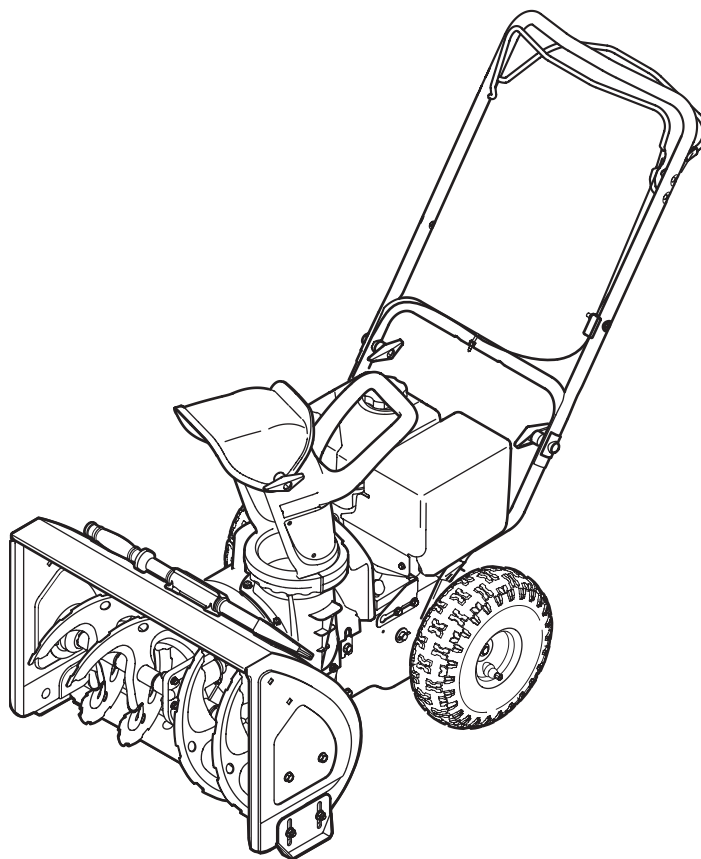


Operator's Manual

CRAFTSMAN®

22" SNOW THROWER

Model No. 247.881980



CAUTION: Before using this product, read this manual and follow all safety rules and operating instructions.

- SAFETY
- ASSEMBLY
- OPERATION
- MAINTENANCE
- ESPAÑOL

Sears Brands Management Corporation, Hoffman Estates, IL 60179, U.S.A.

Visit our website: www.craftsman.com

Form No. 769-10063A
(July 28, 2015)

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WARRANTY STATEMENT

CRAFTSMAN LIMITED WARRANTY

FOR TWO YEARS from the date of sale, this product is warranted against defects in material or workmanship.

WITH PROOF OF SALE, a defective product will receive free repair or replacement at option of seller.

For warranty coverage details to obtain free repair or replacement, visit the web page: www.craftsman.com/warranty

This warranty covers ONLY defects in material and workmanship. Warranty coverage does NOT include:

- Expendable items that can wear out from normal use within the warranty period, including but not limited to augers, auger paddles, drift cutters, skid shoes, shave plate, shear pins, spark plug, air cleaner, belts, and oil filter.
- Standard maintenance servicing, oil changes, or tune-ups.
- Tire replacement or repair caused by punctures from outside objects, such as nails, thorns, stumps, or glass.
- Tire or wheel replacement or repair resulting from normal wear, accident, or improper operation or maintenance.
- Repairs necessary because of operator abuse, including but not limited to damage caused by over-speeding the engine, or from impacting objects that bend the frame, auger shaft, etc.
- Repairs necessary because of operator negligence, including but not limited to, electrical and mechanical damage caused by improper storage, failure to use the proper grade and amount of engine oil, or failure to maintain the equipment according to the instructions contained in the operator's manual.
- Engine (fuel system) cleaning or repairs caused by fuel determined to be contaminated or oxidized (stale). In general, fuel should be used within 30 days of its purchase date.
- Normal deterioration and wear of the exterior finishes, or product label replacement.

This warranty is void if this product is ever used while providing commercial services or if rented to another person.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Sears Brands Management Corporation, Hoffman Estates, IL 60179

PRODUCT SPECIFICATIONS

Engine Oil:	5W-30
Oil Capacity:	20 ounces
Fuel:	Unleaded Gasoline
Fuel Capacity:	2.3 quarts
Spark Plug:	F6RTC (Sears Part #951-10292)
Spark Plug Gap:	0.020" to 0.030"

MODEL NUMBER

Model Number _____

Serial Number _____

Date of Purchase _____

Record the model number, serial number,
and date of purchase above.

SAFETY INSTRUCTIONS

WARNING

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

WARNING

CALIFORNIA PROPOSITION 65

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

DANGER

This machine was built to be operated according to the safe operation practices in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. This machine is capable of amputating fingers, hands, toes and feet and throwing debris. Failure to observe the following safety instructions could result in serious injury or death.

WARNING

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

SAVE THESE INSTRUCTIONS!

TRAINING

- Read, understand, and follow all instructions on the machine and in the manual(s) before attempting to assemble and operate. Failure to do so can result in serious injury to the operator and/or bystanders. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
- Be familiar with all controls and their proper operation. Know how to stop the machine and disengage them quickly.
- Never allow children under 14 years of age to operate this machine. Children 14 and over should read and understand the instructions and safe operation practices in this manual and on the machine and be trained and supervised by an adult.
- Never allow adults to operate this machine without proper instruction.
- Thrown objects can cause serious personal injury. Plan your snow-throwing pattern to avoid discharge of material toward roads, bystanders and the like.
- Keep bystanders, pets and children at least 75 feet from the machine while it is in operation. Stop machine if anyone enters the area.
- Exercise caution to avoid slipping or falling, especially when operating in reverse.

PREPARATION

- Thoroughly inspect the area where the equipment is to be used. Remove all doormats, newspapers, sleds, boards, wires and other foreign objects, which could be tripped over or thrown by the auger/impeller.
- Always wear safety glasses or eye shields during operation and while performing an adjustment or repair to protect your eyes. Thrown objects which ricochet can cause serious injury to the eyes.
- Do not operate without wearing adequate winter outer garments. Do not wear jewelry, long scarves or other loose clothing, which could become entangled in moving parts. Wear footwear which will improve footing on slippery surfaces.
- Use a grounded three-wire extension cord and receptacle for all machines with electric start engines.

- Disengage all control levers before starting the engine.
- Adjust collector housing height to clear gravel or crushed rock surfaces.
- Never attempt to make any adjustments while engine is running, except where specifically recommended in the operator's manual.
- Let engine and machine adjust to outdoor temperature before starting to clear snow.

Safe Handling of Gasoline:

To avoid personal injury or property damage use extreme care in handling gasoline. Gasoline is extremely flammable and the vapors are explosive. Serious personal injury can occur when gasoline is spilled on yourself or your clothes which can ignite. Wash your skin and change clothes immediately.

- Use only an approved gasoline container.
- 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.
- When practical, remove gas-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment on a trailer with a portable container, rather than from a gasoline dispenser nozzle.
- Keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete. Do not use a nozzle lock-open device.
- Extinguish all cigarettes, cigars, pipes and other sources of ignition.
- Never fuel machine indoors.
- Never remove gas cap or add fuel while the engine is hot or running. Allow engine to cool at least two minutes before refueling.
- Never over fill fuel tank. Fill tank to no more than ½ inch below bottom of filler neck to allow space for fuel expansion.
- Replace gasoline cap and tighten securely.
- If gasoline is spilled, wipe it off the engine and equipment. Move unit to another area. Wait 5 minutes before starting the engine.

SAFETY INSTRUCTIONS

- To reduce fire hazards, keep machine free of grass, leaves, or other debris build-up. Clean up oil or fuel spillage and remove any fuel soaked debris.
- Never store the machine or fuel container inside where there is an open flame, spark or pilot light as on a water heater, space heater, furnace, clothes dryer or other gas appliances.

OPERATION

- Do not put hands or feet near rotating parts, in the auger/impeller housing or chute assembly. Contact with the rotating parts can amputate hands and feet.
- The auger/impeller control lever is a safety device. Never bypass its operation. Doing so makes the machine unsafe and may cause personal injury.
- The control levers must operate easily in both directions and automatically return to the disengaged position when released.
- Never operate with a missing or damaged chute assembly. Keep all safety devices in place and working.
- Never run an engine indoors or in a poorly ventilated area. Engine exhaust contains carbon monoxide, an odorless and deadly gas.
- Do not operate machine while under the influence of alcohol or drugs.
- Muffler and engine become hot and can cause a burn. Do not touch. Keep children away.
- Exercise extreme caution when operating on or crossing gravel surfaces. Stay alert for hidden hazards or traffic.
- Exercise caution when changing direction and while operating on slopes. Do not operate on steep slopes.
- Plan your snow-throwing pattern to avoid discharge towards windows, walls, cars etc. Thus, avoiding possible property damage or personal injury caused by a ricochet.
- Never direct discharge at children, bystanders and pets or allow anyone in front of the machine.
- Do not overload machine capacity by attempting to clear snow at too fast of a rate.
- Never operate this machine without good visibility or light. Always be sure of your footing and keep a firm hold on the handles. Walk, never run.
- Disengage power to the auger/impeller when transporting or not in use.
- Never operate machine at high transport speeds on slippery surfaces. Look down and behind and use care when backing up.
- If the machine should start to vibrate abnormally, stop the engine, disconnect the spark plug wire and ground it against the engine. Inspect thoroughly for damage. Repair any damage before starting and operating.
- Disengage all control levers and stop engine before you leave the operating position (behind the handles). Wait until the auger/impeller comes to a complete stop before unlogging the chute assembly, making any adjustments, or inspections.
- Never put your hand in the discharge or collector openings. Do not unclog chute assembly while engine is running. Shut off engine and remain behind handles until all moving parts have stopped before unlogging.

- Use only attachments and accessories approved by the manufacturer (e.g. wheel weights, tire chains, cabs etc.).
- When starting engine, pull cord slowly until resistance is felt, then pull rapidly. Rapid retraction of starter cord (kickback) will pull hand and arm toward engine faster than you can let go. Broken bones, fractures, bruises or sprains could result.
- If situations occur which are not covered in this manual, use care and good judgment.

CLEARING A CLOGGED DISCHARGE CHUTE

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

To clear the chute:

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

MAINTENANCE & STORAGE

- Never tamper with safety devices. Check their proper operation regularly. Refer to the maintenance and adjustment sections of this manual.
- Before cleaning, repairing, or inspecting machine disengage all control levers and stop the engine. Wait until the auger/impeller come to a complete stop. Disconnect the spark plug wire and ground against the engine to prevent unintended starting.
- Check bolts and screws for proper tightness at frequent intervals to keep the machine in safe working condition. Also, visually inspect machine for any damage.
- Do not change the engine governor setting or over-speed the engine. The governor controls the maximum safe operating speed of the engine.
- Snow thrower shave plates and skid shoes are subject to wear and damage. For your safety protection, frequently check all components and replace with original equipment manufacturer's (OEM) parts only as listed in the Parts pages of this operator's manual. Use of parts which do not meet the original equipment specifications may lead to improper performance and compromise safety!
- Check control levers periodically to verify they engage and disengage properly and adjust, if necessary. Refer to the adjustment section in this operator's manual for instructions.
- Maintain or replace safety and instruction labels, as necessary.
- Observe proper disposal laws and regulations for gas, oil, etc. to protect the environment.
- Prior to storing, run machine a few minutes to clear snow from machine and prevent freeze up of auger/impeller.
- Never store the machine or fuel container inside where there is an open flame, spark or pilot light such as a water heater, furnace, clothes dryer etc.
- Always refer to the operator's manual for proper instructions on off-season storage.

SAFETY INSTRUCTIONS

- Check fuel line, tank, cap, and fittings frequently for cracks or leaks. Replace if necessary.
- Do not crank engine with spark plug removed.
- According to the Consumer Products Safety Commission (CPSC) and the U.S. Environmental Protection Agency (EPA), this product has an *Average Useful Life* of seven (7) years, or 60 hours of operation. At the end of the *Average Useful Life* have the machine inspected annually by an authorized service dealer to ensure that all mechanical and safety systems are working properly and not worn excessively. Failure to do so can result in accidents, injuries or death.

DO NOT MODIFY ENGINE

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

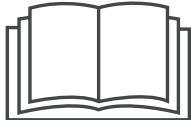








NOTICE REGARDING EMISSIONS

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

SAFETY INSTRUCTIONS

SAFETY SYMBOLS

This page depicts and describes safety symbols that may appear on this product. Read, understand, and follow all instructions on the machine before attempting to assemble and operate.

Symbol	Description
	READ THE OPERATOR'S MANUAL(S) Read, understand, and follow all instructions in the manual(s) before attempting to assemble and operate.
	WARNING— ROTATING BLADES Keep hands out of inlet and discharge openings while machine is running. There are rotating blades inside.
	WARNING— ROTATING BLADES Keep hands out of inlet and discharge openings while machine is running. There are rotating blades inside.
	WARNING— ROTATING AUGER Do not put hands or feet near rotating parts, in the auger/impeller housing or chute assembly. Contact with the rotating parts can amputate hands and feet.
	WARNING—THROWN OBJECTS This machine may pick up and throw and objects which can cause serious personal injury.
	WARNING—GASOLINE IS FLAMMABLE Allow the engine to cool at least two minutes before refueling.
	WARNING— CARBON MONOXIDE Never run an engine indoors or in a poorly ventilated area. Engine exhaust contains carbon monoxide, an odorless and deadly gas.
	WARNING— ELECTRICAL SHOCK Do not use the engine's electric starter in the rain.
	WARNING— HOT SURFACE Engine parts, especially the muffler, become extremely hot during operation. Allow engine and muffler to cool before touching.



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

SAVE THESE INSTRUCTIONS!

ASSEMBLY

NOTE: Reference to right, left, front or rear of the unit is from the operating position, facing forward, unless otherwise stated.

Removing From Carton

1. Cut the corners of the carton and lay the sides flat on the ground. Remove all packing inserts.
2. Move the snow thrower out of the carton.
3. Make certain the carton has been completely emptied before discarding it.



WARNING

Do NOT lift the snow thrower by the chute handle.

Assembly

NOTE: Be aware of the three loosely fitted cable ties attached to the lower handle that will be utilized later to secure the cables.

1. Loosen and remove the wing knob, saddle washer, handle tab and carriage screw on each side of the lower handle. See Figure 1.
2. Slide the loosely fitted cable tie from the right side of the lower handle up to the cross member of the lower handle. Leave the second cable tie in place on the right side of the lower handle. See Figure 3 for reference.

IMPORTANT: It will be necessary to lift the upper handle while sliding up this cable tie to prevent damage to the cable.

3. Lift the upper handle up and position it over the lower handle, aligning the holes where the wing knobs were removed (A) in Figure 2).



CAUTION

Be careful not to bend or kink the cables.

4. Insert a carriage screw from the outside through a handle tab, the upper and lower handles, a saddle washer and into the wing knob (B) in Figure 2). Repeat on the other side.
5. Tighten the wing knobs on each side of the handle. Refer to Figure 2.

NOTE: The auger cable routes down the left lower handle and the drive cable is routed across the top of the lower handle and down the right side of the lower handle. See Figure 3.

6. Two cable ties have been used to loosely tie the control cables to the lower handle. A push clip is also included on the lower drive cable. Position cable ties now, as in Figure 3, and tighten to secure cables to the lower handle. Trim off excess material of cable ties. Install the push clip into the hole in the handle provided as shown in the left inset in Figure 3.

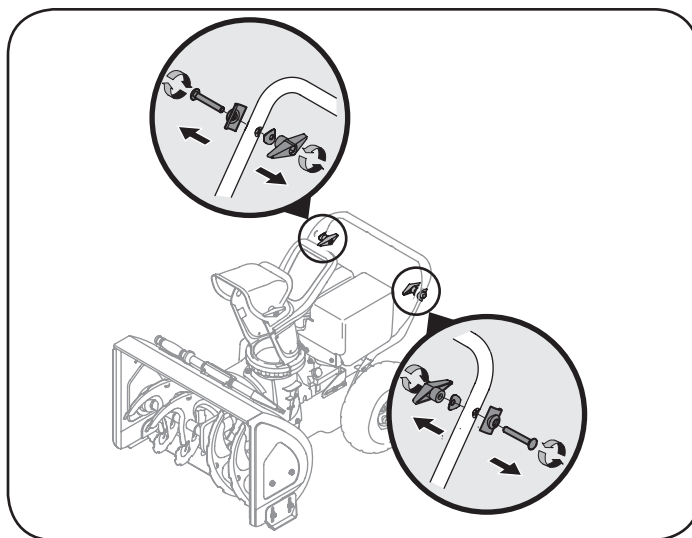


Figure 1

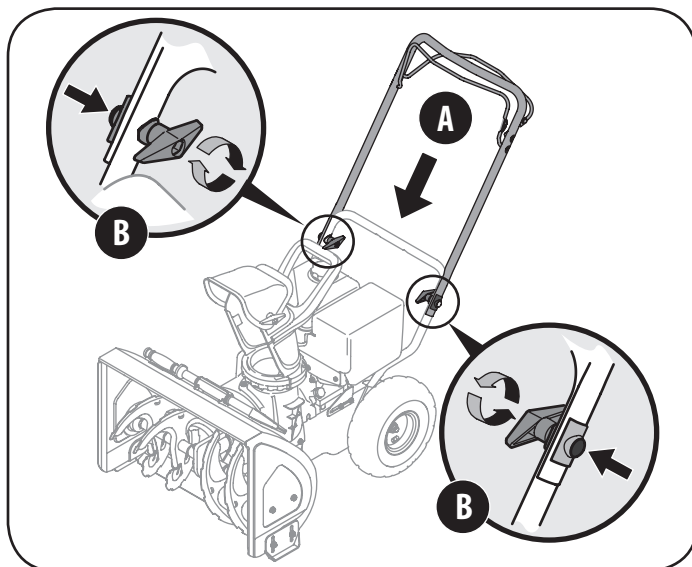


Figure 2

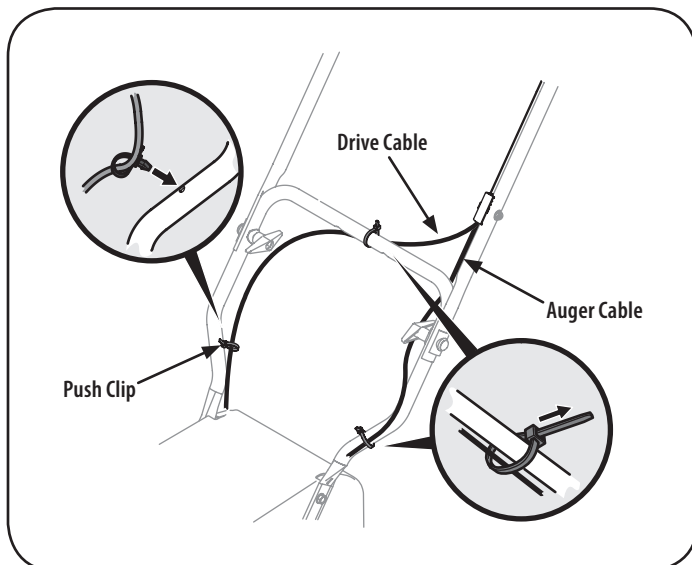


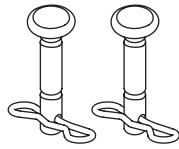
Figure 3

ASSEMBLY

Set-Up

Shear Pins

A pair of replacement auger shear pins and bow tie cotter pins are included with your snow thrower. Store them in a safe place until needed.



Clean-Out Tool

The chute clean-out tool is fastened to the top of the auger housing with a mounting clip and a cable tie at the factory. Cut the cable tie before operating the snow thrower. See Figure 4.

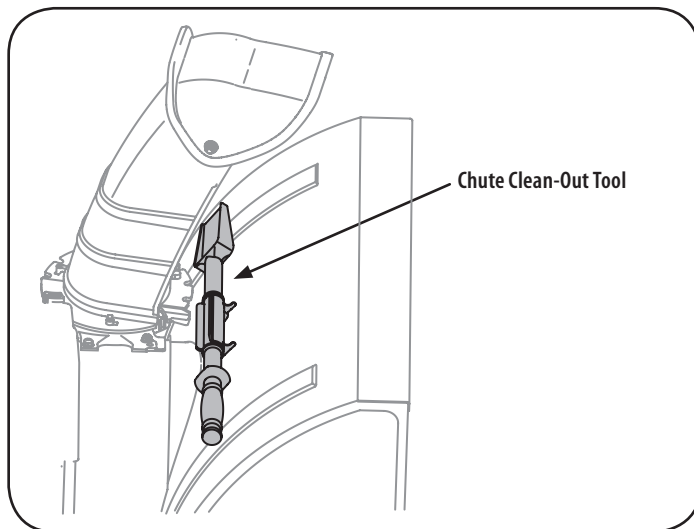


Figure 4

Tire Pressure

The proper inflation pressure is between 15 psi and 20 psi. Check the tire pressure periodically and maintain equal pressure in both tires at all times. Excessive pressure (above 20 psi) may cause the wheel (tire/rim) assembly to burst with sufficient force to cause serious injury. Do not over-inflate the tire. Use a manual pump or portable electric tire inflator to prevent over-inflation. NEVER USE AN AIR COMPRESSOR.

WARNING

Over-inflating the tire with excessive pressure (above 20 psi) may cause the tire/rim to burst with sufficient force to cause serious injury.

Fuel Recommendations

Use automotive gasoline (unleaded or low leaded to minimize combustion chamber deposits) with a minimum of 87 octane. Gasoline with up to 10% ethanol or 15% MTBE (Methyl Tertiary Butyl Ether) can be used. Never use an oil/gasoline mixture or dirty gasoline. Avoid getting dirt, dust, or water in the fuel tank. DO NOT use E85 gasoline.

- Refuel in a well-ventilated area with the engine stopped. Do not smoke or allow flames or sparks in the area where the engine is refueled or where gasoline is stored.
- Do not overfill the fuel tank. After refueling, make sure the tank cap is closed properly and securely.
- Be careful not to spill fuel when refueling. Spilled fuel or fuel vapor may ignite. If any fuel is spilled, make sure the area is dry before starting the engine.
- Avoid repeated or prolonged contact with skin or breathing of vapor.

Adding Fuel

WARNING

Use extreme care when handling gasoline. Gasoline is extremely flammable and the vapors are explosive. Never fuel the machine indoors or while the engine is hot or running. Extinguish cigarettes, cigars, pipes and other sources of ignition.

WARNING

Always keep hands and feet clear of equipment moving parts. Do not use a pressurized starting fluid. Vapors are flammable.

1. Clean around fuel fill before removing cap to fuel.
2. Fill tank until fuel reaches 1/2 inch below the bottom of the filler neck to allow space for fuel expansion. Be careful not to overfill.

Checking Oil Level

CAUTION

The engine is shipped with oil in the engine. You must, however, check the oil level prior to operating the snow thrower. Running the engine with insufficient oil can cause serious engine damage and void the engine warranty.

NOTE: Be sure to check the engine on a level surface with the engine stopped.

ASSEMBLY

1. Remove the oil filler cap/dipstick and wipe the dipstick clean. See Figure 5.

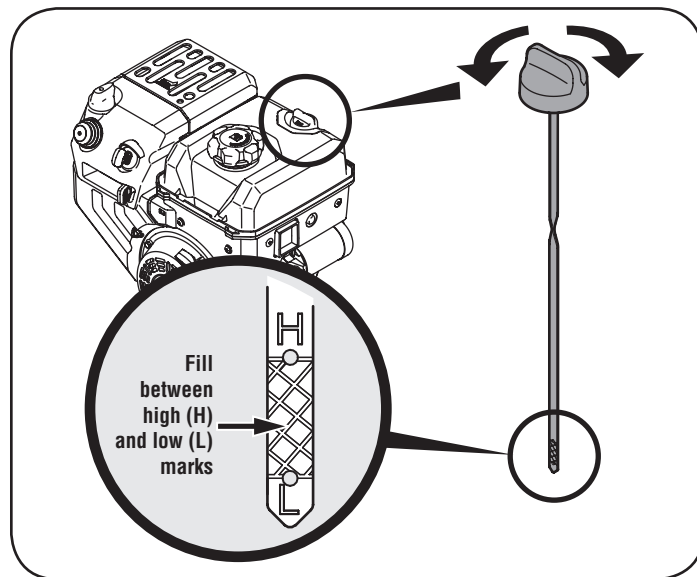


Figure 5

2. Insert the cap/dipstick into the oil filler neck, turn the cap 1/4-turn until fully seated.

NOTE: On some engines, a threaded cap/dipstick may exist instead of a 1/4-turn cap as described above. In this instance do not fully tighten the cap to check the oil level. Simply rest the cap on the threads to check for proper oil level.

3. Remove the oil filler cap/dipstick. If the level is low, slowly add oil until oil level registers between high (H) and low (L). See Figure 5. Refer to the Engine Maintenance section for correct oil viscosity and engine oil capacity.

NOTE: Do not overfill. Overfilling with oil may result in engine smoking, hard starting or spark plug fouling.

4. Replace and tighten cap/dipstick firmly before starting engine.

Adjustments

Skid Shoe

The snow thrower skid shoes are adjusted at the factory to be approximately 1/8" below the bottom surface of the shave plate. Adjust them downward, if desired, prior to operating the snow thrower.

⚠ CAUTION

It is not recommended that you operate this snow thrower on gravel as it can easily pick up and throw loose gravel, causing personal injury or damage to the snow thrower and surrounding property.

- For close snow removal on a smooth surface, raise skid shoes higher on the auger housing to lower shave plate.
- When the area to be cleared is uneven, such as a gravel driveway, lower skid shoes on the auger housing to raise the shave plate.

NOTE: If you choose to operate the snow thrower on a gravel surface, keep the skid shoes in lowest position for maximum clearance between the ground and the shave plate.

⚠ CAUTION

Operating a snow thrower equipped with steel skid shoes may result in damage to natural stone paved surfaces (e.g. sandstone, bluestone, limestone). For information on available polymer skid shoes, call 1-888-331-4569.

To adjust the skid shoes

1. Loosen the four hex nuts (two on each side) and carriage bolts. Move skid shoes to desired position. See Figure 6.

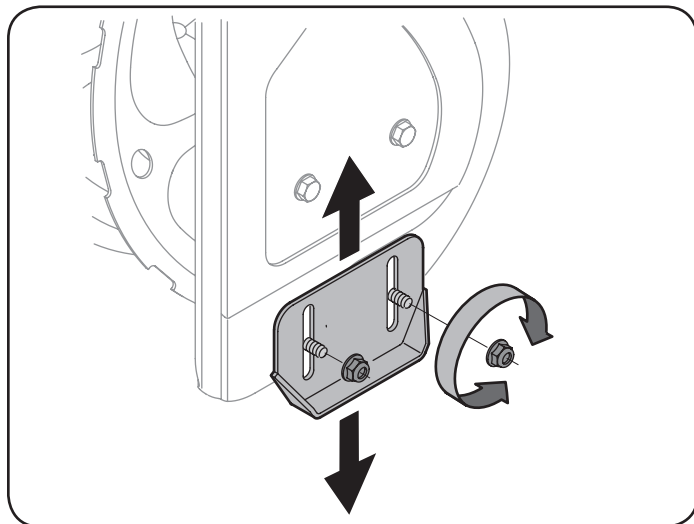


Figure 6

2. Make certain the entire bottom surface of skid shoe is against the ground to avoid uneven wear on the skid shoes.
3. Retighten nuts and bolts securely.

ASSEMBLY

Discharge Chute

1. Loosen the wing knob on the upper chute.
2. Adjust chute and chute control to desired operating position. Tighten the wing knob on the upper chute making sure the carriage bolt is correctly positioned. Refer to Figure 7.

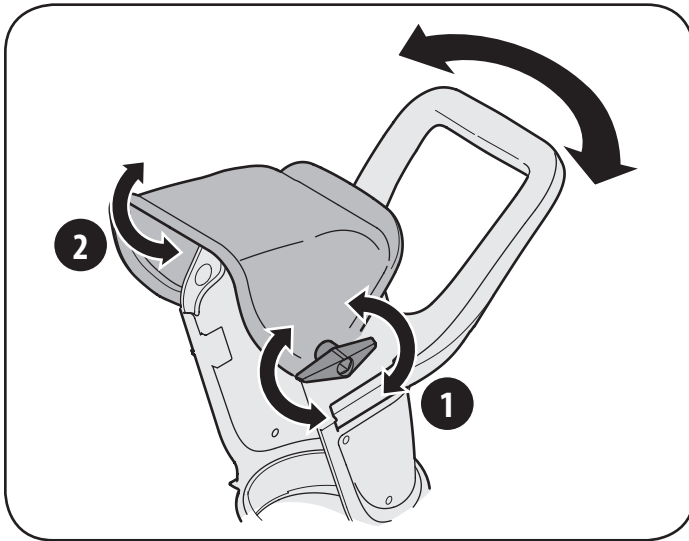


Figure 7

Auger Control Test



IMPORTANT: Perform the following test before operating the snow thrower for the first time and at the start of each winter season.

Check the adjustment of the auger control as follows:

1. When auger control is released and in the disengaged "UP" position, cable should have very little slack, but should NOT be tight.

WARNING

Do not adjust the cable too tight. Over-tightening may prevent the auger from disengaging when the control lever is released and compromise the safety of the snow thrower.

2. In a well-ventilated area, start the snow thrower engine as instructed on page 13 in the Operation section. Make sure the throttle is set in the FAST  position.
3. While standing in operator's position (behind unit) engage auger.
4. Allow auger to remain engaged for approximately ten seconds before releasing the auger control. Repeat this several times.
5. With the engine running in the FAST  position and the auger control in the disengaged "UP" position, walk to the front of the machine.
6. Confirm that the auger has completely stopped rotating and shows NO signs of motion.
7. If the auger shows ANY signs of rotating, immediately return to the operator's position and shut OFF the engine as instructed on page 13 in the Operation section. Wait for all moving parts to stop before readjusting the auger control.
8. Loosen the rear hex bolt on the cable adjustment bracket. See Figure 8.

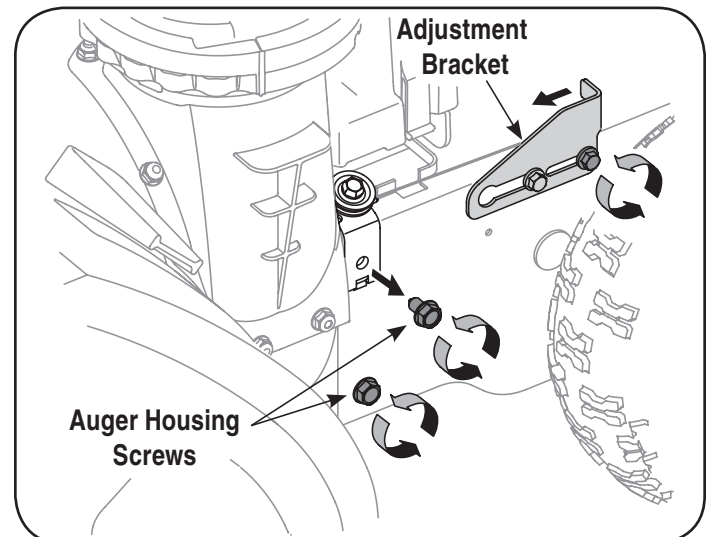


Figure 8

9. Slide the cable adjustment bracket backwards taking up the slack in the auger cable or slide it forward to decrease the cable tension.
10. Retighten the rear hex bolt.
11. Repeat steps 2-6 to verify proper adjustment has been achieved.

OPERATION

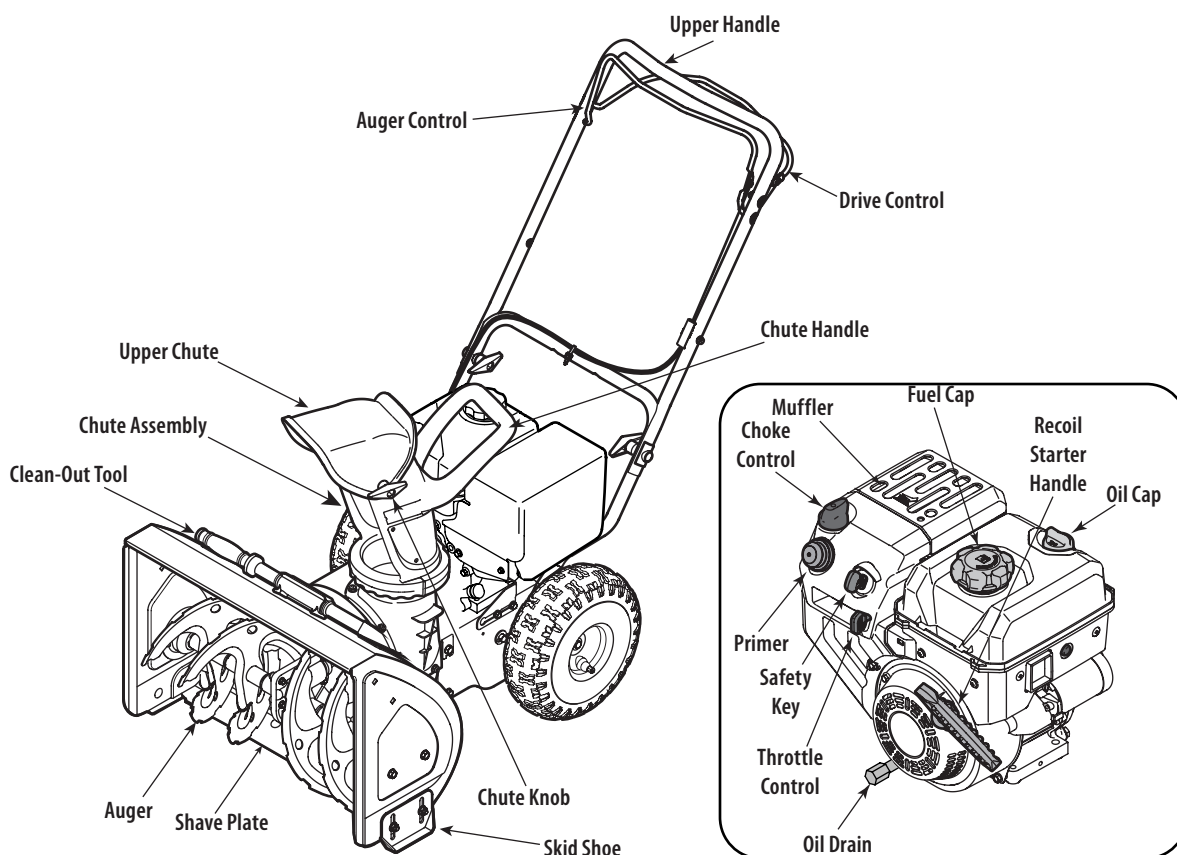


Figure 9



WARNING

Be familiar with all the controls on the snow thrower and their proper operation. Know how to stop the machine and disengage them quickly.

Snow thrower controls and features are described below and illustrated in Figure 9.

Drive Control

Located on the underside of the upper handle, the drive control is used to engage/disengage wheels. Squeeze the drive control against the upper handle to engage the wheels; release to disengage.

Auger Control

The auger control is located on the front of the upper handle. Squeeze the auger control against the upper handle to engage the auger; release to disengage the auger.



WARNING

Never make adjustments to the chute assembly unless both auger and drive controls are disengaged and the operator is standing beside the unit.

IMPORTANT: Refer to Auger Control Test on page 10 in the Assembly section of this manual prior to operating your snow thrower. Read and follow all instructions carefully and perform all adjustments to verify your snow thrower is operating safely and properly.

Chute Handle

The direction of snow throwing corresponds to the direction of the chute opening. Use the chute handle to turn the chute assembly in the direction you wish to throw the snow.

Chute Knob

The distance snow is thrown can be adjusted by either raising or lowering the upper chute. Loosen the chute knob on the side of the upper chute to adjust. Pivot the upper chute to desired position, and retighten the chute knob. Raising the chute throws the snow further.

Shave Plate

The shave plate maintains contact with pavement as the snow thrower is propelled, allowing snow close to pavement's surface to be discharged.

Skid Shoe

The space between the shave plate and the ground can be adjusted. For close snow removal, place skid shoes in the highest position. Use middle or lowest position when area to be cleared is uneven or on gravel surfaces.

OPERATION

Auger

When engaged, the auger rotates and draws snow towards the center of the auger housing.

Chute Assembly

Snow drawn into the auger housing is discharged out the chute assembly.

Choke Control

The choke control aids in starting the engine. For information on choke usage, see Starting Engine later on page 13.



Recoil Starter Handle

This motor is fitted with a recoil action pull start and a mitten grip handle for easy access while wearing gloves or mittens.

Safety Key

The safety key is a safety device. It must be fully inserted in order for the engine to start. Remove the safety key when the snow thrower is not in use.

NOTE: Do not turn the safety key in an attempt to start the engine. Doing so may cause it to break.



Primer

Pressing the primer forces fuel directly into engine's carburetor to aid in cold-weather starting. Refer to the starting instructions in the Operation section of on page 13 for proper primer usage. The image to the right corresponds with the label on the engine identifying the primer.



Oil Cap

Remove oil cap to add oil. Refer to the Maintenance & Service section for checking and adding oil instructions.


Fuel Cap

Remove fuel cap to add fuel. Refer to page 13 for Gasoline instructions.

NOTE: This unit may include a fuel plug, which is only used during assembly to keep dirt and debris out of fuel tank. Discard the fuel plug before filling the fuel tank.

Throttle Control



The throttle control is located on the engine. It regulates the speed of the engine and will shut OFF the engine when placed in the STOP  position.

Clean-Out Tool



WARNING

Never use your hands to clear a clogged chute assembly. Shut OFF engine and remain behind handles until all moving parts have stopped before using the clean-out tool to clear the chute assembly.

The chute clean-out tool is conveniently fastened to the rear of the auger housing with a mounting clip. Should snow and ice become lodged in the chute assembly during operation, proceed as follows to safely clean the chute assembly and chute opening:

1. Release both the auger control and the drive control.
2. Stop the engine by removing the safety key or position the throttle to the STOP position.
3. Remove the clean-out tool from the clip which secures it to the rear of the auger housing.
4. Use the shovel-shaped end of the clean-out tool to dislodge and scoop any snow and ice which has formed in and near the chute assembly.
5. Refasten the clean-out tool to the mounting clip on the rear of the auger housing, reinsert the safety key and start the snow thrower's engine.
6. While standing in the operator's position (behind the snow thrower), engage the auger control for a few seconds to clear any remaining snow and ice from the chute assembly.

Before Starting Engine



WARNING

Read, understand, and follow all instructions and warnings on the machine and in this manual before operating.

Check Engine Oil

The unit was shipped with oil in the engine. Check oil level before each operation to ensure adequate oil in the engine. For further instructions, refer to Checking Engine Oil on page 15 of the Maintenance & Service section of this manual.

NOTE: Be sure to check the engine on a level surface with the engine stopped.

1. Remove the oil filler cap/dipstick and wipe the dipstick clean.
2. Insert the cap/dipstick into the oil filler neck, turn the cap 1/4-turn until fully seated.

NOTE: On some engines, a threaded cap/dipstick may exist instead of a 1/4-turn cap as described in Step 2. In this instance do not fully tighten the cap to check the oil level. Simply rest the cap on the threads to check for proper oil level.

3. Remove the oil filler cap/dipstick. If the level is low, slowly add oil (5W-30, with a minimum classification of SF/SG) until oil level registers between high (H) and low (L).

NOTE: Do not overfill. Overfilling with oil may result in engine smoking, hard starting or spark plug fouling.

4. Replace and tighten cap/dipstick firmly before starting engine.

OPERATION

Gasoline

Use automotive gasoline (unleaded or low leaded to minimize combustion chamber deposits) with a minimum of 87 octane. Gasoline with up to 10% ethanol or 15% MTBE (Methyl Tertiary Butyl Ether) can be used. Never use an oil/gasoline mixture or dirty gasoline. Avoid getting dirt, dust, or water in the fuel tank. DO NOT use E85 gasoline.

- Refuel in a well-ventilated area with the engine stopped. Do not smoke or allow flames or sparks in the area where the engine is refueled or where gasoline is stored.
- Do not overfill the fuel tank. After refueling, make sure the tank cap is closed properly and securely.
- Be careful not to spill fuel when refueling. Spilled fuel or fuel vapor may ignite. If any fuel is spilled, make sure the area is dry before starting the engine.
- Avoid repeated or prolonged contact with skin or breathing of vapor.



WARNING

Use extreme care when handling gasoline. Gasoline is extremely flammable and the vapors are explosive. Never fuel the machine indoors or while the engine is hot or running. Extinguish cigarettes, cigars, pipes and other sources of ignition.

1. Clean around fuel fill before removing cap to fuel to avoid dirt and debris falling into fuel tank.
2. Fill tank until fuel reaches 1/2 inch below the bottom of the filler neck to allow space for fuel expansion. Be careful not to overfill.

Starting Engine



WARNING

Always keep hands and feet clear of moving parts. Do not use a pressurized starting fluid. Vapors are flammable.

NOTE: Allow the engine to warm up for a few minutes after starting. The engine will not develop full power until it reaches operating temperatures.

1. Make certain both the auger control and drive control are in the disengaged (released) position.
2. Insert safety key into slot. Make sure it snaps into place. Do not attempt to turn the safety key.



NOTE: The engine cannot start without the safety key fully inserted into the switch.

Recoil Starter



CAUTION

Do not pull the starter handle while the engine is running.

1. Move throttle control to FAST (rabbit)  position.
2. Move choke control to the CHOKE position  (cold engine start). If engine is warm, place choke control in RUN position.
3. Push primer three times, making sure to cover vent hole when pushing. If engine is warm, push primer only once. Always cover vent hole when pushing. Cool weather may require priming to be repeated.

4. Pull gently on the starter handle until it begins to resist, then pull quickly and forcefully to overcome the compression. Engine should start. Do not release the handle and allow it to snap back. Return rope SLOWLY to original position. If required, repeat this step.
5. As the engine warms, slowly rotate the choke control to RUN position. If the engine falters, restart engine and run with choke control at half-choke position for a short period of time, and then slowly rotate the choke into RUN position.




WARNING


To avoid unsupervised engine operation, never leave the machine unattended with the engine running. Turn the engine OFF after use and remove safety key.

Stopping Engine

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

1. Move throttle control to STOP  position.
2. Remove the safety key. Removing the key will reduce the possibility of unauthorized starting of the engine while equipment is not in use. Keep the safety key in a safe place. The engine cannot start without the safety key.
3. Wipe any moisture away from the controls on the engine.

To Stop Snow Thrower

1. To stop the wheels, release the drive control.
2. To stop throwing snow, release the auger control.
3. To stop engine, move throttle control lever to OFF  and pull out the safety key. Do not turn safety key.



WARNING

The temperature of muffler and the surrounding areas may exceed 150° F. Avoid these areas.

OPERATION

Using Snow Thrower to Clear Snow

CAUTION

Check the area to be cleared for foreign objects. Remove foreign objects, if any.

1. Start the engine following starting instructions.
2. Allow the engine to warm up for a few minutes as the engine will not develop full power until it reaches operating temperature.
3. Rotate the chute assembly to the desired direction, away from bystanders and/or buildings.
4. Making certain no bystanders or obstacles are in front of the unit, squeeze the auger control completely against the upper handle to fully engage the auger.
5. While the auger control is engaged, squeeze the drive control completely against the upper handle to engage the wheels. Do not "feather" the drive control.
6. As the snow thrower starts to move, maintain a firm hold on the handle, and guide the snow thrower along the path to be cleared.
7. Release the auger and drive controls to stop the snow throwing action and forward motion.
NOTE: Your unit is equipped with a clutch in the transmission. If the wheels stop turning while trying to discharge large volumes of snow, immediately disengage the drive control and allow the rotating auger to discharge snow from the housing. Reduce the clearing width and continue operation.
8. On each succeeding pass, readjust the chute assembly to the desired position and slightly overlap the previously cleared path.

Positioning Discharge Chute

Loosen the chute knob and pivot upper chute to desired position. Tighten the chute knob making sure the carriage bolt is correctly positioned. Raising the chute throws snow further.

1. Rotate chute handle to desired operating position.

WARNING

Do not lift the snow thrower at any time by the chute handle.

Operating Tips

1. For most efficient snow removal, remove snow immediately after it falls.
2. Discharge snow downwind whenever possible. Slightly overlap each previous path.
3. Set the skid shoes 1/4" below the shave plate for normal usage. The skid shoes may be adjusted upward for hard-packed snow.
NOTE: It is not recommended that you operate this snow thrower on gravel as loose gravel can be easily picked up and thrown by the auger causing personal injury and/or damage to the snow thrower.
4. If you choose to operate the snow thrower on gravel, keep the skid shoes in the lowest position for maximum clearance between the ground and the shave plate.
5. Clean the snow thrower thoroughly after each use.

Replacing Shear Pins

The auger is secured to the spiral shaft with two shear pins and bow-tie clips. If the auger should strike a foreign object or ice jam, the snow thrower is designed so that the shear pins may shear. If auger will not turn, check to see if the pins have sheared. See Figure 10.

CAUTION

NEVER replace the auger shear pins with anything other than OEM Part No. 738-04124A replacement shear pins. Any damage to the snow thrower as a result of failing to do so will NOT be covered by your snow thrower's warranty.

WARNING

Always turn OFF the snow thrower's engine and remove the safety key prior to replacing shear pins.

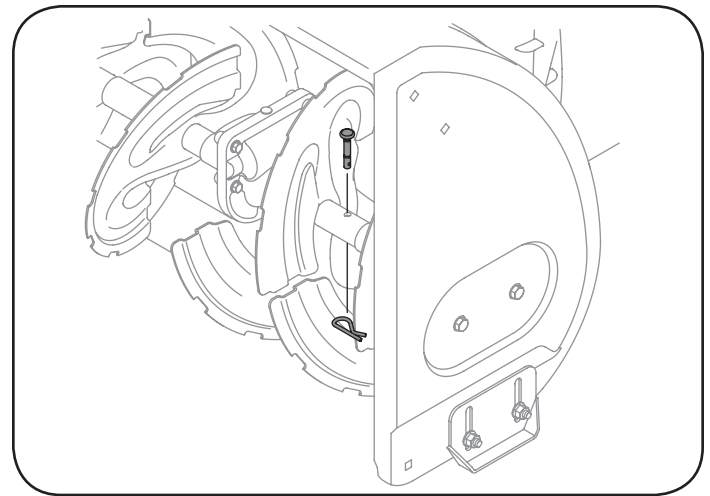


Figure 10

MAINTENANCE & SERVICE



WARNING

Before servicing, repairing, lubricating or inspecting, disengage all controls and stop engine. Wait until all moving parts have come to a complete stop. Remove the safety key to prevent unintended starting. Always wear safety glasses during operation or while performing any adjustments or repairs.

Follow the maintenance schedule given below. This chart describes service guidelines only. Use the Service Log column to keep track of completed maintenance tasks. To locate the nearest Sears Service Center or to schedule service, simply contact Sears at 1-888-331-4569.

Maintenance Schedule

Interval	Item	Service	Service Log
Each Use and every 5 hours	<ol style="list-style-type: none"> Engine oil level Loose or missing hardware Unit and engine 	<ol style="list-style-type: none"> Check Tighten or replace Clean 	
First 5 hours	<ol style="list-style-type: none"> Engine oil 	<ol style="list-style-type: none"> Change 	
Annually or 25 hours	<ol style="list-style-type: none"> Spark plug Auger and drive control Auger idler bracket Wheels Gear shaft and Auger shaft 	<ol style="list-style-type: none"> Check Lube with light oil Lube with light oil Lube with multipurpose auto grease Lube with light oil 	
Annually or 50 hours	<ol style="list-style-type: none"> Engine oil Belts 	<ol style="list-style-type: none"> Change Check 	
Annually or 100 hours	<ol style="list-style-type: none"> Spark plug 	<ol style="list-style-type: none"> Change 	
Before Storage	<ol style="list-style-type: none"> Fuel system 	<ol style="list-style-type: none"> Run engine until it stops from lack of fuel 	

ENGINE MAINTENANCE

Checking Engine Oil



WARNING

Before lubricating, repairing, or inspecting, disengage all controls and stop engine. Wait until all moving parts have come to a complete stop. Remove the safety key to prevent unintended firing of the engine.

NOTE: Check the oil level before each use and after every five hours of operation to be sure correct oil level is maintained.

When adding oil to the engine, refer to viscosity chart on the next page. Engine oil capacity is 600 ml (approximately 20 oz.). Do not over-fill. Use a 4-stroke, or an equivalent high detergent, premium quality motor oil certified to meet or exceed U.S. automobile manufacturer's requirements for service classification SG, SF. Motor oils classified SG, SF will show this designation on the container.

- Remove the oil filler cap/dipstick and wipe the dipstick clean.
- Insert the cap/dipstick into the oil filler neck, turn the cap 1/4-turn until fully seated.

NOTE: On some engines, a threaded cap/dipstick may exist instead of a 1/4-turn cap as described in Step 2. In this instance do not fully tighten the cap to check the oil level. Simply rest the cap on the threads to check for proper oil level.

- Remove the oil filler cap/dipstick. If level is low, slowly add oil until oil level registers between high (H) and low (L). See Figure 11.
- Replace and tighten cap/dipstick firmly before starting engine.

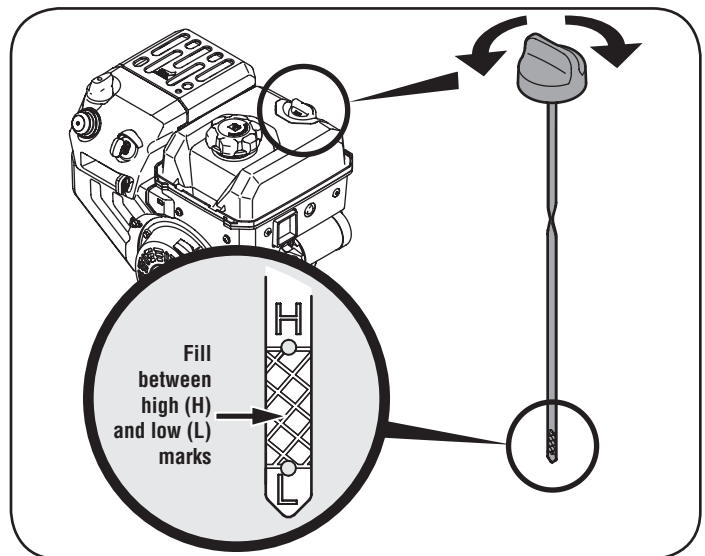


Figure 11

MAINTENANCE & SERVICE

Changing Engine Oil

NOTE: Change the engine oil after the first 5 hours of operation and once a season or every 50 hours thereafter.

1. Drain fuel from tank by running engine until the fuel tank is empty. Be sure fuel fill cap is secure.
2. Place suitable oil collection container under oil drain plug.
3. Remove oil drain plug. See Figure 12.
4. Tip engine to drain oil into the container. Used oil must be disposed of at a proper collection center.



CAUTION

Used oil is a hazardous waste product. Dispose of used oil properly. Do not discard with household waste. Check with your local authorities or Sears Service Center for safe disposal/recycling facilities.

5. Reinstall the drain plug and tighten it securely.
6. Refill with the recommended oil and check the oil level. See Recommended Oil Usage chart. The engine's oil capacity is 20 ounces.

		Synthetic 0W-30			
		5W-30			
(°F)	-40°	-20°	0°	20°	40°
(°C)	-30°	-20°	-10°	0°	



CAUTION

DO NOT use non-detergent oil or 2-stroke engine oil. It could shorten the engine's service life.

7. Reinstall the oil filler cap/dipstick securely.



CAUTION

Thoroughly wash your hands with soap and water as soon as possible after handling used oil.

Checking Spark Plug



WARNING

DO NOT check for spark with spark plug removed. DO NOT crank engine with spark plug removed.



WARNING

If the engine has been running, the muffler will be very hot. Be careful not to touch the muffler.

NOTE: Check the spark plug once a season or every 25 hours of operation. Change the spark plug once a season or every 100 hours.

To ensure proper engine operation, the spark plug must be properly gapped and free of deposits.

1. Remove the spark plug boot and use a spark plug wrench to remove the plug. See Figure 13.

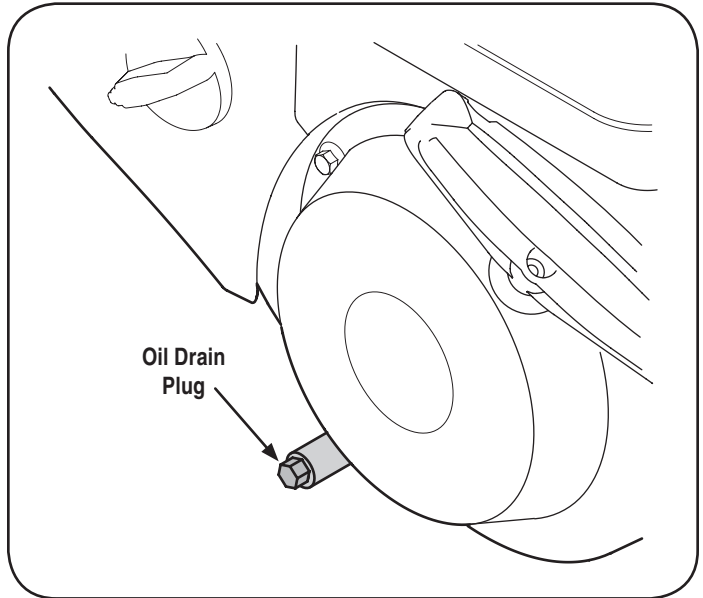


Figure 12

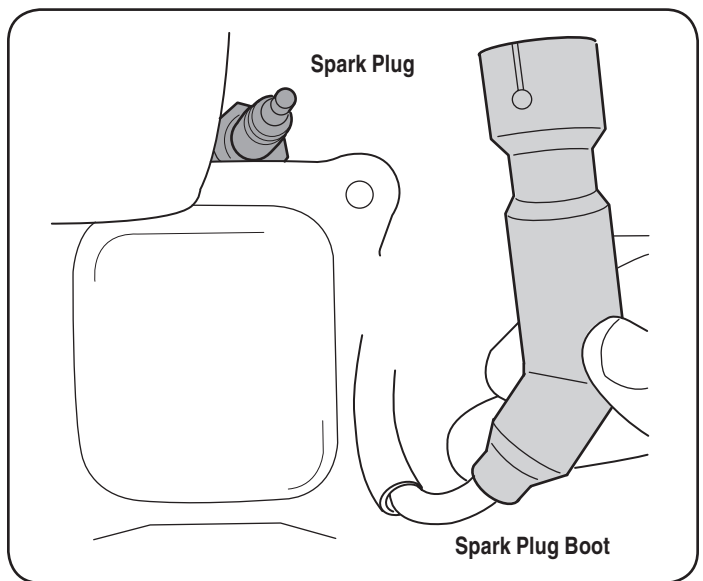


Figure 13

MAINTENANCE & SERVICE

2. Visually inspect the spark plug. Discard the spark plug if there is apparent wear, or if the insulator is cracked or chipped. Clean the spark plug with a wire brush if it is to be reused.
NOTE: An F6RTC spark plug must be used for replacement. For Sears purchase, visit a Sears Parts & Repair Center or call 1-888-331-4569. Ask for replacement spark plug 951-10292.
3. Measure the plug gap with a feeler gauge. Correct as necessary by bending side electrode. See Figure 14. The gap should be set to 0.020-0.030 inches (0.60-0.80 mm).

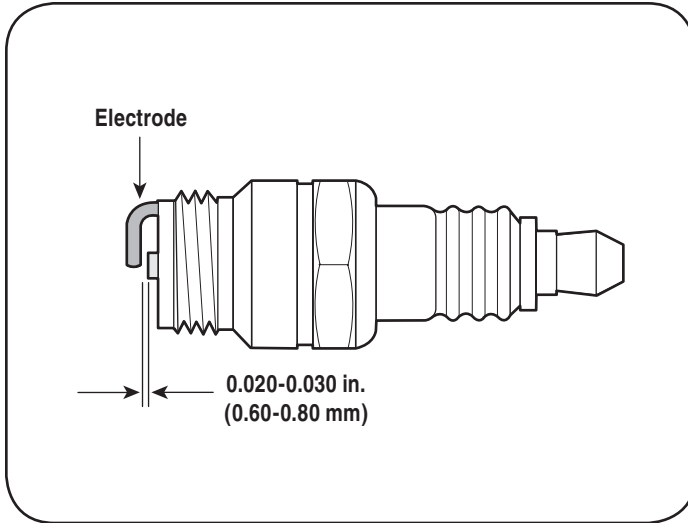


Figure 14

4. Check that the spark plug washer is in good condition and thread the spark plug in by hand to prevent cross-threading.
5. After the spark plug is seated, tighten with a spark plug wrench to compress the washer.

NOTE: When installing a new spark plug, tighten 1/2-turn after the spark plug seats to compress the washer. When reinstalling a used spark plug, tighten 1/8- to 1/4-turn after the spark plug seats to compress the washer.

Lubrication

For a view of the lubrication points on the snow thrower, see Figure 15.

1. Lubricate pivot points on the auger control and drive control with a light engine oil once a season.
2. Lubricate the auger idler bracket with a light engine oil once a season.

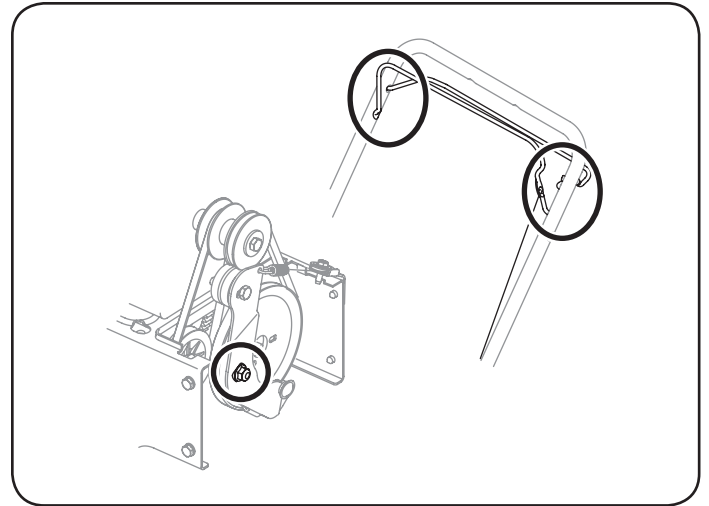


Figure 15

Wheels

At least once a season, remove both wheels. Clean and coat the axles with a multipurpose automotive grease before reinstalling wheels.

Auger Shaft

At least once a season, remove the shear pins on auger shaft. Spray any general purpose lubricant inside shaft, and around the spacers and flange bearings found at either end of the shaft. See Figure 16.

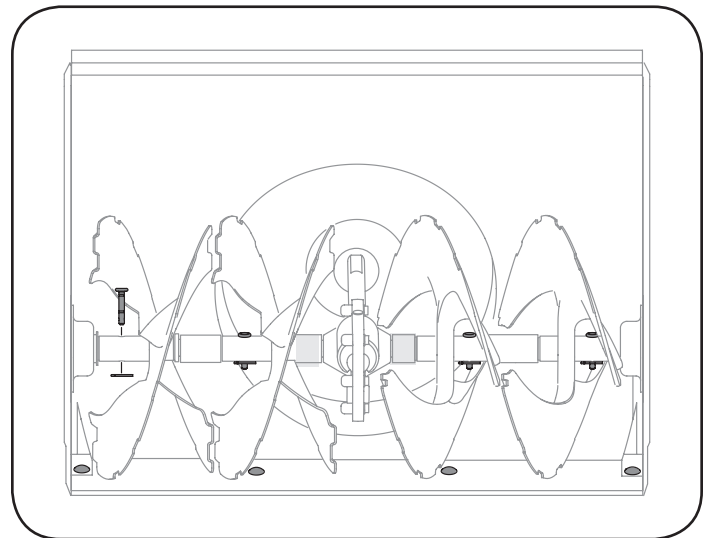


Figure 16

MAINTENANCE & SERVICE

Shave Plate and Skid Shoes

The shave plate and skid shoes on the bottom of the snow thrower are subject to wear. These should be checked periodically and replaced when necessary.

To replace skid shoes:

1. Remove two carriage bolts and nuts securing each skid shoe to the auger housing. See Figure 17.

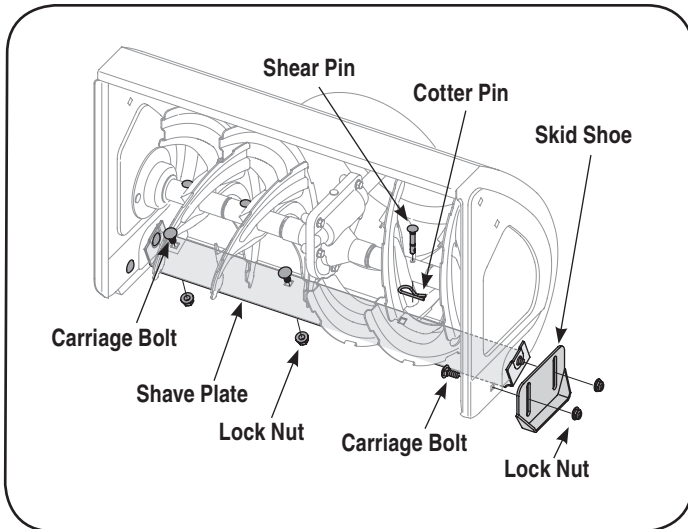


Figure 17

2. Reassemble new skid shoes with hardware removed in Step 1. Make sure the skid shoes are adjusted to be level.

To remove shave plate:

1. Run the engine out of fuel. Do not attempt to pour fuel from the engine.
2. Lift and tilt the unit forward to position the auger housing on its front face.
3. Remove both skid shoes and carriage bolts and lock nuts which attach shave plate to the snow thrower housing. See Figure 17.
4. Reassemble new shave plate, making sure heads of the carriage bolts are to the inside of the housing. Reinstall skid shoes. Tighten securely.

Adjusting Auger Cable

Refer to page 10 of the Assembly section for instructions on adjusting the auger control cable.

Check Belts

Follow instructions below to check condition of the belts every 50 hours of operation.

1. Remove the plastic belt cover on the front of the engine by removing the self-tapping screw shown in Figure 18 and pressing the plastic tabs to release the belt cover.

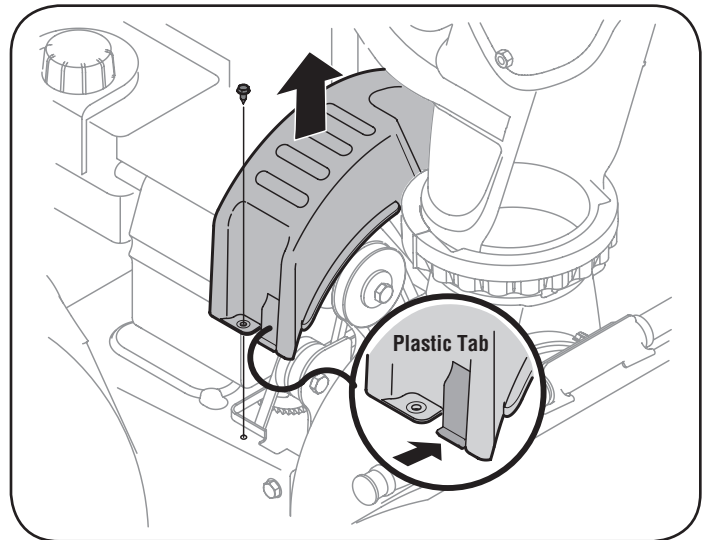


Figure 18

2. Visually inspect for frayed, cracked, or excessively worn out belts. Replace, if necessary, and follow instructions below.

Replacing Belts

NOTE: There are two belts on this snow thrower: an auger belt and drive belt.

1. Remove the spark plug wire from spark plug and ground it against the engine to prevent accidental starting.
2. Run the engine until the fuel tank is empty to prevent gasoline leakage when replacing belts.



WARNING

Perform belt maintenance outdoors as some gas may possibly leak from the carburetor.

3. Remove the self-tapping screw shown in Figure 18, and press the plastic tabs to release the belt cover. Pull the belt cover up and out from around the engine and chute assembly. Set it aside and save.

MAINTENANCE & SERVICE

Auger Belt

IMPORTANT: Because gas could leak from the carburetor when servicing auger belt, run the engine until the fuel tank is empty as instructed in Replacing Belts.

1. Tip the snow thrower up and forward so that it rests on the auger housing. Remove the belt keeper as called out in Figure 20. Return the snow thrower to its upright position to complete the following steps.
2. Slip the front auger belt off of the engine pulley, pushing it forward and rolling in off of the pulley. See Figure 19.

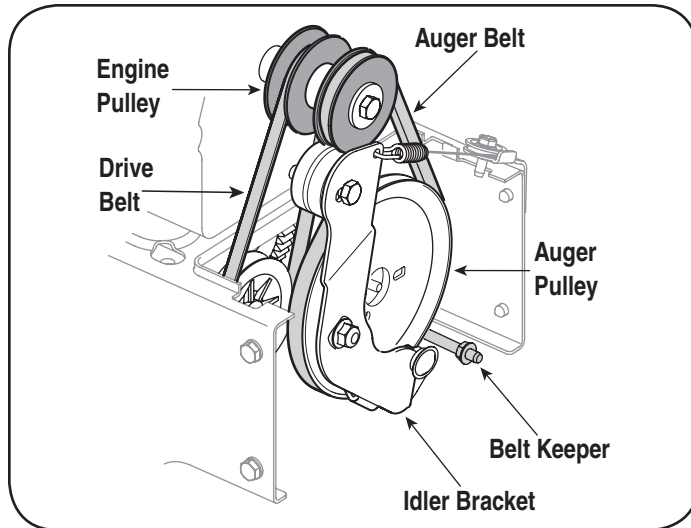


Figure 19

3. Squeeze the auger control to release the auger brake, which is the tab that holds the belt onto the auger pulley. Remove the belt.
4. If the drive belt is also being replaced proceed to Drive Belt instructions.
5. If the drive belt is not being replaced, install new auger belt and re-install belt cover and belt keeper shown in Figure 20.

Drive Belt

IMPORTANT: Because gas could leak from the carburetor when servicing auger belt, run the engine until the fuel tank is empty, as instructed in Replacing Belts.

1. Tip the snow thrower up and forward so that it rests on the auger housing.
2. Remove the spring that connects the transmission to a bolt on the engine frame. See Figure 20.

NOTE: It may be easier to first remove the flange lock nut, then use needle-nosed pliers to firmly grip spring and remove from bolt.

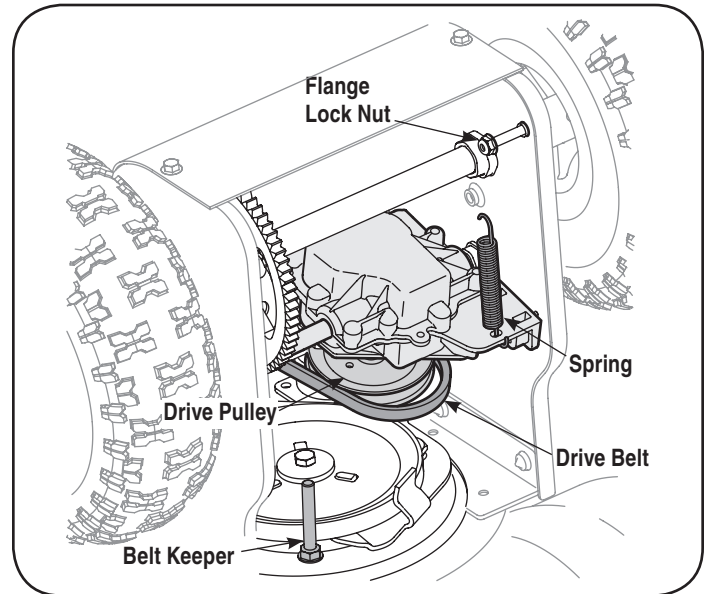


Figure 20

3. Pivot the transmission forward to release pressure on the drive belt. Remove belt from transmission pulley.
4. Remove the drive belt from around the engine pulley, and away from the unit.
5. Place the new drive belt into the groove on the engine pulley. See Figure 19.
6. Tilt the transmission forward and position the drive belt onto the transmission pulley.
7. Reconnect the spring to the bolt on the engine frame and secure the transmission. Reinstall the flange lock nut.
8. Install new auger belt.
9. Reassemble the belt cover on the snow thrower.
10. Reassemble the belt keeper to the housing.

OFF-SEASON STORAGE

If the snow thrower will not be used for 30 days or longer, or if the end of the snow season, the equipment needs to be stored properly. Follow storage instructions below to ensure top performance from the snow thrower for future use.

Preparing Engine

Engines stored over 30 days need to be drained of fuel to prevent deterioration and gum from forming in fuel system or on essential carburetor parts. If the gasoline in your engine deteriorates during storage, you may need to have the carburetor, and other fuel system components, serviced or replaced.

1. Remove all fuel from tank by running engine until it stops. Do not attempt to pour fuel from the engine.
 2. Change the engine oil.
 3. Remove spark plug and pour approximately 1 oz. (30 ml) of clean engine oil into the cylinder. Pull the recoil starter several times to distribute the oil, and reinstall the spark plug.
 4. Clean debris from around engine, and under, around, and behind muffler. Apply a light film of oil on any areas that are susceptible to rust.
- Store in a clean, dry and well ventilated area away from any appliance that operates with a flame or pilot light, such as a furnace, water heater, or clothes dryer. Avoid any area with a spark producing electric motor, or where power tools are operated.

WARNING

Never store snow thrower with fuel in tank indoors or in poorly ventilated areas, where fuel fumes may reach an open flame, spark or pilot light as on a furnace, water heater, clothes dryer or gas appliance.

- If possible, avoid storage areas with high humidity.
- Keep the engine level during storage. Tilting can cause fuel or oil leakage.

Preparing Snow Thrower

- When storing the snow thrower in an unventilated or metal storage shed, care should be taken to rustproof the equipment. Using a light oil or silicone, coat the equipment, especially any chains, springs, bearings and cables.
- Remove all dirt from exterior of engine and equipment.
- Follow lubrication recommendations.
- Store equipment in a clean, dry area.
- Inflate the tires to the tire manufacturers recommended pressure. Refer to tire sidewall.
- Store snow thrower in operating position with both wheels and shave plate on level ground surface.

TROUBLESHOOTING

WARNING

Disconnect the spark plug wire and ground it against the engine to prevent unintended starting. Before performing any type of maintenance/service, disengage all controls and stop the engine. Wait until all moving parts have come to a complete stop. Always wear safety glasses during operation or while performing any adjustments or repairs.

This section addresses minor service issues. To locate the nearest Sears Service Center or to schedule service, call the following toll free number: 1-888-331-4569.

Problem	Cause	Remedy
Engine fails to start	<ol style="list-style-type: none"> 1. Choke control not in Choke position. 2. Spark plug wire disconnected. 3. Faulty spark plug. 4. Fuel tank empty or stale fuel. 5. Engine not primed. 6. Safety key not inserted. 7. Extension cord not connected (when using electric start button) 	<ol style="list-style-type: none"> 1. Move choke control to Choke position. 2. Connect wire to spark plug. 3. Clean, adjust gap, or replace. 4. Fill tank with clean, fresh gasoline. 5. Prime engine as instructed in the Operation Section. 6. Insert safety key fully into the switch. 7. Connect one end of the extension cord to the electric starter outlet and the other end to a three-prong 120V, grounded, AC outlet.
Engine running erratically/ inconsistent RPM (hunting or surging)	<ol style="list-style-type: none"> 1. Engine running on choke. 2. Fuel line blocked, or stale fuel. 3. Water or dirt in fuel system. 4. Carburetor out of adjustment. 5. Over-governed engine. 	<ol style="list-style-type: none"> 1. Move choke lever to RUN position. 2. Clean fuel line and fill tank with fresh, clean gasoline. 3. Run engine until it stops. Refill with fresh fuel. 4. Contact your Sears Parts & Repair Center. 5. Contact your Sears Parts & Repair Center.
Excessive vibration	<ol style="list-style-type: none"> 1. Loose parts or damaged auger. 	<ol style="list-style-type: none"> 1. Stop engine immediately and disconnect spark plug wire. Tighten all bolts and nuts. If vibration continues, have unit serviced by a Sears Parts & Repair Center.
Loss of power	<ol style="list-style-type: none"> 1. Spark plug wire loose. 2. Gas cap vent hole plugged. 	<ol style="list-style-type: none"> 1. Connect and tighten spark plug wire. 2. Remove ice and snow from gas cap. Be certain vent hole is clear.
Unit fails to propel itself	<ol style="list-style-type: none"> 1. Drive cable in need of adjustment. 2. Drive belt loose or damaged. 	<ol style="list-style-type: none"> 1. Adjust drive control cable. Refer to Service and Maintenance section. 2. Replace drive belt. Refer to Service & Maintenance section.
Unit fails to discharge snow	<ol style="list-style-type: none"> 1. Chute assembly clogged. 2. Foreign object lodged in auger. 3. Auger cable in need of adjustment. 4. Auger belt loose or damaged. 5. Shear pin(s) sheared. 	<ol style="list-style-type: none"> 1. Stop engine immediately and disconnect spark plug wire. Clean chute assembly and inside of auger housing with clean-out tool. 2. Stop engine immediately and disconnect spark plug wire. Remove object from auger with clean-out tool. 3. Adjust auger control cable. Refer to Assembly section. 4. Replace auger belt. Refer to Service and Maintenance section. 5. Replace with new shear pin(s).

FEDERAL and/or CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT

YOUR WARRANTY RIGHTS AND OBLIGATIONS

MTD Consumer Group Inc, the United States Environmental Protection Agency (EPA), and for those products certified for sale in the state of California, the California Air Resources Board (CARB) are pleased to explain the emission control system (ECS) warranty on your 2014-2015 small off-road spark-ignited engine and equipment (outdoor equipment). In California, new outdoor equipment must be designed, built and equipped to meet the State's stringent anti-smog standards (in other states, outdoor equipment must be designed, built, and equipped to meet the U.S. EPA small off-road spark ignition engine regulations). MTD Consumer Group Inc must warrant the ECS on your outdoor equipment for the period of time listed below, provided there has been no abuse, neglect, or improper maintenance of the outdoor equipment.

Your ECS may include parts such as the carburetor, fuel-injection system, ignition system, catalytic converter, fuel tanks, fuel lines, fuel caps, valves, canisters, filters, vapor hoses, clamps, connectors, and other associated emission-related components.

Where a warrantable condition exists, MTD Consumer Group Inc will repair your outdoor equipment at no cost to you including diagnosis, parts, and labor.

MANUFACTURER'S WARRANTY COVERAGE:

This emission control system is warranted for two years. If any emission-related part on your outdoor equipment is defective, the part will be repaired or replaced by MTD Consumer Group Inc.

OWNER'S WARRANTY RESPONSIBILITIES:

As the outdoor equipment owner, you are responsible for performance of the required maintenance listed in your owner's manual. MTD Consumer Group Inc recommends that you retain all receipts covering maintenance on your outdoor equipment, but MTD Consumer Group Inc cannot deny warranty solely for the lack of receipts.

As the outdoor equipment owner, you should however be aware that MTD Consumer Group Inc may deny you warranty coverage if your outdoor equipment or a part has failed due to abuse, neglect, improper maintenance, or unapproved modifications.

You are responsible for presenting your outdoor equipment to MTD Consumer Group Inc's distribution center or service center as soon as the problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days. If you have a question regarding your warranty coverage, you should contact the MTD Consumer Group Inc Service Department at 1-800-800-7310 or at <http://support.mtdproducts.com>.

GENERAL EMISSIONS WARRANTY COVERAGE:

MTD Consumer Group Inc warrants to the ultimate purchaser and each subsequent purchaser that the outdoor equipment is: (1) designed, built, and equipped so as to conform with all applicable regulations; and (2) free from defects in materials and workmanship that cause the failure of a warranted part for a period of two years.

The warranty period begins on the date the outdoor equipment is delivered to an ultimate purchaser or first placed into service.

Subject to certain conditions and exclusions as stated below, the warranty on emission-related parts is as follows:

1. Any warranted part that is not scheduled for replacement as required maintenance in the written instructions supplied is warranted for the warranty period stated above. If the part fails during the period of warranty coverage, the part will be repaired or replaced by MTD Consumer Group Inc according to subsection (4) below. Any such part repaired or replaced under warranty will be warranted for the remainder of the period.
 2. Any warranted part that is scheduled only for regular inspection in the written instructions supplied is warranted for the warranty period stated above. Any such part repaired or replaced under warranty will be warranted for the remaining warranty period.
 3. Any warranted part that is scheduled for replacement as required maintenance in the written instructions supplied is warranted for the period of time before the first scheduled replacement date for that part. If the part fails before the first scheduled replacement, the part will be repaired or replaced by MTD Consumer Group Inc according to subsection (4) below. Any such part repaired or replaced under warranty will be warranted for the remainder of the period prior to the first scheduled replacement point for the part.
 4. Repair or replacement of any warranted part under the warranty provisions herein must be performed at a warranty station at no charge to the owner.
 5. Notwithstanding the provisions herein, warranty services or repairs will be provided at all of our distribution centers that are franchised to service the subject engines or equipment.
 6. The outdoor equipment owner will not be charged for diagnostic labor that is directly associated with diagnosis of a defective, emission-related warranted part, provided that such diagnostic work is performed at a warranty station.
 7. MTD Consumer Group Inc is liable for damages to other engine or equipment components proximately caused by a failure under warranty of any warranted part.
 8. Throughout the off-road engine and equipment warranty period stated above, MTD Consumer Group Inc will maintain a supply of warranted parts sufficient to meet the expected demand for such parts.
 9. Any replacement part may be used in the performance of any warranty maintenance or repairs and must be provided without charge to the owner. Such use will not reduce the warranty obligations of MTD Consumer Group Inc.
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10. Add-on or modified parts that are not exempted by the Air Resources Board may not be used. The use of any non-exempted add-on or modified parts by the ultimate purchaser will be grounds for disallowing a warranty claim. MTD Consumer Group Inc will not be liable to warrant failures of warranted parts caused by the use of a non-exempted add-on or modified part.

WARRANTED PARTS:

The repair or replacement of any warranted part otherwise eligible for warranty coverage may be excluded from such warranty coverage if MTD Consumer Group Inc demonstrates that the outdoor equipment has been abused, neglected, or improperly maintained, and that such abuse, neglect, or improper maintenance was the direct cause of the need for repair or replacement of the part. That notwithstanding, any adjustment of a component that has a factory installed, and properly operating, adjustment limiting device is still eligible for warranty coverage. Further, the coverage under this warranty extends only to parts that were present on the off-road equipment purchased.

The following emission warranty parts are covered (if applicable):

1. Fuel Metering System
 - Cold start enrichment system (soft choke)
 - Carburetor and internal parts (or fuel injection system)
 - Fuel pump
 - Fuel tank
2. Air Induction System
 - Air cleaner
 - Intake manifold
3. Ignition System
 - Spark plug(s)
 - Magneto ignition system
4. Exhaust System
 - Catalytic converter
 - SAI (Reed valve)
5. Miscellaneous Items Used in Above System
 - Vacuum, temperature, position, time sensitive valves and switches
 - Connectors and assemblies
6. Evaporative Control
 - Fuel hose
 - Fuel hose clamps
 - Tethered fuel cap
 - Carbon canister
 - Vapor lines

REPAIR PROTECTION AGREEMENT

Congratulations on making a smart purchase. Your new Craftsman® product is designed and manufactured for years of dependable operation. But like all products, it may require repair from time to time. That's when having a Repair Protection Agreement can save you money and aggravation.

Here's what the Repair Protection Agreement* includes:

- ☑ **Expert service** by our 10,000 professional repair specialists
- ☑ **Unlimited service and no charge** for parts and labor on all covered repairs
- ☑ **Product replacement** up to \$1500 if your covered product can't be fixed
- ☑ **Discount of 25%** from regular price of service and related installed parts not covered by the agreement; also, 25% off regular price of preventive maintenance check
- ☑ **Fast help by phone** – we call it Rapid Resolution – phone support from a Sears representative. Think of us as a “talking owner's manual.”

Once you purchase the Repair Protection Agreement, a simple phone call is all that it takes for you to schedule service. You can call anytime day or night, or schedule a service appointment online.

The Repair Protection Agreement is a risk-free purchase. If you cancel for any reason during the product warranty period, we will provide a full refund. Or, a prorated refund anytime after the product warranty period expires. Purchase your Repair Protection Agreement today!

Some limitations and exclusions apply. For prices and additional information in the U.S.A. call 1-800-827-6655.

***Coverage in Canada varies on some items. For full details call Sears Canada at 1-800-361-6665.**

Sears Installation Service

*For Sears professional installation of home appliances, garage door openers, water heaters, and other major home items, in the U.S.A. call **1-888-331-4569**, and in Canada call **1-800-469-4663**.*