SEARS

owner's manual

Model
944-526051
6.5 H.P. 24 inch

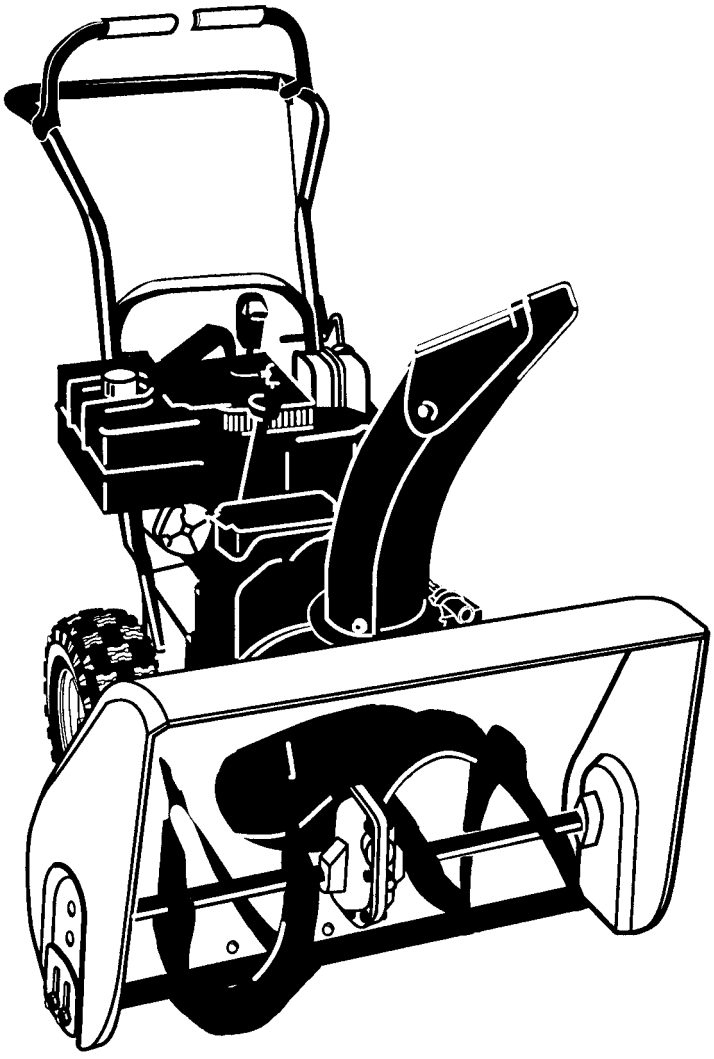
CAUTION:
You must read and understand this owner's manual before operating unit.

Serial No. _____

SEARS

CRAFTSMAN

DUAL STAGE SNOW BLOWER



408569 08/30/06 **SEARS CANADA INC., TORONTO, ONTARIO M5B 2B8** Printed in U.S.A.

RULES FOR SAFE OPERATION

This manual contains safety information to make you aware of the hazards and risks associated with snow throwers, and how to avoid them. The snow thrower is designed and intended for removal of snow, and should not be used for any other purpose. It is important that you read and understand these instructions, and anyone operating the equipment read and understand these instructions.

WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

A signal word (DANGER, WARNING, or CAUTION) is used with the alert symbol to indicate the likelihood and the potential severity of injury. In addition, a hazard symbol may be used to represent the type of hazard.

DANGER indicates a hazard which, if not avoided, **will result in death or serious injury.**

WARNING indicates a hazard which, if not avoided, **could result in death or serious injury.**

CAUTION indicates a hazard which, if not avoided, **might result in minor or moderate injury.**

CAUTION, when used **without** the alert symbol, indicates a situation that **could result in damage to the equipment.**

Hazard Symbols and the meanings

These symbols are used on your equipment and defined in your operating manual. Review and understand the meanings. The use of one of these symbols combined with a signal word will alert you to potential hazards and how to avoid them.

Safety Alert – Identifies safety information about hazards that can result in personal injury.

Operator's Manual – Read and understand before performing any activity or running equipment.

Rotating auger

Rotating impeller

Toxic fumes

Rotating gears

Thrown objects

Keep a safe distance from the equipment.

Shut off engine and remove spark plug connector before performing maintenance or repair work.

Fire

Explosion

Shock

Hot Surface

Never reach into rotating parts.

Recommended ear protection for extended use.

Operating Symbols and their meanings

These symbols are used on your equipment and defined in your operating manual. It is important that you review and understand the meanings. Failure to understand the symbols might result in harm to you.

Oil

Fuel

On Off

Primer bulb

Throttle

Choke off

Choke on

Stop

Slow

Fast

Engage

Engage

Traction

Auger Collector

Auger Clutch

Drive Clutch

Foward

Neutral

Reverse

Ignition On

Ignition Off

Ignition Key

Push to engage electric start

Electric Start

Engine Start

Engine Run

Engine Off

Engage

Disengage

Heated Grips

Discharge Chute

LEFT RIGHT

Chute Deflector

UP DOWN

RULES FOR SAFE OPERATION

WARNING: This machine is capable ofto amputating hands and feet and throwing objects. Read these safety rules and follow them closely. Failure to obey these rules could result in loss of control of unit, severe personal injury or death to you, or bystanders, or damage to property or equipment. The triangle ⚠ in text signifies important cautions or warnings which must be followed.

Safe Operation Practices for Snowthrowers

IMPORTANT: Safety standards require operator presence controls to minimize the risk of injury. Your snowthrower is equipped with such controls. Do not attempt to defeat the function of the operator presence control under any circumstances.

Training

1. Read, understand, and follow all instructions on the machine and in the manuals 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 and pets.
4. Exercise caution to avoid slipping or falling especially when operating 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 outer garments. Wear footwear that will improve footing on slippery surfaces. Avoid loose fitting clothing that can get caught in moving parts.
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. Replace fuel cap securely and wipe up spilled fuel.
   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 on a trailer with a portable container, rather than from a gasoline dispenser nozzle.
   f. Keep 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 surfaces.
7. Never attempt to make any adjustments while the engine (motor) is running (except when specifically recommended by manufacturer).
8. Let engine (motor) and snowthrower adjust to outdoor temperatures before starting to clear snow.
9. 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 snowthrower for any damage, and repair the damage before restarting and operating the snowthrower.
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, make certain the collector/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.
7. Do not run the engine indoors, except when starting the engine and for transporting the snowthrower in or out of the building. Open the outside doors; exhaust fumes are dangerous (containing CARBON MONOXIDE, an ODORLESS and DEADLY GAS).
8. Exercise extreme caution when operating on slopes. Do not attempt to clear steep slopes.
9. Never operate the snowthrower without proper guards, plates, or 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 snowthrower is transported or not in use.
14. Use only attachments and accessories approved by the manufacturer of the snowthrower (such as cabs, tire chains, etc..).
15. Never operate the snowthrower 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.
17. Never operate the snowthrower near glass enclosures, automobiles, window wells, drop-offs, and the like without proper adjustment of the snow discharge angle.
18. Never direct discharge at bystanders or allow anyone in front of the unit.
19. Never leave a running unit unattended. Always disengage the auger and traction controls, stop engine, and remove keys.
20. Do not operate the unit while under the influence of alcohol or drugs.
21. Keep in mind the operator is responsible for accidents occurring to other people or property.
22. Data indicates that operators, age 60 years and above, are involved in a large percentage of power equipment-related injuries. These operators should evaluate their ability to operate the unit safely enough to protect themselves and others from injury.
23. DO NOT wear long scarves or loose clothing that could become entangled in moving parts.
24. Snow can hide obstacles. Make sure to remove all obstacles from the area to be cleared.

Children

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the unit and the operating activity. Never assume that children will remain where you last saw them.

RULES FOR SAFE OPERATION

1. Keep children out of the area and under the watchful care of another responsible adult.
2. Be alert and turn off if children enter the area.
3. Never allow children to operate the unit.
4. Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

Clearing A Clogged Discharge Chute

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

To clear the chute:

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

Service, 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 tank inside a building where ignition sources are present such as hot water and 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 snowthrower 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.
6. If fuel is spilled, do not attempt to start the engine but move the machine away from the area of spillage and avoid creating any source of ignition until fuel vapors have dissipated.
7. Always observe safe refueling and fuel handling practices when refueling the unit after transportation or storage.
8. Always follow the engine's manual instructions for storage preparations before storing the unit for both short and long term periods,
9. Always follow the engine manual instructions for proper start-up procedures when returning the unit to service.
10. Maintain or replace safety and instruction labels as necessary.
11. Keep nuts and bolts tight and keep equipment in good condition.
12. Never tamper with safety devices. Check their proper operation regularly and make necessary repairs if they are not functioning properly.
13. Components are subject to wear, damage, and deterioration. Frequently check components and replace with manufacturer's recommended parts, when necessary.
14. Check control operation frequently. Adjust and service as required.
15. Use only factory authorized replacement parts when making repairs.
16. Always comply with factory specifications on all settings and adjustments.
17. Only authorized service locations should be utilized for major service and repair requirements.
18. Never attempt to make major repairs on this unit unless you have been properly trained. Improper service procedures can result in hazardous operation, equipment damage and voiding of manufacturer's warranty.
19. Check shear bolts (pins) and other bolts at frequent intervals for proper tightness to be sure the equipment is in safe working condition.

Emissions

1. Engine exhaust from this product contains chemicals known, in certain quantities, to cause cancer, birth defects, or reproductive harm.
2. If available, look for the relevant Emissions Durability Period and Air Index information on the engine emissions label.

Ignition System

1. This spark ignition system complies with Canadian ICES-002.

OWNER'S INFORMATION

DATE PURCHASED: _____

MODEL NO: _____

SERIAL NO: _____

STORE WHERE PURCHASED: _____

ADDRESS: _____

CITY: _____ PROVINCE: _____

TELEPHONE : _____

Record this information about your unit so that you will be able to provide it in case of loss or theft.

Horse Power	9.5 HP
Displacement	305 cc
Gasoline Capacity	3 quarts (2.8 litre)
Oil Capacity (5W30)	28 oz. (0.84 litres)
Spark Plug: (Gap .030 in.)	Champion RC12YC
Bore	3.120 in (79 mm)
Stroke	2.438 in (62 mm)
Armature Air Gap	0.010–0.014in (0.25–0.36 mm)
Tire Pressure	*

* See side of the tire for maximum inflation. Do not exceed the maximum pressure on the tire wall.

MAINTENANCE AGREEMENT

The Craftsman Warranty, plus a Maintenance Agreement, provide maximum value for Sears products. Contact your nearest Sears store for details.

CUSTOMER RESPONSIBILITIES

Read and observe the safety rules.

Follow a regular schedule in maintaining, caring for and using your snow blower.

Follow the instructions under "Customer Responsibilities" and "Storage" sections of this owner's manual.

WHEELED SNOW BLOWER

LIMITED TWO (2) YEAR WARRANTY ON CRAFTSMAN SNOW BLOWER

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

COMMERCIAL OR RENTAL USE:

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

THIS WARRANTY DOES NOT COVER:

1. Pre–delivery set–up.
2. Expendable items which become worn during normal use, such as belts, spark plugs, filter, shear pins as well as damages to the engine resulting from operating the snow blower with insufficient oil.
3. Tire replacement or repair caused by punctures from outside objects, such as nails, thorns, stumps or glass.
4. In home service.

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

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

SEARS CANADA INC., TORONTO, ONTARIO M5B 2B8

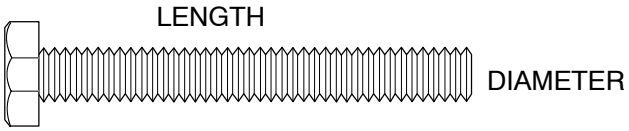
TABLE OF CONTENTS

ASSEMBLY

TOOLS REQUIRED FOR ASSEMBLY

1 – Knife
2 – 1/2” wrenches (or adjustable wrenches)
2 – 9/16” wrenches (or adjustable wrenches)
2 – 3/4” wrenches (or adjustable wrenches)
1 – Pair pliers or screw driver (to spread cotter pin)

HOW TO MEASURE SCREW SIZE



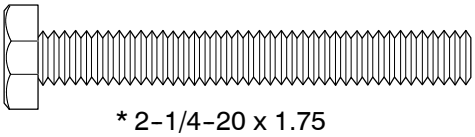
CONTENTS OF SHIPPING CARTON

1– Snow Blower
1– Container of Fuel Stabilizer (Located in Parts Bag)
1– Snow Chute Assembly
1– Crank Assembly
1– Parts Bag

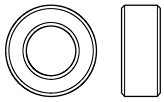
WARNING: Always wear safety glasses or eye shields while assembling snow blower.

PARTS BAGS CONTENTS:

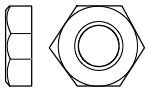
* 2 – Wrenches



* 2–1/4–20 x 1.75



* 2–Spacer



* 2–1/4–20
Hex nut

*Non Assembly parts are found in toolbox located on top of belt cover.

ASSEMBLY

Figure 1 shows the snow blower in the shipping position.

Figure 2 shows the snow blower completely assembled.

Reference to right and left hand side of the snow blower is from the operator's position at the handle.

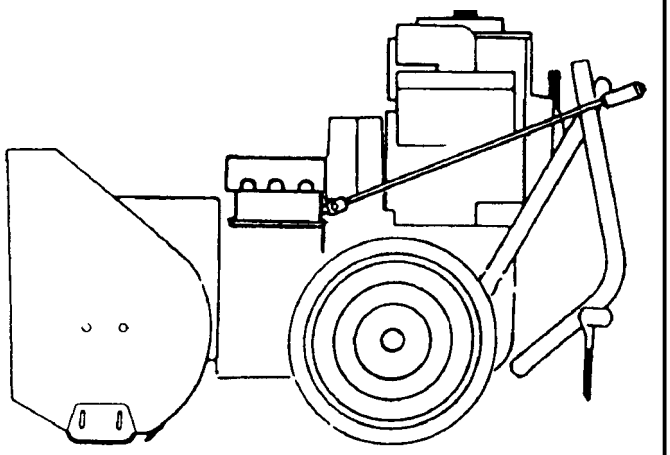


Figure 1

UNPACKING

1. Locate the two tear tabs at the bottom of the carton.

2. Pull the tear tape no more than twelve inches (30.48cm.) at a time. Re-grasp tape next to the carton and pull again. Repeat until all the tape is torn off.

3. After the tape has been completely removed from the carton, remove the carton from the base. Cut all four corners and fold the sides toward the center for easy disposal.

4. Remove the plastic bag that covers the unit.

5. Locate and remove the parts bag.

   NOTE: Set the fuel stabilizer aside until adding gasoline to the fuel tank. We recommend that fuel stabilizer is added to the fuel each time that gasoline is added to the fuel tank.

6. For shipping purposes, the **height adjust skids** are attached to the pallet. Remove the **screw** that secures each **height adjust skid** to the pallet. (See Figure 2).

7. Roll the snow blower off the carton by pulling on the lower handle.

   CAUTION: DO NOT back over cables.

8. Remove the packing material from the handle assembly.

9. Cut ties securing the clutch control cables to the lower handle.

NOTE: If the cables have become disconnected from the clutch levers, reinstall the cables as shown in Figure 3.

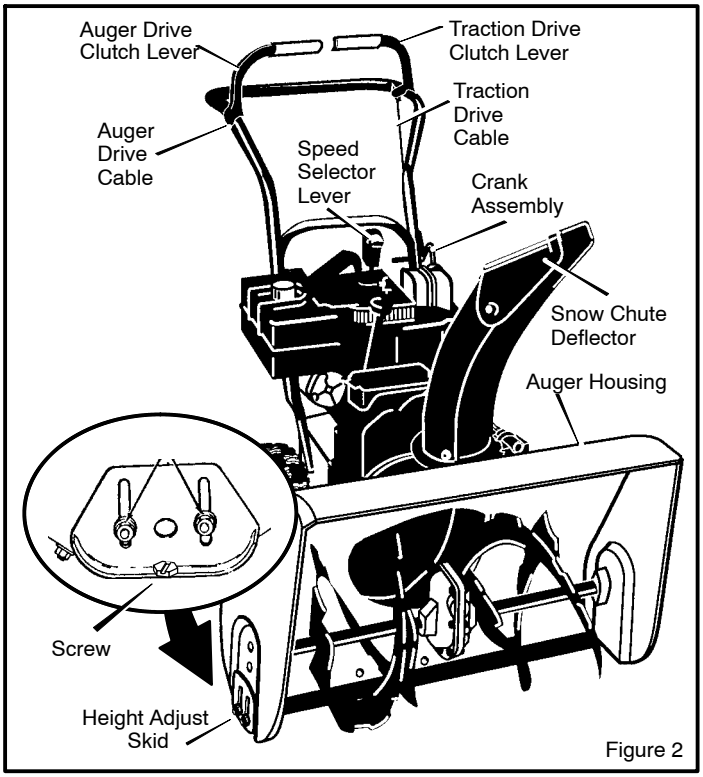


Figure 2

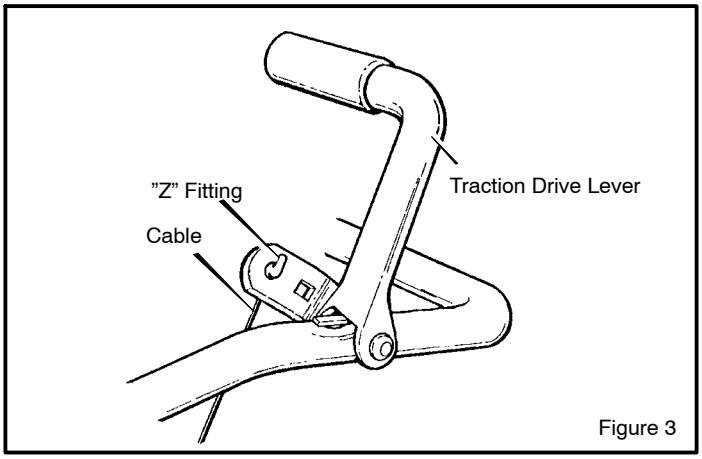


Figure 3

ASSEMBLY

UPPER HANDLE AND CRANK ASSEMBLY

1. Loosen, but do not remove the screws, flatwashers, lockwashers and hex nuts in the upper holes of the lower handle.

2. Remove the fasteners and the crank assembly eyebolt from the lower holes of the lower handle.

3. Raise upper handle into operating position. Upper handle should be to the outside of the lower handle.

   NOTE: Make sure the cables are not caught between the upper and lower handle.

4. Install the fasteners and the crank assembly eyebolt that were removed in step 2. DO NOT tighten until all fasteners are in place.

5. Attach the crank rod to the universal joint assembly with the hair pin (see Figure 5).

6. Tighten nut on eye bolt. Make sure eye bolt is properly aligned and the crank can freely rotate.

7. Tighten all handle bolts.

NOTE: Make sure crank does not touch carburetor cover.

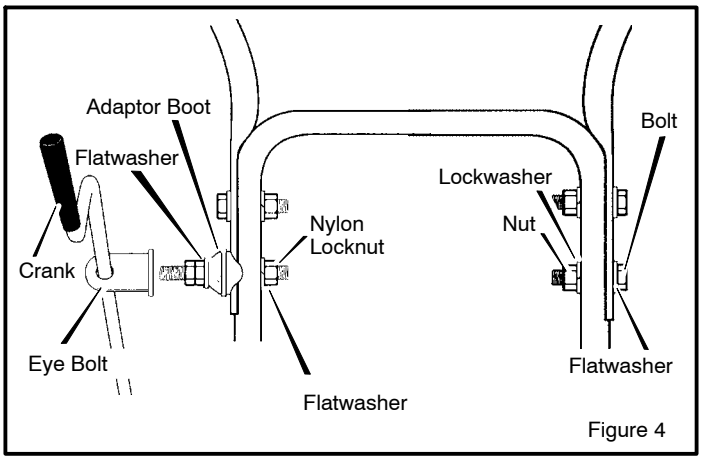


Figure 4

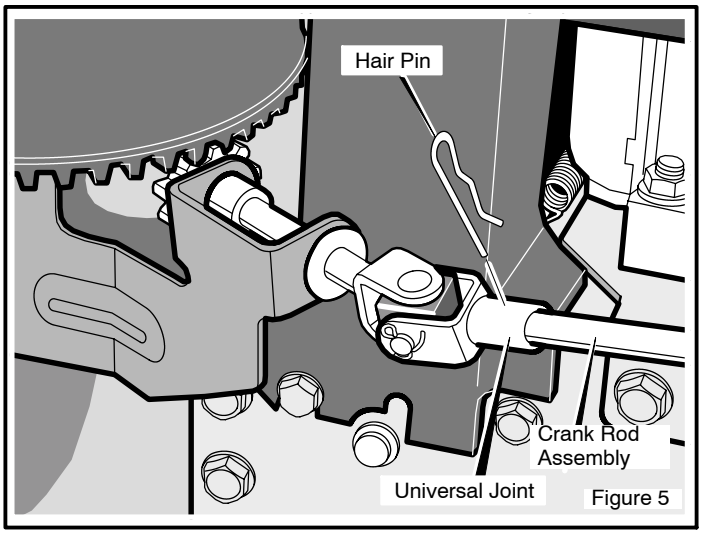


Figure 5

CHECK THE CABLES

1. If control cables have become unattached from motor mount frame, reconnect cables as shown in Figure 6.
2. For cable adjustments, see “How To Check And Adjust The Cables” in the ADJUSTMENT/REPAIR section.

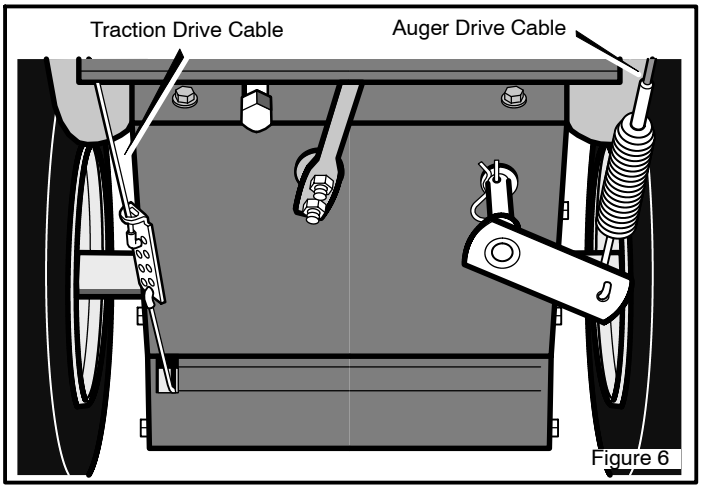


Figure 6

HOW TO SET THE LENGTH OF THE CABLES

The cables were adjusted at the factory and no adjustments should be necessary. However, after the handles are put in the operating position, the cables can be too tight or too loose. If an adjustment is necessary, see “How To Check And Adjust The Cables” in the Service And Adjustment section.

ASSEMBLY

SNOW CHUTE ASSEMBLY

1. Position the snow chute onto the snow chute flange. Align the three holes in the snow chute with holes in snow chute flange. (See Figure 7)

2. Place three 5/16–18 carriage bolts from inside of chute as shown in Figure 7. (hardware is found in parts bag)

3. Place three 5/16–18 flatwashers and three 5/16–18 nuts on outside of flange.

4. Tighten all carriage bolts securely.

NOTE: DO NOT overtigten carriage bolts.

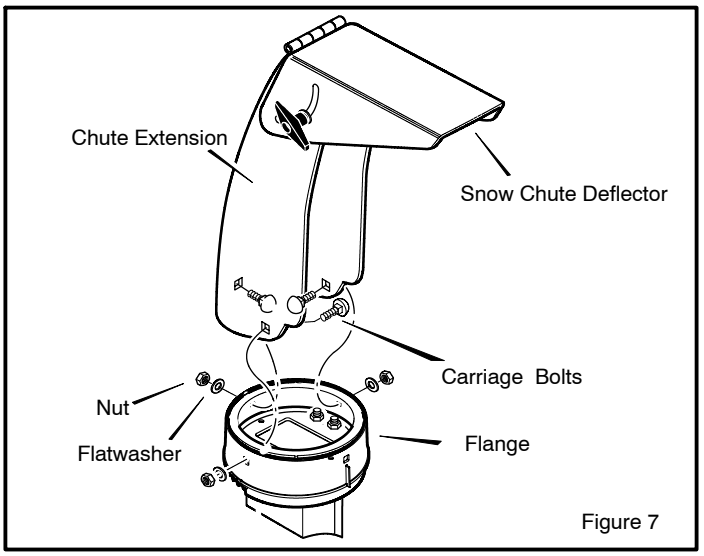


Figure 7

CHECK THE TIRES

The tires were over inflated for shipment. Check the tire pressure in the tires. See the sidewall of the tire for the proper inflation.

IMPORTANT! BEFORE YOU START OPERATING

- ❒ **Check the fasteners. Make sure all fasteners are tight.**
- ❒ **On electric start models, the unit was shipped with the starter cord plugged into the engine. Before operating, unplug the starter cord from the engine.**

NOTE: This snow blower was shipped WITH OIL in the engine. See "Before Starting Engine" instructions in the Operation section of this manual before starting engine.

OPERATION

Get to know your snow blower and its controls. Be sure you (or any other operator) have read and understood “Rules For Safe Operation” (see page 2).

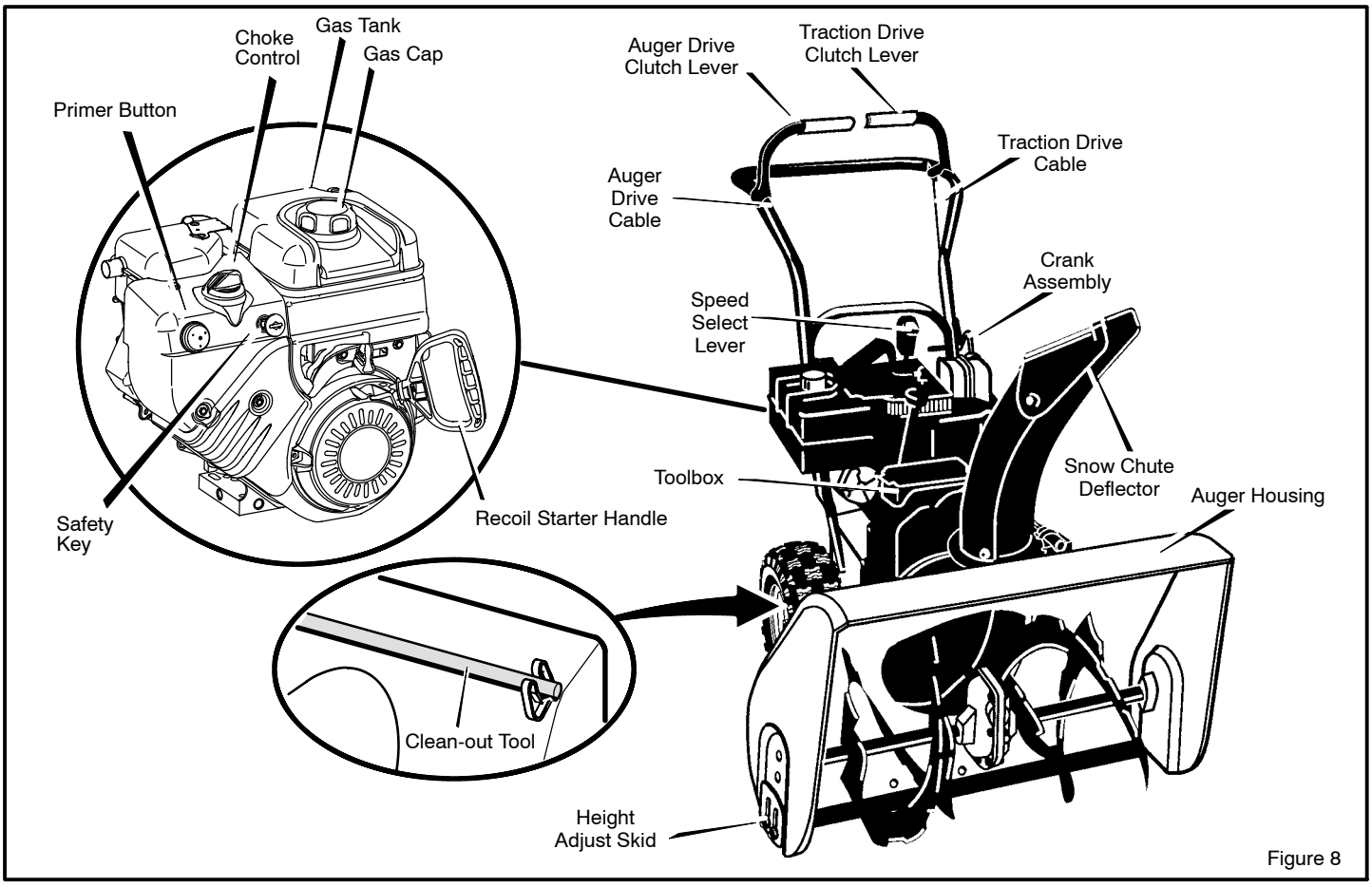


Figure 8

ENGINE AND SNOW BLOWER OPERATING CONTROLS

The engine operating controls and their functions are as follows:

Choke Control– Set choke control to ON CHOKE position to start a cold engine.

Electric Start Button– Used to start the engine using the 120 volt electric starter.

Prime Button– Used to inject fuel directly into carburetor manifold to insure fast starts in cool weather.

Safety Key– Must be inserted into ignition key slot to start engine. Pull out to stop. Do not turn safety key.

Starter Handle– Starts the engine manually.

The snow blower operating controls and their functions are as follows:

Speed Select Lever– Allows the operator to use one of six (6) forward and two (2) reverse speeds. To shift, move speed select lever to desired position.

NOTE: Do not move speed select lever while Traction Drive Clutch is engaged. This may result in severe damage to drive system.

Auger Drive Clutch Lever– Used to engage and disengage the auger and impeller. To engage push down, to disengage release.

Traction Drive Clutch Lever– Used to propel snow blower forward or reverse. Push down to engage, release to disengage.

Snow Chute Deflector– Changes the direction the snow is blown.

Crank– Used to change direction of the snow discharge. Turn handle clockwise to turn chute to right. Turn handle counter clockwise to turn chute to left.

Height Adjust Skid– Used to adjust ground clearance of auger housing (see To Adjust Skid Height in the Adjustment/Repair section of this manual).

Toolbox – Spare shear pins, shear bolt wrenches and spacers are located in toolbox.

Clean-Out Tool – Use the clean-out tool to remove snow and debirs from the discharge chute and the auger housing.

OPERATION

The operation of any snow blower can result in foreign objects being thrown into the eyes,which can result in severe eye damage. Always wear safety glasses or eye shields before beginning snow blower Operation. We recommend standard safety glasses or Wide Vision Safety Mask for over spectacles.

SNOW BLOWER OPERATION

The most effective use of the snow blower will be established by experience, taking into consideration the terrain, wind conditions and building location which will determine the direction of the discharge chute.

NOTE: Do not blow snow towards a building as hidden objects could be blown with sufficient force to cause damage.

1. Start the engine as described in section "To Start Engine" (see Figure 10).

2. Adjust snow chute deflector. Loosen wing nut on the side of the snow chute and raise chute deflector for more distance. Tighten wing nut. (see Figure 9).

3. Using crank, position the discharge chute to discharge snow with the wind.

4. Select proper speed for snow conditions as outlined below and set speed select lever to desired position.

   NOTE: Always release traction drive clutch lever before moving speed select lever.

   Ground speed is determined by snow conditions. Select the speed you desire by moving the speed selector into the appropriate colored area on the control panel.

   1-2 Wet, Heavy, Slushy, Extra Deep

   3 Moderate

   4-5 Very Light

   6 Transport Only

   NOTE: When clearing wet, heavy snow, it is recommended that the ground speed of the unit be reduced and do not attempt to clear the full width of the unit.

   For additional operating instructions see "Operating Tips" in this section of the manual.

5. Engage auger drive clutch lever (right hand–Figure 10).

   IMPORTANT: Be sure front of unit is clear of bystanders or obstacles before operating.

6. Engage traction drive clutch lever (left hand–Figure 10). As the snow blower starts to move, maintain a firm hold on the handles and guide the snow blower along the cutting path. Do not attempt to push the snow blower.

WARNING: Read Owner's Manual before operating machine. This machine can be dangerous if used carelessly.

Never operate the snow blower without all guards, covers, and shields in place.

Never direct discharge towards windows or allow bystanders near machine while engine is running.

Stop the engine whenever leaving the operating position.

Disconnect spark plug before unclogging the impeller housing or the discharge chute and before making repairs or adjustments.

When leaving the machine, remove the safety key.

To reduce the risk of fire, keep the machine clean and free from spilled gas, oil and debris.

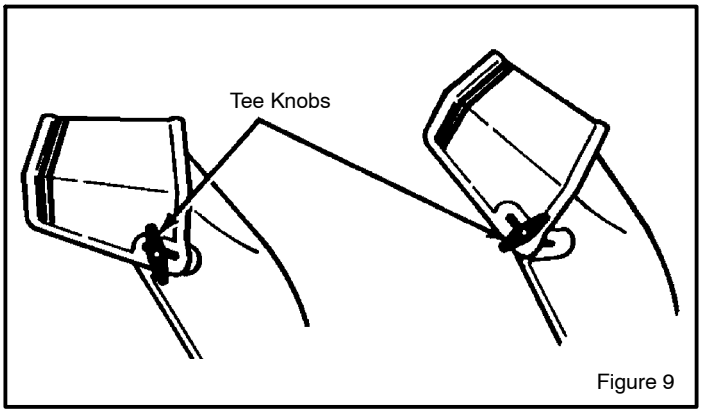


Figure 9

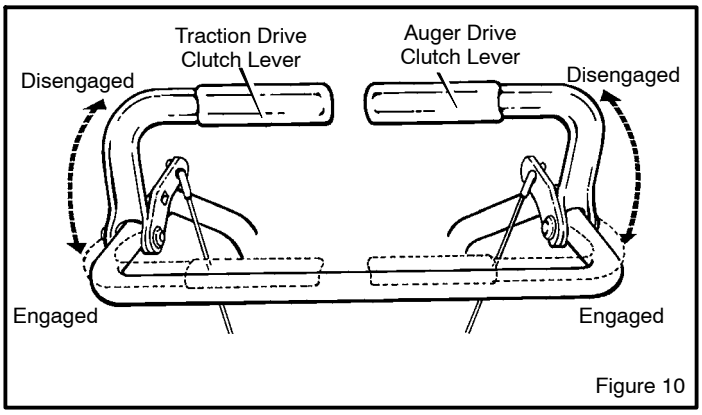


Figure 10

7. To stop forward motion, release traction drive clutch lever (left hand – Figure 10).

8. To stop auger, release auger drive clutch lever (right hand – Figure 10).

9. To move the snow blower backwards, move speed select lever into first or second reverse and engage traction drive clutch lever (left hand). To stop, release traction drive clutch lever.

WHEEL LOCK OUT PIN

1. The right wheel is secured to the axle with a klick pin. This unit was shipped with this klick pin in the locked position. (Figure 11).

2. For ease of maneuverability when lighter conditions prevail, remove klick pin from wheel locked position and insert into single wheel drive (unlocked) position (Figure 12). Make sure that the klick pin is in the single wheel drive position of the axle only and not through the locked position.

NOTE: Check tire pressure (24 pounds). See side of tire for maximum inflation. Do not exceed listed maximum pressure.

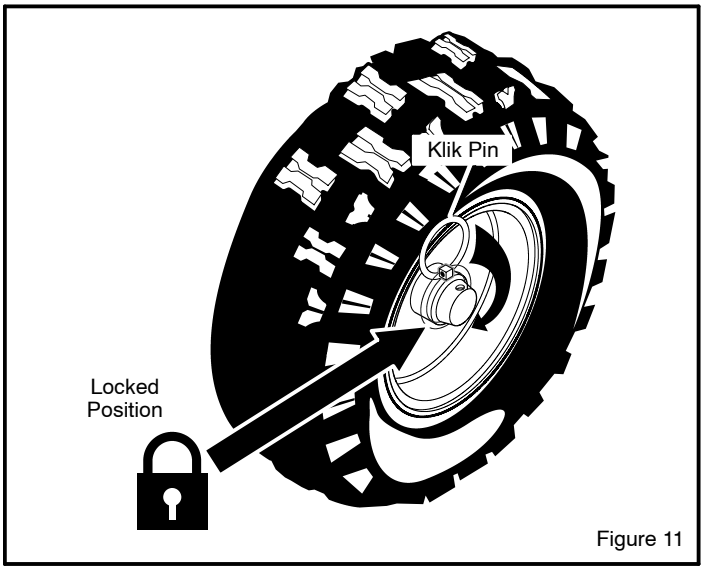


Figure 11

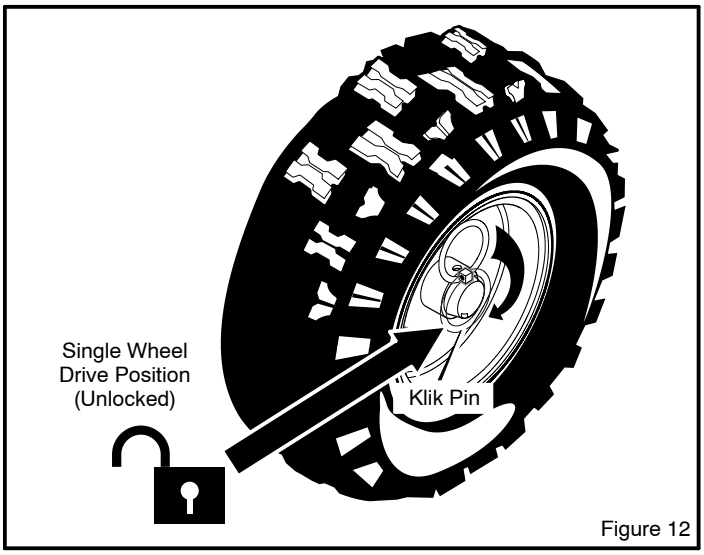


Figure 12

OPERATION

BEFORE STARTING ENGINE

Check the oil

NOTE: The engine was shipped from the factory filled with oil. Check the level of the oil. Add oil as needed.

1. Make sure the unit is level. Use a high quality detergent oil classified “For Service SG, SH, SJ, SL, or higher”.
2. Remove the oil fill cap/dipstick and wipe with a clean cloth (see Figure 13).
3. Insert the oil fill cap/dipstick and turn clockwise to tighten.
4. Remove the oil fill cap/dipstick and check the oil.

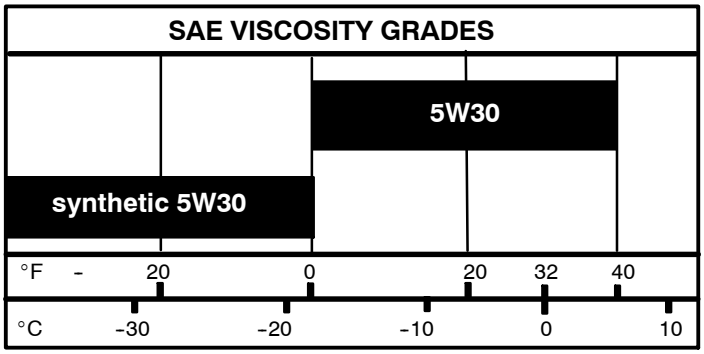
   NOTE: Do not check the level of the oil while the engine runs.
5. If necessary, add oil until the oil reaches the FULL mark on the oil fill/cap dipstick (see Figure 13). Do not add too much oil.
6. Tighten the fill cap/dipstick securely each time you check the oil level.

NOTE: For extreme cold operating conditions of 0°F (-18° C) and below, use a synthetic 5W30 motor oil for easier starting.

NOTE: S.A.E. 5W30 motor oil may be used to make starting easier in areas where the temperature is 20° F. (-7° C) to 0°F (-18° C). Synthetic 5W30 is acceptable for all temperatures. DO NOT mix oil with gasoline.

NOTE: SEE CHART FOR OIL RECOMMENDATION

TEMPERATURE	TYPE OF OIL
0°F (-18° C) and above	S.A.E. 5W30
0°F (-18° C) and below	synthetic 5W30



FILL GAS

This engine is certified to operate on gasoline. Exhaust Emission Control System: EM (Engine Modifications)

1. Fill the fuel tank with fresh, clean, unleaded regular, unleaded premium, or reformulated automotive gasoline with a minimum of 85 octane along with a fuel stabilizer (follow instructions on fuel stabilizer package). **DO NOT** use leaded gasoline. We recommend that fuel stabilizer be added to the fuel each time that gasoline is added to the fuel tank.

   NOTE: Winter grade gasoline has higher volatility to improve starting. Be certain container is clean and free from rust or other foreign particles. Never use gasoline that may be stale from long periods of storage in the container.

   CAUTION: DO NOT use gasoline containing any amount of alcohol as it can cause serious damage to the engine or significantly reduce the performance.

WARNING: Gasoline is flammable. Always use caution when handling or storing gasoline. Turn engine off and let engine cool at least two minutes before removing the gas cap. Do not add gasoline to the fuel tank while snow blower is running, hot, or when snow blower is in an enclosed area. Keep away from open flame, electrical sparks and DO NOT SMOKE while filling the fuel tank. Never fill the fuel tank completely; but fill the fuel tank to within 1-1/2 inch (3.8 mm) from the top to provide space for the expansion of the fuel. Always fill fuel tank outdoors and use a funnel or spout to prevent spilling. Make sure to wipe up any spilled fuel before starting the engine.
Store gasoline in a clean, approved container, and keep the cap in place on the container. Keep gasoline in a cool well ventilated place; never in the house. Never buy more than a 30 day supply of gasoline to assure volatility. Gasoline Is intended to be used as a fuel for internal combustion engines; therefore, do not use gasoline for any other purpose. Since many children like the smell of gasoline, keep it out of their reach because the fumes are dangerous to inhale, as well as being explosive.

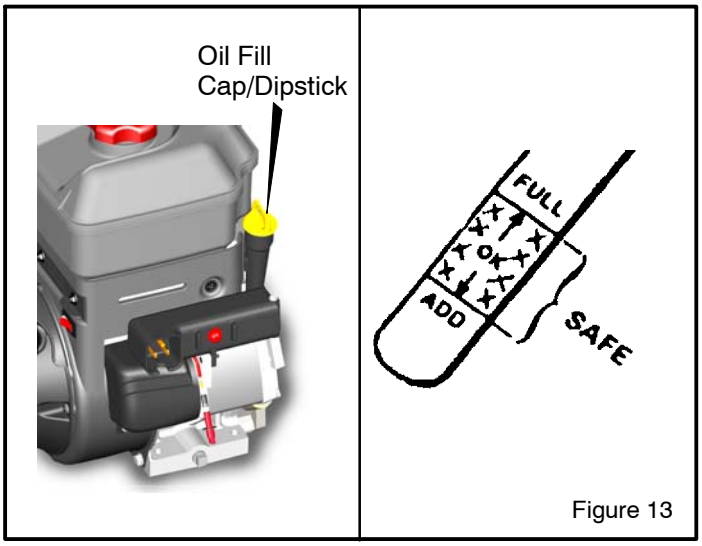


Figure 13

OPERATION

BEFORE STOPPING THE ENGINE

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

TO STOP ENGINE

CAUTION: To stop the engine, do not move the choke control to CHOKE position. Backfire or engine damage can occur.

1. Push the **stop switch** to the OFF position.

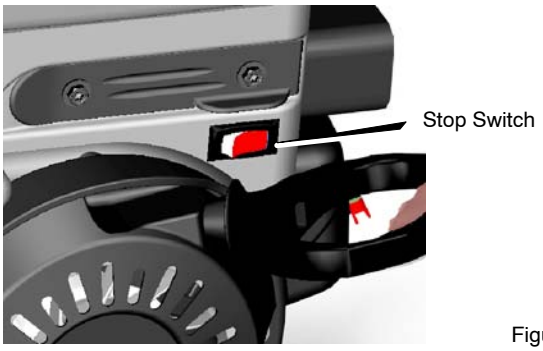


Figure 14

2. Pull out the **safety key.**

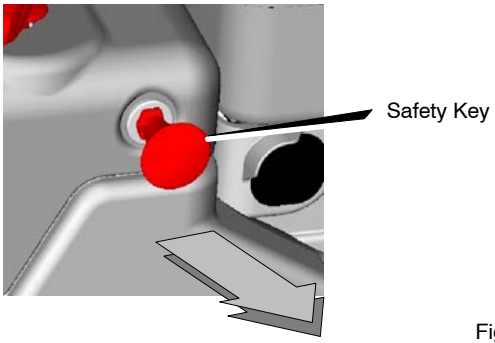


Figure 15

TO START ENGINE

Be sure that engine oil is at FULL mark on the oil fill cap/dipstick. The snow thrower engine is equipped with a 120 volt A.C. electric starter and recoil starter. Before starting the engine, be certain that you have read the following information.

If engine floods, set the choke to the OPEN/RUN position and crank until the engine starts.

WARNING: Rapid retraction of the starter cord (kickback) will pull your hand or arm toward the engine faster than you can let go of the starter cord.

- **When starting the engine, slowly pull the starter cord until resistance is felt. Then, rapidly pull the starter cord.**
- **Make sure components; such as impellors, pulleys or sprockets, are securely attached.**

WARNING: The electric starter is equipped with a three-wire power cord and plug designed to operate on 120 volt AC house hold current. The power cord must be properly grounded at all times to avoid the possibility of electric shock which can cause injury to the operator. Follow all instructions carefully as set forth below:

Make sure your house has a three-wire grounded system. If you are not sure, ask a licensed electrician. If your house does not have a three-wire grounded system, do not use this electric starter under any condition.

If your house has a three-wire grounded system but a three hole receptacle is not available to connect the electric starter, have a three-hole receptacle installed by a licensed electrician.

WARNING: To connect a 120 volt power cord, always connect the power cord first to the switch box located on the engine and then plug the other end into a three-hole grounded receptacle.

WARNING: To disconnect the power cord, always unplug the end connected to the three-hole grounded receptacle first.

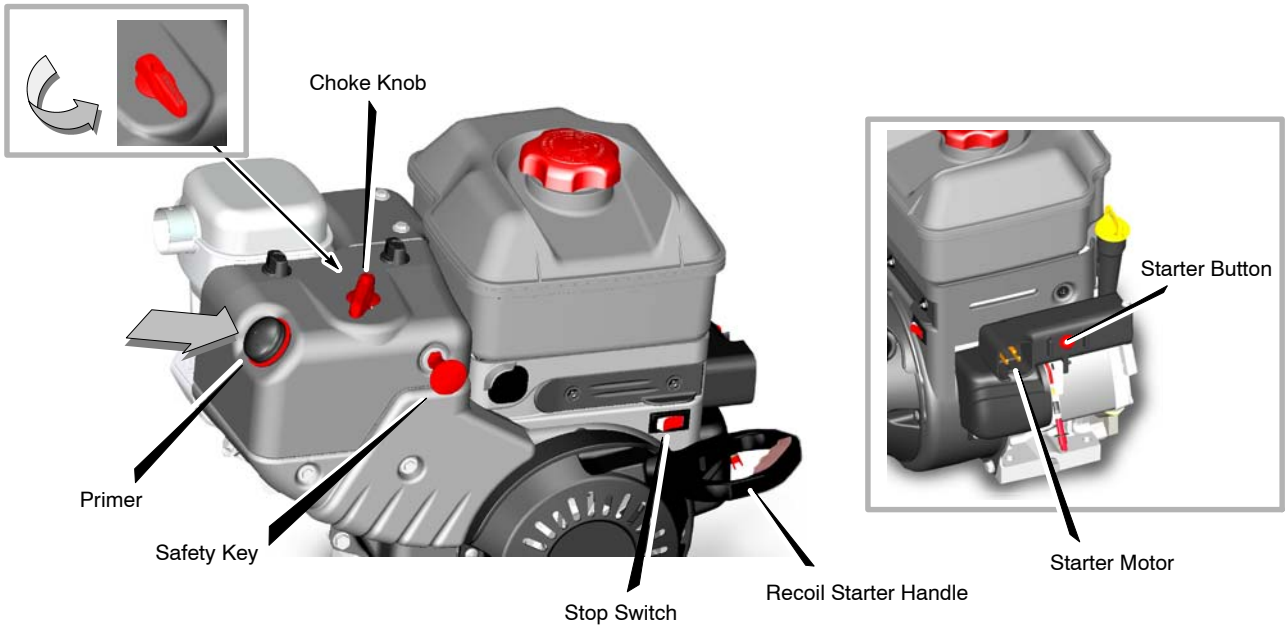


Figure 16

How To Start A Cold Engine

1. Be sure auger drive and traction drive levers are in the disengaged (**RELEASED**) position.

2. Push the **stop switch** to the ON position (see Figure 16).
3. Push in the **safety key.**

4. Rotate the **choke knob** to the CHOKE position.

5. ***(Electric Start)*** Plug the power cord into the **starter motor** on the engine. Plug the other end of power cord into a three-hole, grounded 120 VOLT, AC receptacle.

6. Push the **primer button** as specified below**.** Remove finger from primer button between pushes.

   - Push two times if temperature is 15° F (-9° C) or higher.
   - Push four times if temperature is below 15° F (-9° C).

7. ***(Electric Start)*** Connect the power cord to the engine and depress the starter button. To prolong the life of the starter, do not crank for more than 5 seconds at a time. Wait one minute between starts to allow the starter motor to cool.

8. ***(Recoil Start)*** Slowly pull the **recoil starter handle** until resistance is felt and then pull repidly to start the engine. Do not allow the **recoil starter handle** to snap back. Slowly return the **recoil starter handle.**

9. If the engine does not start in 5 or 6 tries, See Difficult Starting in the “Troubleshooting Table”.

10. Allow the engine to warm up for several minutes. As the engine warms up, adjust the **choke knob** toward the RUN position. Wait until the engine runs smoothly before each choke adjustment.

11. ***(Electric Start)*** First disconnect power cord from receptacle. Then, disconnect the power cord from the **switch box**.

If after following the preceding instructions, your engine fails to start, have the engine checked by an Authorized Sears Service Outlet.

NOTE: Do not lose the safety/ignition key. Keep the safety/ignition key is a safe place. The engine will not start without the safety/ignition key.

How To Start A Warm Engine

If restarting a warm engine after a short shutdown, leave the choke lever in the off position and do not push the primer button. If the engine fails to start, follow the Cold Start instructions.

OPERATION

FROZEN STARTER

If the starter is frozen and will not turn engine:

1. Pull as much rope out of the starter as possible.
2. Release the starter handle and let it snap back against the starter. Repeat until the engine starts.

Warm engines will cause condensation in cold weather. To help prevent possible freeze-up of recoil starter and engine controls, proceed as follows after each snow removal job.

1. With engine off, allow engine to cool for several minutes.
2. Pull starter rope very slowly until resistance is felt, then stop. Allow the starter rope to recoil. Repeat three times.
3. With the engine not running, wipe all snow and moisture from the carburetor cover in area of control levers. Also move choke knob and starter handle several times.

WARNING: Never run engine indoors or in enclosed, poorly ventilated areas. Engine exhaust contains CARBON MONOXIDE, AN ODORLESS AND DEADLY GAS. Keep hands, feet, hair and loose clothing away from any moving parts on engine and snow thrower.

- **Engine parts, especially the muffler, become extremely hot. Severe thermal burns can occur on contact. Allow the engine to cool before touching.**
- **Never allow children to operate the snow thrower. Never allow adults to operate the snow blower without proper instruction.**
- **Keep the area of operation clear of all persons, particularly small children and pets.**
- **Never leave the snow blower unattended while the engine is running. Anyone operating the engine or equipment must carefully read and understand the operating instructions.**

IMPORTANT: After each use of the snow blower, stop the engine, remove the safety/ignition key, remove all accumulated snow from the snow blower and wipe clean. Store the snow blower in a protected area.

NOTE: Never cover snow blower while engine and exhaust area are still warm.

HOW TO CLEAR A CLOGGED DISCHARGE CHUTE

WARNING: Hand contact with the rotating impeller inside the discharge chute is the most common cause of injury associated with snow blowers. NEVER USE YOUR HAND TO CLEAN OUT THE DISCHARGE CHUTE.

To Clear The Chute:

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

A clean-out tool is attached to either the handle or the top of the auger housing (see Figure 17). Use the clean-out tool to remove snow from the auger housing.

How To Use The Clean-Out Tool

- Release the auger drive lever.
- Pull out the safety key.
- Disconnect spark plug wire.
- Do not place your hands in the auger or discharge chute. Use a clean-out tool to remove snow or debris.

WARNING: Blockage must be cleared only after shutting off the snow blower and only with a clean-out tool, not by hand.

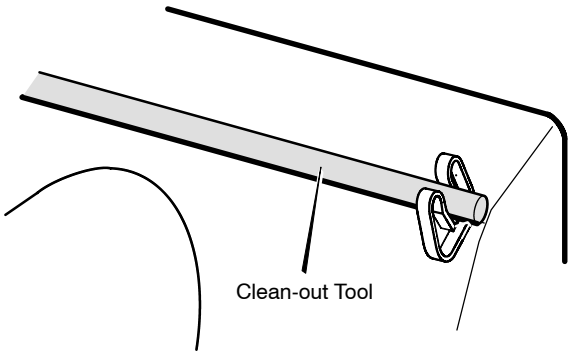


Figure 17

OPERATION

OPERATING TIPS

1. Most efficient snowblowing is accomplished when snow is removed immediately after it falls.
2. For complete snow removal, slightly overlap each swath previously taken.
3. Snow should be discharged downwind whenever possible.
4. For normal usage, set the skids one–eighth inch (3 mm) below the scraper bar. For extremely hard–packed snow surfaces, the skids may be adjusted upward to insure cleaning efficiency.
5. On gravel or crushed rock surfaces, the skids should be set at 1–1/4 inch (32 mm) below the scraper bar (see To Adjust Skid Height, in the Adjustment/Repair section in this manual). Rocks and gravel must not be picked up and thrown by the machine.
6. After the snowblowing job has been completed, allow the engine to idle for a few minutes, to melt snow and ice accumulated on the engine.
7. Clean the snow thrower thoroughly after each use.
8. Remove ice and snow accumulation and all debris from the entire snow thrower, and flush with water (if possible) to remove all salt or other chemicals. Wipe snow thrower dry.
9. Before starting snow blower, always inspect augers and impeller for ice accumulation and/or debris, which could result in snow blower damage.
10. Check oil level before every start. Make sure the oil is at the FULL mark on the oil fill cap/dipstick.

SERVICE RECOMMENDATIONS

SERVICE RECOMMENDATIONS										
PROCEDURE		FIRST 2 HOUR	BEFORE EACH USE	EVERY 8 HOURS	EVERY 10 HOURS	EVERY 25 HOURS	EVERY 50 HOURS	EVERY 100 HOURS	BEGINNING EACH SEASON	BEFORE STORAGE
SNOWBLOWER	Tighten all screws and nuts	√			√				√	
	Check Traction Clutch Cable Adjustment (See Cable Adjustment)	√							√	
	Check Auger clutch Cable Adjustment (See Cable Adjustment)	√							√	
	Lubricate Chains and Hex Shaft								√	√
ENGINE	Oil, Check		√	√					√	
	Oil, Change	√					√		√	
	Check and Clean Spark Plug	√				√				
	Replace Spark Plug							√		
	Clean and Inspect Spark Arrestor						√			

The warranty on this snow blower does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain snow blower as instructed in this manual. The following **Service Recommendations** is supplied to assist operator to properly maintain snow blower. This is a check list only. Adjustment referred to will be found in Adjustments/Repairs section of this manual.

Maintenance, replacement, or repair of the emission control devices and systems can be performed by any non-road engine repair establishment or individual. Regular maintenance will improve the performance and extend the life of the engine.

AFTER EACH USE

1. Check for any loose or damaged parts.
2. Tighten any loose fasteners.
3. Check and maintain the auger.
4. After each use, remove all snow and slush off the snow blower to prevent freezing of auger or controls.
5. Check controls to make sure they are functioning properly.
6. If any parts are worn or damaged, replace immediately.

CUSTOMER RESPONSIBILITIES

Some adjustments will need to be made periodically to properly maintain your snow blower.

All adjustments in ADJUSTMENTS/REPAIRS section of this manual should be checked at least once each season.

SNOW BLOWER

Auger and Traction Drive Belts should be adjusted after the first 2 to 4 hours of use, again about mid-season and twice each season thereafter (See To Adjust Belts paragraph in the Adjustment/Repair section).

AS REQUIRED

Auger Gear Box

The auger gear box is lubricated at the factory and should not require additional lubrication.
If for some reason the lubricant should leak out, or if the auger gear box has been serviced, add Lubriplate GR132 Grease or equivalent. Maximum 3-1/4 ounces, (92 grams) should be used.

Remove filler plug (Figure 18), once a year. If grease is visible, do not add. If grease is not visible, use a piece of fine wire, like a dipstick to check if there is grease in the gear box. Mobilux EP1 and Shell Aldania EP1 are suitable equivalents.

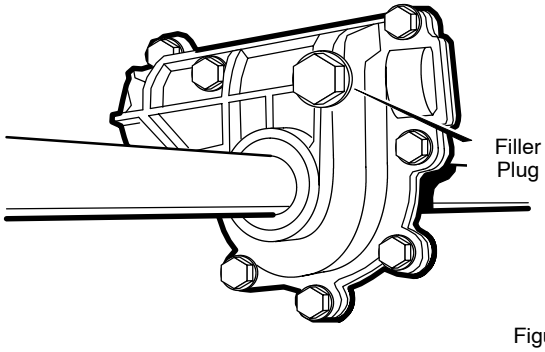


Figure 18

LUBRICATION AT STORAGE

Bearings and bushings

All bearings and bushings are lifetime lubricated and require no maintenance.

Hex shaft and chains

For storage, the hex shaft should be wiped with a cloth lightly moistened with motor oil to prevent rusting (see Figure 20).

For storage, the chains should be lubricated with a chain type lube. (see Figure 20).

NOTE: Any greasing or oiling of the above mentioned components can cause contamination of the rubber friction wheel. If the disc drive plate or friction wheel come in contact with grease or oil damage to rubber friction wheel will result .

If grease or oil comes into contact with the disc drive plate or friction wheel, make sure to clean plate and wheel thoroughly with a alcohol base solvent.

CUSTOMER RESPONSIBILITIES

LUBRICATION - EVERY 25 HOURS

Chute Rotation Gear

Lubricate the **chute rotation gear** with automotive type oil. (see Figure 19).

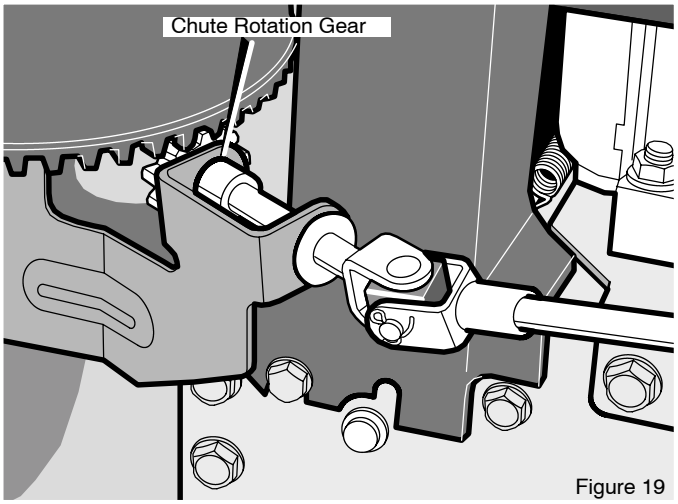


Figure 19

Chains

1. Position speed selector lever in first (1) forward gear.
2. Stand the snow blower up on the auger housing end.

   NOTE: When the crank case if filled with oil, do not leave the snow blower standing up on the auger housing for an extended period of time.
3. Remove the bottom panel.
4. Lubricate the **chains** with a chain type lubricant.
5. Wipe the **hexshaft and sprockets** with 5W30 motor oil.

   NOTE: Clean all excess grease or oil found on the rubber friction wheel or the disc drive plate.

   CAUTION: Do not allow grease or oil to contact the rubber friction wheel or the disc drive plate.
6. Install the bottom panel.

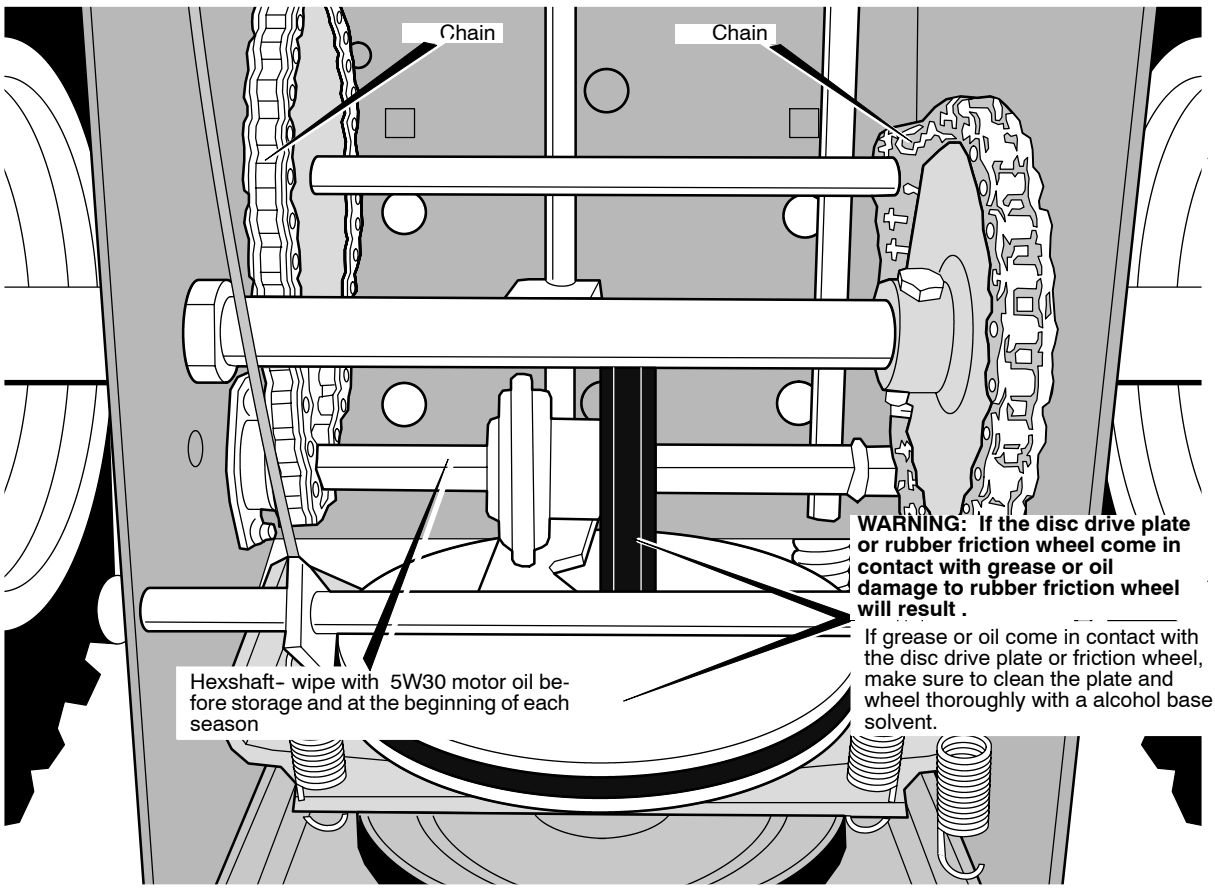


Figure 20

CUSTOMER RESPONSIBILITIES

ENGINE

POWER RATINGS

The power ratings for an individual engine model are initially developed by starting with SAE (Society of Automotive Engineers) code J1940 (Small Engine Power & Torque Rating Procedure) (Revision 2002-05). Given both the wide array of products on which our engines are placed, and the variety of environmental issues applicable to operating the equipment, it may be that the engine you have purchased will not develop the rated horsepower when used in a piece of power equipment (actual "on-site" power). This difference is due to a variety of factors including, but not limited to, the following: differences in altitude, temperature, barometric pressure, humidity, fuel, engine lubrication, maximum governed engine speed, individual engine to engine variability, design of the particular piece of power equipment, the manner in which the engine is operated, engine run-in to reduce friction and clean out of combustion chambers, adjustments to the valves and carburetor, and other factors. The power ratings may also be adjusted based on comparisons to other similar engines utilized in similar applications, and will therefore not necessarily match the values derived using the foregoing codes.

Check Crankcase Oil Level before starting engine and after each 8 hours of continuous use (see Figure 21). Add the recommended motor oil as required.

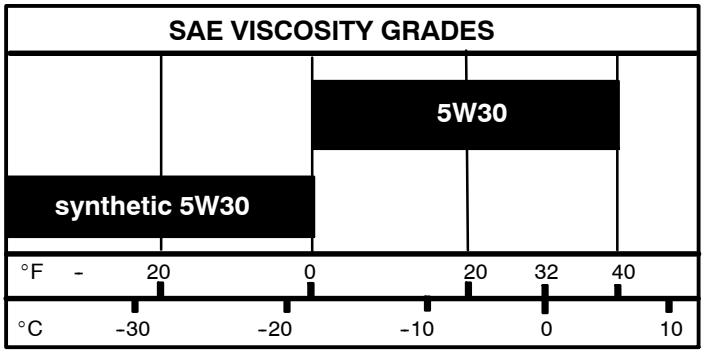
NOTE: Overfilling the engine can affect performance. Tighten the oil fill cap securely to prevent leakage.

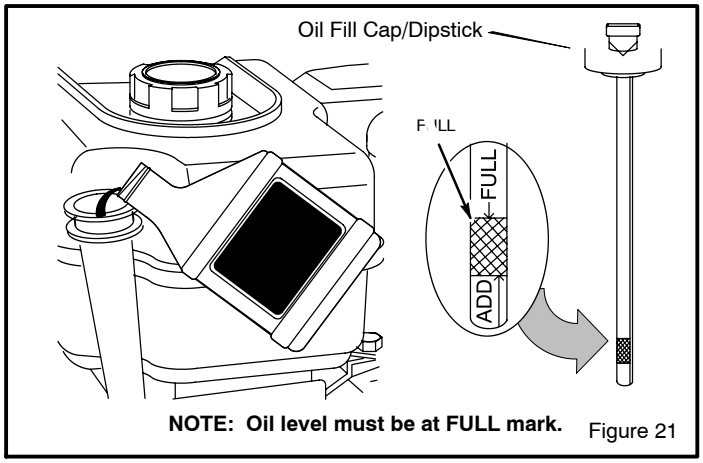
Change Oil every 50 hours of operation or at least once a year, even if the snow blower is not used for fifty hours. Use a clean, high quality detergent oil. Fill the crank case to FULL line on dipstick (see Figure 21). Be sure original container is marked: A.P.I. service "SF" or higher. Do not use SAE10W40 oil (as it may not provide proper lubrication). See Chart for oil recommendations.

To Drain Oil – Position snow blower so that the oil drain plug is lowest point on engine. When the engine is warm, remove oil drain plug and oil fill cap and drain oil into a suitable container (Figure 22).

Replace oil drain plug and tighten securely. Refill crank case with the recommended motor oil.

TEMPERATURE	TYPE OF OIL
0°F (-18° C) and above	S.A.E. 5W30
0°F (-18° C) and below	synthetic 5W30





NOTE: Oil level must be at FULL mark. Figure 21

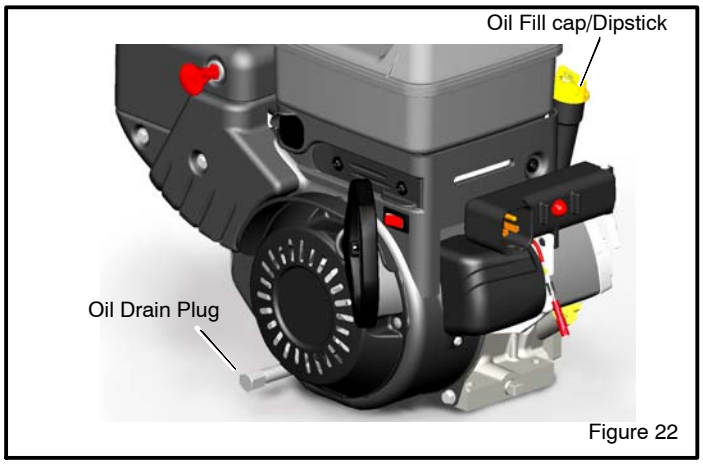


Figure 22

WARNING: Always turn unit off, remove ignition key and disconnect the spark plug wire before making any repairs or adjustments.

AUGER HOUSING HEIGHT ADJUSTMENT

TO ADJUST SCRAPER BAR

After considerable use, the metal scraper bar will have a definite wear pattern. The scraper bar in conjunction with the skids should always be adjusted to allow one-eighth of an inch (3 mm) between the scraper bar and the sidewalk or area to be cleaned.

To adjust the scraper bar, proceed as follows:

1. Position the snow blower on a level surface.
2. Loosen the carriage bolts and nuts securing the scraper bar to the auger housing.
3. Adjust the scraper bar to the proper position. Tighten the carriage bolts and nuts, insuring that the scraper bar is parallel with the working surface.
4. For extended operation, the scraper bar may be reversed. If the scraper bar must be replaced because of wear, remove the carriage bolts and nuts and install a new scraper bar.

TO ADJUST SKID HEIGHT

This snow blower is equipped with two height adjust skids, secured to the outside of the auger housing. These elevate the front of the snow blower.

When removing snow from a hard surface area such as a paved driveway or walk, adjust the skids up to bring the front of the snow blower down.

When removing snow from rock or uneven construction, raise the front of the snow blower by moving the skids down. This will help to prevent rocks and other debris from being picked up and thrown by the augers.

To adjust skids, proceed as follows:

1. Place a block (equal to height from ground desired) under scraper bar near but not under skid.
2. Loosen skid mounting nuts (Figure 23) and push the skid down until it touches the ground. Retighten mounting nuts.
3. Set skid on other side at same height.

NOTE: Make sure that snow blower is set at same height on both sides.

WARNING: Be certain to maintain proper ground clearance for your particular area to be cleared. Objects such as gravel, rocks or other debris, if struck by the impeller, may be thrown with sufficient force to cause personal injury, property damage or damage to the snow blower.

TO REVERSE SKIDS

The snow blower is equipped with reversible skids that are secured to the outside of the auger housing. When removing snow from hard and abrasive surfaces, the skids can become worn. If the skids become worn, they can be reversed as follows.

To reverse the skids, proceed as follows:

1. Put a wood block under each side of the auger housing.
2. Loosen and remove the skid mounting nuts (see Figure 23). DO NOT REMOVE THE SKID MOUNTING BOLTS.
3. While holding the skid mounting bolts in position from the inside of the auger housing; remove the skid, rotate the skid 180 degrees, and install the skid onto the skid mounting bolts.
4. Install and tighten the skid mounting nuts.

NOTE: To make sure each skid is set at the same height, see "To Adjust Skid Height".

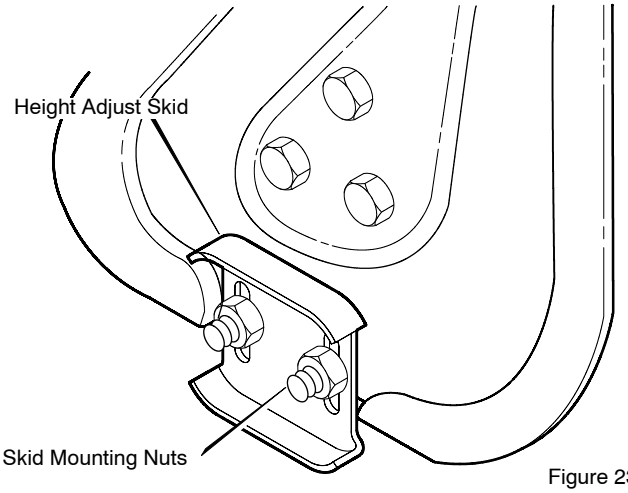


Figure 23

HOW TO REMOVE THE SNOW HOOD

To access the spark plug, the snow hood must be removed as follows:

1. Remove the choke control knob (see Figure 24).
2. Remove the **safety key**.
3. Remove the **mounting screws** (see Figure 25).
4. Slowly remove the snow hood. Make sure that the **primer button hose** and the **ignition wire** are not disconnected.
5. The **spark plug** can now be accessed.
6. To install the snow hood, first make sure that the primer button hose and the ignition wire are connected.
7. Mount the snow hood to the engine and secure with the mounting screws (see Figure 25).
8. Connect the choke control knob with the choke shaft on the carburetor (see Figure 26 and Figure 27). Make sure the choke control knob is properly installed. If the choke control knob is not installed correctly, the choke will not operate.
9. Install the **safety key.**

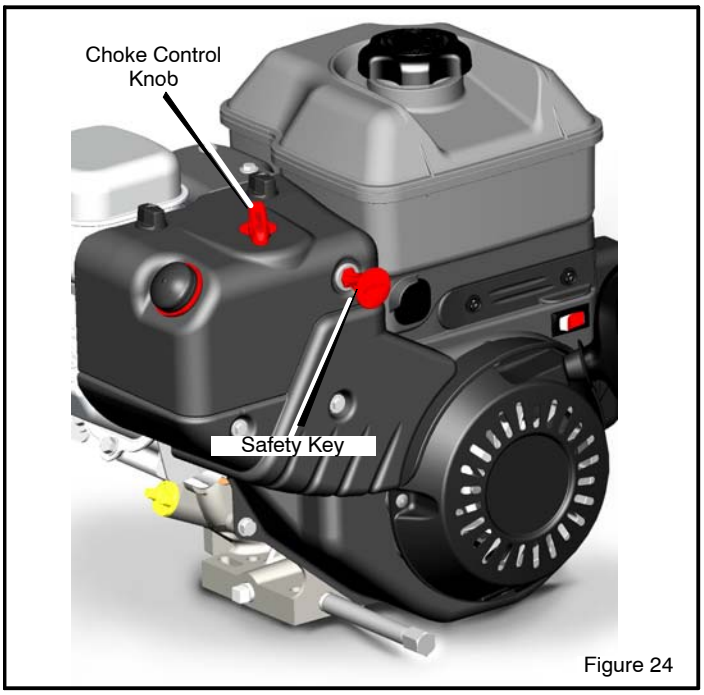


Figure 24

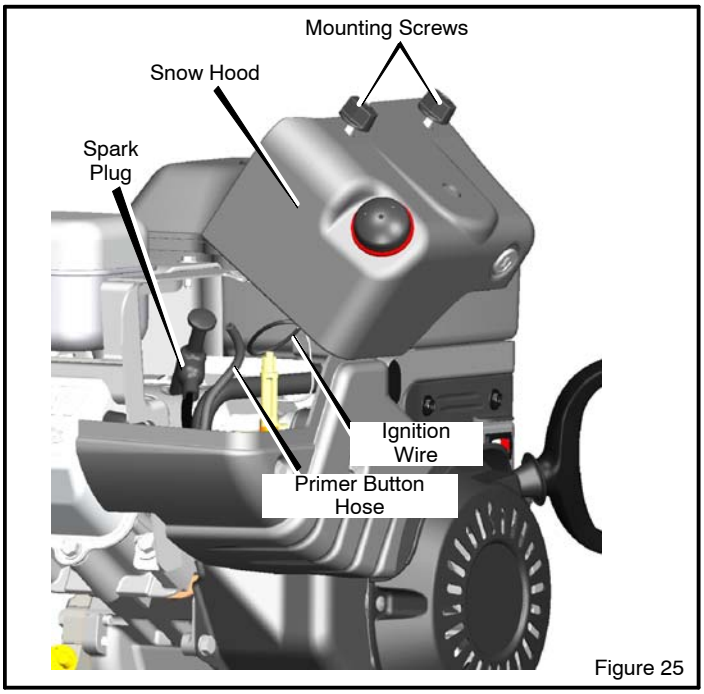


Figure 25

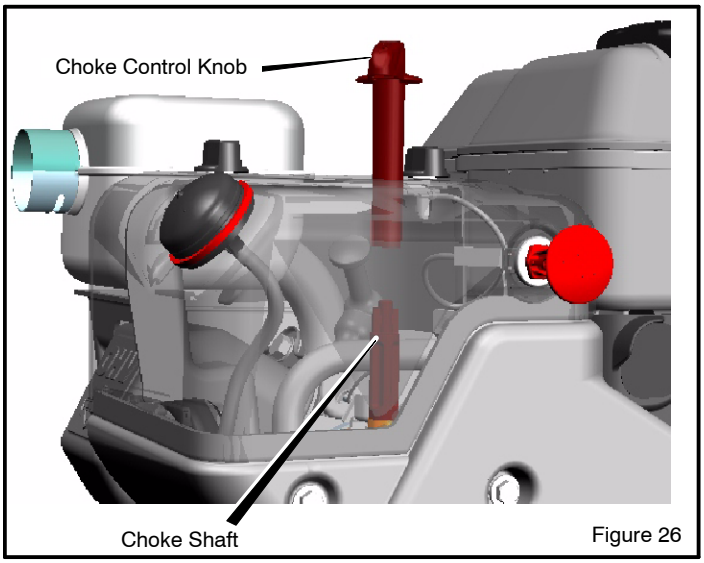


Figure 26

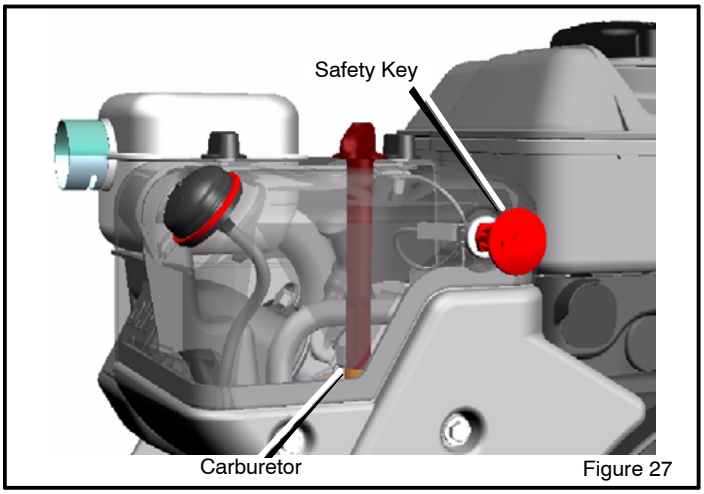


Figure 27

BELT ADJUSTMENT

Traction Drive Belt

The traction drive belt has constant spring pressure and does not require an adjustment. If the traction drive belt is slipping, replace the belt. See “How To Replace The Belts” in the Maintenance section.

Auger Drive Belt

If your snowthrower will not discharge snow, check the control cable adjustment. If it is correct, then check the condition of the auger drive belt. If it is damaged or loose, replace it (see Belt Replacement in this section of the manual).

1. Disconnect spark plug wire.

2. Remove **screw** from **belt cover.** Remove **belt cover** (see Figure 28).

3. Loosen nut on auger idler pulley and move auger idler pulley towards belt about 1/8 inch (3 mm) (see Figure 32).

4. Tighten nut.

5. Have someone engage auger drive clutch. Check tension on belt (opposite idler pulley). Belt should deflect about 1/2 inch (12.5 mm) with moderate pressure Figure 29). You may have to move idler pulley more than once to obtain the correct tension.

6. Reinstall belt cover.

7. Whenever belts are adjusted or replaced, the cables will need to be adjusted. (See Cable Adjustment in this section of the manual).

8. Attach the spark plug wire.

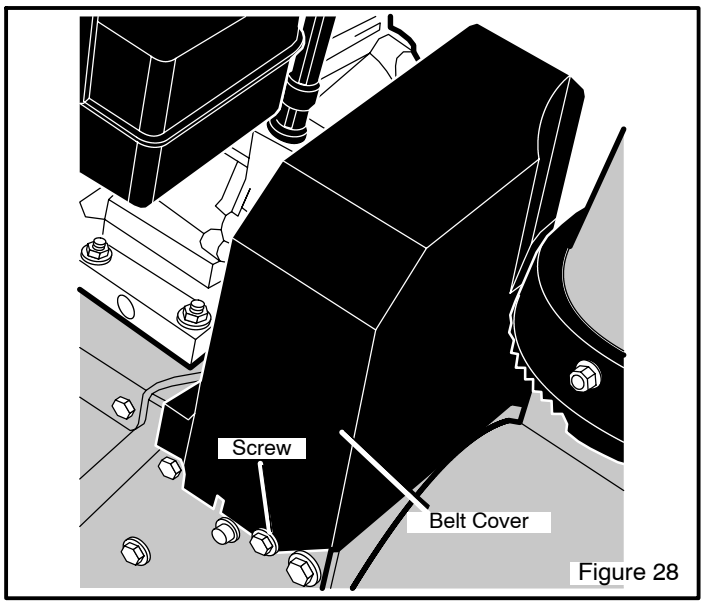


Figure 28

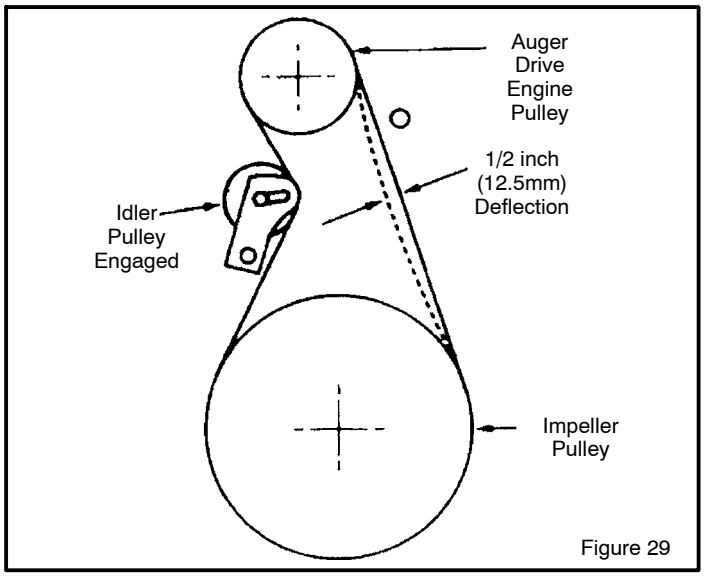


Figure 29

HOW TO REPLACE THE BELTS

The drive belts are of special construction and must be replaced with original factory replacement belts available from your nearest authorized service center.

Some steps require the assistance of a second person.

How To Remove the Auger Drive Belt

If the auger drive belt is damaged, the snow thrower will not discharge snow. Replace the damaged belt as follows.

1. Disconnect the spark plug wire.
2. Loosen the **bolts** on each side of the **bottom panel** (see Figure 30).
3. Remove the **bottom panel.**
4. Remove **screw** from **belt cover**. Remove the **belt cover** (see Figure 28).
5. Loosen the **belt guide.** Pull the **belt guide** away from the **auger drive pulley** (see Figure 32).
6. Pull the **idler pulley** away from the **auger drive belt** and slip the **auger drive belt** off of the **idler pulley**.
7. Remove the **auger drive belt** from the **engine pulley.** To remove the **auger drive belt,** the **engine pulley** may have to be partially rotated.
8. Remove the top four **bolts** that hold together the **auger housing** and the **motor box**. Loosen the bottom two **bolts.** The **auger housing** and the **motor box** can now be split apart for removal of the belt (see Figure 31).
9. Remove the old **auger drive belt** from the **auger drive pulley** . Replace the **auger drive belt** with an original factory replacement belt available from an authorized service center (see Figure 32).
10. Install the new **auger drive belt** onto the **auger drive pulley**.

    NOTE: To assemble the auger housing to the motor box, have someone hold the auger clutch lever in the ENGAGED position. This will move the idler arm and pulley enough to allow the auger drive pulley to move back into position.
11. Assemble the **auger housing** to the **motor box** with the four **bolts** that were removed in step 8. Tighten the bottom two **bolts.**
12. Install the **auger drive belt** onto the **engine pulley**.
13. Slip the **auger drive belt** under the **idler pulley**.
14. Adjust the **auger drive belt**. See “How To Adjust The Auger Drive Belt” in the Maintenance section.
15. Adjust the **belt guide**. See “How To Adjust The Belt Guide” in the Maintenance section.
16. Install the **belt cover**. Tighten **screw** (See Figure 28).
17. Check the adjustment of the cables. See “How To Check And Adjust The Cables” in the Maintenance section.
18. Install the **bottom panel** (see Figure 30).
19. Tighten the **bolts** on each side of the **bottom panel**.
20. Connect the spark plug wire.

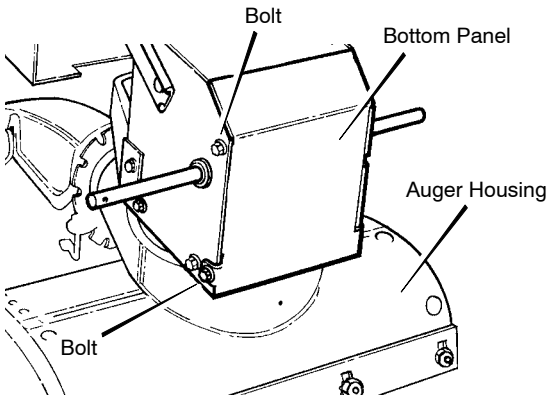


Figure 30

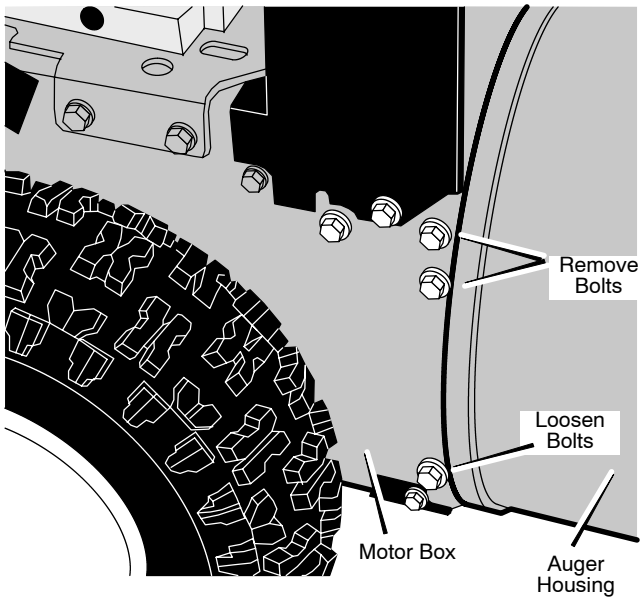


Figure 31

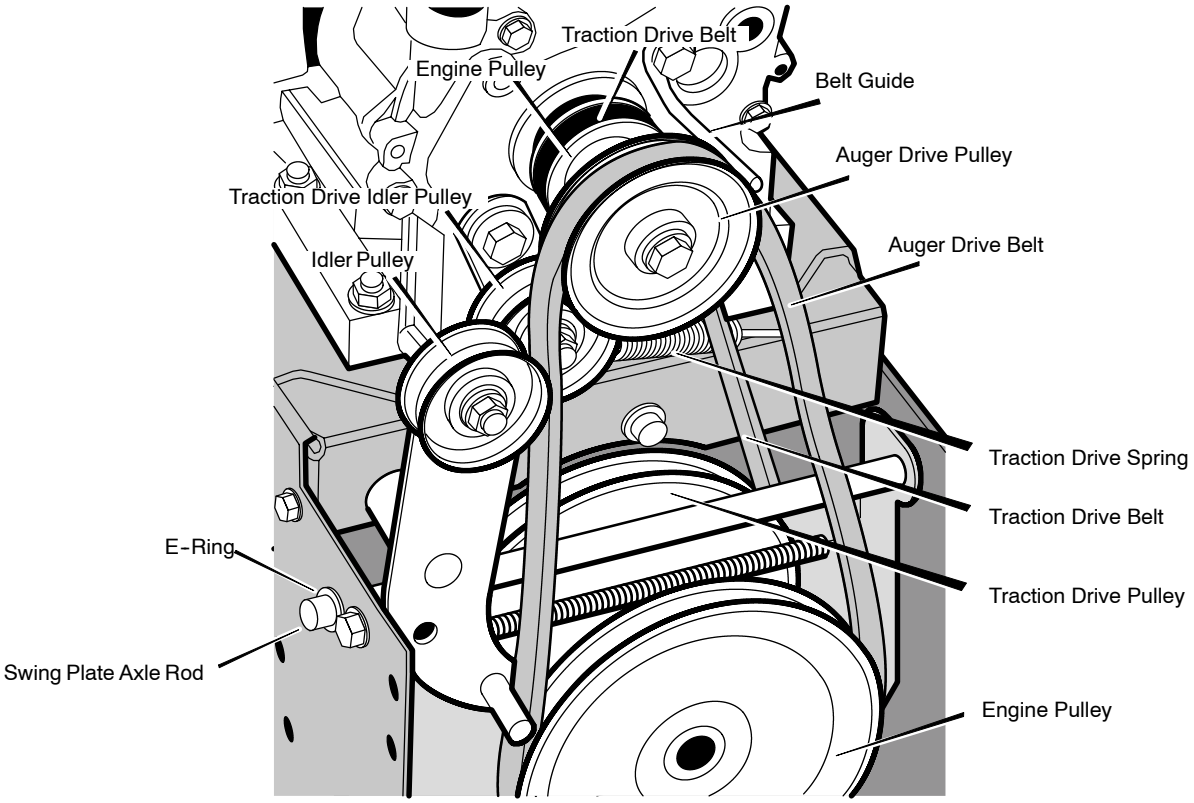

Traction Drive Belt
Engine Pulley
Belt Guide
Auger Drive Pulley
Traction Drive Idler Pulley
Auger Drive Belt
Idler Pulley
Traction Drive Spring
Traction Drive Belt
E-Ring
Traction Drive Pulley
Swing Plate Axle Rod
Engine Pulley

Figure 32

How To Remove the Traction Drive Belt

If the snow thrower will not move forward, check the traction drive belt for wear or damage. If the traction drive belt is worn or damaged, replace the belt as follows.

1. Disconnect the spark plug wire.

2. Remove the auger drive belt. See "How To Remove The Auger Drive Belt" in the Maintenance section.

3. Remove the **e-ring** from one end of the **swing plate axle rod.** Remove the **swing plate axle rod** to allow the the swing plate to pivot forward (see Figure 32).

4. Remove the **traction drive spring.**

5. Remove the old **traction drive belt** from the **traction drive pulley** and from the **engine pulley**. Replace the **traction drive belt** with an original factory replacement belt available from an authorized service center.

6. Install the new **traction drive belt** onto the **traction drive pulley** and onto **engine pulley**.

7. Make sure the **traction drive idler pulley** is properly aligned with the **traction drive belt**.

8. Attach the **traction drive spring.**

9. Install the **swing plate axle rod** and secure with the **e-ring** removed earlier**.**

10. The bottom of the **swing plate** must be positioned between the **alignment tabs.** Make sure the **swing plate** is properly secured (see Figure 33).

    NOTE: If the drive will not engage after the traction drive belt has been replaced, then check to make sure that the swing plate is positioned between the alignment tabs.

11. Install and adjust the **auger drive belt**. See "How To Remove The Auger Drive Belt" in the Maintenance section.

12. Adjust the **belt guide**. See "How To Adjust The Belt Guide" in the Maintenance section.

13. Install the **bottom panel** (see Figure 30).

14. Tighten the **bolts** on each side of the **bottom panel**.

15. Install the **belt cover**. Tighten **screw** (see Figure 28).

16. Check the adjustment of the cables. See "How To Check And Adjust The Cables" in the Maintenance section.

17. Connect the spark plug wire.

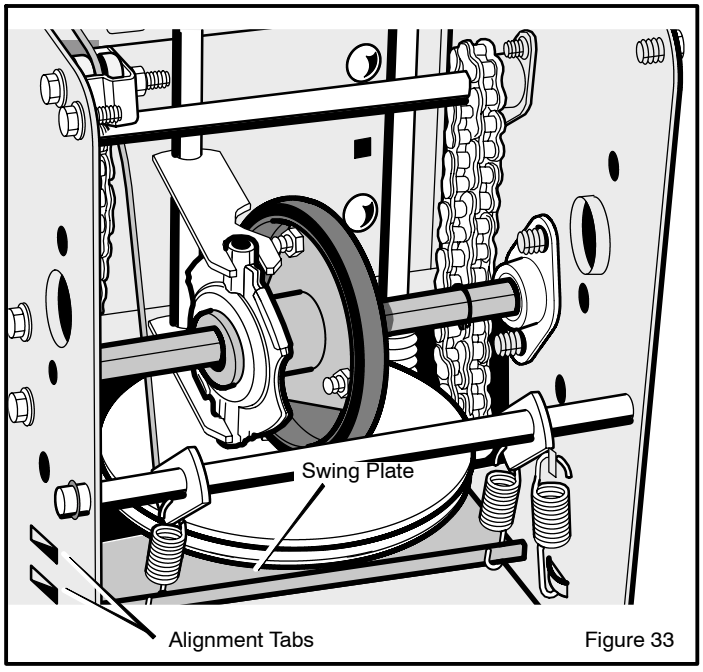


Figure 33

BELT GUIDE ADJUSTMENT

1. Remove spark plug wire.
2. Have someone engage auger drive.
3. Measure the distance between the belt guide and belt. The distance should be 1/8 inch (3.175 mm) for guide. See Figure 34.
4. If adjustment is necessary, loosen belt guide mounting bolt. Move belt guide to the correct position. Tighten mounting bolt.
5. Reinstall belt cover.
6. Reconnect spark plug wire.

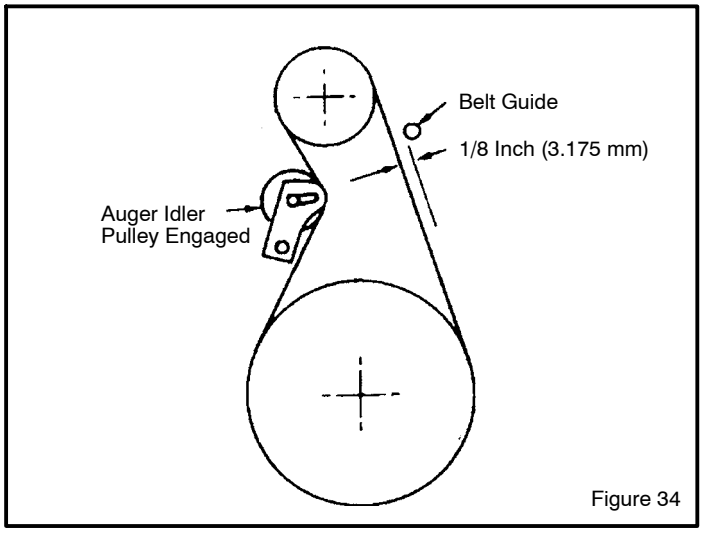


Figure 34

HOW TO CHECK AND ADJUST THE CABLES

The cables are adjusted at the factory and no adjustment should be necessary. If the cables have become stretched or are sagging adjustment will be necessary.

Whenever belts are adjusted or replaced, the cables will need to be adjusted.

To check for correct adjustment, unhook "Z" fitting at clutch lever (see Figure 35).

1. Move clutch lever to the full forward position (just contacting plastic bumper). Holding cable tight, note position of fitting to hole in clutch lever.
2. The center of the "Z" fitting should be between the centre and top of the hole in the clutch lever. Adjust either the auger drive cable or the traction drive cable as follows.

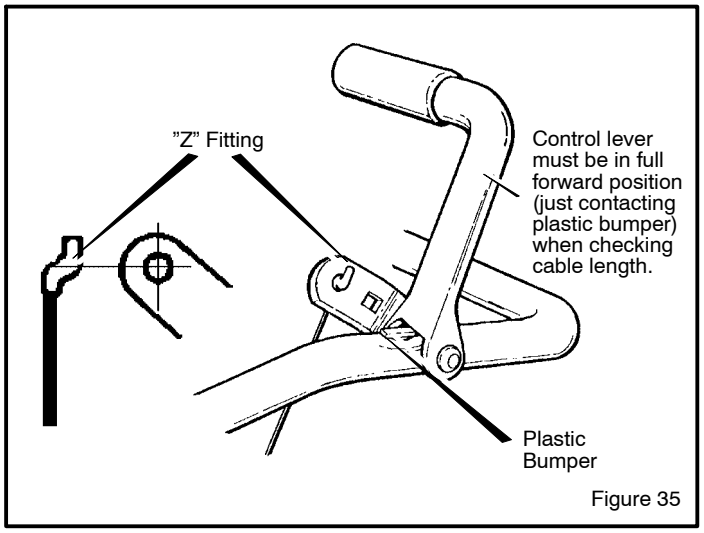


Figure 35

Auger Drive Cable Adjustment

WARNING: Drain the gasoline outdoors, away from fire or flame.

1. Remove the gas from the gas tank. Stand the snow thrower up on the front end of the auger housing.
2. Push cable through spring to expose the threaded portion of the cable (see Figure 36).
3. Hold square end of threaded portion with pliers and adjust locknut in or out until correct adjustment is reached. Pull cable back through spring and connect cable.

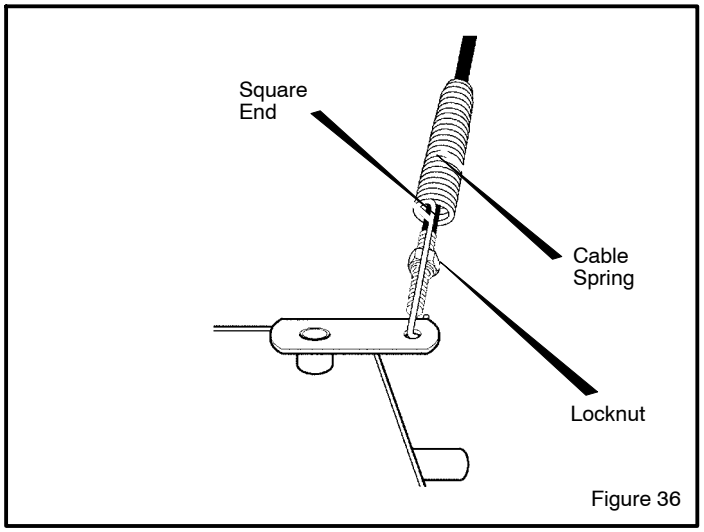


Figure 36

Traction Drive Cable Adjustment

WARNING: Drain the gasoline outdoors, away from fire or flame.

1. Remove the gas from the gas tank. Stand the snow thrower up on the front end of the auger housing.
2. Loosen the **bolts** on each side of the **bottom panel** (see Figure 37).
3. Remove the **bottom panel.**
4. Disconnect the **"Z" fitting** from the **drive lever** (see Figure 35)**.**
5. Slide the **cable boot** off the **cable adjustment bracket** (see Figure 38)**.**
6. Push the bottom of the **traction drive cable** through the **cable adjustment bracket** until the **"Z" hook** can be removed.
7. Remove the **"Z" hook** from the **cable adjustment bracket.** Move the **"Z" hook** down to the next adjustment hole.
8. Pull the **traction drive cable** up through the **cable adjustment bracket.**
9. Put the **cable boot** over the **cable adjustment bracket.**
10. Install the **"Z" hook** to the **traction drive lever** (see Figure 35)**.**
11. To check the adjustment, depress the drive lever and check the length of the **drive spring** (see Figure 39)**.** In correct adjustment, the length of the **drive spring** is
    minimum 3 inches (76 mm.)
    maximum 3-3/8 inches (85 mm.).
12. Install the **bottom panel** (see Figure 37).
13. Tighten the **bolts** on each side of the **bottom panel**.

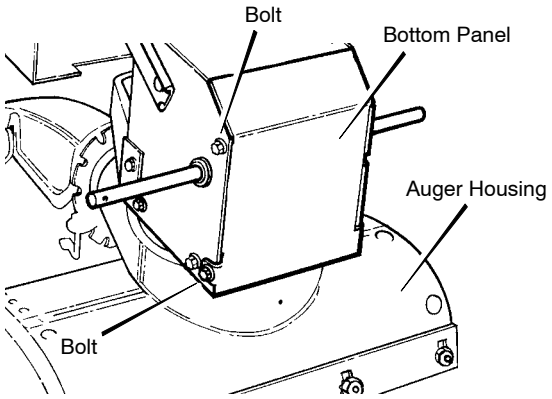


Figure 37

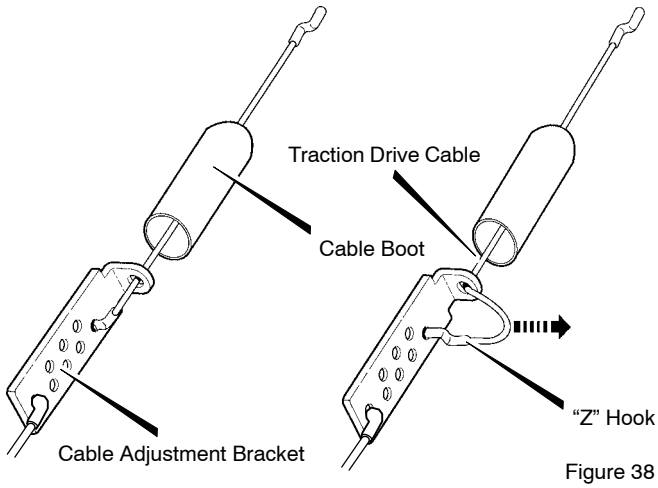


Figure 38

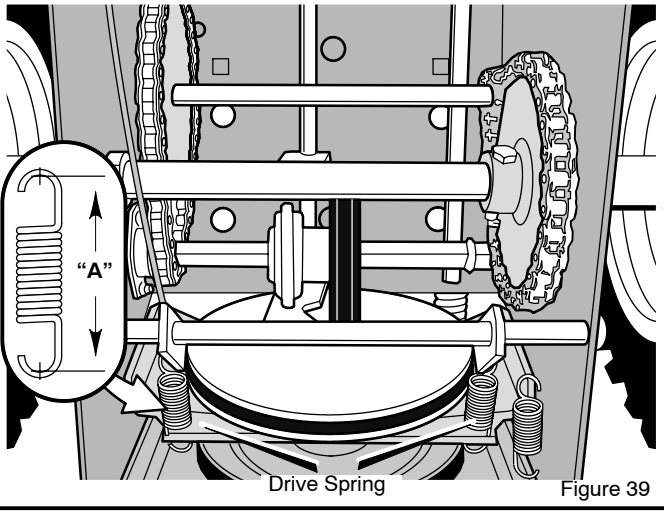


Figure 39

HOW TO ADJUST OR REPLACE THE FRICTION WHEEL

How To Check The Friction Wheel

If the snow thrower will not move forward, check the traction drive belt, the traction drive cable or the friction wheel. If the friction wheel is worn or damaged, it must be replaced. See "How To Replace the Friction Wheel" in this section. If the friction wheel is not worn or damaged, check as follows.

1. Remove the gas from the gas tank. Stand the snow thrower up on the front end of the **auger housing** (see Figure 40).

WARNING: Drain the gasoline outdoors, away from fire or flame.

2. Disconnect the spark plug wire.

3. Loosen the **bolts** on each side of the **bottom panel** (see Figure 40).

4. Remove the **bottom panel**.

5. Position the **shift speed lever** in the lowest forward speed.

6. Note the position of the **friction wheel** (see Figure 41)**.** The correct distance **"A"** from the right side of the **friction wheel** to the outside of the motorbox is as follows:

Tire Size	Distance "A"
12 and 13 inch	4-1/8" (10.5 cm.)
16 inch	4-5/16" (10.95 cm.)

If the **friction wheel** is not in the correct position, adjust as follows.

How To Adjust The Friction Wheel

1. Position the **shift speed lever** in the lowest forward speed.

2. Loosen the **bolts** on the **speed control rod** (see Figure 42).

3. Move the **friction wheel** against to the correct position (see Figure 41).

4. Tighten the **bolts** on the **speed control rod** (see Figure 42).

5. Install the **bottom panel** (see Figure 40).

6. Tighten the **bolts** on each side of the **bottom panel**.

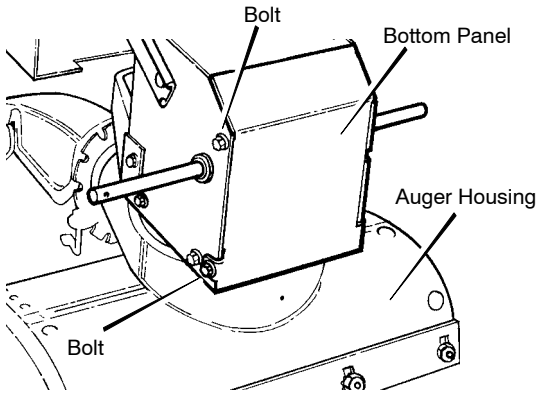


Figure 40

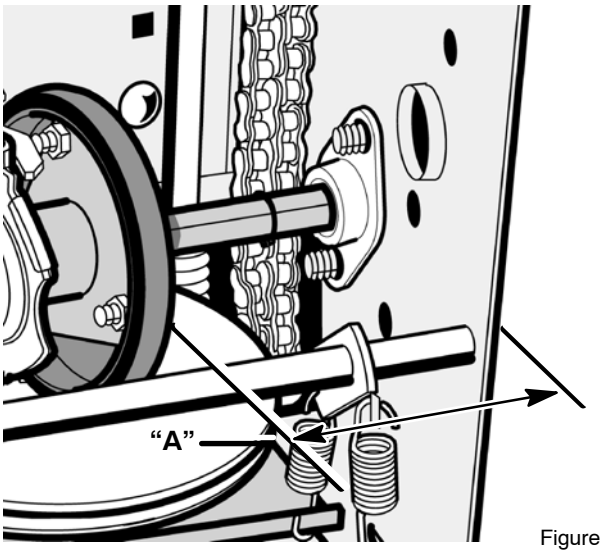


Figure 41

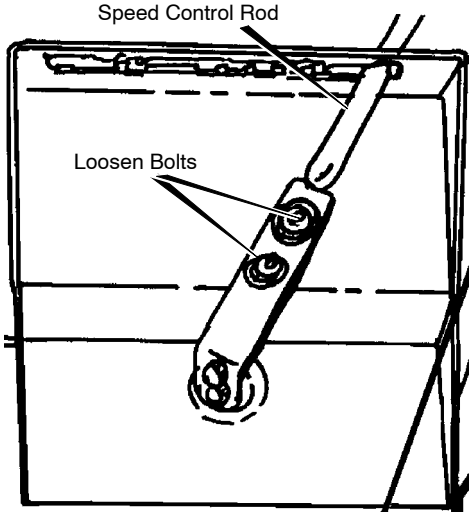


Figure 42

How To Replace The Friction Wheel

If the friction wheel is worn or damaged, the snow thrower will not move forward. The friction wheel must be replaced as follows.

1. Remove the gas from the gas tank. Stand the snow thrower up on the front end of the **auger housing (4)**. (see Figure 40).

WARNING: Drain the gasoline outdoors, away from fire or flame.

2. Disconnect the spark plug wire.

3. Remove the fasteners that secure the left **wheel.** Remove the **left wheel** from the **axle** (see Figure 43)

4. Loosen the **bolts** on each side of the **bottom panel**.

5. Remove the **bottom panel**.

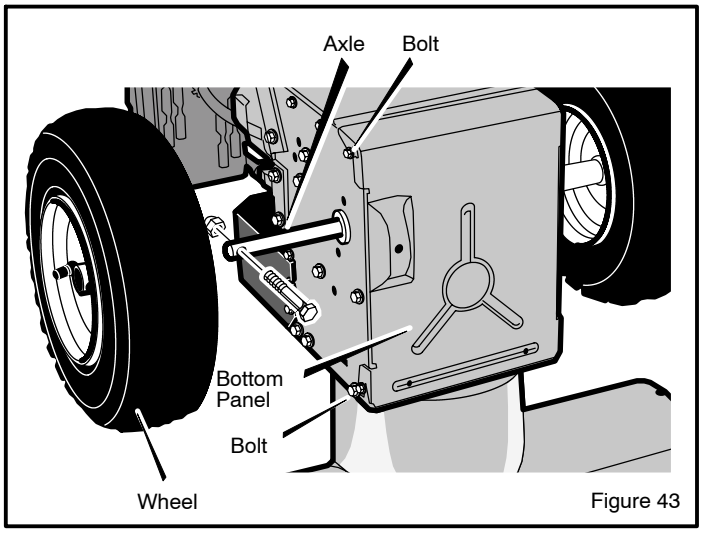


Figure 43

6. Remove the fasteners that secure the **drive sprocket** to the **axle** (see Figure 44).

7. Remove the right wheel, **axle,** and **drive sprocket.**

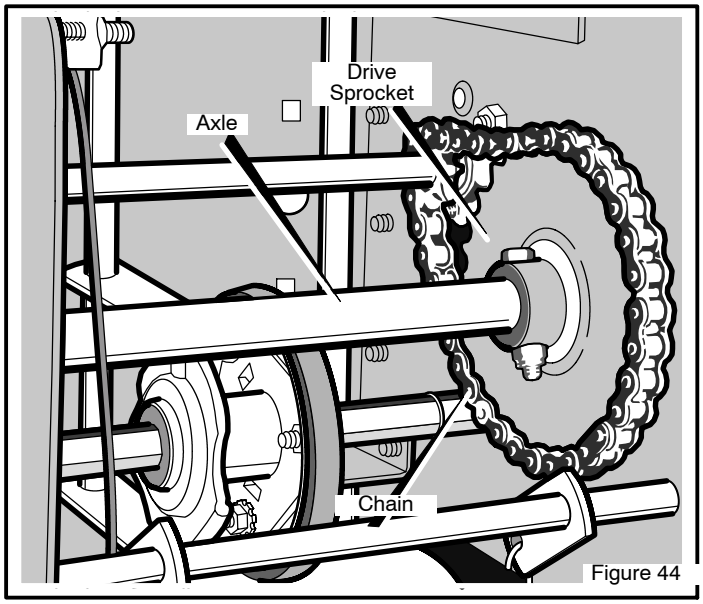


Figure 44

8. Remove the four **bolts** that hold the **bearings** on each side of the **hex shaft** (see Figure 45).

9. Remove the **hex shaft** and **bearings.**

NOTE: Take special note of the position of the washers on the hex shaft.

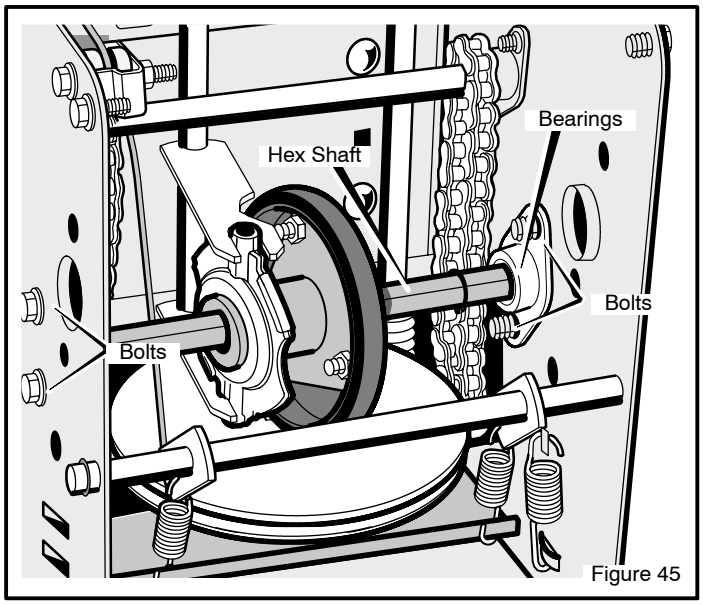


Figure 45

10. Remove the three **fasteners** that hold the **friction wheel** to the **hub** (see Figure 46).

11. Remove the **friction wheel** from the **hub**. Slip the **friction wheel** off the **hex shaft.**

12. Assemble the new **friction wheel** onto **hub** with the fasteners removed earlier.

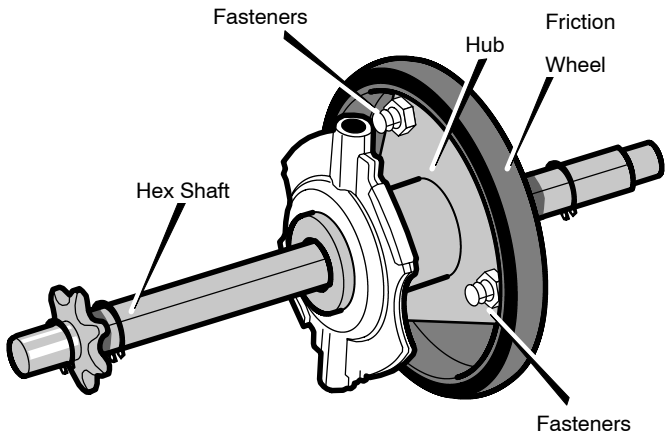


Figure 46

13. Install the **hex shaft** and **bearings** with the four bolts removed earlier (see Figure 47).

    Make sure the washers are properly installed in the original position. Also, make sure the two washers are properly aligned with the actuator arms.

14. Make sure the **hex shaft** turns freely.

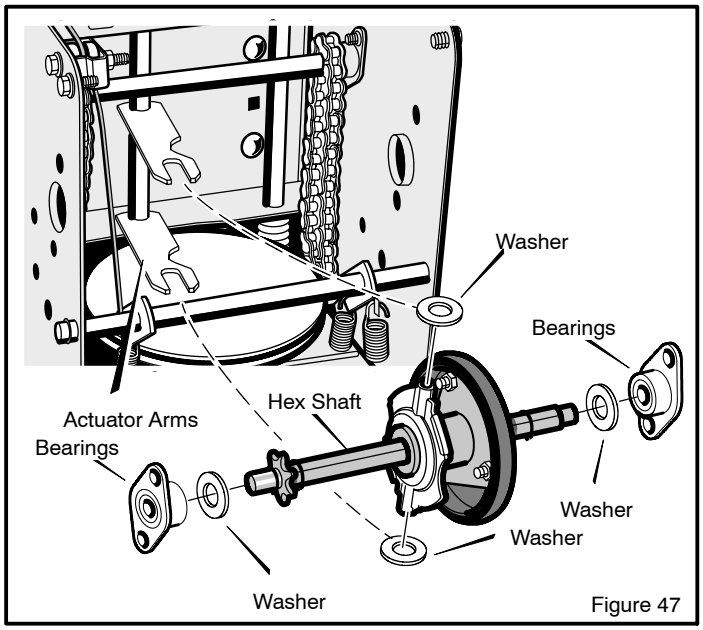


Figure 47

15. Install the right wheel, **axle,** and **drive sprocket** with the fasteners removed earlier. Install the **chain** onto the **drive sprocket** (see Figure 44).

16. Check the adjustment of the friction wheel. See “How To Adjust The Friction Wheel” in this section.

17. Make sure the friction wheel and the disc drive plate are free from grease or oil.

18. Install the **bottom panel** (see Figure 43).

19. Tighten the **bolts** on each side of the **bottom panel**.

20. Install the **left wheel** to the **axle** with the fasteners removed earlier.

21. Connect the spark plug wire.

AUGER SHEAR BOLT REPLACEMENT

The augers are secured to the auger shaft with special bolts that are designed to break if an object becomes lodged in the auger housing. Use of a harder bolt will reduce the protection provided by the shear bolt. To replace a broken shear bolt, proceed as follows:

WARNING: To insure safety and performance levels, only original replacement shear bolts should be used.

1. Stop engine, disengage all controls, disconnect the spark plug lead wire, and insure all moving parts have stopped.
2. Align the hole in the auger with the hole in the auger shaft. Install new shear bolt, spacer and locknut found in the toolbox located on the belt cover (See Figure 48). Tighten with the shear bolt wrench.

NOTE: For the operator's convience, the shear bolt wrenches are located in the toolbox.

NOTE: The spacer fits into the larger hole in the auger tube.

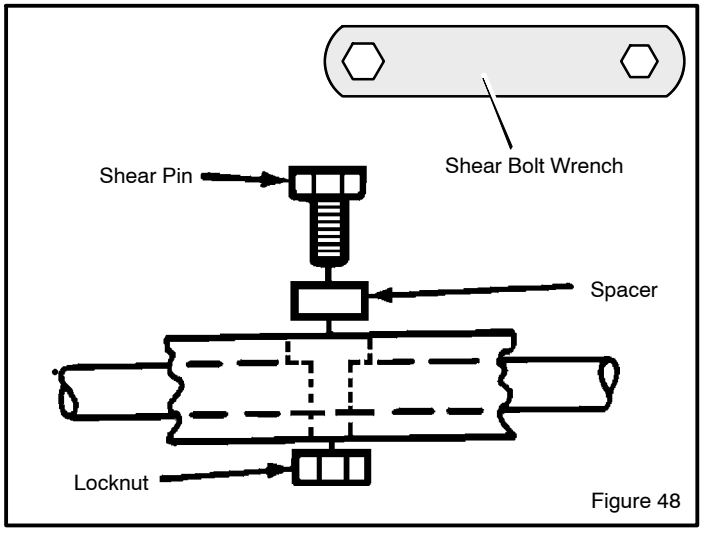


Figure 48

SPARK PLUG ADJUSTMENT (SEE FIGURE 49)

NOTICE: This spark ignition system meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Check the **spark plug** every twenty-five (**25**) hours. Replace the **spark plug** if the electrodes are pitted or burned, if the porcelain is cracked, or every **100** hours of use.

1. Clean spark plug and reset gap periodically.
2. Clean area around spark plug base before removal, to prevent dirt from entering engine.
3. Replace spark plug if electrodes are pitted or burned or if porcelain is cracked.
4. Clean spark plug by carefully scraping electrodes (do not sandblast or use wire brush).
5. Be sure spark plug is clean and free of foreign material. Check electrodes gap with a wire feeler gauge and reset gap to 0.030" (0.76 mm) if necessary. If a new spark plug is needed, refer to Engine Repair Parts section of this manual for proper replacement spark plug.
6. Before installing spark plug, coat threads lightly with graphite grease to insure easy removal.
7. Tighten plug firmly into engine. If torque wrench is available, torque plug to 18-23 ft-lbs.

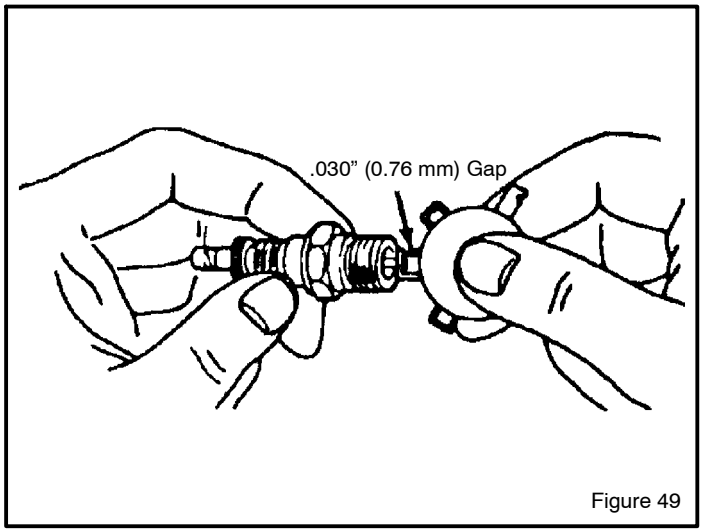


Figure 49

STORAGE

OFF SEASON STORAGE

WARNING: Never store engine with fuel in tank indoors or in enclosed, poorly ventilated enclosures, where fuel fumes may reach an open flame, spark or pilot light as on a furnace, water heater, clothes dryer, etc.
Handle gasoline carefully. It is highly flammable and careless use could result In serious fire damage to your person and /or property.

If the snow blower is to be stored for thirty (30) days or more at the end of the snow season, the following steps are recommended to prepare your snow blower for storage.

NOTE: Gasoline must be removed or treated to prevent gum deposits from forming in the tank, filter, hose, and carburetor during storage.

1. To remove gasoline, run engine until tank is empty and engine stops.

If you do not want to remove gasoline use the fuel stabilizer supplied with unit. Add fuel stabilizer (follow instructions on fuel stabilizer package) to any gasoline left in the tank to minimize gum deposits and acids. If the tank is almost empty, mix stabilizer with fresh gasoline in a separate container and add some to the tank. ALWAYS FOLLOW INSTRUCTIONS ON STABILIZER CONTAINER. THEN RUN ENGINE AT LEAST 10 MINUTES AFTER STABILIZER IS ADDED TO ALLOW MIXTURE TO REACH CARBURETOR. STORE SNOW BLOWER IN SAFE PLACE.

2. You can help keep your engine in good operating condition by changing oil before storage.
3. Remove the spark plug and pour about 15 ml (1/2 oz) of engine oil into the cylinder. Replace the spark plug and crank slowly to distribute the oil.
4. Thoroughly clean the snow blower.
5. Lubricate all lubrication points (see Lubrication, see Customer Responsibilities).
6. Insure that all nuts, bolts, and screws are securely fastened. Inspect all visible moving parts for damage, breakage, and wear. Replace if necessary.
7. Touch up all rusted or chipped paint surfaces; sand lightly before painting.
8. Cover the bare metal parts of the blower housing auger, and the impeller with rust preventative.
9. If possible, store your snow blower indoors and cover it to give protection from dust and dirt.
10. Store in a clean and dry area, but NOT near a stove, furnace or water heater which uses a pilot light or any device that can create a spark.
11. If the machine must be stored outdoors, block up the snow blower and insure the entire machine is off the ground. Cover the snow blower with a heavy tarpaulin.

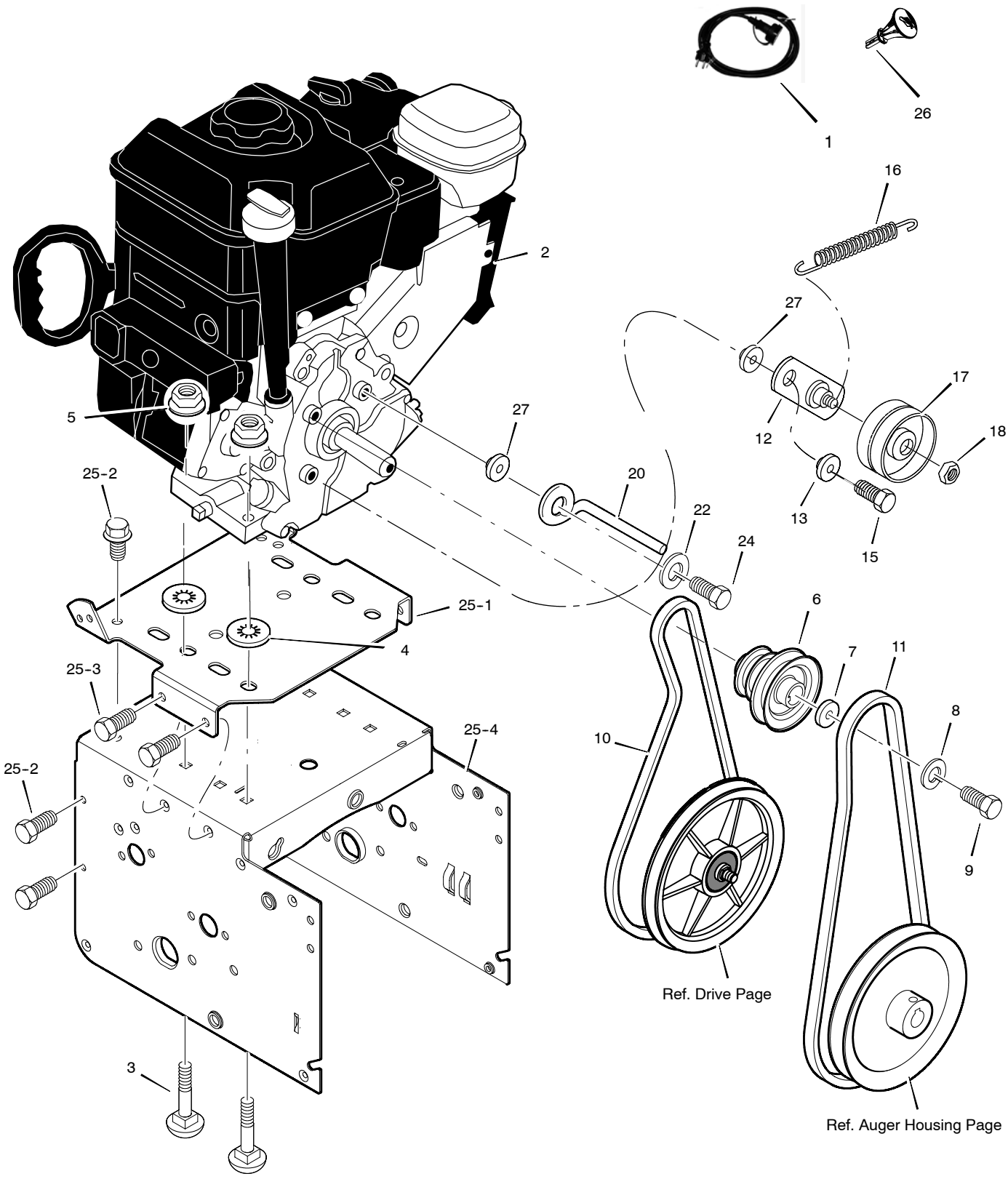
TROUBLE SHOOTING CHART

PROBLEM	LOOK FOR	REMEDY
Difficult starting	Defective spark plug.	Replace defective spark plug.
Engine runs erratically	Blocked fuel line.	Clean fuel line.
	Empty gas tank.	Check fuel supply,
	Stale gasoline.	Add fresh gasoline with fuel stabilizer.
	Water or dirt in fuel system.	Remove carburetor bowl to drain fuel tank. Refill with fresh fuel. **CAUTION: Do not remove carburetor bowl when the engine is hot.**
Engine stalls	Unit running on CHOKE.	Set choke lever to RUN position.
Loss of power	Gas cap vent hole is plugged.	Remove ice and snow from cap. Be sure vent hole is clear.
Excessive vibration	Loose parts or damaged impeller.	Stop engine immediately and remove spark plug wire. Tighten all bolts and make all necessary repairs. If vibration continues, have the unit serviced by a competent repairman.
Unit fails to propel itself	Drive belt loose or damaged.	Replace drive belt. Refer to **Drive Belt Replacement** in **Adjustments**/**Repairs** section of this manual.
	Incorrect adjustment of traction drive cable.	Adjust traction drive cable. Refer to **Cable Adjustment** in **Adjustments**/**Repairs** section of this manual.
	Worn or damaged friction disc.	Replace friction disc. Refer to **Friction Wheel Replacement** in **Adjustments**/**Repairs** section of this manual.
Unit fails to discharge snow	Auger drive belt loose or damaged.	Replace or adjust auger drive belt. Refer to **Drive Belt Replacement** and **Drive Belt Adjustment** in **Adjustments**/**Repairs** section of this manual.
	Auger control cable not adjusted correctly.	Adjust auger control cable. Refer to **Cable Adjustment** in **Adjustments**/**Repairs** section of this manual.
	Broken shear bolt.	Replace shear bolt. Refer to **Auger Shear Bolt Replacement** in **Adjustments**/**Repairs** section of this manual.
	Discharge chute clogged.	Stop engine immediately and disconnect spark plug wire. Refer to the first **Warning** in **Snow blower Operation** in **Operation** section of this manual. Clean discharge chute and inside of auger housing.
	Foreign object lodged in auger.	Stop engine immediately and disconnect spark plug wire. Refer to the **third Warning** in **Snow blower Operation** in **Operation** section of this manual. Remove object from auger.

Identifying Your Snow blower

Your new Snow blower has two (2) identifying numbers: (1) unit model number: (2) unit serial number. The two preceding numbers are required to insure that the proper replacement parts are obtained when required. If you have any questions concerning parts, service, or technical data, contact your nearest Sears Service Department.
For complete warranty information refer to the warranty in the Owner's Information section of this manual.

NOTES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26
16
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25-3
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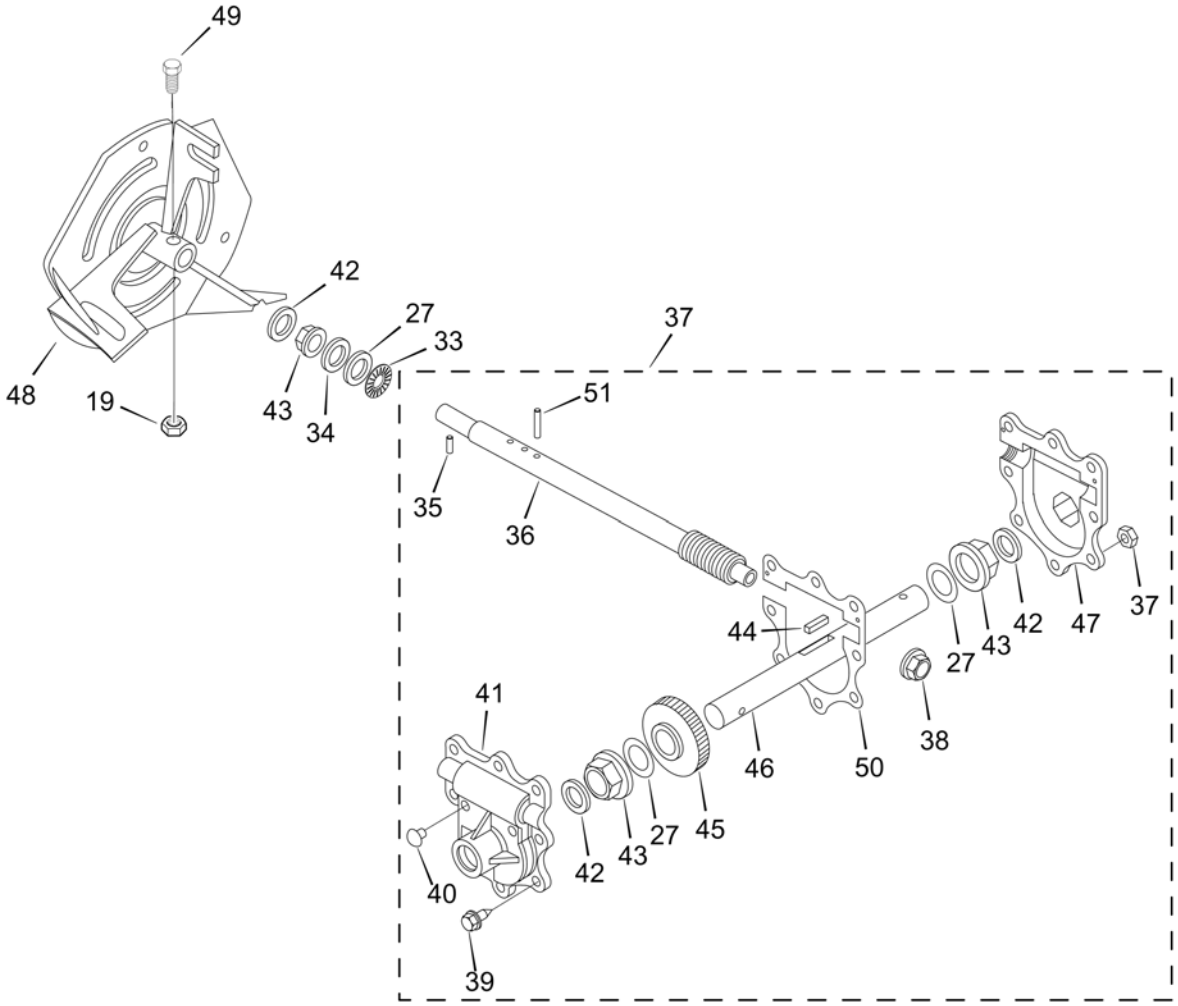
25-2
9
Ref. Drive Page
3
Ref. Auger Housing Page

Key No. Nº sur le schéma	Part No. Nº de pièce	Description	Description
1	198563	CORD, STARTER	CORDE D MARREUR
2	12A113-0350-E1	ENGINE	MOTEUR
3	198539	BOLT, CARRIAGE 5/16-18	BOULON, PO. 5/16-18
4	198540	RETAINER, PUSH	RONDELLE DE RETENUE
5	198541	NUT 5/16-18	ECROU 5/16-18
6	198542	PULLEY, ENGINE	POULIE MOTRICE DOUBLE
7	400026	WASHER	RONDELLE
8	850263	WASHER	RONDELLE-FREIN DI .38
9	851084	SCREW, 3/8-24X1.00	VIS, 3/8-24X1.00
10	198546	BELT, V 3L	COURROIE TRAPEZOID. V 3L
11	400043	BELT, V 4L	COURROIE TRAPEZOID. V 4L
12	198558X008	BRACKET ASSEMBLY, IDLER	PATTE DE FIXATION, POULIE LIBRE
13	198559	BUSHING, IDLER BRACKET	ENTRETOISE, FIXATION DE POULIE LIBRE
15	74810516	SCREW 5/16-24 X 0.75	VIS 5/16-24 X 0.75
16	198560	SPRING	RESSORT
17	198561	PULLEY, IDLER	PULLIE LIBRE
18	198562	NUT, JAM 3/8-16	CONTRE-ECROU 3/8-16
20	198555	GUIDE, ROD BELT	GUIDE DE COURROIE
22	10040500	WASHER, SPTLK .31X.58X.08	RONDELLE-FREIN .31X.58X.08
24	74610516	SCREW, 5/16-24X 0.75	VIS 5/16-24X 0.75
25	- - - - - - -	FRAME ASSEMBLY	CHASSIS DE MONTAGE, MOTEUR
25-1	19878X613	PLATE, ENGINE MOUNT	PLAQUE DE MONTAGE, MOTEUR
25-2	198574	SCREW 1/4-20 X .63	VIS 1/4-20 X .63
25-3	198584	SCREW 5/16-18 X .50	VIS 5/16-18 X .50
25-4	198813X613	FRAME, MOTOR BOX	SUPPORT DE MONTAGE, MOTEUR
26	193071	KEY, IGNITION	CLÈ
27	59289	DEFLECTOR, MUFFLER	DÉFLECTEUR DE SILENCIEUX
--	408569	OWNER’S MANUAL	MANUEL D’UTILISATION

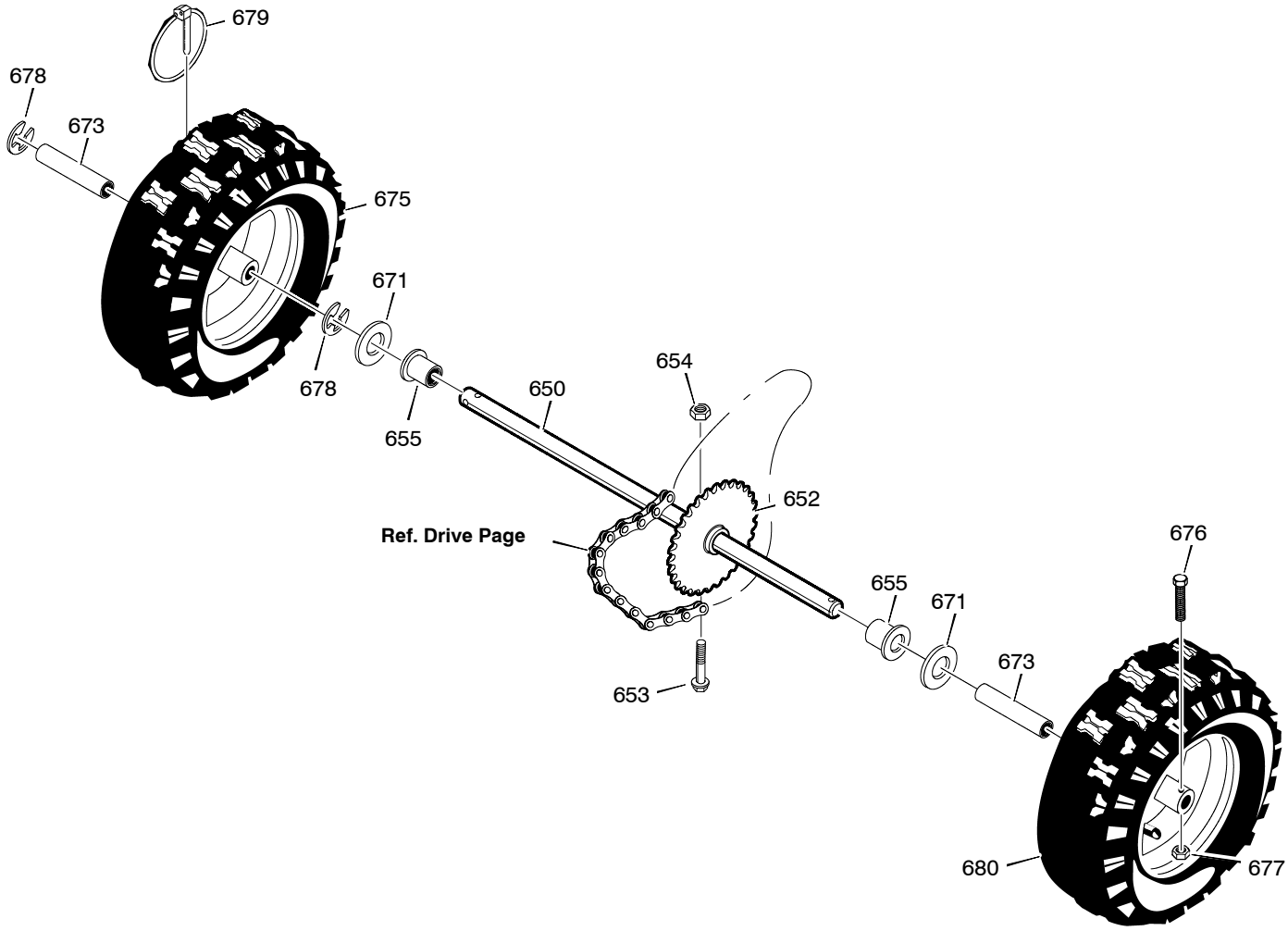
GEAR CASE



Key No.	Part No.	Description
19	73800400	NUT, HEX LOCK 1/4-20
27	404953	WASHER, FLAT
32	404955	NUT,1/4-20
33	404956	COLLAR,THRUST
34	174684	WASHER, THRUST
35	404957	PIN,SPRING
36	404948	SHAFT, AUGER INPUT (IMPELLER)
37	404944	GEARCASE,COMPLETE
38	404961	BUSHING, FLANGE
39	404954	BOLT 1/4-20 x 3/4
40	B6447	PLUG

Key No.	Part No.	Description
41	404965	HOUSING, GEARCASE, RH
42	404959	SEAL, OIL
43	404960	BEARING, FLANGE
44	404952	KEY, WOODRUFF #605
45	404962	GEAR, WORM
46	404946	SHAFT, AUGER OUTPUT
47	404964	HOUSING, GEARCASE, LH
48	405027X479	IMPELLER
49	74780426	SCREW
50	404950	GASKET, GEARCASE
51	7B36M	PIN, ROLL

WHEELS

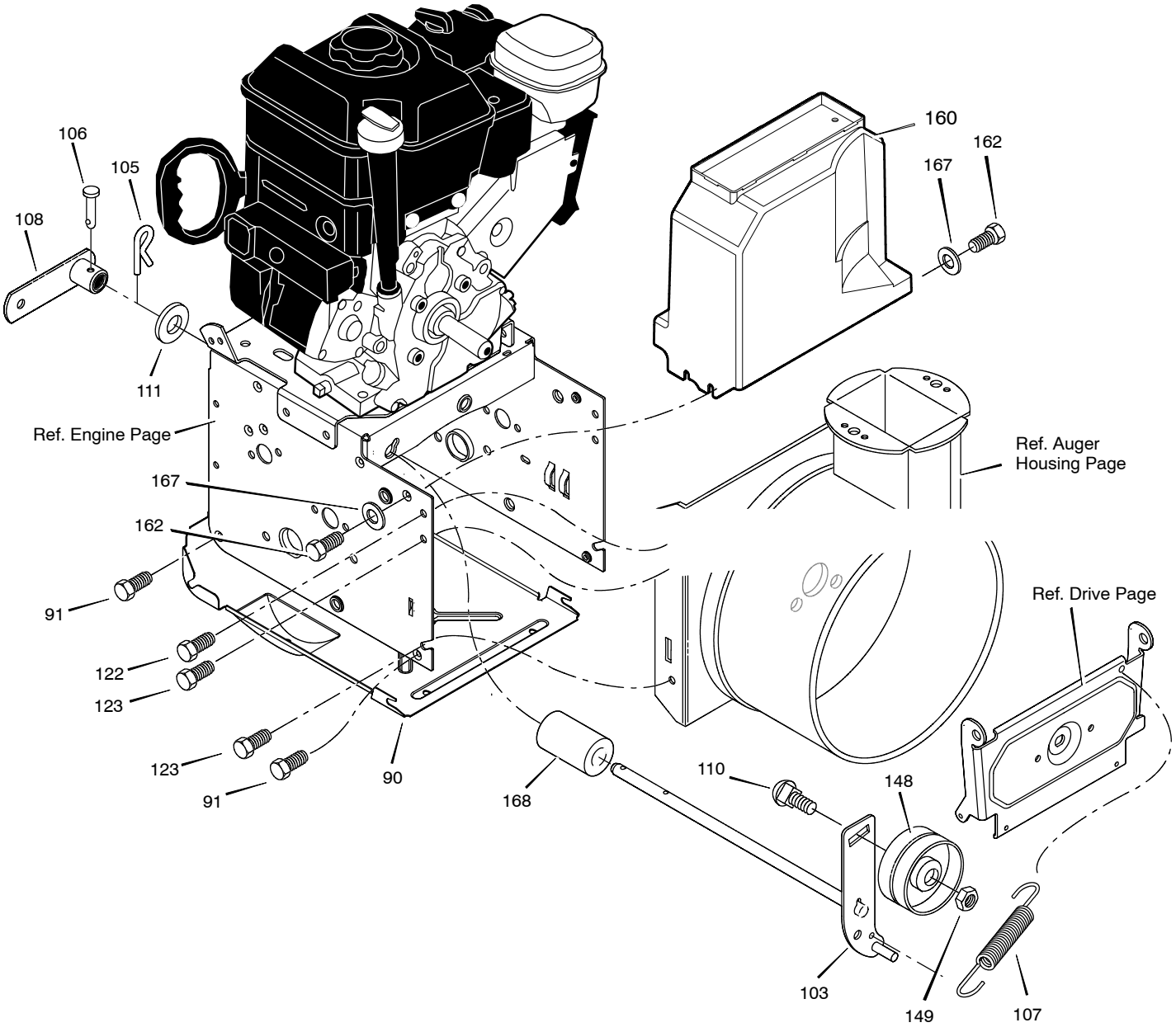


Key No.	Part No.	Description
650	199039X008	SHAFT, AXLE
652	198679	SPRKT & HUB
653	198667	SCREW, 1/4-20 x 1.75
654	73800400	NUT, 1/4-20 HEX NYLOCK
655	198680	BEARING, AXLE
671	400025	FLATWASHER
673	1199040	BUSHING, WHEEL
675	405067X417	TIRE & RIM, RIGHT
676	198674	SCREW, 1/4-20X1.75 HH
677	73800400	NUT, 1/4-20 HEX NYLOCK
678	198675	RING, RET
679	155443	PIN, KLIK .25 X 1.38 DIA
680	405066X417	TIRE & RIM, LEFT

CRAFTSMAN 24” SNOW BLOWER 944-526051
CRAFTSMAN 24” CHASSE- NEIGE 944-526051

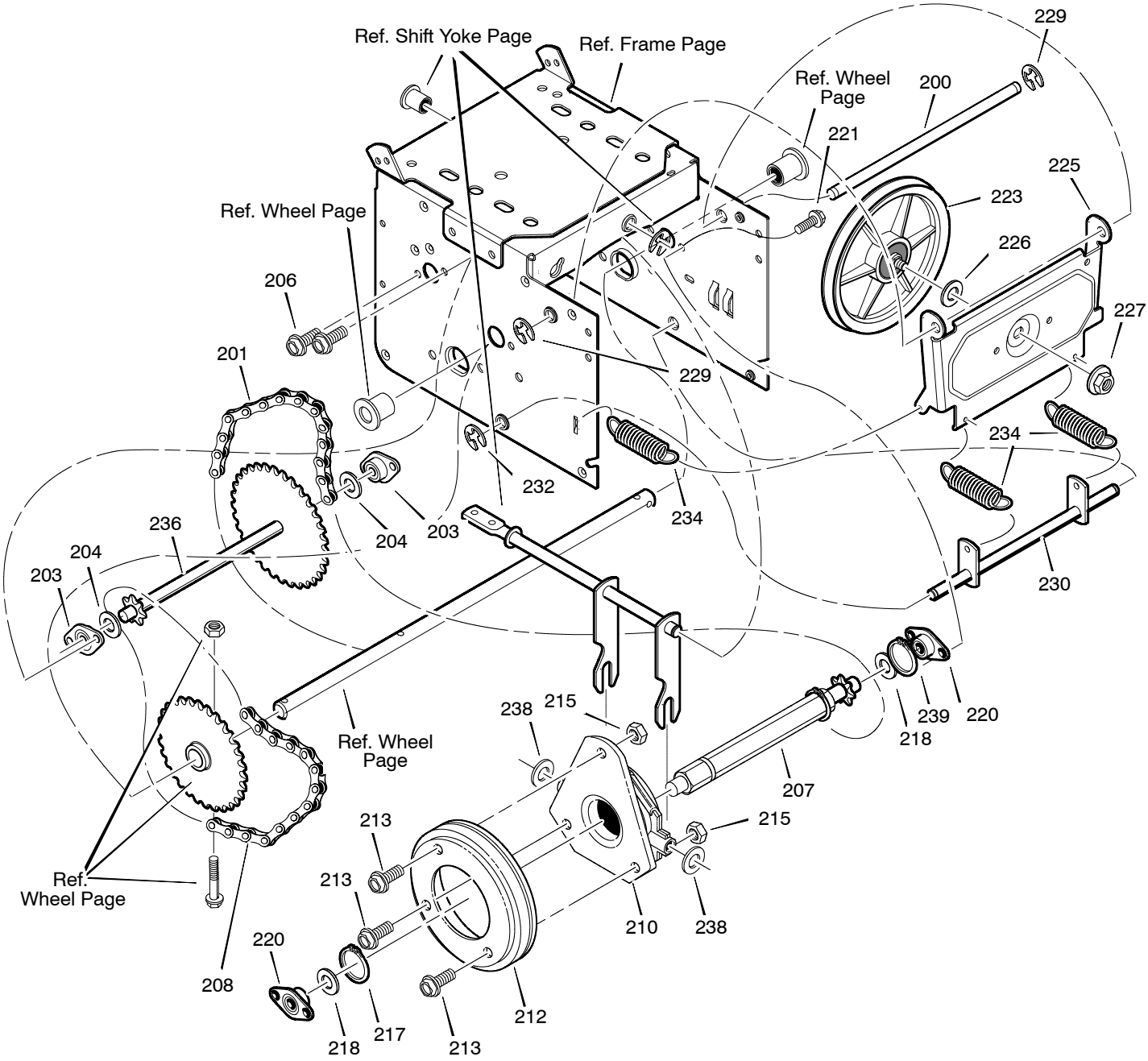
REPAIR PARTS
PIÈCES DE RECHANGE

FRAME / BÂTI



Key No. Nº sur le schéma	Part No. Nº de pièce	Description	Description
90	198573x479	COVER, BOTTOM	PANNEAU INFERIEUR
91	198574	SCREW, 1/4-20X .63	VIS 1/4-20X .63
103	406663x008	IDLER ASSEMBLY, AUGER	BRAS DE POULIE LIBRE. ENTRAINEMENT DES LAMES
105	198676	PIN, HAIR .38DIAX1.64LG	GOUPILLE BETA
106	198580	PIN, CLEVIS 3/16” DIA	GOUPILLE
107	400024	SPRING, TENSION	RESSORT DE TENSION
108	405484	ASSY., SPRING ATTACH	PATTE DE FIXATION POUR RESSORT
110	72110612	BOLT, 3/8-16X1.25 CARR.	BOULON BLOQUANT 3/8-16X1.25
111	198578	WASHER, FLAT	RONDELLE PLATE
122	1498684	SCREW, TAP 5/16-18 X .50	VIS 5/16-18 X .50
123	198585	SCREW, TAP 5/16-18 X .75	VIS 5/16-18 X .75
148	198561	PULLEY, IDLER	PJLLIE LIBRE
149	73930600	NUT, JAM 3/8-16	CONTRE-ÉCROU 3/8-16
160	407092x428	COVER, BELT	CARTER DES COURROIES
162	405024	SCREW, TAP	VIS
167	198592	WASHER, FLAT	RONDELLE PLATE
168	198581	SPACER, AUGER BRACKET	ENTRETOISE, FIXATION DES LAMES CHASSE-NEIGE

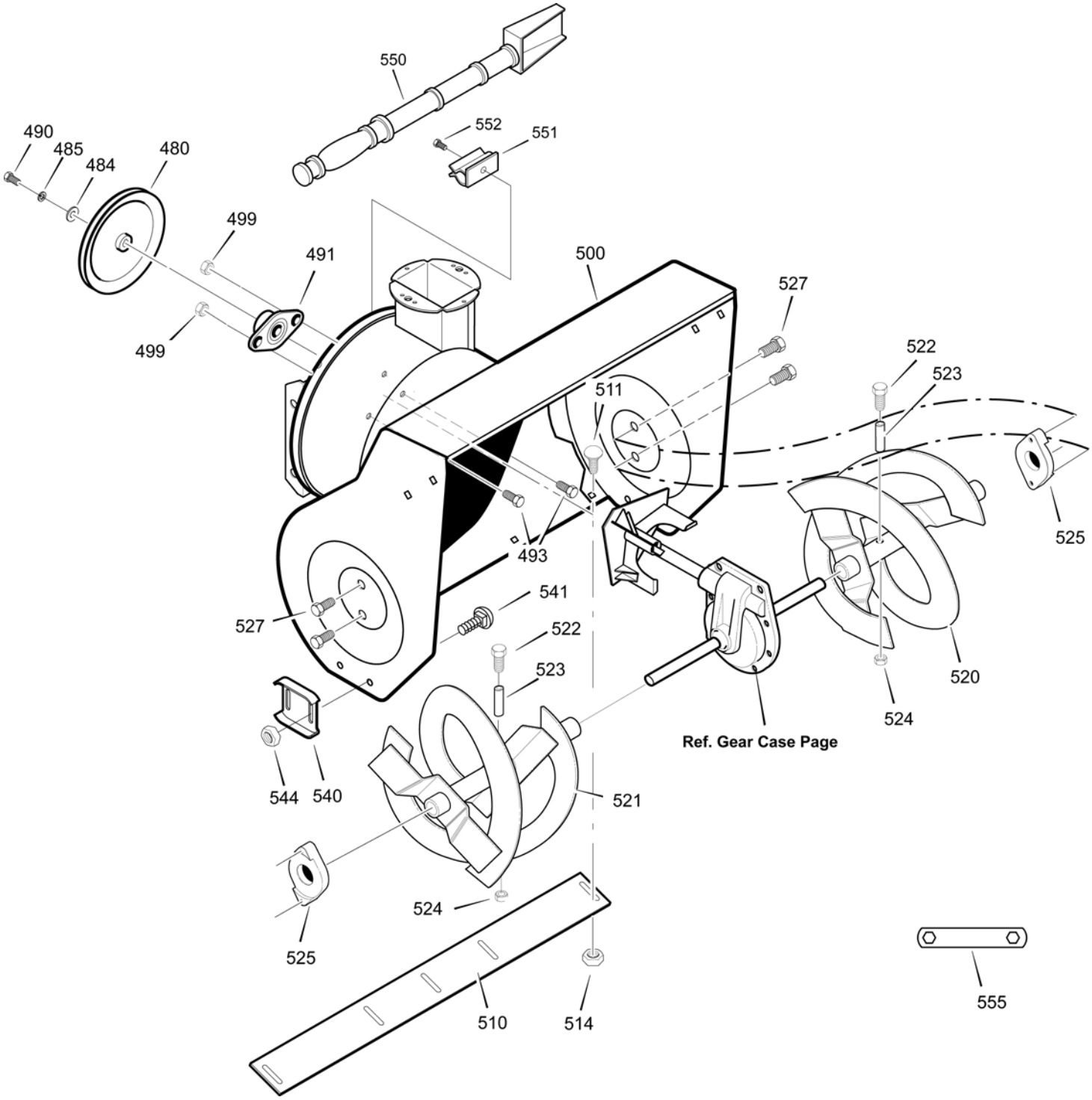
DRIVE / BÂTI DE MONTAGE DU MOTEUR



DRIVE / BÂTI DE MONTAGE DU MOTEUR

Key No. Nº sur le schéma	Part No. Nº de pièce	Description	Description
200	198800X008	LF AXLE, SWING PLATE YZ	PANNEAU ARTICULE
201	579851	CHAIN, ROLLER #420 x19.00	CHAÎNE A GALETS #420 x19.00
203	198591	BEARING AND RETAINER, ASSY	ROULEMENT AVEC FIXATION
204	198592	WASHER	RONDELLE
206	198584	SCREW, TAP 5/16-18x0.5	VIS, 5/16-18x0.5
207	406789	ASSY, HEX SHAFT	ARBRE HEXAGONAL
208	198596	CHAIN, ROLLER #420 x18.00 LG	CHAINE A GALETS #420 x18.00 LG
210	198819	BEARING, TRUNION CLUTCH R	PALIER
212	198820	WHEEL, FRICTION DISC	ROUE DE FRICTION
213	198822	BOLT	BOULON
215	73800400	NUT, KEPS HEX 1/4-20	ECROU 6 PANS 1/4-20
217	405538	RING, RETEXT	CIRCLIP
218	198592	WASHER	RONDELLE
220	198591	BEARING AND RETAINER, ASSY	ROULEMENT AVEC FIXATION
221	198684	SCREW, TAP 5/16-18 x .5	VIS, 5/16-18 x .5
223	198808	ASSY, FRICTION PULLEY	POULIE, SYSTEME DE FRICTION
225	198792X008	LF PLATE, SWINGING YZ	PANNEAU ARTICULE
226	1501158	SPACER, FRICTION PULLEY	ENTRETOISE DE POULIE, SYSTEME DE FRICTION
227	73040800	NUT, FLANGE LOCK 3/8-24	ECROU A COLLET 3/8-24
229	198945	RETAINER, RING	CIRCLIP
230	198594X008	LF ASSY, SPRING LINK YZ	TRINGLE D’ATTACHE DES RESSORTS
232	198945	RETAINER, RING	CIRCLIP
234	198597	SPRING, EXTENSION	RESSORT D’EXTENSION
236	401301	WLD, INTERMED SPROCKET 33T/7	PIGNON INTERMEDIAIRE 33T/7
238	198599	WASHER, FLAT	RONDELLE PLATE
239	198945	RING,RETAINER(5100-50)	CIRCLIP

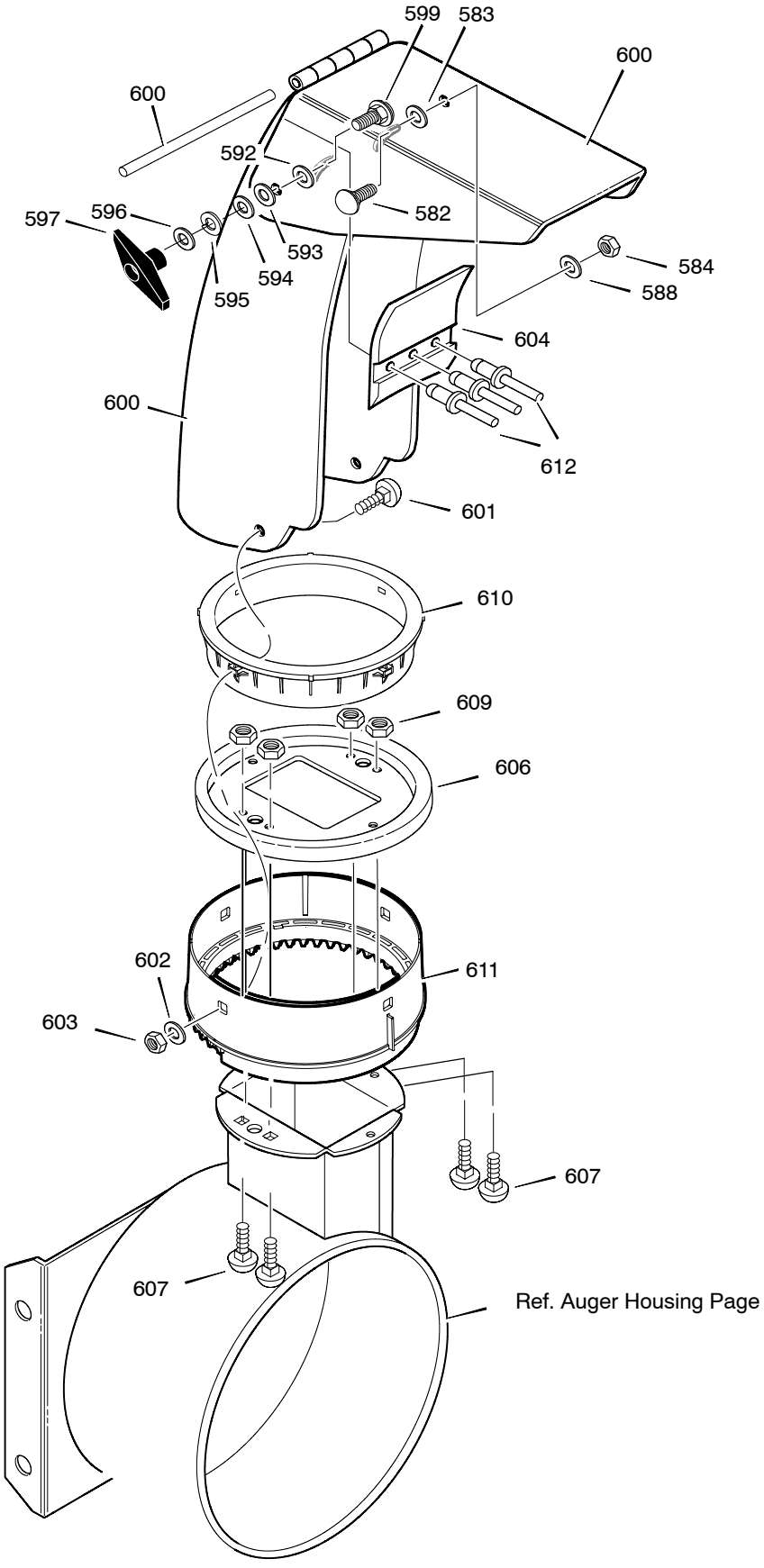
AUGER HOUSING / VIS SANS FIN



AUGER HOUSING / VIS SANS FIN

Key No. Nº sur le schéma	Part No. Nº de pièce	Description	Description
480	45011	PULLEY, 4L 6.12X .67	POULIE 4L 6.12X .67
490	74950512	SCREW, 5/16-18X.63	VIS 5/16-18X.63
484	19111507	WASHER, FLAT	ROUNDELLE PLATE
485	10040500	LOCKWASHER 5/16	ENTRETOISE DE POULIE
491	188909	BEARING, BALL	ROULEMENT À BILLES
493	199879	BOLT, HEX 5/16-18X .50	BOULON 6 PANS 5/16-18X .50
499	198541	NUT, 5/16-18 HEXWDFLLK	ECROU 6 PANS 5/16-18
500	405677X613	HOUSING, ASSY	CARTER DES LAMES CHASSE-NEIGE
510	199045X479	BLADE, SCRAPER 24”	LAME RACLEUSE 24”
511	198634	BOLT, 5/16-18x0.62	BOULON 5/16-18x0.62
514	400100	NUT, 5/16-18	ECROU, 5/16-18
520	408508X479	AUGER, ASSY, LH	LAME CHASSE-NEIGE (VIS SANS FIN), GAUCHE
521	408507X479	AUGER, ASSY, RH	LAME CHASSE-NEIGE (VIS SANS FIN), DROITE
522	198636	SCREW, 1/4-20X1.75	VIS 1/4-20X1.75
523	198638	SPACER, SLEEVE	ENTRETOISE
524	73800400	NUT, 1/4-20	ECROU 1/4-20
525	405535	BEARING, FLANGE	PALIER A BRIDE
527	179582	SCREW, 5/16-18X .75	VIS 5/16-18X .75
540	400039X479	SKID, HEIGHT ADJUST	PATIN REGLABLE
541	198648	BOLT, 5/16-18 X .75	BOULON 5/16-18 X .75
544	198541	NUT, 5/16-18	ECROU 5/16-18
550	192199	BRUSH, CLEANOUT	POIGNEE
551	405400	CLIP, RETAINER	PINCE
552	194189	SCREW	VIS
555	401351X007	WRENCH	CLÉ

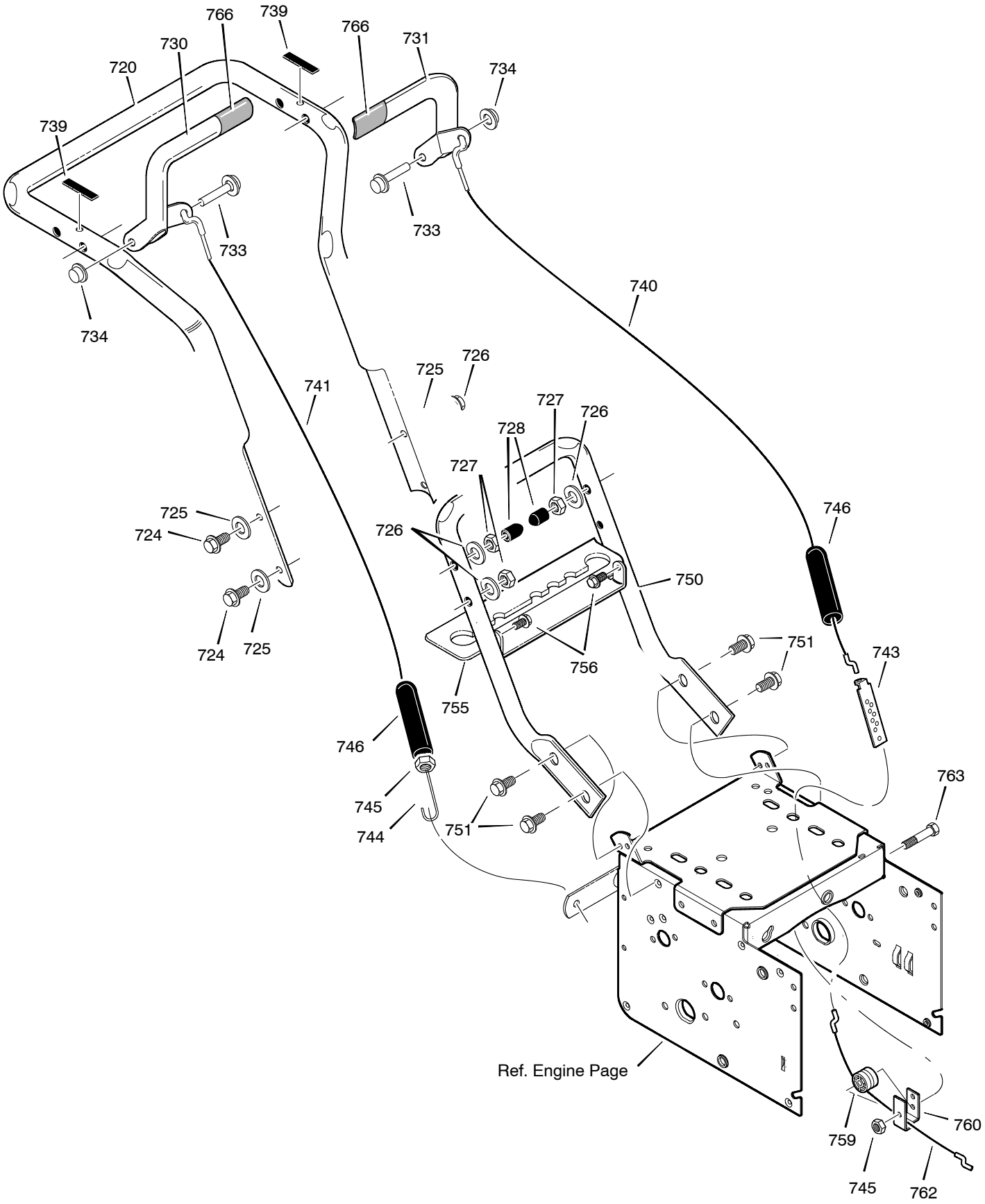
DISCHARGE CHUTE / DÉFLECTEUR DE GOULOTTE



DISCHARGE CHUTE / DÉFLECTEUR DE GOULOTTE

Key No. Nº sur le schéma	Part No. Nº de pièce	Description	Description
582	198648	BOLT, CARRIAGE 5/16-18 X.75	BOULON AUTOBLOQUANT 5/16-18X.75
583	401347	WASHER, PLASTIC	RONDELLE PLASTIQUE
584	73800500	NUT, 5/16-18 REGHEX NYLOCK	ECROU 6 PANS 5/16-18 REGHEX NYLOCK
588	198726	WASHER, PLASTIC	RONDELLE PLASTIQUE
593	198726	WASHER, PLASTIC	RONDELLE PLASTIQUE
594	198662	WASHER, FLAT	RONDELLE PLATE
595	198552	WASHER, SPLIT	RONDELLE-FREIN
596	198662	WASHER, FLAT	RONDELLE PLATE
597	198851	KNOB, T 3.00	POIGNEE T 3.00
599	198539	BOLT, 5/16-18X1.00	BOULON 5/16-18X1.00
600	401339X479	CHUTE ASSEMBLY	ENSEMBLE DEVERSOIR
601	198661	BOLT, 5/16-18 X1.00	BOULON 5/16-18X1.00
602	198662	WASHER, FLAT	RONDELLE PLATE
603	73800500	NUT, 5/16-18 HEXNYL	ECROU 6 PANS 5/16-18 HEXNYL
604	401340	FLAP, CHUTE	BAVETTE DE DEVERSOIR
606	198850X006	CHUTE COLLAR	COUVERCLE DE COURONNE DE DEVERSOIR
607	198634	SCREW, 1/4-20 X 0.75	VIS 1/4-20 X 0.75
609	198637	NUT, 1/4-20 HEX NYLOCK	ECROU 6 PANS 1/4-20 NYLOCK
610	198831	RETAINER RING INNER	COURONNE INTERNE
611	198833	RETAINER RING OUTER	COURONNE EXTERNE
612	178775	RIVET	RIVET

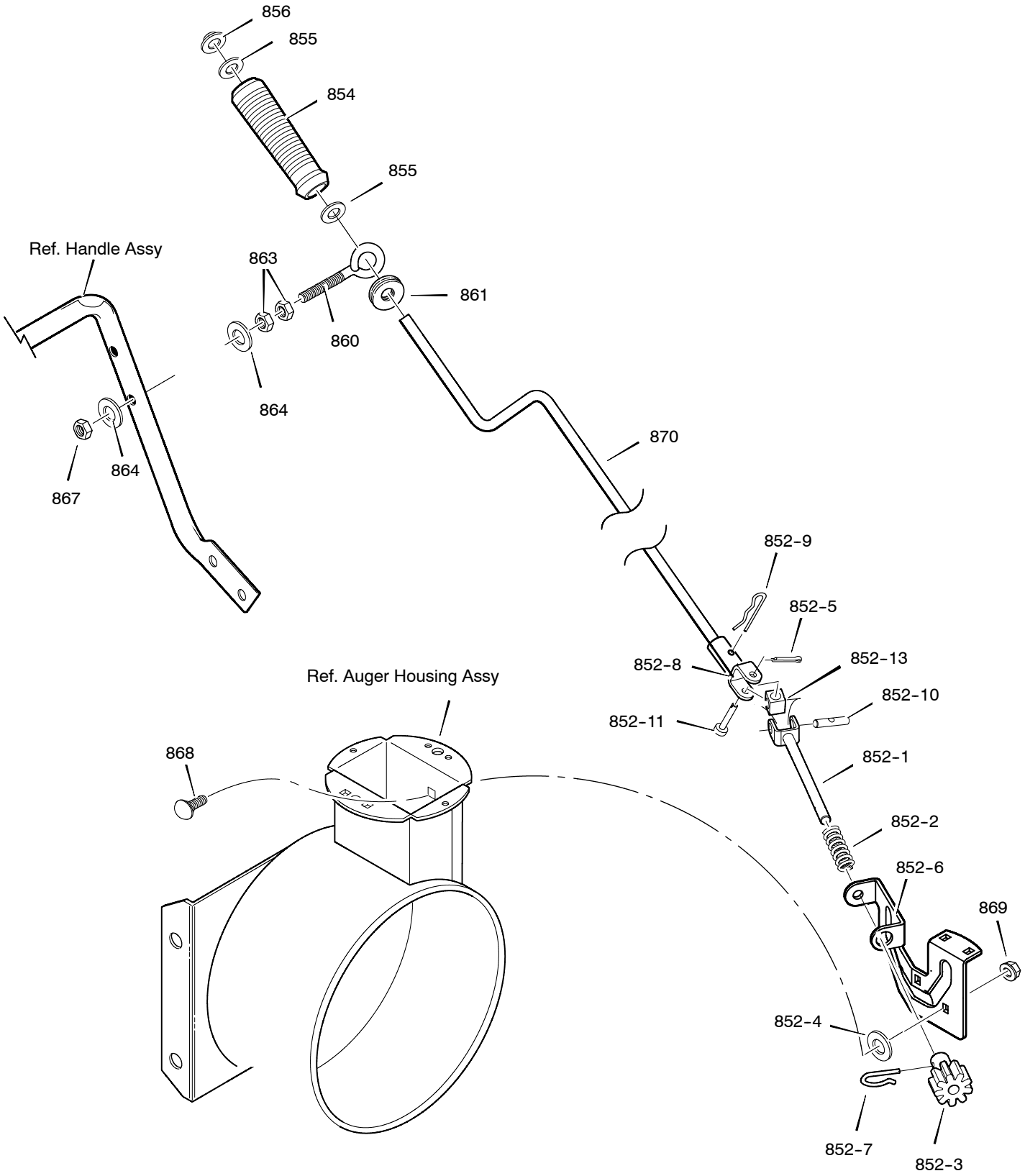
HANDLE / POIGNÊE



HANDLE / POIGNÊE

Key No. Nº sur le schéma	Part No. Nº de pièce	Description	Description
720	400046X479	HANDLE, UPPER	POIGNEE, PARTIE SUPERIEURE
724	198711	SCREW, 5/16-18X2.75	VIS 5/16-18X2.75
725	198662	WASHER, FLAT	RONDELLE PLATE
726	10040500	WASHER, SPTLK .31X.58X.08	RONDELLE-FREIN .31X.58X.08
727	198683	NUT, 5/16-18 REGHEX	ECROU 6 PANS 5/16-18 REGHEX
728	198709	STOP, RED PLASTIC	CAPUCHON, PLASTIQUE ROUGE
730	40045X479	CLUTCH HANDLE, RIGHT	POIGNÊE D’EMBRAYAGE, DROITE
731	400044X479	CLUTCH HANDLE, LEFT	POIGNÊE D’EMBRAYAGE, GAUCHE
733	400048	PIN, PIVOT CLUTCH	AXE DE MANETTE DE COMMANDE
734	400049	NUT, PUSH ON CAP	ECROU BORGNE
739	198702	BUMPER, RECTANGLE	PATIN RECTANGULAIRE
740	406165	CABLE, CLUTCH 28.44L	CÂBLE, COMMANDE DU SYSTEME DE TRACTION
741	400050	CABLE, AUGER CLUTCH	CÂBLE, COMMANDE DES LAMES CHASSE-NEIGE
743	198692	BRACKET, CABLE ADJUSTER	PIECE DE REGLAGE DU CABLE, SYSTEME DE TRACTION
744	198690	SPRING, AUGER CLUTCH	RESSORT DE CABLE, COMMANDE DES LAMES
745	73600400	NUT, 1/4-20	ECROU 1/4-20
746	198670	BOOT, CLUTCH SPRING	GAINE DE RESSORT, SYSTEME DE TRACTION
750	400151X479	HANDLE, LOWER	POIGNEE, PARTIE INFERIEURE
751	150078	SCREW, TAP 5/16-18 X 0.75	VIS 5/16-18 X 0.75
755	198699X479	BRKT, GEAR SELECTOR	PLAQUE DU SELECTEUR DE VITESSES
756	198574	SCREW, 1/4-20 X 0.63	VIS 1/4-20 X 0.63
759	198678	SPOOL-CABLE, AUGRT CLUTCH	BOBINE DE PASSAGE DE CABLE, COMMANDE DES LAMES
760	198677X004	BRACKET, CABLE SPOOL YZ	ATTACHE DE LA BOBINE DE PASSAGE DE CABLE
762	406164	CABLE, LOWER DRIVE 12”	CABLE, PARTIE BASSE 12”, COMMANDE DES LAMES
763	198673	BOLT, HEX 1/4-20 X 1.50	BOULON 1/4-20X1.50
766	400047	GRIP	POIGNEE

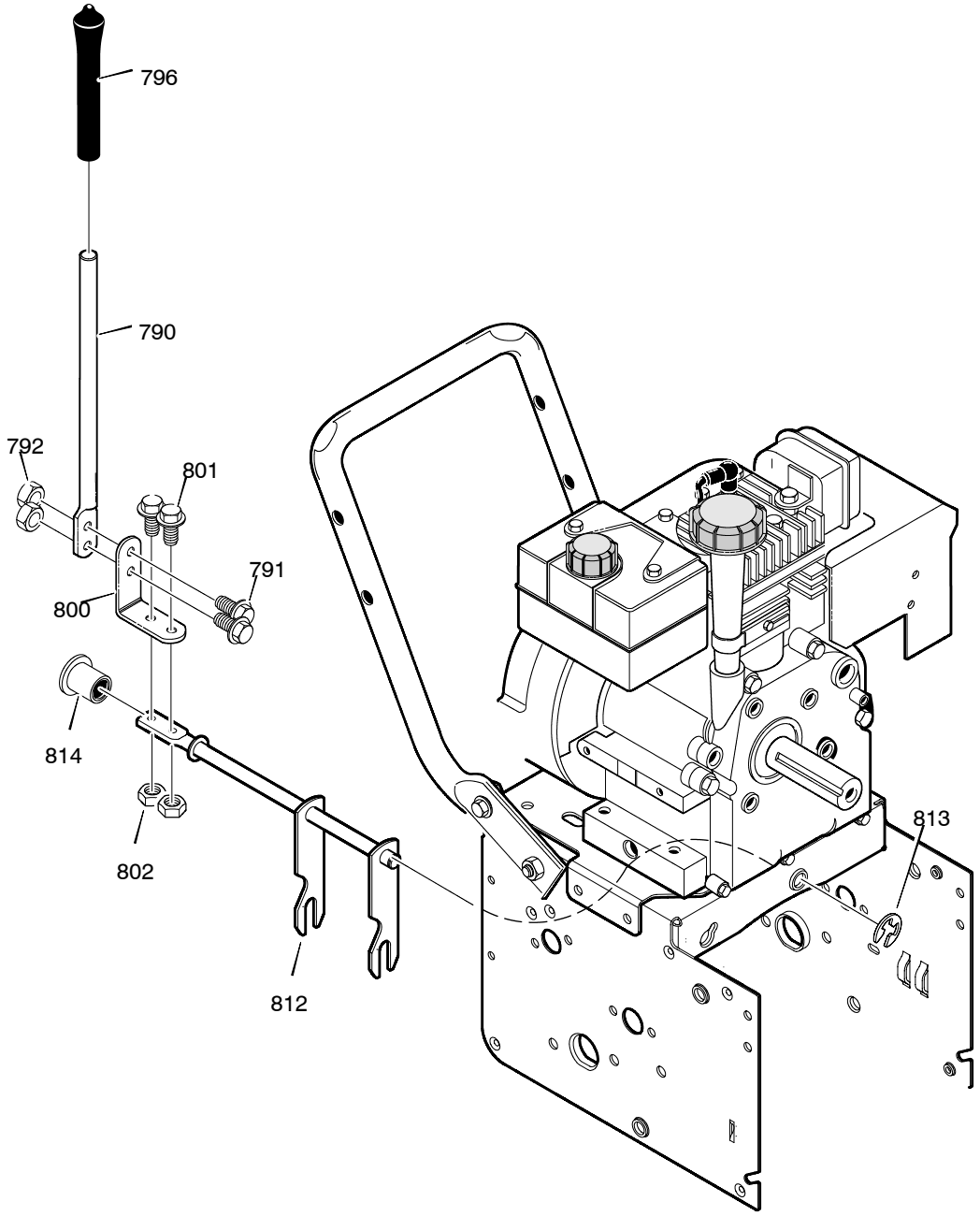
CHUTE ROD / GOULOTTE TIGE



CHUTE ROD / GOULOTTE TIGE

Key No. Nº sur le schéma	Part No. Nº de pièce	Description	Description
852-1	198853x008	ASSEMBLY, YOKE & ROD	ENSEMBLE TRINGLE-CHAPE
852-2	198861	SPRING	RESSORT
852-3	198862	GEAR, CHUTE ROTATION 9T	PIGNON DE ROTATION DU DEVERSOIR
852-4	400026	WASHER	RONDELLE
852-5	400192	PIN, COTTER	GOUPILLE FENDUE
852-6	405339	BRACKET, CHUTE GEAR	PATTE DE FIXATION DU PIGNON
852-7	198863	PIN, HAIR	GOUPILLE
852-8	198788	ASSEMBLY, YOKE ADAPTER YZ	ENSEMBLE ADAPTATEUR-CHAPE
852-9	198678	PIN, HAIR	GOUPILLE BETA
852-10	198878	PIN, UNIVERSAL JOINT	GOUPILLE DE JOINT UNIVERSEL
852-11	198860	PIN, CLEVIS	GOUPILLE DE CHAPE
852-13	198520	HOUSING, UNIVERSAL	CAPUCHON DE JOINT UNIVERSEL
854	198836x428	KNOB, SLEEVE	POIGNEE DE MANIVELLE
855	198837	FLATWASHER	RONDELLE PLATE
856	198839	NUT, PUSH ON 3/8”	CAPUCHON 3/8”
860	198869	EYE BOLT 3/8-16X6.00	BOULON A OEIL 3/8-16X6.00
861	198841	GROMMET, EYE BOLT	OEILLET
863	198845	NUT, 3/8-16 HEXJAM	CONTRE-ECROU 6 PANS 3/8-16 HEXJAM
864	198733	FLATWASHER .406X.81X.066	RONDELLE PLATE .406X.81X.066
867	73600600	NUT, 3/8-16 HEXNYL	ECROU 6 PANS 3/8-16 HEXNYL
868	198634	BOLT, CARRIAGE 1/4-20 X 1.00	BOULON AUTOBLOQUANT 1/4-20X1.00
869	198632	NUT, 1/4-20	ÉCROU
870	198846	CRANK, ASSY CHUTE	MANIVELLE DE DEVERSOIR

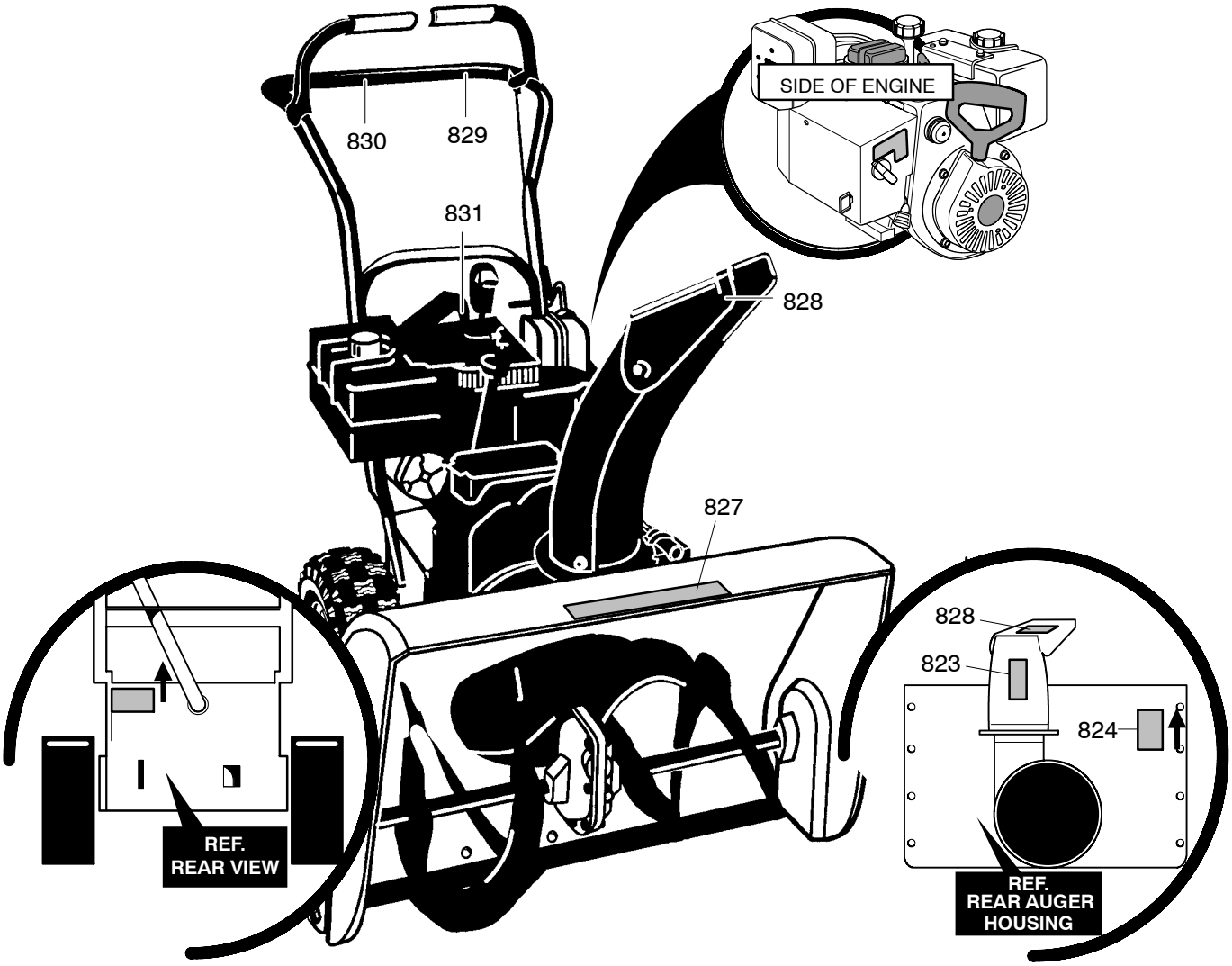
SHIFT YOKE / DE COMMANDE YOKE MONTAGE



Key No. Nº sur le schéma	Part No. Nº de pièce	Description	Description
790	198725x479	ROD, SHIFT	TIGE DE COMMANDE DE VITESSE
791	198727	SCREW, 1/4-20X.75	VIS, 1/4-20X,75 PO.
792	73800400	NUT, 1/4-20	CONTRE-ÉCROU, 1/4-20
796	198736	KNOB, SLIP	POMMEAU
800	198737	LEVER, SPRING	LEVIER, RESSORT DE COMMANDE
801	198727	SCREW, 1/4-20X.75	VIS, 1/4-20X,75 PO.
802	73800400	NUT, 1/4-20	CONTRE-ÉCROU, 1/4-20
812	198732x008	ROD ASSY., SPEED SELECT	TIGE,
813	198945	RETAINER, RING	CONTRE-ÉCROU 3/8-16
814	198791	BEARING, FLANGED	PALIER

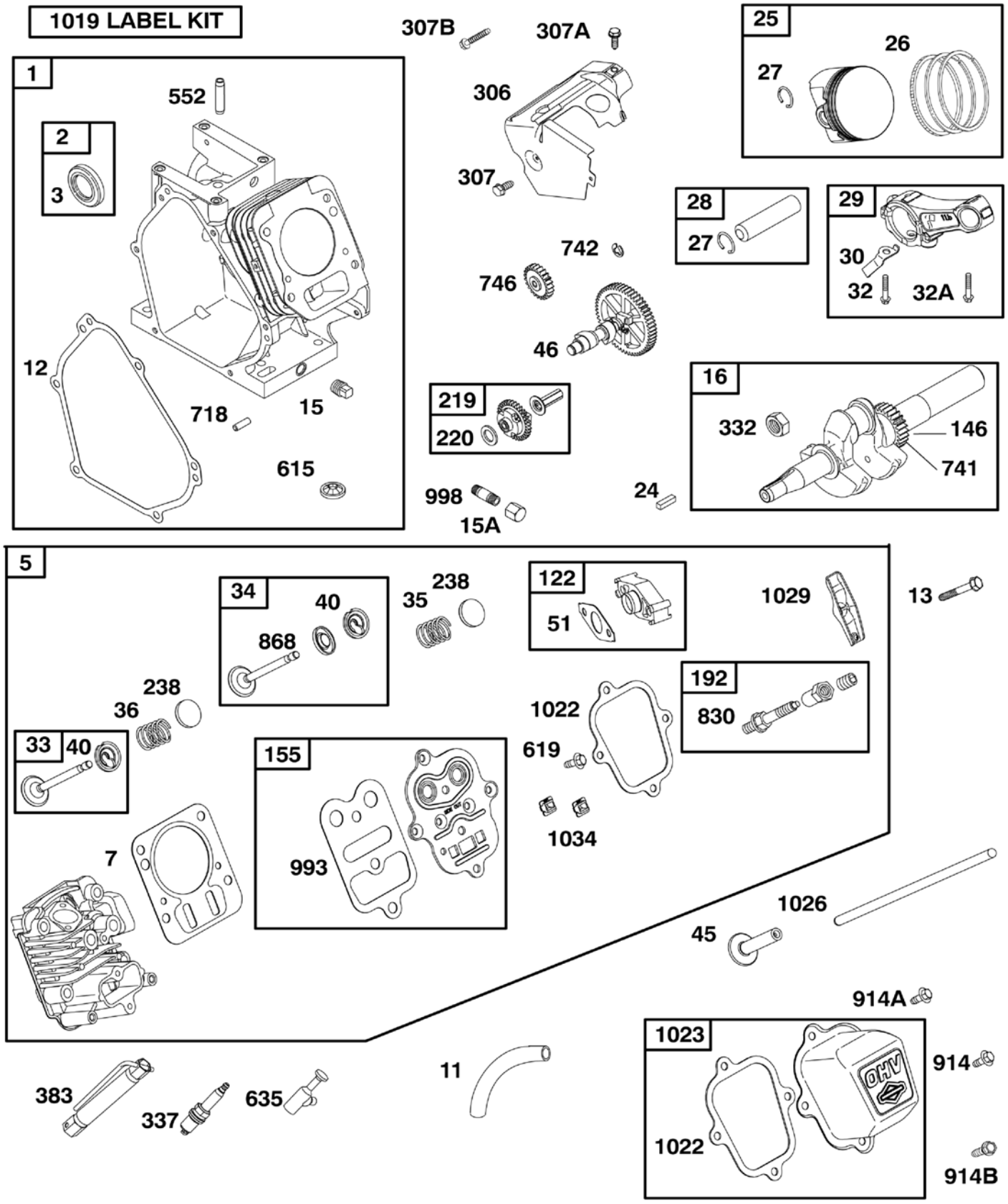
CRAFTSMAN 24” SNOW BLOWER 944-526051
CRAFTSMAN 24” CHASSE- NEIGE 944-526051

REPAIR PARTS
PIÈCES DE RECHANGE
DECALS / AUTOCOLLANT



Key No. Nº sur le schéma	Part No. Nº de pièce	Description	Description
823	401364	DECAL, DANGER CHUTE HAND	AUTOCOLLANT, DANGER MAINS, ÉJECTION
824	401366	DECAL, DANGER FOOT	AUTOCOLLANT, DANGER PIEDS
827	408659	DECAL, 6.5/24”	AUTOCOLLANT, 9.5/24
828	401363	DECAL, THROWN OBJECTS	AUTOCOLLANT, PROJECTION D’OBJETS
829	401361	DECAL, DRIVE CLUTCH	AUTOCOLLANT, EMBRAYAGE ROUES
830	401362	DECAL, AUGER CLUTCH	AUTOCOLLANT, EMBRAYAGE FRAISE
831	401391	DECAL, GEAR SELECTOR	AUTOCOLLANT, SÉLECTEUR VITESSE
---	408569	OWNERS MANUAL	MANUAL DE PROPRIETAIRE

BRIGGS AND STRATTON ENGINE 12A113-0350-E1 REPAIR PARTS
MOTEUR BRIGGS AND STRATTON 12A113-0350-E1 PIÈCES DE RECHANGE



Assemblies include all parts shown in frames.
Les assemblages comprennent toutes les pièces illustrées dans les encadrements.

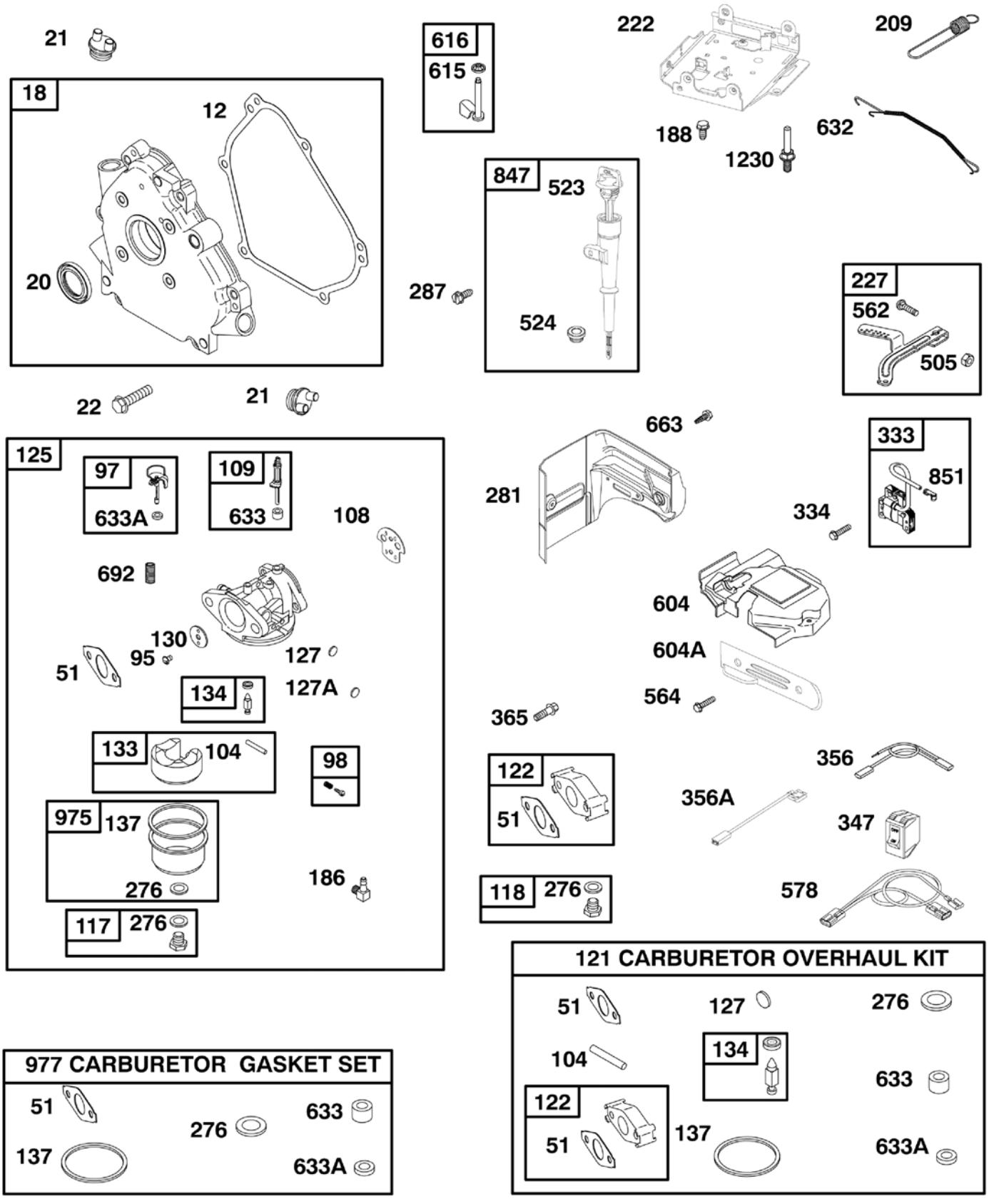
BRIGGS AND STRATTON ENGINE 12A113-0350-E1 REPAIR PARTS
MOTEUR BRIGGS AND STRATTON 12A113-0350-E1 PIÈCES DE RECHANGE

Key No. Nº sur le schéma	Part No. Nº de pièce	Description	Description
1	**699510**	Cylinder Assembly	Cylindre
2	**399269**	Kit–Bushing/Seal (Magneto Side)	Kit –entretoise/joint (face magnéto)
3	⋆**299819**	Seal–Oil (Magneto Side)	Joint à huile (face magnéto)
5	**699486**	Head–Cylinder	De Culasse
7	⋆Δ**698210**	Gasket–Cylinder Head	Joint de culasse
11	**695745**	Tube–Breather	Tube reniflard
12	⋆**699485**	Gasket–Crankcase	Joint de bloc–cylindre
13	**699482**	Screw (Cyl. Head)	Vis
15	**691686**	Plug–Oil Drain	Vis de vidange
15A	**695757**	Plug–Oil Drain	Vis de vidange
16	**699454**	Crankshaft	Vilebrequin
24	**222698**	Key–Flywheel	Clé – volant d'inertie
25	**690021**	Piston Assembly (Standard); **------- Note -----: 694168** Piston Assembly (.020" Oversize)	Piston (standard); **------- Remarque -----: 694168:** Piston (0,020" surdimensionné)
26	**499631**	Ring Set (Standard); **------- Note -----: 692786:** Ring Set (.020" Oversize)	Jeu de segments (standard); **------- Remarque -----: 692786:** Jeu de segments (0,020" surdimensionné)
27	**691866**	Lock–Piston Pin	Verrouillage – axe de piston
28	**499423**	Pin–Piston	Goupille – piston
29	**690124**	Rod–Connecting	Tringle de raccord
30	**692562**	Dipper–Connecting Rod	Plongeur – tringle de raccord
32	**691644**	Screw (1" long) (Connecting Rod)	Vis – (1") (tringle de raccord)
32A	**695759**	Screw (1 1/2" long) (Connecting Rod)	Vis – (1 1/2") (tringle de raccord)
33	**499642**	Valve–Exhaust	Soupape d'échappement
34	**499641**	Valve–Intake	Soupape d'alimentation
35	**691304**	Spring–Valve (Intake)	Ressort de valve (d'alimentation)
36	**691304**	Spring–Valve (Exhaust)	Ressort de valve (d'échappement)
40	**692194**	Retainer–Valve	Blocage – valve
45	**690977**	Tappet–Valve	Soupape – valve
46	**693404**	Camshaft	Arbre à came
51	⋆Δ●◆**692555**	Gasket–Intake (2 Required)	Joint – alimentation (2)
122	Δ●◆**693749**	Spacer–Carburetor	Entretoise – carburateur
146	**690979**	Key–Timing	Clé de réglage
155	**698214**	Plate–Cylinder Head	
192	**694543**	Adjuster–Rocker Arm	
219	**693578**	Gear–Governor	Engrenage de gouverneur
220	**691724**	Washer (Governor Gear)	Rondelle (engrenage de gouverneur)
238	**691300**	Cap–Valve	
306	**695710**	Shield–Cylinder	Bouclier de cylindre
307	**699483**	Screw (Metric) (Cylinder Shield)	Vis (bouclier de cylindre)
307A	**699234**	Screw (Metric) (Cylinder Shield)	Vis (bouclier de cylindre)
307B	**790557**	Screw (Metric) (Cylinder Shield)	Vis (bouclier de cylindre)
332	**699359**	Nut (Flywheel)	Écrou (volant d'inertie)
337	**491055**	Plug–Spark	Bougie d'allumage
383	**19374**	Wrench–Spark Plug	Clé à bougie
552	**692346**	Bushing–Governor Crank	Entretoise – manivelle de gouverneur
615	**692576**	Retainer–Governor Shaft	Retenue– arbre du gouverneur
619	**699230**	Screw (Metric)	Vis
635	**692927**	Boot–Spark Plug	Protecteur de caoutchouc – bougie d'allumage
718	**690959**	Pin–Locating	Goupille de montage

BRIGGS AND STRATTON ENGINE 12A113-0350-E1 REPAIR PARTS
MOTEUR BRIGGS AND STRATTON 12A113-0350-E1 PIÈCES DE RECHANGE

741	**695087**	Gear–Timing	Engrenage – réglage
742	**692564**	Retainer–E Ring	Bague de retenue
746	**692566**	Gear–Idler	Poulie libre d'engrenage
830	**694544**	Stud, (Rocker Arm)	Arbre (des culbuteurs)
868	**★Δ692044**	Seal–Valve	Joint de soupape
914	**697551**	Screw, Side (Rocker Cover)	Vis (cache-culbuteurs)
914A	**692557**	Screw, Top (Rocker Cover)	Vis (cache-culbuteurs)
914B	**699481**	Screw, Bottom (Rocker Cover)	Vis (cache-culbuteurs)
993	**694088**	Gasket–Cylinder Head Plate	Joint de culasse
998	**696683**	Pipe–Oil	Conduite – huile
1019	**790459**	Kit–Label	Kit d'étiquettes
1022	**★Δ691890**	Gasket–Rocker Cover	Joint – cache-culbuteurs
1023	**499924**	Cover–Rocker	Carter des culbuteurs
1026	**790287**	Rod–Push	Tringle à pression
1029	**691230**	Arm–Rocker	Culbuteur
1034	**691343**	Guide–Push Rod	

BRIGGS AND STRATTON ENGINE 12A113-0350-E1 REPAIR PARTS
MOTEUR BRIGGS AND STRATTON 12A113-0350-E1 PIÈCES DE RECHANGE



Assemblies include all parts shown in frames.
Les assemblages comprennent toutes les pièces illustrées dans les encadrements.

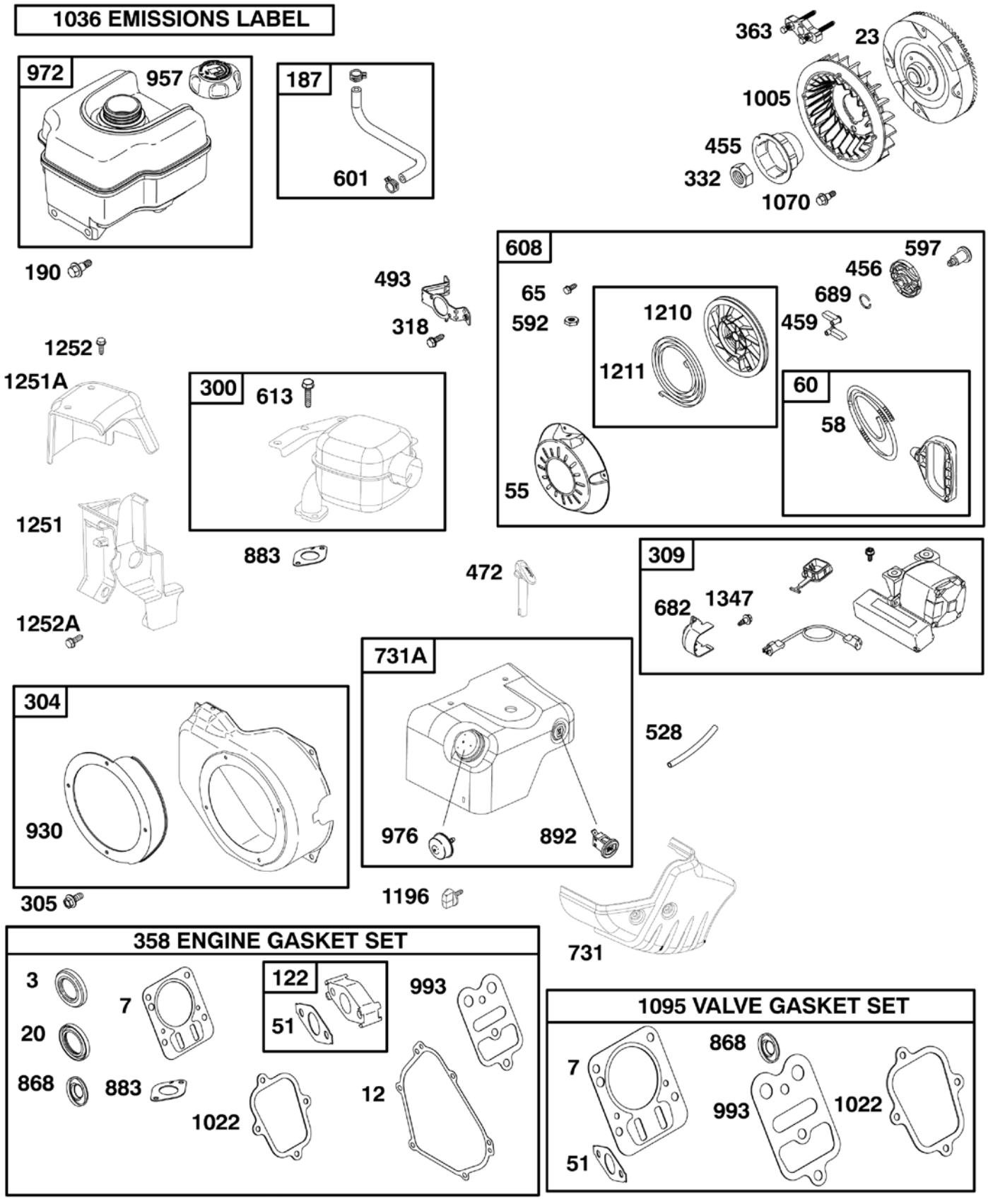
BRIGGS AND STRATTON ENGINE 12A113-0350-E1 REPAIR PARTS
MOTEUR BRIGGS AND STRATTON 12A113-0350-E1 PIÈCES DE RECHANGE

Key No. Nº sur le schéma	Part No. Nº de pièce	Description	Description
12	★699485	Gasket–Crankcase	Joint de bloc–cylindre
18	699804	Cover–Crankcase	Carter de vilebrequin
20	★692550	Seal–Oil (PTO Side)	Joint à huile (face prise de force)
21	281658	Cap–Oil Fill	Bouchon – remplissage d'huile
22	699478	Screw (Crankcase Cover/Sump)	Vis (carter de vilebrequin/cuve)
51	★△●◆692555	Gasket–Intake (2)	Joint d'alimentation (2)
95	691636	Screw (Throttle Valve)	Vis (valve d'accélérateur)
97	690024	Shaft–Throttle	Arbre d'accélérateur
98	●398185	Kit–Idle Speed	Kit – ralenti
104	●691242	Pin–Float Hinge	Axe – charnière de niveau
108	695807	Valve–Choke	Valve de starter
109	695729	Shaft–Choke	Arbre de starter
117	●690048	Jet–Main (Standard)	Gicleur principal (Standard)
118	498976	Jet–Main (High Altitude)	Gicleur principal (haute altitude)
121	695157	Kit–Carburetor Overhaul	Kit de remplacemnt de carburateur
122	△●◆693749	Spacer–Carburetor	Entretoise de carburateur
125	790558	Carburetor	Carburateur
127	●694468	Plug–Welch (Bowl Vent)	Pastille d'obturation
127A	691739	Plug–Welch	Pastille d'obturation
130	691181	Valve–Throttle	Valve d'accélérateur
133	398187	Float–Carburetor	Niveau de carburateur
134	398188	Kit–Needle/Seat	Kit
137	●◆693981	Gasket–Float Bowl	Joint – cuve du carburateur
186	692317	Connector–Hose	
188	699479	Screw (Control Bracket)	Vis (support des commandes)
209	692571	Spring–Governor (Position in Number 6 Hole)	Ressort de régulateur (positionner au trou No. 6)
222	790549	Bracket–Control	Support des commandes
227	692573	Lever–Governor Control	Levier de commande du gouverneur)
276	271716	Washer–Sealing	
281	699639	Panel–Control	Panneau des commandes
287	699629	Screw (Metric)	Vis
333	695711	Armature–Magneto	Armature du magnéto
334	699477	Screw (Magneto Armature)	Vis (armature du magnéto)
347	698338	Switch–Rocker	Commutateur à bascule
356	695630	Wire–Stop (Rocker Switch)	Butée de câble (commutateur à bascule)
356A	790552	Wire–Stop	Butée de câble
365	699484	Screw (Metric)	Vis
505	691251	Nut (Governor Control Lever)	Écrou (levier de commande du gouverneur)
523	790546	Dipstick	Jauge
524	281370	Seal–O Ring (Dipstick Tube)	Joint torique (tube de jauge)
562	691112	Bolt (Governor Control Lever)	Boulon (levier de commande du gouverneur)
564	699854	Screw (Control Cover)	Vis (Carter des commandes)
578	790481	Wire Assembly	Faisceau de câbles
604	695749	Cover–Control	Carter des commandes
604A	790473	Cover–Control	Carter des commandes

BRIGGS AND STRATTON ENGINE 12A113-0350-E1 REPAIR PARTS
MOTEUR BRIGGS AND STRATTON 12A113-0350-E1 PIÈCES DE RECHANGE

615	**692576**	Retainer–Governor Shaft	Retenue– arbre du gouverneur
616	**692547**	Crank–Governor	Manivelle du gouverneur
632	**692653**	Spring/Link–Mechanical Governor	Ressort/Liaison–gouverneur
633	**●◆699854**	Seal–Choke/Throttle Shaft	Joint – starter/ arbre d'accélérateur
633A	**●◆691321**	Seal–Choke/Throttle Shaft	Joint – starter/ arbre d'accélérateur
663	**699854**	Screw (Control Panel)	Vis (panneau de garnissage)
692	**690572**	Spring	Ressort
847	**790545**	Dipstick/Tube Assembly	Tube
851	**493880**	Terminal Spark Plug	Terminal Pastille
975	**790559**	Bowl–Float	Cuve du carburateur
977	**695156**	Gasket Set–Carburetor	Jeu de joints – carburateur
1230	**699847**	Stud	

BRIGGS AND STRATTON ENGINE 12A113-0350-E1 REPAIR PARTS
MOTEUR BRIGGS AND STRATTON 12A113-0350-E1 PIÈCES DE RECHANGE



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BRIGGS AND STRATTON ENGINE 12A113-0350-E1 REPAIR PARTS
MOTEUR BRIGGS AND STRATTON 12A113-0350-E1 PIÈCES DE RECHANGE

Key No. Nº sur le schéma	Part No. Nº de pièce	Description	Description
3	★299819	Seal-Oil (Magneto Side)	Joint à huile (face magnéto)
7	★Δ698210	Gasket-Cylinder Head	Joint de culasse
12	★699485	Gasket-Crankcase	Joint de bloc-cylindre
20	★692550	Seal-Oil (PTO Side)	Joint à huile (face prise de force)
23	699516	Flywheel	Volant d'inertie
51	★Δ●◆692555	Gasket-Intake	Joint - alimentation
55	696710	Housing-Rewind Starter	Carter (démarreur à rappel)
58	693389	Rope-Starter (Cut to Required Length)	Corde de lanceur à rappel (longueur sur demande ou standard)
60	699334	Grip-Starter Rope	Poignée de lanceur à rappel
65	699851	Screw (Rewind Starter)	Vis (démarreur à rappel)
122	Δ●◆693749	Spacer-Carburetor	Entretoise - carburateur
187	693401	Line-Fuel (Molded)	Conduite de carburant (moulée)
190	699220	Screw (Fuel Tank)	Vis (Réservoir d'essence)
300	790548	Muffler	Silencieux
304	699598	Housing-Blower	Carter du chasse-neige
305	699480	Screw (Blower Housing)	Vis (carter du chasse-neige)
309	696818	Motor-Starter	Moteur de démarreur
318	690370	Screw	Vis
332	699359	Nut	Écrou
358	699638	Gasket Set-Engine	Jeu de joints - moteur
363	19069	Puller-Flywheel	Puller-volant dinertie
455	692591	Cup-Flywheel	Cache - volant dinertie
456	692299	Plate-Pawl Friction	Plaque - friction à cliquet
459	281505	Pawl-Rachet	Cliquet
472	790553	Knob-Choke Shaft	Bouton - arbre du starter
493	695744	Bracket	Support
528	695746	Hose-Primer	Conduite - bouton d'amorce
592	690800	Nut (Rewind Starter)	Écrou (démarreur à rappel)
597	691696	Screw (Pawl Friction Plate)	Vis (Plaque de friction à cliquet)
601	95162	Clamp-Hose	Pince à tubulure
608	699335	Starter-Rewind	Démarreur à rappel
613	699209	Screw (Muffler)	Vis (silencieux)
682	698039	Shield	Écran
689	691855	Spring-Friction	Ressort - friction
731	790554	Hood-Snow	Carter - neige
731A	790547	Hood-Snow	Carter - neige
868	★Δ692044	Seal-Valve	Joint - valve
883	★Δ691893	Gasket-Exhaust	Joint - (échappement)
892	★Δ696749	Switch-Key	Clé de contact
930	696709	Guard-Rewind	Carter -lanceur à rappel
957	695737	Cap-Fuel	Bouchon - réservoir d'essence
972	695736	Tank-Fuel	Réservoir d'essence
976	790221	Primer-Carburetor	Bouton d'amorce - carburateur
993	694088	Gasket	Joint
1005	692592	Fan-Flywheel	Ventilateur - volant d'inertie
1022	★Δ691890	Gasket-Rocker Cover	Joint - cache-culbuteurs

BRIGGS AND STRATTON ENGINE 12A113-0350-E1 REPAIR PARTS
MOTEUR BRIGGS AND STRATTON 12A113-0350-E1 PIÈCES DE RECHANGE

1036	**790550**	Label–Emissions	Étiquette émissions
1070	**699201**	Screw (Flywheel Fan)	Vis (ventilateur du volant d'inertie)
1095	**698215**	Gasket Set–Valve	Jeu de joints – soupape
1196	**696692**	Screw (Snow Hood)	Vis (carter à neige)
1210	**498144**	Pulley/Spring Assembly (Pulley)	Jeu de poulie et ressort (poulie)
1211	**498144**	Pulley/Spring Assembly (Spring)	Jeu de poulie et ressort (ressort)
1251	**790556**	Shield–Snow	Écran à neige
1251A	**790555**	Shield–Snow	Écran à neige
1252	**699234**	Screw (Snow Shield)	Vis (écran à neige)
1252A	**699632**	Screw	Vis
1347	**699200**	Screw	Vis

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