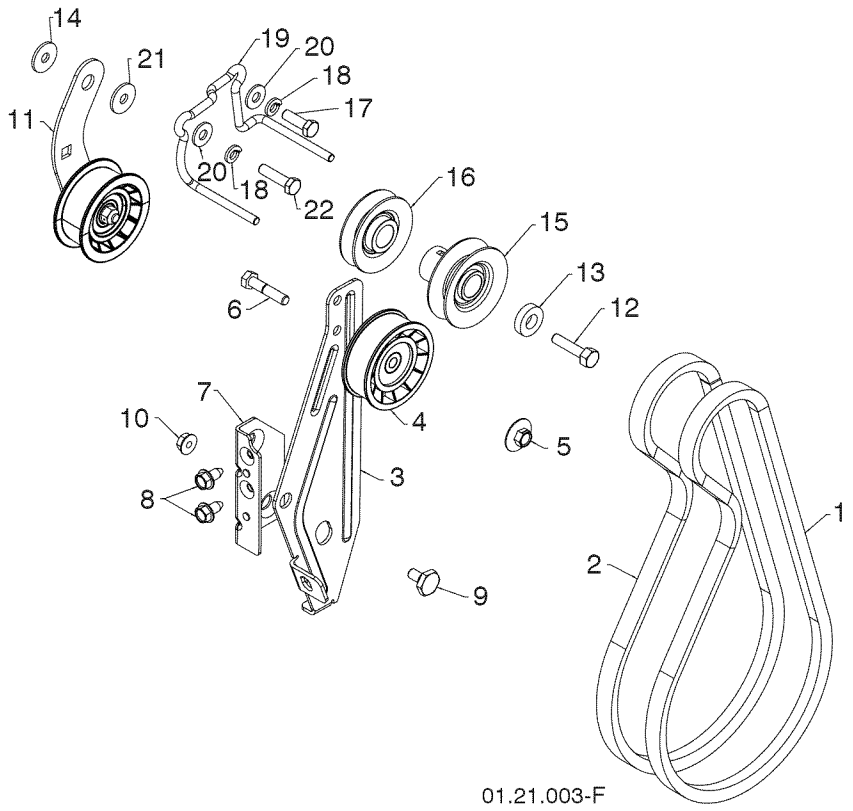


01.21.013-C

KEY NO.	PART NO.	DESCRIPTION
1	443030	COVER ASSEMBLY

NOTE: All component dimensions given in U.S. inches. 1 inch = 25.4 mm
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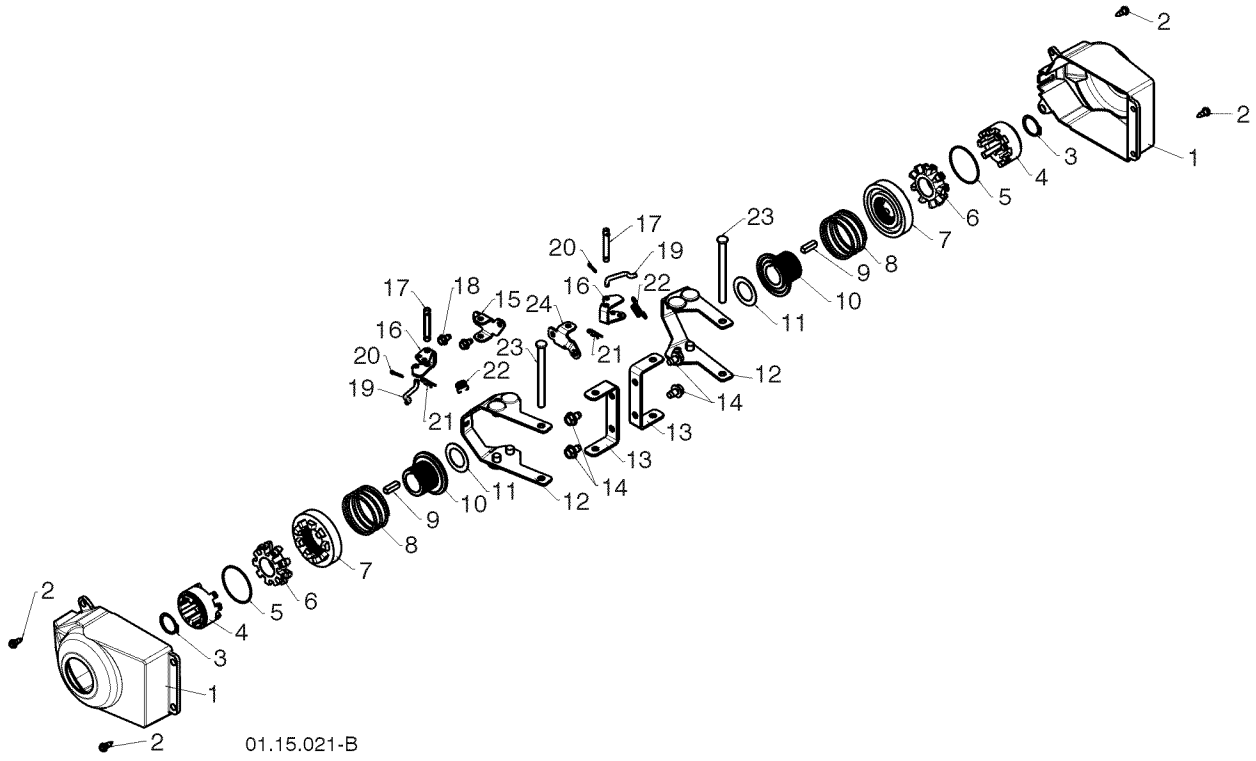
CHASSIS / ENGINE / PULLEYS



KEY NO.	PART NO.	DESCRIPTION
1	408007	IMPELLER BELT
2	419744	TRACTION BELT
3	584232402	IDLER ARM BRACKET
4	180523	IDLER PULLEY
5	426589	NUT 5/16-18
6	74780524	CAPSCREW 5/16-18 X 1.50
7	423990X007	IDLER BRACKET
8	17000510	SCREW 5/16-18 HEX
9	424297	SHOULDER BOLT 5/16-18 X .500
10	751153	NUT 5/16-18 TOP LOCK
11	585238401	TRACTION IDLER ARM ASM
12	851084	CAPSCREW 3/8-24 X 1.375
13	400026	WASHER
14	59289	WASHER
15	426491	PULLEY ENG IMPELLER
16	426490	PULLEY ENG TRACTION
17	74610516	SCREW 5/16-18 X 1.00
18	10040500	LOCKWASER 5/16
19	585058201	BELT GUIDE
20	155415	WASHER
21	175331	IDLER BUSHING
22	74610520	CAPSCREW HEX HEAD 5/16 X 1.25 GR5

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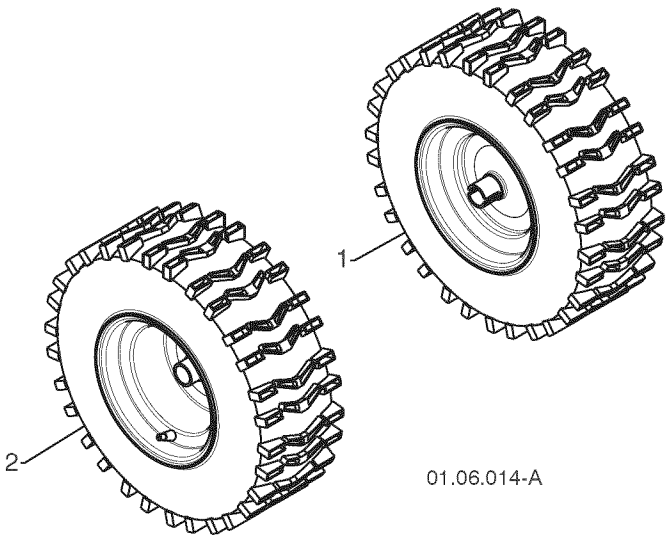
WHEELS



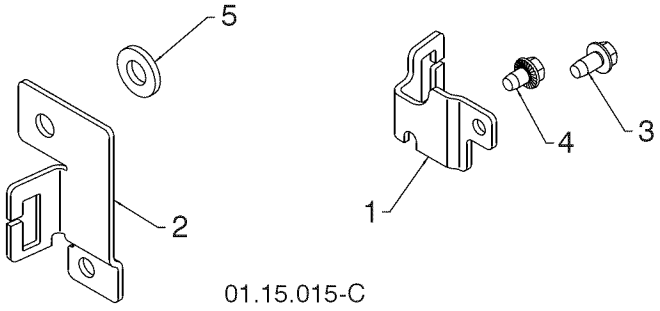
KEY NO.	PART NO.	DESCRIPTION
1	405161	COVER
2	184471	SHOULDER SCREW
3	12000045	RETAINER SPRING
4	581645001	WHEEL DRIVER
5	182466	RETAINING RING
6	187622	WHEEL LOBE
7	581644901	CLUTCH SLIDE
8	179139	SPRING
9	189282	SQUARE KEY
10	581645101	AXLE LOBE
11	444949	THRUST WASHER
12	445179X479	STEERING YOKE
13	179148X479	STEERING BRACKET
14	17490508	SCREW 5/16-18 X .50
15	194943X008	PIVOT BRACKET
16	194944X008	BELLCRANK
17	181847	BELLCRANK PIN
18	17600406	SCREW 1/4-20 X .375
19	405077	STEERING LINK
20	700279	RETAINER
21	85179	RETAINER
22	193885	SPRING
23	182015	LEVER PIN
24	194939X008	PIVOT BRACKET

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



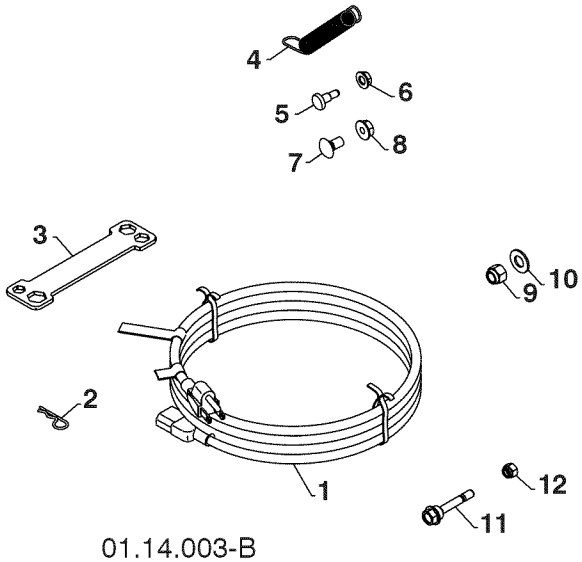
KEY NO.	PART NO.	DESCRIPTION
1	432340X428	WHEEL ASSEMBLY LH
2	432341X428	WHEEL ASSEMBLY RH



KEY NO.	PART NO.	DESCRIPTION
1	438446	CABLE BRACKET LH
2	438447	CABLE BRACKET RH
3	17490408	SCREW 1/4 -20 X .500
4	17600406	SCREW 1/4 -20 X .375
5	19131312	WASHER 13/32 X 13/16 X 12 GA

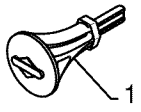
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BAG OF PARTS



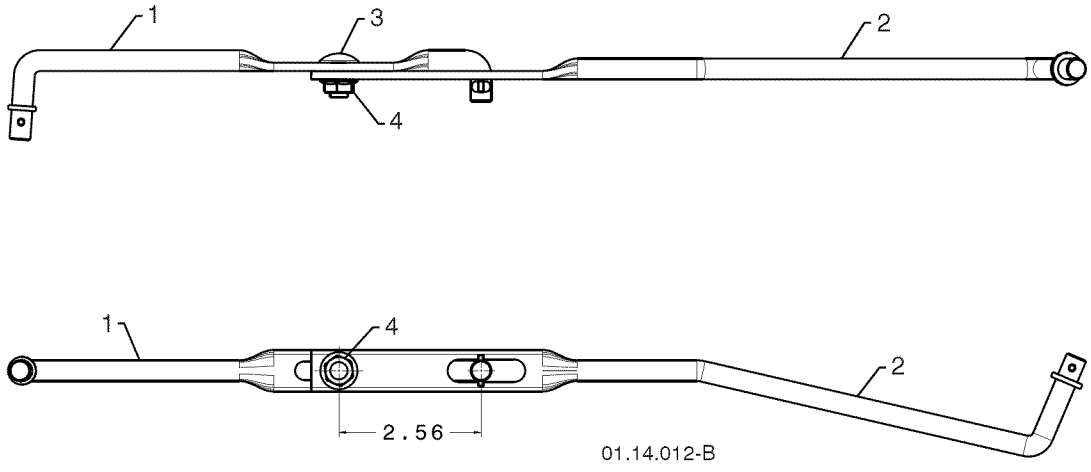
01.14.003-B

KEY NO.	PART NO.	DESCRIPTION
1	198563	POWER CORD
2	169675	RETAINER PIN
3	180684X008	WRENCH
4	184505	REMOTE SPRING
5	179829	SHOULDER BOLT 1/4-20
6	191730	LOCKNUT 1/4-20
7	72250505	CARRIAGE BOLT 5/16-18 X 5/8
8	751153	LOCKNUT 5/16-18
9	73800600	LOCKNUT 3/8-16
10	19131316	WASHER 3/8
11	192090	SHEAR BOLT 1/4-20 X 1-13/16
12	73800400	LOCKNUT 1/4-20



01.14.007-A

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

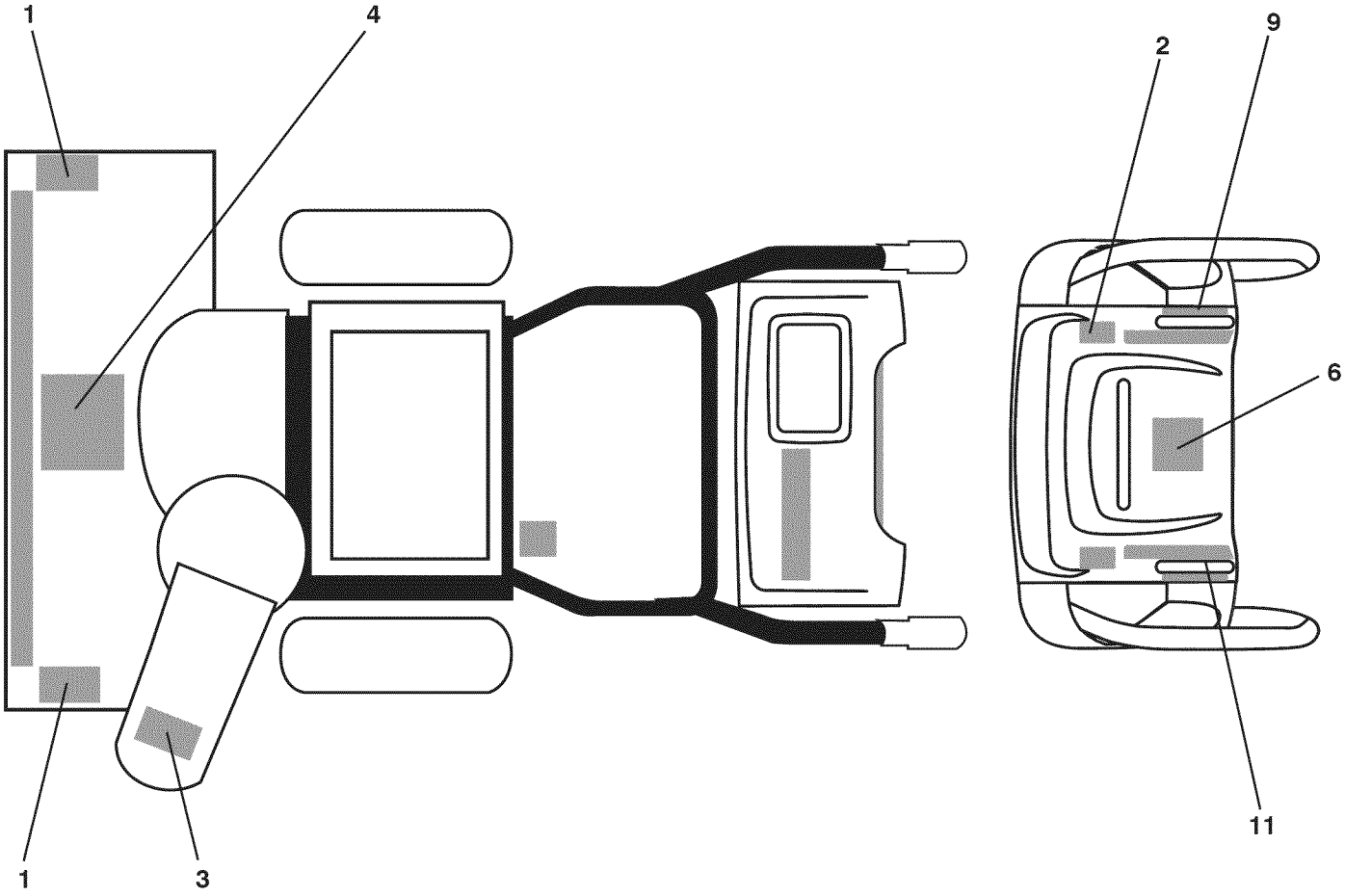


01.14.012-B

KEY NO.	PART NO.	DESCRIPTION
1	180445	SHIFTER ROD TOP
2	187716	SHIFTER ROD BOTTOM
3	72270505	CARRIAGE BOLT 5/16-18 X .75
4	155377	NUT 5/16-18

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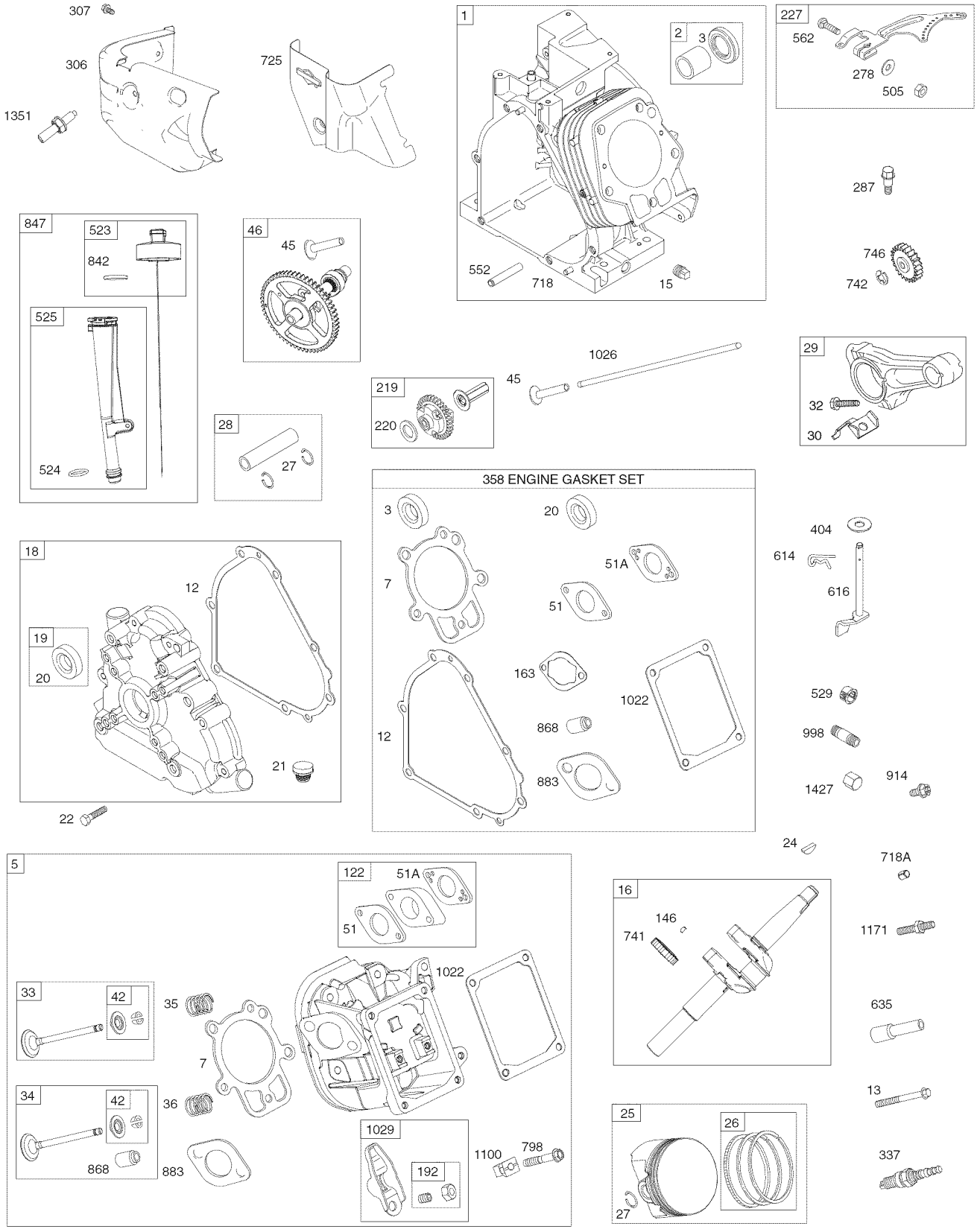
DECALS

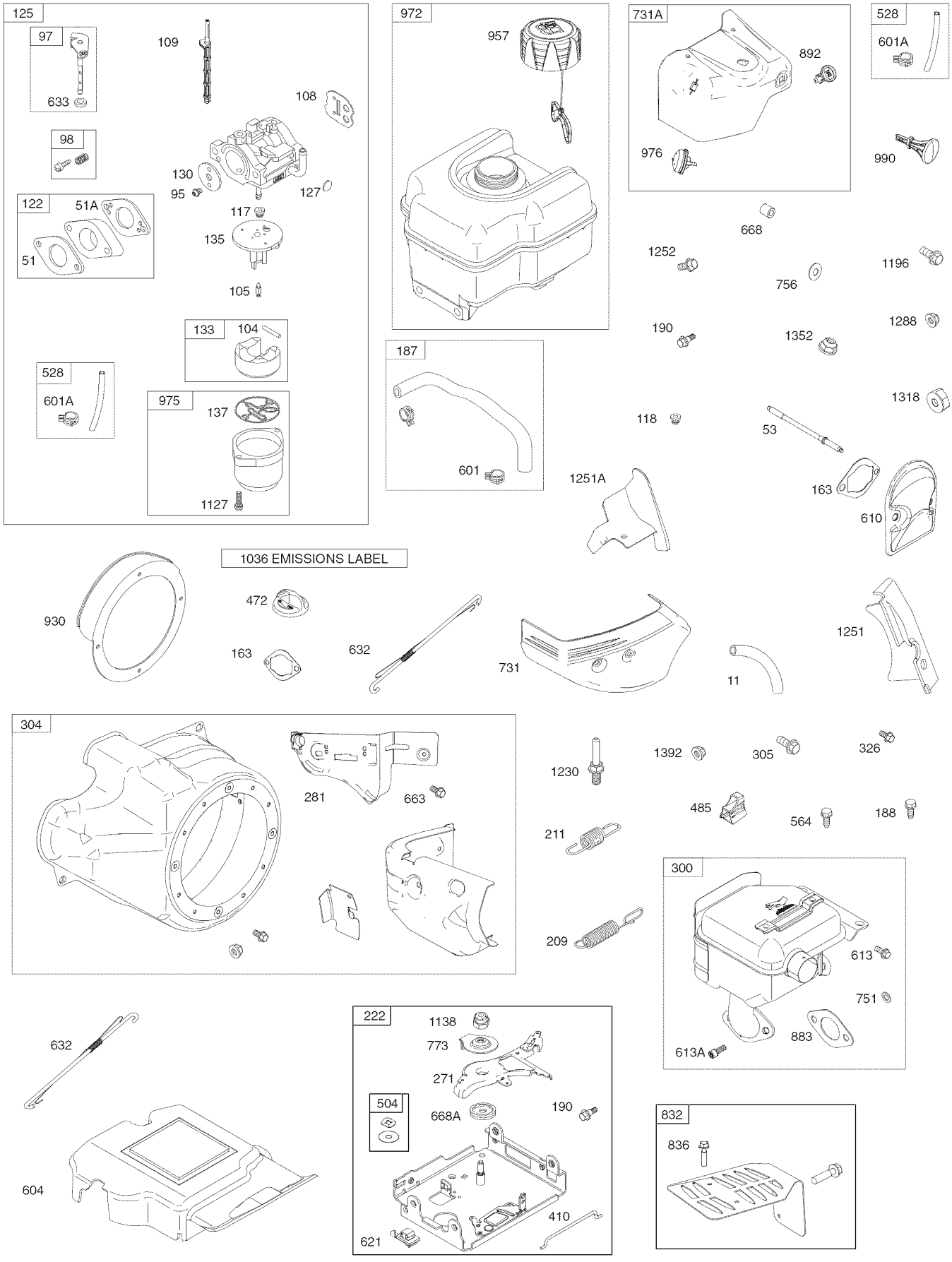


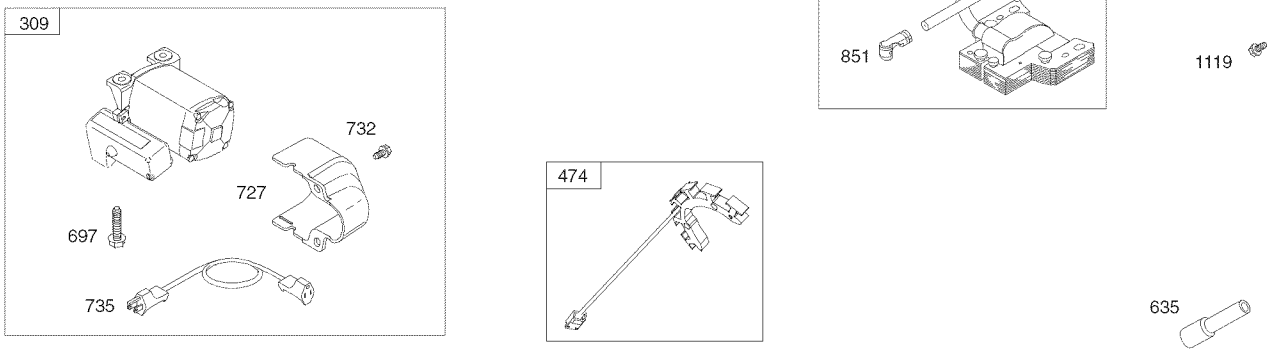
KEY NO.	PART NO.	DESCRIPTION
1	181037	DECAL, DANGER
2	444776	DECAL
3	181035	DECAL, DANGER, DEFLECTOR
4	181042	DECAL, DANGER
6	181033	DECAL, INSTRUCTION
9	581430101	DECAL, CONS RT SPD/LEV/PS
11	581430102	DECAL, CONS LT WD/DEF
- -	585576627	OWNER'S MANUAL, ENGLISH
- -	585576631	OWNER'S MANUAL, FRENCH

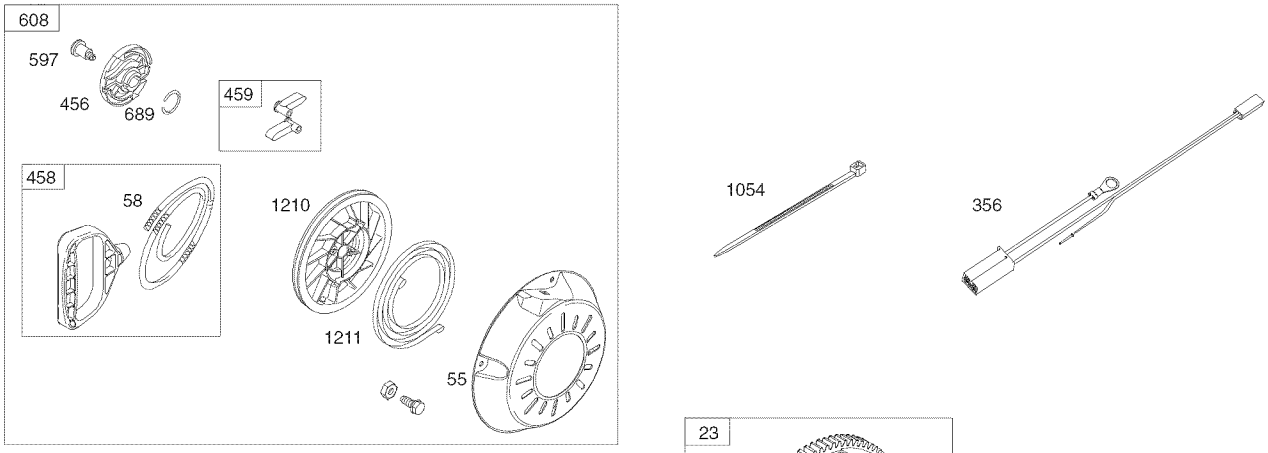
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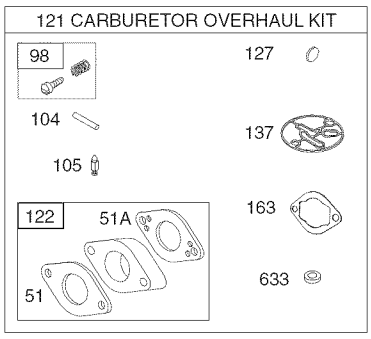
48 SHORT BLOCK | 1058 OPERATOR'S MANUAL | 1329 REPLACEMENT ENGINE | 1330 REPAIR MANUAL

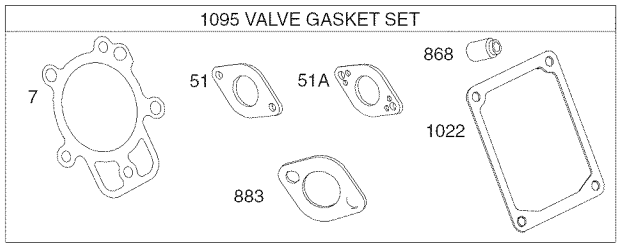



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121 CARBURETOR OVERHAUL KIT
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1095 VALVE GASKET SET
7
51
51A
868
1022
883

ENGINE, B&S MODEL NUMBER 21M314-2470-F2

KEY NO.	PART NO.	DESCRIPTION
1	794850	CYLINDER ASSEMBLY
2	698340	KIT-BUSHING/SEAL (MAGNETO SIDE)
3	391086S	SEAL-OIL (MAGNETO SIDE)
5	799860	HEAD-CYLINDER
7	697690	GASKET-CYLINDER HEAD
11	696750	TUBE-BREATHER
12	694953	GASKET-CRANKCASE
13	794829	SCREW (CYLINDER HEAD)
15	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	799857	CAP-OIL FILL
22	794825	SCREW (CRANKCASE COVER/ SUMP)
23	794812	FLYWHEEL
24	222698S	KEY-FLYWHEEL
25	793318	PISTON ASSEMBLY (STANDARD)
	793325	PISTON ASSEMBLY (.020" OVER SIZE)
26	793319	RING SET (STANDARD)
	793324	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	795199	VALVE-INTAKE
35	694865	SPRING-VALVE (INTAKE)
36	694865	SPRING-VALVE (EXHAUST)
42	499586	KEEPER-VALVE
45	690977	TAPPET-VALVE
46	795697	CAMSHAFT
48	794915	SHORT BLOCK
51	694874	GASKET-INTAKE
51A	694875	GASKET-INTAKE
53	795017	STUD (CARBURETOR)
55	696710	HOUSING-REWIND STARTER
58	693389	ROPE-STARTER
65	699851	SCREW (REWIND STARTER)
95	690718	SCREW (THROTTLE VALVE)
97	696387	SHAFT-THROTTLE
98	695408	KIT-IDLE SPEED
104	694918	PIN-FLOAT HINGE
105	696136	VALVE-FLOAT NEEDLE
108	696143	VALVE-CHOKE
109	793520	SHAFT-CHOKE
117	796080	JET-MAIN (STANDARD)
118	796128	JET-MAIN (HIGH ALTITUDE)
121	796137	KIT-CARBURETOR OVERHAUL
122	694876	SPACER-CARBURETOR
125	796122	CARBURETOR
127	690727	PLUG-WELCH
130	696139	VALVE-THROTTLE
133	694914	FLOAT-CARBURETOR
135	698780	TUBE-FUEL TRANSFER
137	698781	GASKET-FLOAT BOWL
146	690979	KEY-TIMING
163	692277	GASKET-AIR CLEANER
187	791879	LINE-FUEL (FORMED)
188	699479	SCREW (CONTROL BRACKET)
190	699220	SCREW (FUEL TANK)
192	690083	ADJUSTER-ROCKER ARM
209	694867	SPRING-GOVERNOR (RED)
211	695307	SPRING-GOVERNED IDLE
219	693578	GEAR-GOVERNOR
220	691724	WASHER (GOVERNOR GEAR)
222	794800	BRACKET-CONTROL
227	694864	LEVER-GOVERNOR CONTROL
271	797554	LEVER-CONTROL
278	792008	WASHER (GOVERNOR CONTROL LEVER)
281	697268	PANEL-CONTROL
287	699234	SCREW (DIPSTICK TUBE)
300	794948	MUFFLER
304	795699	HOUSING-BLOWER
305	699481	SCREW (BLOWER HOUSING)
306	697240	SHIELD-CYLINDER
307	794822	SCREW (CYLINDER SHIELD)
309	795909	MOTOR-STARTER
326	699851	SCREW (REWIND GUARD)
332	794824	NUT (FLYWHEEL)
333	492341	ARMATURE-MAGNETO
334	699477	SCREW (MAGNETO ARMATURE)
337	793541	PLUG-SPARK
356	793206	WIRE-STOP
358	795201	GASKET SET-ENGINE
404	795759	WASHER (GOVERNOR CRANK)
410	695382	LINK-CONTROL
455	795011	CUP-FLYWHEEL
456	692299	PLATE-PAWL FRICTION
458	699334	KIT-HANDLE/ROPE
459	281505S	PAWL-RATCHET
472	791948	KNOB-CHOKE SHAFT
474	797090	ALTERNATOR
485	695755	KNOB-CONTROL
504	695383	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 (CUT TO REQUIRED LENGTH)
529	791822	GROMMET
552	694674	BUSHING-GOVERNOR CRANK
562	793216	BOLT (GOVERNOR CONTROL LEVER)

KEY NO.	PART NO.	DESCRIPTION
564	699854	SCREW (CONTROL COVER)
597	691696	SCREW (PAWL FRICTION PLATE)
601	791850	CLAMP-HOSE (GREEN)
601A	691638	CLAMP-HOSE (PRIMER HOSE)
604	696758	COVER-CONTROL
608	699335	STARTER-REWIND
610	794541	ARRESTER-INTAKE
613	794846	SCREW (MUFFLER) (M6X.71MM)
613A	794844	SCREW (MUFFLER) (M8X.85MM)
614	691620	PIN-COTTER (GOVERNOR CRANK)
616	795758	CRANK-GOVERNOR
621	692310	SWITCH-STOP
632	796324	SPRING/LINK-MECHANICAL GOVERNOR
633	690998	SEAL-CHOKE/THROTTLE SHAFT (THROTTLE SHAFT)
635	691909	BOOT-SPARK PLUG
663	699854	SCREW (CONTROL PANEL)
668	794539	SPACER (SNOW HOOD)
668A	694257	SPACER (CONTROL BRACKET)
689	691855	SPRING-FRICTION
697	795012	SCREW (STARTER MOTOR)
718	690959	PIN-LOCATING (CYLINDER)
718A	695178	PIN-LOCATING (CYLINDER HEAD)
725	696756	SHIELD-HEAT
727	697465	COVER-STARTER DRIVE
731	794540	HOOD-SNOW
731A	793621	HOOD-SNOW
732	699200	SCREW (STARTER DRIVE COVER)
735	795901	CORD-STARTER
741	691288	GEAR-TIMING
742	692564	RETAINER-E RING
746	694679	GEAR-IDLER
751	794839	WASHER (STOP WIRE)
756	794839	WASHER (SNOW HOOD)
773	694258	RETAINER (CONTROL BRACKET)
798	697890	SCREW (ROCKER COVER)
832	797095	GUARD-MUFFLER
836	699234	SCREW (MUFFLER GUARD)
842	691031	SEAL-O RING (DIPSTICK)
847	695342	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	799719	CAP-FUEL
972	799863	TANK-FUEL
975	698783	BOWL-FLOAT
976	793382	PRIMER-CARBURETOR
990	794696	KEY SET
998	792928	PIPE-OIL
1005	794815	FAN-FLYWHEEL
1022	690971	GASKET-ROCKER COVER
1023	698042	COVER-ROCKER
1026	799862	ROD-PUSH
1029	690972	ARM-ROCKER
1036		LABEL-EMISSIONS (AVAILABLE FROM A BRIGGS & STRATTON AUTHORIZED DEALER)
1054	280275	TIE-CABLE
1058	277104	OPERATOR'S MANUAL
1070	794821	SCREW (FLYWHEEL FAN)
1095	795200	GASKET SET-VALVE
1100	791959	PIVOT-ROCKER ARM
1119	699772	SCREW (ALTERNATOR)
1127	695407	SCREW (FLOAT BOWL)
1138	694255	NUT (CONTROL BRACKET) (HIGH SPEED CONTROL)
1171	794828	STUD (ROCKER ARM COVER)
1196	798785	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	699481	SCREW (SNOW SHIELD)
1288	794838	NUT (SNOW HOOD)
1318	698111	KNOB-SNOW HOOD
1329	21M314-3017-F1	REPLACEMENT ENGINE
1330	272147	REPAIR MANUAL
1351	794847	STUD (CYLINDER SHIELD)
1352	795016	NUT (SPARK PLUG SHIELD)
1392	690800	NUT (REWIND GUARD)
1427	695757	CAP-PIPE

ENGINE GASKET SET	KEY NO. 358
CARBURETOR OVERHAUL KIT	KEY NO. 121
VALVE GASKET SET	KEY NO. 1095

Engine Power Rating Information

The gross power rating for individual gas engine models is labeled in accordance with SAE (Society of Automotive Engineers) code J1940 (Small Engine Power & Torque Rating Procedure), and rating performance has been obtained and corrected in accordance with SAE J1995 (Revision 2002-05). Torque values are derived at 3060 RPM; horsepower values are derived at 3600 RPM. 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 power). 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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