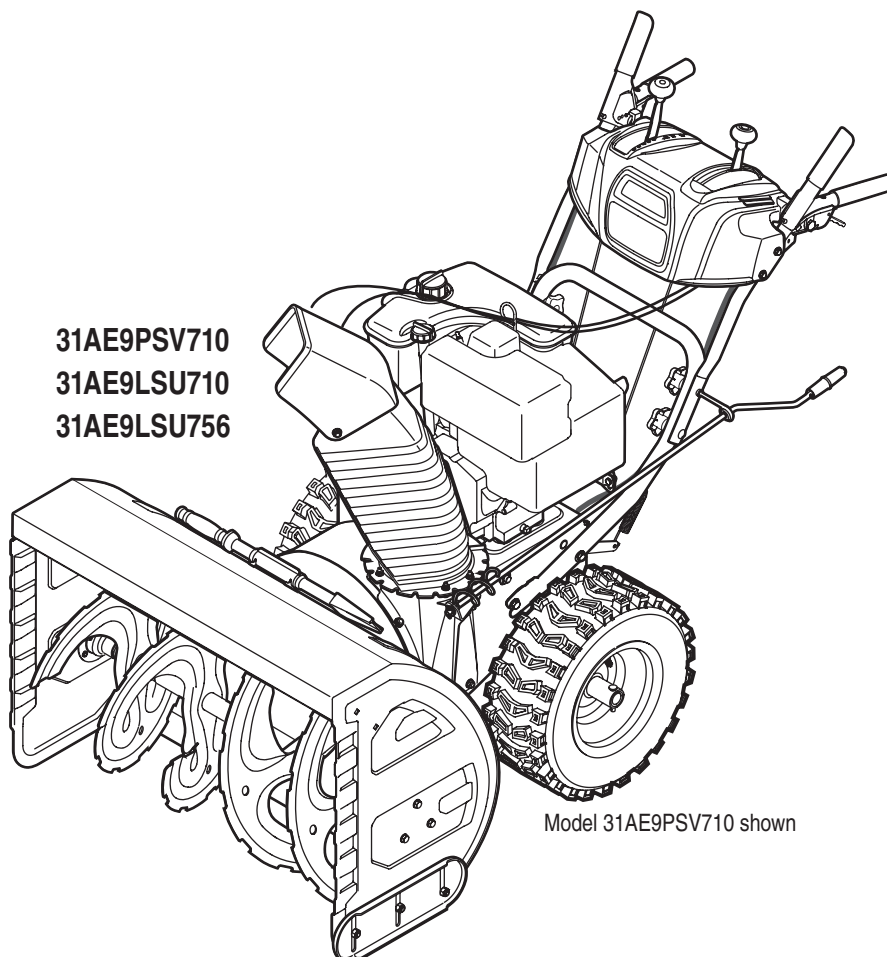


OPERATOR'S MANUAL

Cub Cadet®



Two Stage Snow Thrower — Models 930 SWE & 933 SWE

IMPORTANT

READ SAFETY RULES AND INSTRUCTIONS CAREFULLY BEFORE OPERATION

Warning: This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator. In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest engine authorized service dealer or contact the service department, P.O. Box 361131 Cleveland, Ohio 44136-0019.

This Operator's Manual is an important part of your new snow thrower. It will help you assemble, prepare and maintain the unit for best performance. Please read and understand what it says.

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Specifications are subject to change without notification or obligation. Images may not reflect your exact model and are for reference purposes only.

Finding and Recording Model Number

BEFORE ASSEMBLING YOUR NEW EQUIPMENT, please locate the model plate on the equipment and copy the information to the sample model plate provided to the right. You can locate the model plate by standing at the operating position and looking down at the rear of the snow thrower. This information will be necessary to use the manufacturer's web site or when obtaining assistance from an authorized Cub Cadet dealer.

Cub Cadet
www.cubcadet.com

CUB CADET LLC
P. O. BOX 361131
CLEVELAND, OH 44136
DEALER LOCATOR PHONE NUMBER: 877-282-8684

Customer Support

If you have difficulty assembling this product or have any questions regarding the controls, operation, or maintenance of this unit, you can contact the dealer you purchased the unit from or choose from the options below:

1. Visit **cubcadet.com** for many useful suggestions. Click on Customer Service or the Service Locator to find the nearest Cub Cadet service dealer in your area.
2. To reach the Customer Dealer Referral Line, please call 1-877-282-8684.
3. The **engine manufacturer** is responsible for all engine-related issues with regards to performance, power-rating, specifications, warranty and service. Please refer to the engine manufacturer's Owner's/Operator's Manual, packed separately with your unit, for more information.

The screenshot shows the Cub Cadet website interface. At the top left is the Cub Cadet logo with the tagline "THE SCIENCE OF COMMON SENSE." To the right of the logo is a navigation bar with links: HOME | ABOUT US | STORE LOCATOR | CUB CADET DIFFERENCE | FINANCING | YARD TIPS. Below the navigation bar is a search bar with the text "Search Text (optional)" and a "Search" button. To the left of the search bar is a dropdown menu for "Products & Services" with "All Products" selected. Below the search bar is a "Search by" dropdown menu with "Similar Phrases" selected. In the top right corner, there are links for "site map" and "customer service". In the bottom right corner, there is a "Powered by RightNow" logo.

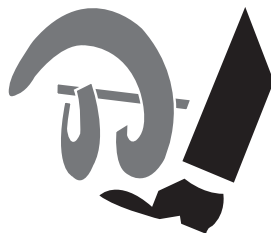
DANGER

1. KEEP AWAY FROM ROTATING IMPELLER AND AUGER. CONTACT WITH IMPELLER OR AUGER CAN AMPUTATE HANDS AND FEET.
2. USE CLEAN-OUT TOOL TO UNCLOG DISCHARGE CHUTE.
3. DISENGAGE CLUTCH LEVERS, STOP ENGINE, AND REMAIN BEHIND HANDLES UNTIL ALL MOVING PARTS HAVE STOPPED BEFORE UNCLOGGING OR SERVICING MACHINE.
4. TO AVOID THROWN OBJECTS INJURIES, NEVER DIRECT DISCHARGE AT BYSTANDERS. USE EXTRA CAUTION WHEN OPERATING ON GRAVEL SURFACES.
5. READ OPERATOR'S MANUAL.

CLEAN-OUT TOOL



DANGER

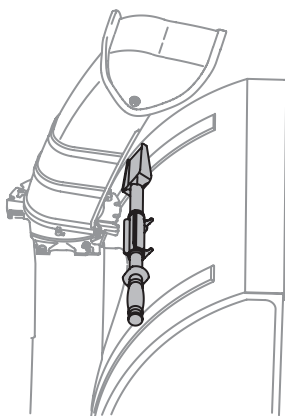


AVOID INJURY FROM ROTATING AUGER - KEEP HANDS, FEET AND CLOTHING AWAY.

DANGER



- NEVER PUT HAND IN CHUTE. CONTACT WITH ROTATING PARTS CAN AMPUTATE FINGERS AND HANDS.
- SHUT OFF ENGINE AND WAIT UNTIL ALL MOVING PARTS HAVE STOPPED BEFORE UNCLOGGING.
- USE CLEAN-OUT TOOL OR WOODEN STICK TO UNCLOG DISCHARGE CHUTE.



A chute clean-out tool is fastened to the top of the auger housing with a mounting clip. The tool is designed to clear a chute assembly of ice and snow.

This item is fastened with a cable tie at the factory. Cut the cable tie before operating the snow thrower.



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.

1

Safety Labels



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!

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.

2

Safe Operation Practices



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!

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.



WARNING: 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 rules for safe operation 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 hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

Training

1. Read, understand, and follow all instructions on the machine and in the manual(s) before attempting to assemble and operate. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
2. Be familiar with all controls and their proper operation. Know how to stop the machine and disengage them quickly.
3. Never allow children under 14 years old to operate this machine. Children 14 years old and over should read and understand the operation instructions and safety rules in this manual and should be trained and supervised by a parent.
4. Never allow adults to operate this machine without proper instruction.
5. Thrown objects can cause serious personal injury. Plan your snow-throwing pattern to avoid discharge of material toward roads, bystanders and the like.
6. Keep bystanders, helpers, pets and children at least 75 feet from the machine while it is in operation. Stop machine if anyone enters the area.
7. 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. Remove all doormats, newspapers, sleds, boards, wires and other foreign objects, which could be tripped over or thrown by the auger/impeller.
2. 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.
3. 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.
4. Use a grounded three-wire extension cord and receptacle for all units with electric start engines.
5. Adjust collector housing height to clear gravel or crushed rock surfaces.
6. Disengage all control levers before starting the engine.
7. Never attempt to make any adjustments while engine is running, except where specifically recommended in the operator's manual.
8. Let engine and machine adjust to outdoor temperature before starting to clear snow.
9. 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.
 - a. Use only an approved gasoline container.
 - b. Extinguish all cigarettes, cigars, pipes and other sources of ignition.
 - c. Never fuel machine indoors.
 - d. Never remove gas cap or add fuel while the engine is hot or running.
 - e. Allow engine to cool at least two minutes before refueling.
 - f. Never over fill fuel tank. Fill tank to no more than ½ inch below bottom of filler neck to provide space for fuel expansion.
 - g. Replace gasoline cap and tighten securely.
 - h. If gasoline is spilled, wipe it off the engine and equipment. Move machine to another area. Wait 5 minutes before starting the engine.
 - i. Never store the machine or fuel container inside where there is an open flame, spark or pilot light (e.g. furnace, water heater, space heater, clothes dryer etc.).
 - j. Allow machine to cool at least 5 minutes before storing.

Operation

1. 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.
2. The auger/impeller control lever is a safety device. Never bypass its operation. Doing so makes the machine unsafe and may cause personal injury.
3. The control levers must operate easily in both directions and automatically return to the disengaged position when released.
4. Never operate with a missing or damaged chute assembly. Keep all safety devices in place and working.
5. Never run an engine indoors or in a poorly ventilated area. Engine exhaust contains carbon monoxide, an odorless and deadly gas.
6. Do not operate machine while under the influence of alcohol or drugs.
7. Muffler and engine become hot and can cause a burn. Do not touch.
8. Exercise extreme caution when operating on or crossing gravel surfaces. Stay alert for hidden hazards or traffic.
9. Exercise caution when changing direction and while operating on slopes.
10. 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.
11. Never direct discharge at children, bystanders and pets or allow anyone in front of the machine.
12. Do not overload machine capacity by attempting to clear snow at too fast of a rate.
13. 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.
14. Disengage power to the auger/impeller when transporting or not in use.
15. Never operate machine at high transport speeds on slippery surfaces. Look down and behind and use care when backing up.
16. 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.
17. 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 unclogging the chute assembly, making any adjustments, or inspections.
18. Never put your hand in the discharge or collector openings. Always use the clean-out tool provided to unclog the discharge opening. Do not unclog chute assembly while engine is running. Shut off engine and remain behind handles until all moving parts have stopped before unclogging.
19. Use only attachments and accessories approved by the manufacturer (e.g. wheel weights, tire chains, cabs etc.).
20. If situations occur which are not covered in this manual, use care and good judgment. Contact your dealer for assistance.

Maintenance & Storage

1. Never tamper with safety devices. Check their proper operation regularly. Refer to the maintenance and adjustment sections of this manual.
2. 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.
3. 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.
4. Do not change the engine governor setting or over-speed the engine. The governor controls the maximum safe operating speed of the engine.
5. 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. "Use of parts which do not meet the original equipment specifications may lead to improper performance and compromise safety!"
6. Check controls periodically to verify they engage and disengage properly and adjust, if necessary. Refer to the adjustment section in this operator's manual for instructions.
7. Maintain or replace safety and instruction labels, as necessary.
8. Observe proper disposal laws and regulations for gas, oil, etc. to protect the environment.
9. Prior to storing, run machine a few minutes to clear snow from machine and prevent freeze up of auger/impeller.
10. 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.
11. Always refer to the operator's manual for proper instructions on off-season storage.

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) and Three Way Catalyst (TWC) if so equipped.

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.

2

Safe Operation Practices



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 IT'S 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.

3

Setting Up Your Snow Thrower



NOTE: All references in this manual to the left or right side of the snow thrower is from the operating position only. Exceptions, if any, will be specified.

IMPORTANT

This unit is shipped with the engine full of oil. After assembly, refer to the Tecumseh Engines manual packed separately with your snow thrower for fuel and oil fill-up details.

Specifications are subject to change without notification or obligation. Images may not reflect your exact model and are for reference purposes only.

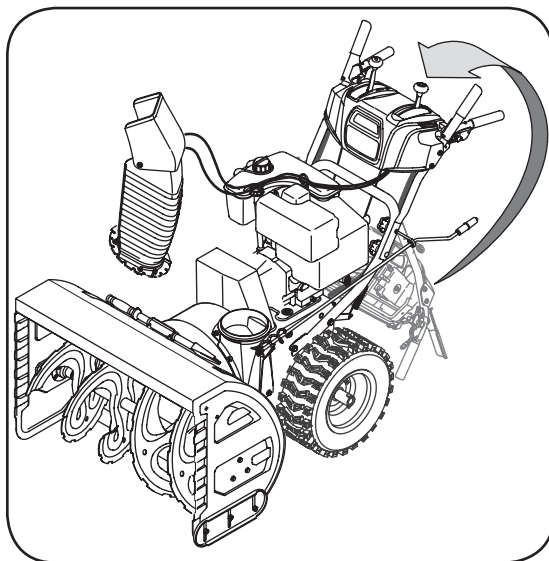


Figure 3-1



Figure 3-2

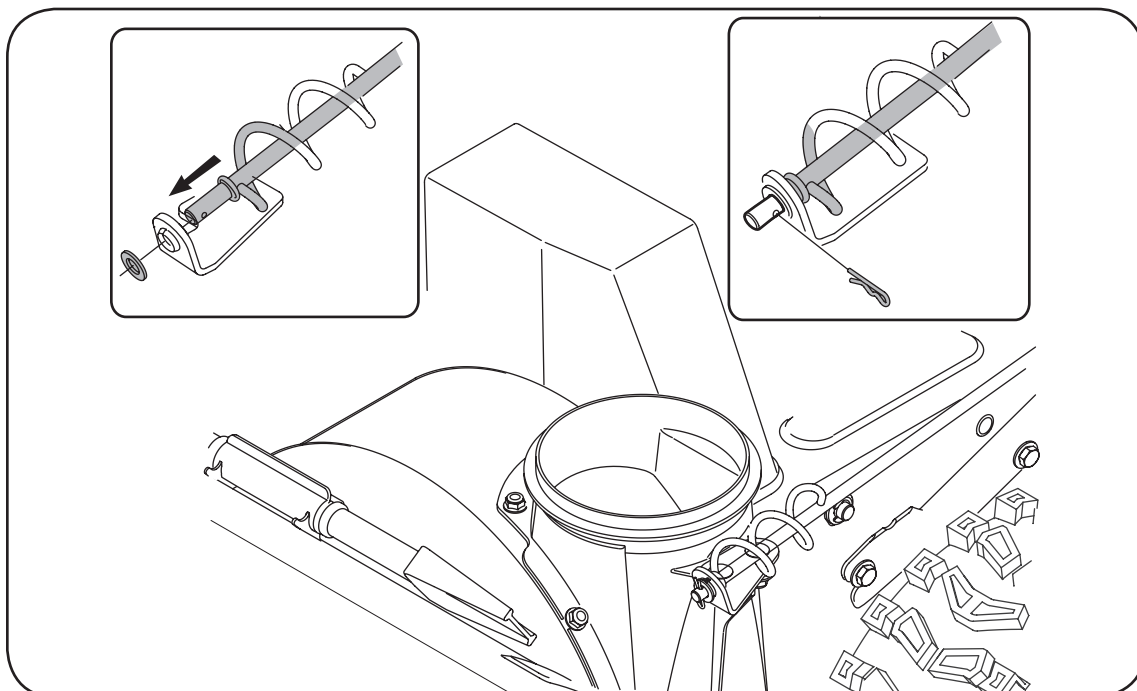


Figure 3-3

IMPORTANT: Two replacement auger shear pins are included with this manual (or stowed in the plastic handle panel). Refer to the Maintenance section for more information regarding shear pin replacement.

NOTE: All references in this manual to the left or right side of the snow thrower is from the operating position only. Exceptions, if any, will be specified.

IMPORTANT: This unit is shipped with the engine full of oil. After assembly, refer to the Tecumseh Engine manual packed separately with your snow thrower for fuel and oil fill-up details.

NOTE: Specifications are subject to change without notification or obligation. Images may not reflect your exact model and are for reference purposes only.

1. Observe the lower area of the snow thrower to be sure both cables are aligned with roller guides before pivoting handle upward.
 - a. Remove the lower star knob and carriage bolt from each side of the lower handle. Pull up and back on upper handle as shown in Figure 3-1. Align upper handle with the lower handle. Make certain the springs at the lower end of the auger and drive cables are securely hooked into their respective actuator bracket.
2. a. Secure the upper handle and lower handle with the two star knobs and carriage bolts removed earlier. See Figure 3-2.
 - b. Tighten the two star knobs already installed in the upper holes to firmly secure the upper handle and support tubes.

3. a. Remove the flat washer and hairpin clip from the end of the chute directional control. See Figure 3-3.
- b. Insert the end of the chute directional control into the chute bracket and secure with the flat washer and hairpin clip just removed. If necessary, the chute bracket can be adjusted. Refer to the Adjustments section.

IMPORTANT: Prior to operating your snow thrower, refer to Auger Control Test in the Operation section. Read and follow all instructions carefully and perform all adjustments to verify your snow thrower is operating safely and properly.

4. Remove lock nuts and screws securing one of the flange keepers to the chute assembly.
5. Place chute assembly onto chute base as shown in Figure 3-4, making sure that the notches engage with the spiral end of chute directional control.
6. Secure flange keeper removed earlier with lock nuts and screws. Tighten down nuts securing the other two flange keepers. See Figure 3-5.
7. Check that all cables are properly routed through the cable guide on top of engine shroud. See Figure 3-6.

The extension cord is fastened with a cable tie to the rear of the auger housing for shipping purposes. Cut the cable tie and remove it before operating the snow thrower.

Shear Pin Storage

Holes are located in the plastic dash panel for convenient shear pin storage. See Figure 3-7.

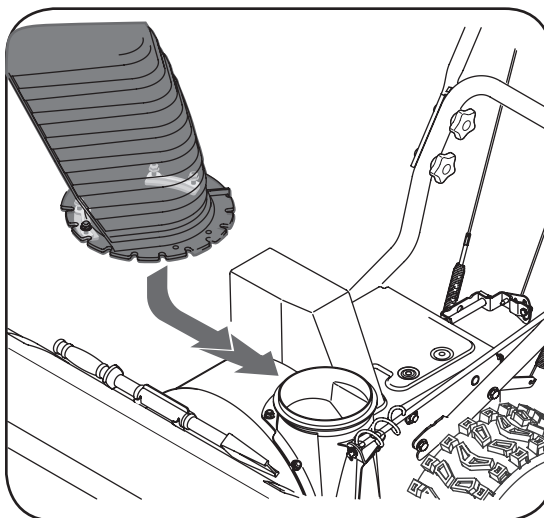


Figure 3-4

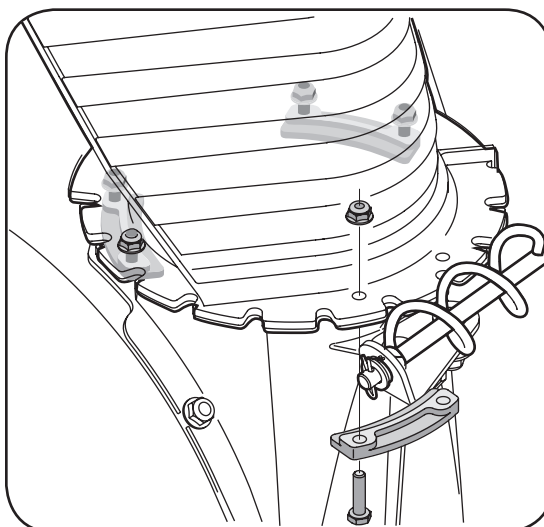


Figure 3-5

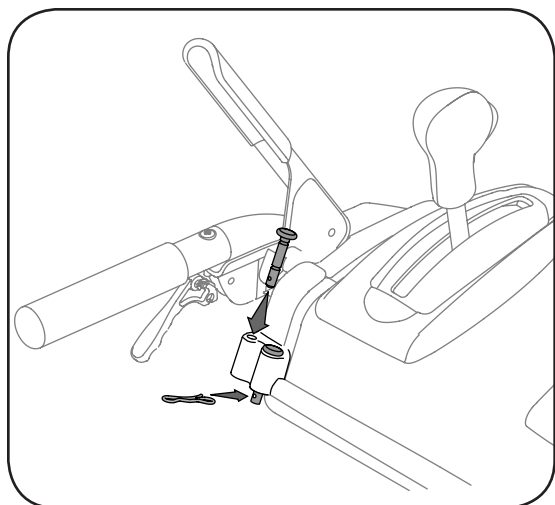


Figure 3-7

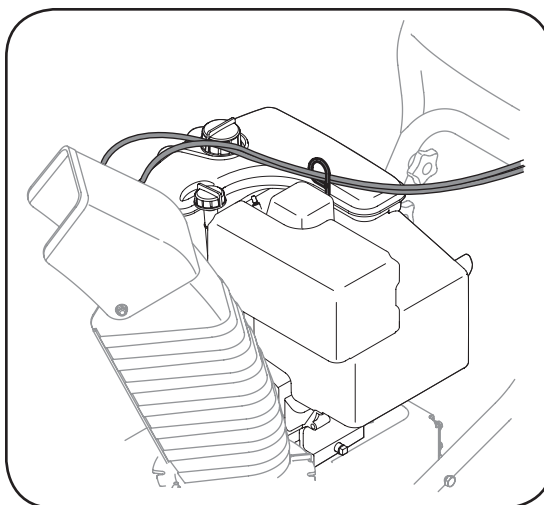


Figure 3-6

3

Setting Up Your Snow Thrower



IMPORTANT

Prior to operating your snow thrower, refer to Auger Control Test in the Operation section. Read and follow all instructions carefully and perform all adjustments to verify your snow thrower is operating safely and properly.

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3

Setting Up Your Snow Thrower



Specifications are subject to change without notification or obligation. Images may not reflect your exact model and are for reference purposes only.

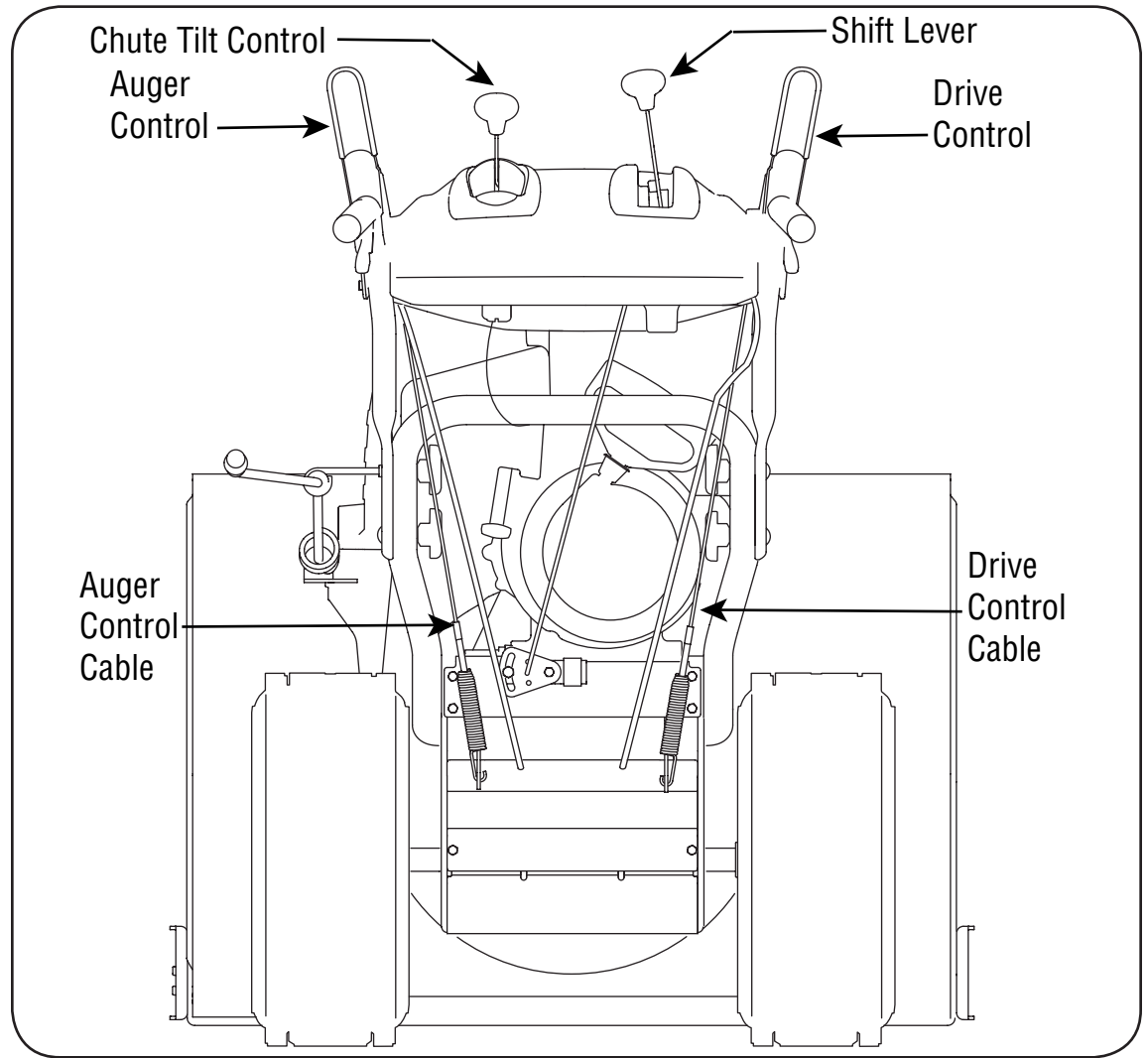


Figure 3-8

Final Adjustments

Make these final assembly adjustments **before** operating your snow thrower for the first time. Failure to follow these instructions may cause damage to the snow thrower.

Testing Drive Control & Shift Lever

Refer to Figure 3-8 for location of controls.

1. Move the shift lever into sixth (6) position.
2. With the wheel drive control released, push the snow thrower forward, then pull it back. The machine should move freely.
3. Engage the drive control and attempt to move the machine both forward and back, resistance should be felt.
4. Move the shift lever into the fast reverse (R2) position and repeat the previous two steps.

If you experienced resistance rolling the unit, either when repositioning the shift lever from 6 to R2 or when attempting to move the machine with the drive control released, adjust the drive control immediately. See Adjusting Drive and Auger Controls.

Testing Auger Drive Control

When the auger control is released and in the disengaged “up” position, the cable should have very little slack, but should NOT be tight.

1. In a well-ventilated area, start the snow thrower engine as instructed in the Operation section. Make sure the throttle is set in the fast position.
2. While standing in the operator’s position (behind the snow thrower), engage the auger control and allow the auger to remain engaged for approximately ten seconds before releasing the auger control. Repeat this several times.
3. With the engine running in the fast position and the auger control in the disengaged “up” position, walk to the front of the machine.

Confirm that the auger has completely stopped rotating and shows no signs of motion.

4. If the auger shows any signs of rotating, immediately return to the operator’s position and shut off the engine. Wait for all moving parts to stop before readjusting the auger control cable.

Adjusting Drive and Auger Controls

1. From beneath the handle, pull downward on the appropriate cable and unhook the spring found on the end of the cable from its respective actuator bracket. Refer to Figures 3-8 and 3-9.

2. Slide the spring up the cable to expose the cable coupler threads and lock nut. Refer to Figure 3-10.

Adjust the lock nut as follows:

3. If adjusting the drive cable, thread the lock nut outward (down the coupler) to lengthen the cable and allow the unit to move freely when the control is released. Thread the lock nut inward (up the coupler) to shorten the cable to reduce slippage and prevent the machine from being easily moved with the drive control engaged.
4. If adjusting the auger cable, thread the lock nut down to lengthen the cable as necessary to stop the auger from turning when the control is released.

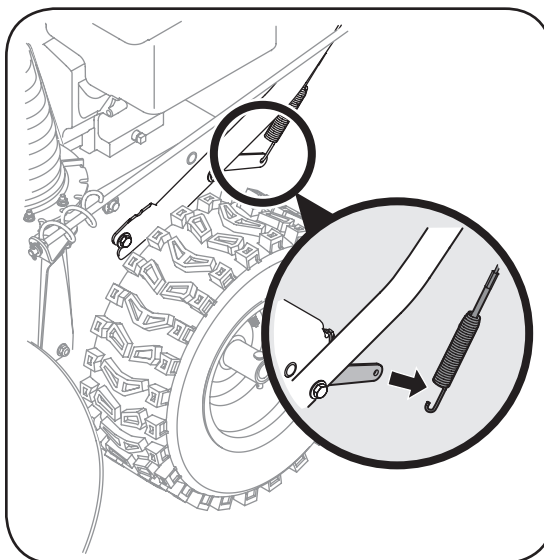


Figure 3-9



WARNING: Do not over-tighten the cable. Over-tightening may prevent the auger from disengaging and compromise the safety of the snow thrower.

5. Reattach the spring to the actuator bracket.
6. Repeat the wheel drive and auger control tests to verify proper adjustment. Repeat previous steps if necessary to attain proper adjustment of each cable.

Tire Pressure (Pneumatic Tires)

The tires are over-inflated for shipping purposes. Check the tire pressure before operating the snow thrower. Refer to the tire side wall for tire manufacturer's recommended psi and deflate (or inflate) the tires as necessary.

NOTE: If the tire pressure is not equal in both tires, the unit may pull to one side or the other and the shave plate will not sit level on the ground.

IMPORTANT: Under any circumstance do not exceed manufacturer's recommended psi. Equal tire pressure should be maintained at all times. Excessive pressure when seating beads may cause tire/rim assembly to burst with force sufficient to cause serious injury. Refer to sidewall of tire for recommended pressure.

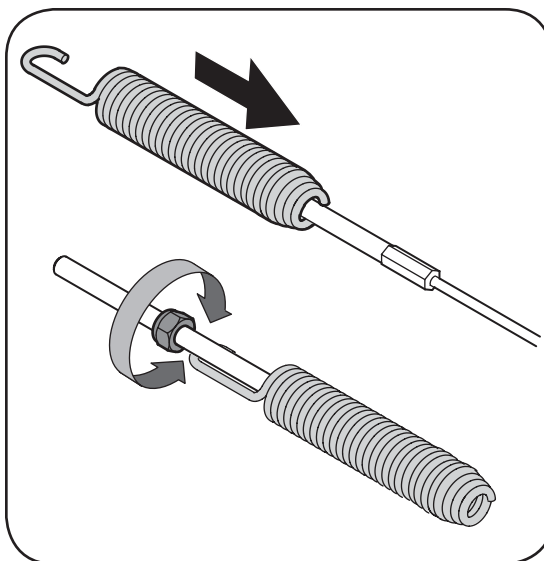


Figure 3-10

3

Setting Up Your Snow Thrower



WARNING

Do not over-tighten the cable. Over-tightening may prevent the auger from disengaging and compromise the safety of the snow thrower.



IMPORTANT: Under any circumstance do not exceed manufacturer's recommended psi. Equal tire pressure should be maintained at all times. Excessive pressure when seating beads may cause tire/rim assembly to burst with force sufficient to cause serious injury. Refer to sidewall of tire for recommended pressure.

4

Operating Your Snow Thrower



WARNING

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



For detailed starting instructions and more information on all engine controls, refer to the Tecumseh Engine manual packed separately.

Specifications are subject to change without notification or obligation. Images may not reflect your exact model and are for reference purposes only.

Know Your Snow Thrower

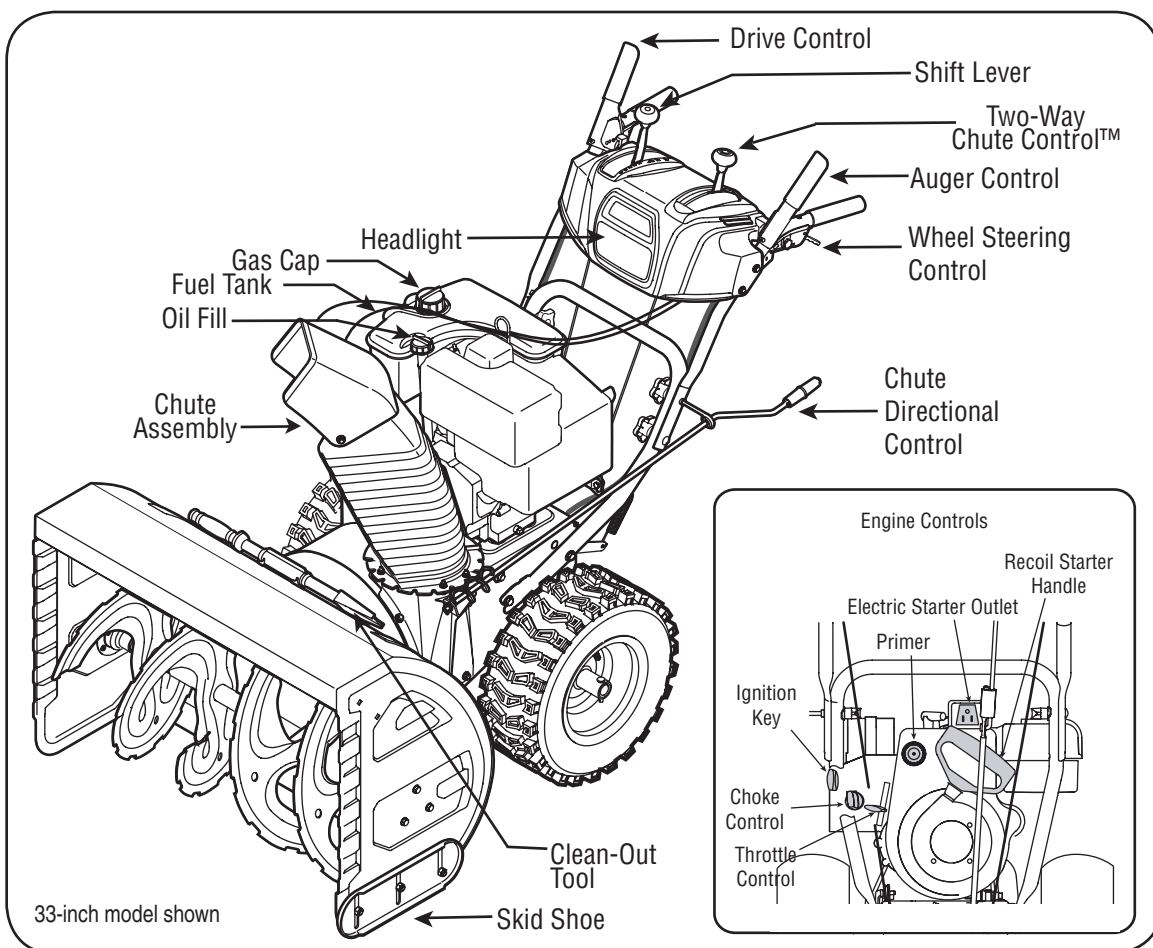


Figure 4-1

Now that you have setup your snow thrower, it's important to become acquainted with its controls and features.

NOTE: For detailed starting instructions and more information on all engine controls, refer to the Tecumseh Engines manual packed separately and Starting The Engine later in this section.

Shift Lever

The shift lever is located in the center of the handle panel. Place the shift lever into any of eight positions to control the direction of travel and ground speed.

Forward

Your snow thrower has six forward (F) speeds, with position number one (1) being the slowest speed.

Reverse

Your snow thrower has two reverse (R) speeds, with position number one (1) being the slower speed.

6
5
4
3
2
↑
F 1
R 1
R 2

Choke Control

The choke control is found on the rear of the engine and is activated by rotating the knob clockwise. Activating the choke control closes the choke plate on the carburetor and aids in starting the engine.



Throttle Control

The throttle control is located on the engine. It regulates the speed of the engine and will shut off the engine when pushed down completely.

Primer

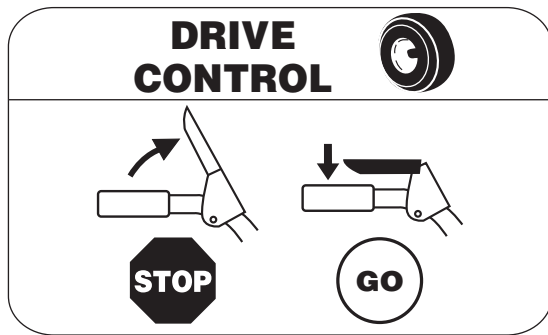
Depressing the primer forces fuel directly into the engine's carburetor to aid in cold-weather starting.

Oil Fill

Engine oil level can be checked and oil added through the oil fill.

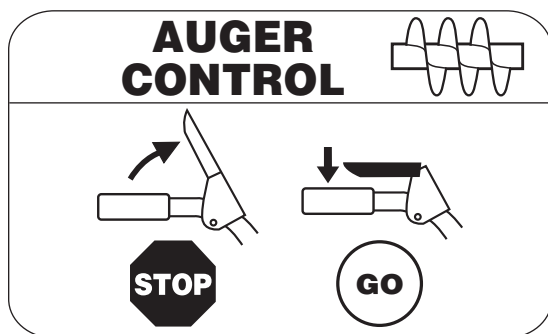


Auger Control



The auger control is located on the left handle. Squeeze the control grip against the handle to engage the augers and start snow throwing action. Release to stop.

Drive Control / Auger Lock

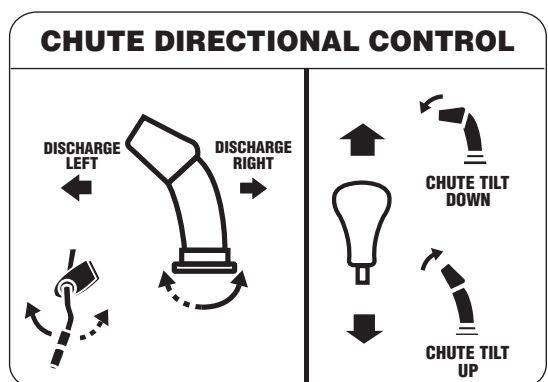


The drive control is located on the right handle. Squeeze the control grip against the handle to engage the wheel drive. Release to stop.

The drive control also locks the auger control so you can operate the chute directional control without interrupting the snow throwing process. If the auger control is engaged simultaneously with the drive control, the operator can release the auger control (on the left handle) and the augers will remain engaged. Release both controls to stop the augers and wheel drive.

IMPORTANT: Always release the drive control before changing speeds.

Two-Way Chute Control™



The two-way chute control is located on the left side of the dash panel and is used to control the distance of snow discharge from the chute.

- To change the **angle/distance** which snow is thrown, pivot the joystick forward or backward.

Chute Directional Control

The chute directional control is located on the left side of the snow thrower.

- To change the **direction** in which snow is thrown, crank clockwise to discharge to the left and counter-clockwise to discharge to the right.

Wheel Steering Controls

The left and right wheel steering controls are located on the underside of the handles. Squeeze the right control to turn right; squeeze the left control to turn left.

NOTE: Operate the snow thrower in open areas until you are familiar with these controls.

Ignition Key

The ignition key must be inserted and snapped in place in order for the engine to start. Remove the ignition key to prevent unauthorized use of equipment. Do NOT attempt to turn the key.

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 unclogging.

The clean-out tool is mounted to the rear of the auger housing and is designed to clear a clogged chute. Refer to Using Clean-Out Tool later in this section for instructions on how to properly use it.

NOTE: The clean-out tool is fastened to the rear of the auger housing with a cable tie. Cut the cable tie before operating the snow thrower.

Skid Shoes

Position the skid shoes based on surface conditions. Adjust upward for hard-packed snow. Adjust downward when operating on gravel or crushed rock surfaces.

4

Operating Your Snow Thrower



WARNING

The operation of any snow thrower can result in foreign objects being thrown into the eyes, which can damage your eyes severely. Always wear safety glasses while operating the snow thrower, or while performing any adjustments or repairs on it.

Be sure no one other than the operator is standing near the snow thrower while starting engine or operating snow thrower. 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.

4

Operating Your Snow Thrower



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.

The electric starter is equipped with a grounded three-wire power cord and plug and is designed to operate on 120 volt AC household current. It must be used with a properly grounded three-prong receptacle at all times to avoid the possibility of electric shock. Follow all instructions carefully prior to operating the electric starter.

Gas & Oil Fill-Up

Service the engine with gasoline and oil as instructed in the Tecumseh Engines manual packed separately with your snow thrower. Read instructions carefully.



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

Starting The Engine

1. Attach spark plug wire to spark plug. Make certain the metal loop on the end of the spark plug wire (inside the rubber boot) is fastened securely over the metal tip on the spark plug.
2. Make certain both the auger control and drive control are in the disengaged (released) position.
3. Move throttle control up to FAST position. Insert ignition key into slot. Make sure it snaps into place. Do not attempt to turn the key.

NOTE: The engine cannot start unless the key is inserted into ignition switch.

Electric Starter

1. Determine that your home's wiring is a three-wire grounded system. Ask a licensed electrician if you are not certain.



WARNING: The optional electric starter is equipped with a grounded three-wire power cord and plug, and is designed to operate on 120 volt AC household current. It must be used with a properly grounded three-prong receptacle at all times to avoid the possibility of electric shock. Follow all instructions carefully prior to operating the electric starter.

If your house wiring system is not a three-wire grounded system, do not use this electric starter under any conditions.

If your home electrical system is grounded, but a three-hole receptacle is not available, one should be installed by a licensed electrician before using the electric starter.

If you have a grounded three-prong receptacle, proceed as follows:

1. Plug the extension cord into the outlet located on the engine's surface. Plug the other end of extension cord into a three-prong 120-volt, grounded, AC outlet in a well-ventilated area.
2. Rotate choke control to FULL choke position (for a cold engine start). If the engine is already warm, place choke control in the OFF position instead of FULL.
3. Push the primer two or three times for cold engine start, making sure to cover vent hole in the center of the primer when pushing. DO NOT use primer to restart a warm engine after a short shutdown.
4. Push starter button to start engine.
5. Once the engine starts, immediately release starter button.
6. As the engine warms, slowly rotate the choke control to the OFF position. If the engine falters, quickly rotate the choke control back to FULL and then slowly into the OFF position again.
7. When disconnecting the extension cord, always unplug the end at the three-prong wall outlet before unplugging the opposite end from the snow thrower.

Recoil Starter

1. Rotate choke control to FULL choke position (cold engine start). If the engine is already warm, place choke control in the OFF position instead of FULL.
2. Push the primer two or three times for cold engine start, making sure to cover vent hole in the center of the primer when pushing. DO NOT use primer to restart a warm engine after a short shutdown.

NOTE: Additional priming may be necessary if the temperature is below 15° Fahrenheit.

3. Grasp the recoil starter handle and slowly pull the rope out. At the point where it becomes slightly harder to pull the rope, slowly allow the rope to recoil.
4. Pull the starter handle with a firm, rapid stroke. Do not release the handle and allow it to snap back. Keep a firm hold on the starter handle and allow it to slowly recoil.
5. As the engine warms, slowly rotate the choke control to the OFF position. If the engine falters, quickly rotate the choke control back to the FULL position and then slowly into the OFF position again.

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.

Stopping The Engine

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

1. Move throttle control to STOP position.
2. Remove the ignition key (Do not turn key) to prevent unauthorized use of equipment.
3. Wipe all snow and moisture from the area around the engine as well as the area in and around the drive control and auger control. Also, engage and release both controls several times.

NOTE: Keep the key in a safe place. The engine cannot start without the ignition key.

To Engage Drive

1. With the engine running near top speed, move shift lever to one of six FORWARD positions or two REVERSE positions. Select a speed appropriate for the snow conditions that exist.

NOTE: Use slower speeds in higher snow and/or until you are familiar with the snow thrower operation.

2. Squeeze drive control against the right handle and the snow thrower will move. Release it and the drive motion will stop.

IMPORTANT: NEVER move the shift lever without first releasing the wheel drive control. Doing so will cause premature wear on the drive system's friction wheel.

3. To turn the unit left or right, squeeze the respective wheel steering control. See Figure 4-1.

To Engage Augers

1. To engage augers and start snow throwing, squeeze the left hand auger control against the left handle. Release to stop augers.
2. While the auger control is engaged, squeeze the drive control to move, release to stop. Do not shift speeds while the drive is engaged.

NOTE: This same lever also locks auger control so you can turn the chute control without interrupting the snow throwing process.

3. Release the auger control; the interlock mechanism should keep the auger control engaged until the drive control is released.
4. Release the drive control to stop both the augers and the wheel drive. To stop the auger, both levers must be released.

Operating Tips

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



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

- If possible, remove snow immediately after it falls.
- Discharge snow downwind whenever possible.
- Slightly overlap each previous path.
- Set the skid shoes 1/4" below the shave plate for normal usage. Adjust them upward for hard-packed snow and downward when using on gravel or crushed rock.

Chute Clean-Out Tool

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 ignition key.
3. Remove the clean-out tool from the clip which secures it to the rear of the auger housing. See Figure 4-1.
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 ignition 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.

4

Operating Your Snow Thrower



WARNING

The muffler, engine, and surrounding areas become hot and can cause a burn. Do not touch.



NOTE: Use slower speeds in higher snow and/or until you are familiar with the snow thrower operation.

IMPORTANT

NEVER move the shift lever without first releasing the wheel drive control. Doing so will cause premature wear on the drive system's friction wheel.

5

Making Adjustments



WARNING

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

Never attempt to make any adjustments while the engine is running, except where specified in operator's manual.



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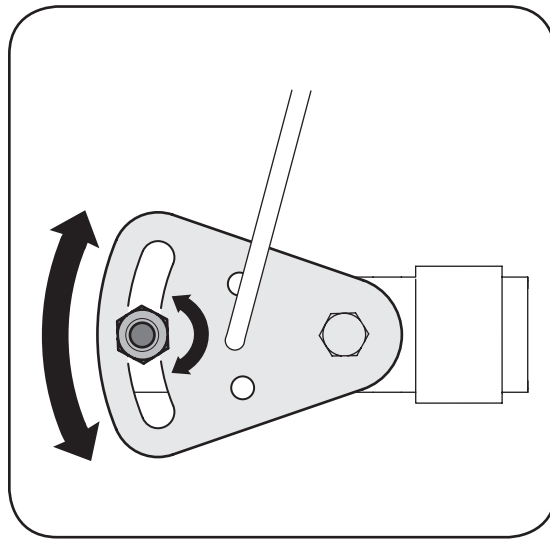


Figure 5-1

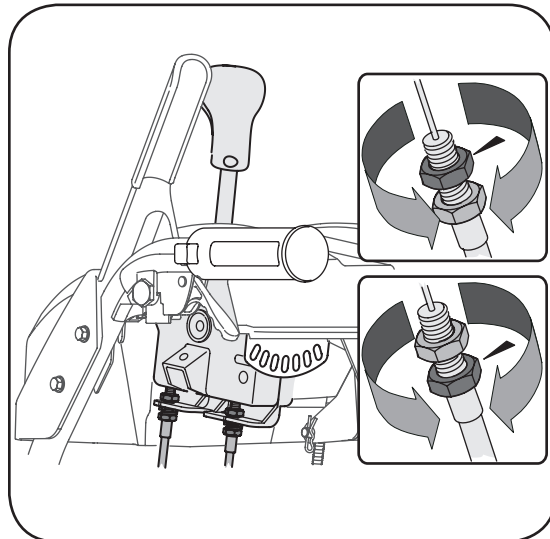


Figure 5-2

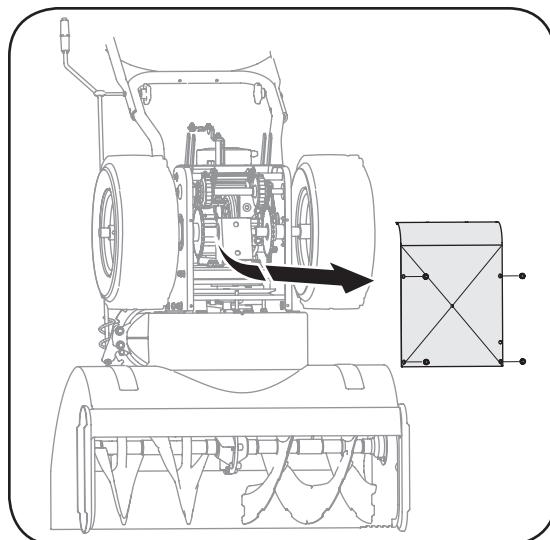


Figure 5-3

Shift Cable

If the full range of speeds (forward and reverse) cannot be achieved, refer to the figure to the left and adjust the shift cable as follows:

1. Place the shift lever in the **fastest** forward speed position.
2. Loosen the hex nut on the speed selector pivot bracket. See Figure 5-1.
3. Pivot the bracket downward to take up slack in the cable.
4. Retighten the hex nut.
5. If further adjustment is needed, you may also utilize the upper or lower hole in the pivot bracket.
6. Check for correct adjustment before operating the snow thrower.

Chute Control

Once a season or every 25 hours of operation, whichever is earlier, check whether the two-way chute control™ cables have slackened. If the chute pitch cannot be moved up or down, the chute control cables will have to be adjusted.

To adjust these cables, proceed as follows:

1. To tighten cable, loosen the top nut and tighten the bottom nut on the cable.
2. Adjust equally on both sides by working on both cables. See Figure 5-2.

Drive Control

Refer to the Final Adjustment section of the Assembly instructions to adjust the drive control. To further check the adjustment, proceed as follows:

1. With the snow thrower tipped forward (be certain to drain gasoline or place plastic film under the gas cap if the snow thrower has already been operated), remove the frame cover underneath the snow thrower by removing the self-tapping screws. See Figure 5-3.
2. Locate the opening between the axle support bracket and the front frame support (See Figure 5-4). Looking through this opening, with the drive control released, there must be 1/8" clearance between the friction wheel and the drive plate in all positions of the shift lever.
3. With the drive control engaged, the friction wheel must contact the drive plate. See Figure 5-4.
4. If there is no friction wheel clearance, or the friction wheel does not solidly contact the drive plate, re-adjust the lock nut on the lower end of the drive cable following the instructions in the Assembly section.
5. Reassemble the frame cover.

NOTE: If you placed plastic film under the gas cap earlier, remove it now.

Skid Shoes

The space between this shave plate and the ground can be adjusted. For close snow removal, place skid shoes in the low position. Use middle or high position when area to be cleared is uneven.

1. Adjust skid shoes by loosening the six hex nuts, washers, and carriage bolts and moving skid shoes to desired position. See Figure 5-5.
2. Make certain the entire bottom surface of skid shoes are against the ground to avoid uneven wear on the skid shoes.
3. Tighten nuts and bolts securely.

Chute Bracket Adjustment

If the spiral at the bottom of the chute directional control is not fully engaging with the chute assembly, the chute bracket can be adjusted. To do so:

1. Loosen the two nuts which secure the chute bracket and reposition it slightly. See Figure 5-6.
2. Retighten the nuts.

Auger Control

To adjust the auger control, refer to the section in this manual titled "Setting Up Your Snow Thrower".

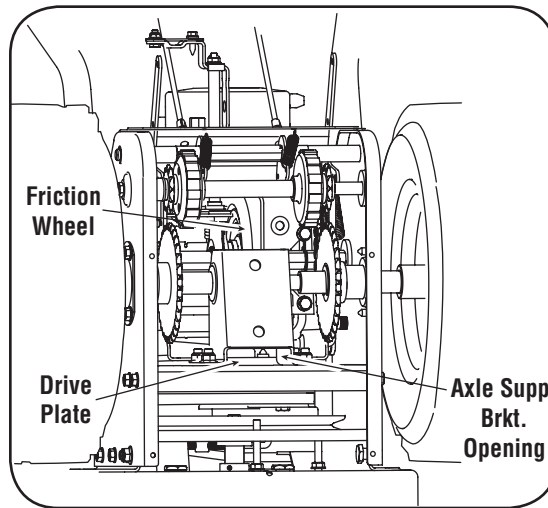


Figure 5-4

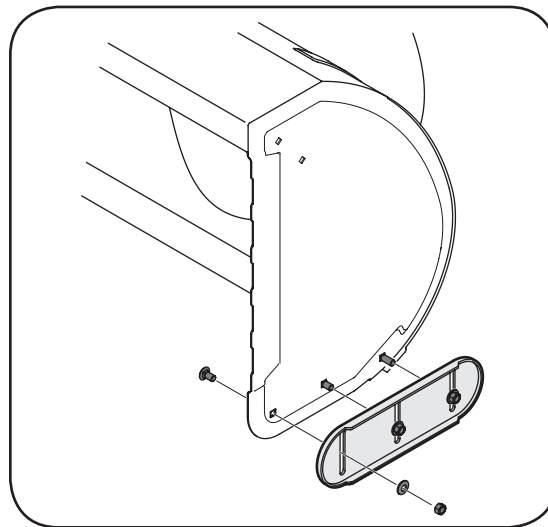


Figure 5-5

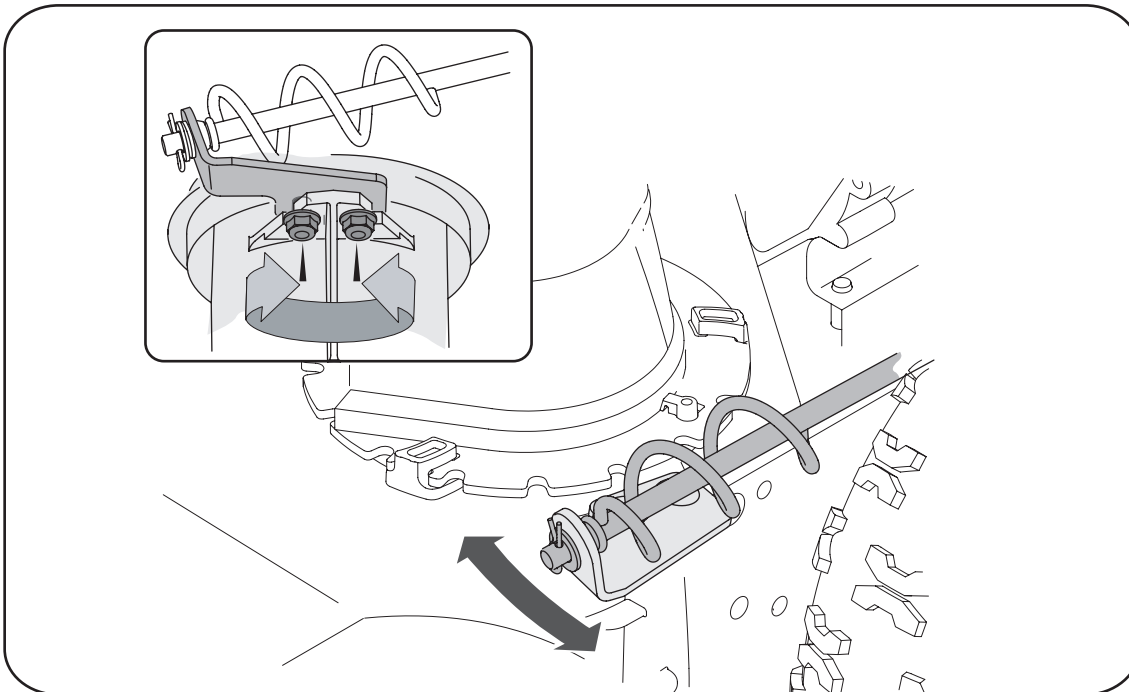


Figure 5-6

5

Making Adjustments



IMPORTANT: 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 or damage to the snow thrower.

If for some reason, you have to operate the snow thrower on gravel, keep the skid shoe in the highest position for maximum clearance between the ground and the shave plate.

6

Maintaining Your Snow Thrower



WARNING

Always stop engine, disconnect spark plug, and ground against engine before performing any type of maintenance on your machine.



IMPORTANT

Avoid oil spillage on rubber friction wheel and aluminum drive plate.

IMPORTANT

NEVER replace the auger shear pins with standard pins. Any damage to the auger gearbox or other components, as a result of doing so, will NOT be covered by your snow thrower's warranty.

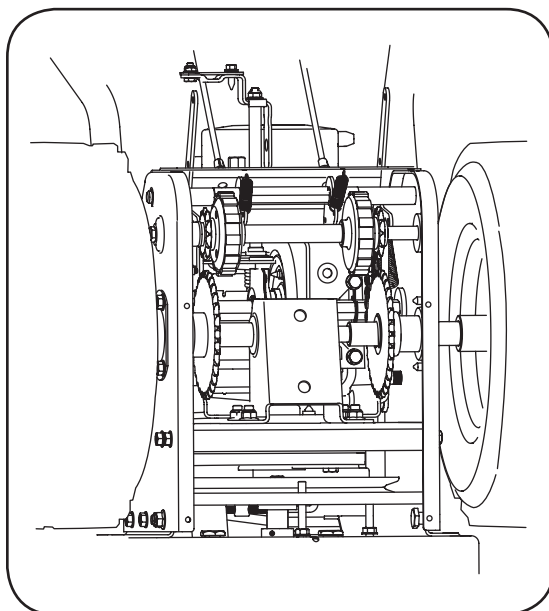


Figure 6-1

Engine

Refer to the separate Tecumseh Engines manual packed with your unit for all engine maintenance.

Lubrication

Engine

Refer to the Tecumseh Engines manual packed with your unit for all engine lubrication instructions.

Drive and Shifting Mechanism

At least once a season or after every 25 hours of operation, remove rear cover. Lubricate all chains, sprockets, gears, bearings, shafts, and the shifting mechanism. Use engine oil or a spray lubricant. Refer to Figure 6-1.

IMPORTANT: Keep all grease and oil off the rubber friction wheel and drive plate.

Wheels

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

Chute Directional Control

Once a season, the spiral end on the chute directional control should be greased with multipurpose automotive grease.

Auger Shaft

At least once a season, remove the shear pins on auger shaft. Spray lubricant inside shaft, around the spacers. Also lubricate the flange bearings found at either end of the shaft. See Figure 6-2.

Grease fittings can also be found at either end of the auger shaft. Lubricate with a grease gun once a season. See Figure 6-2.

Gear Case

The auger gear case is equipped with a grease fitting. Lubricate with Shell Alvania lead-free grease once a season (order part number 737-0168). See Figure 6-2.

IMPORTANT: To relieve pressure, remove the vent plug before lubricating the gear case. See Figure 6-2. Failure to do so could result in damage to the gear case seals.

Augers

The augers are secured to the spiral shaft with shear pins and cotter pins. See Figure 6-2. If you hit a foreign object or ice jam, the snow thrower is designed so that the pins will shear.

1. If augers do not turn, check to see if pins have sheared.
2. Replace the pins if needed. Two replacement shear pins and cotter pins have been provided with the snow thrower. Spray an oil lubricant into shaft before inserting new pins and securing with new cotter pins.

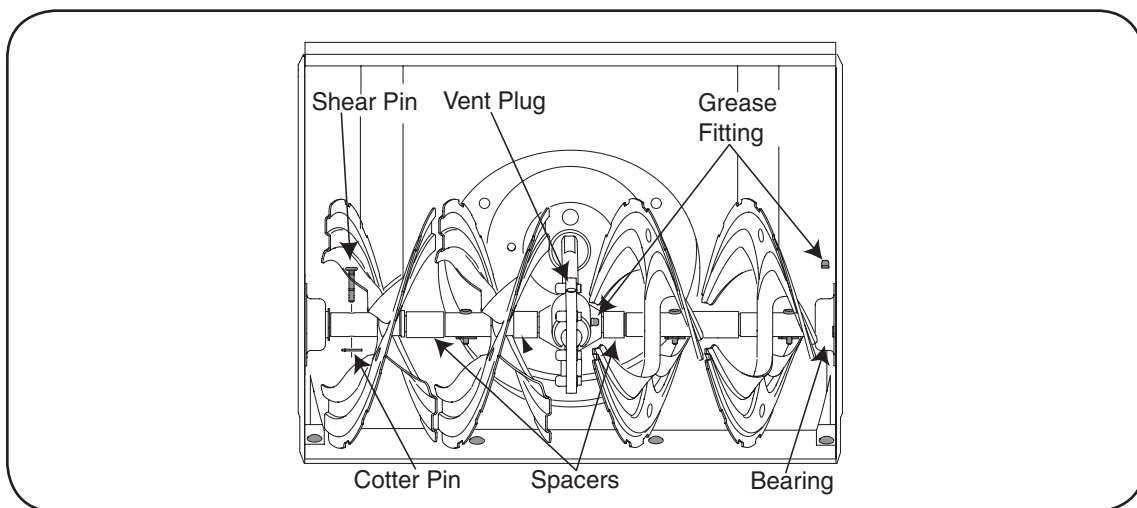


Figure 6-2

Shave Plate and Skid Shoes

The shave plate and skid shoes on the bottom of the snow thrower are subject to wear. Check these periodically and replace as necessary.

Skid Shoes

NOTE: The skid shoes on this machine have two wear edges. When one side wears out, they can be rotated 180° to use the other edge.

1. Remove the six carriage bolts, hex nuts, and bell washers that secure the two skid shoes to the sides of the auger housing. Refer to Figure 6-3.
2. Position the new skid shoes and secure with the carriage bolts, bell washers, and hex nuts. Make certain the skid shoes are adjusted to be level.

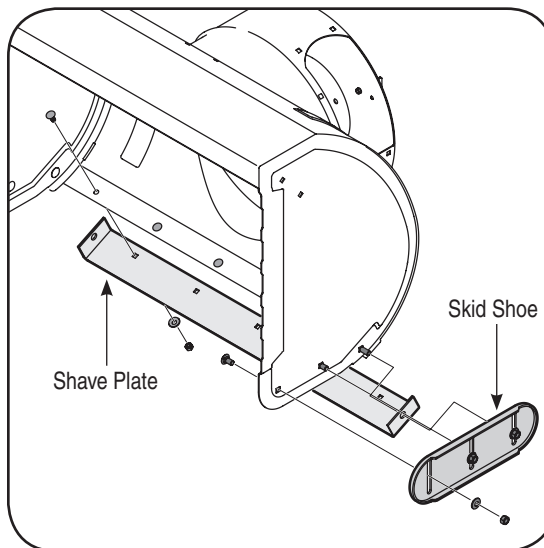


Figure 6-3

Shave Plate

1. Remove the hex nuts, bell washers, and carriage bolts that secure the shave plate to the bottom of the housing.
2. Remove the rear most hex nut, bell washer, and carriage bolt securing the back of each skid shoe to the sides of the housing. Loosen the remaining hex nuts securing the skid shoes.
3. Slide the shave plate out of the off-set slot at the bottom of the housing, and from between the skid shoes and side panels of the housing.
4. With the mounting holes toward the back, slide the new shave plate into position and secure with the fasteners removed previously.

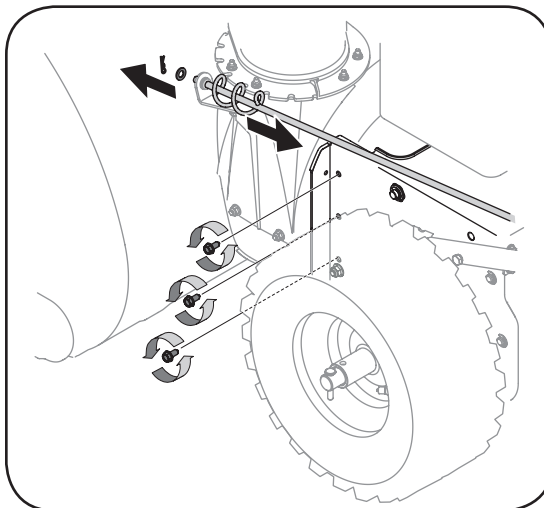


Figure 6-4

Replacing Belts

1. Disconnect the chute crank assembly at the discharge chute end by removing the hairpin clip and the flat washer. Refer to Figure 6-4.
2. Remove the plastic belt cover, located near the engine, by removing the three self-tapping screws that secure it. See Figure 6-5.
3. a. Loosen the bolt shown in Figure 6-6 securing the belt keeper bracket and remove the other bolt.
b. Push the belt keeper and bracket up off the engine pulley. See Figure 6-7.

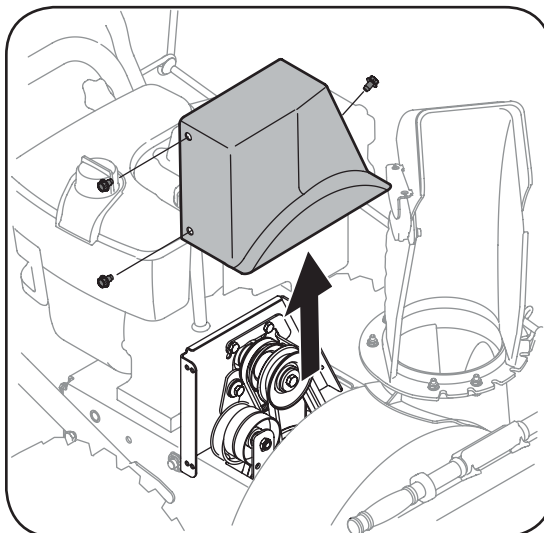


Figure 6-5

Auger Belt

4. Remove the hairpin clip and flat washer from the ferrule in order to disconnect the auger idler rod from the brake bracket assembly. See Figure 6-8.
5. Unhook the spring found on the end of the auger cable from its respective actuator bracket. Refer to Figure 3-10 in the "Setting Up Your Snow Thrower" section.

6

Maintaining Your Snow Thrower

i

Specifications are subject to change without notification or obligation. Images may not reflect your exact model and are for reference purposes only.

6

Maintaining Your Snow Thrower



WARNING

Always stop engine, disconnect spark plug, and ground against engine before performing any type of maintenance on your machine.

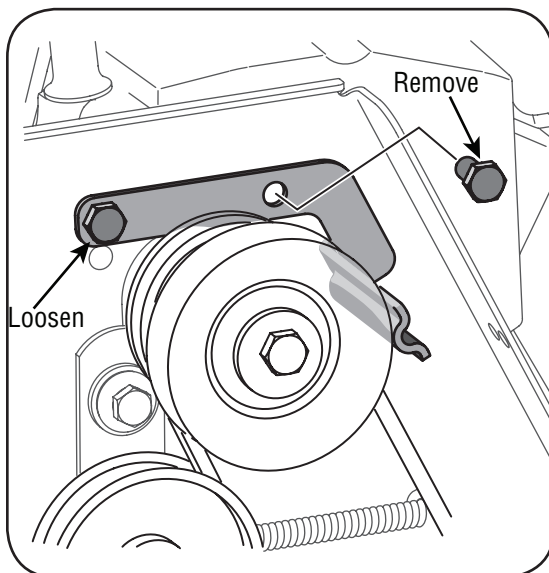


Figure 6-6

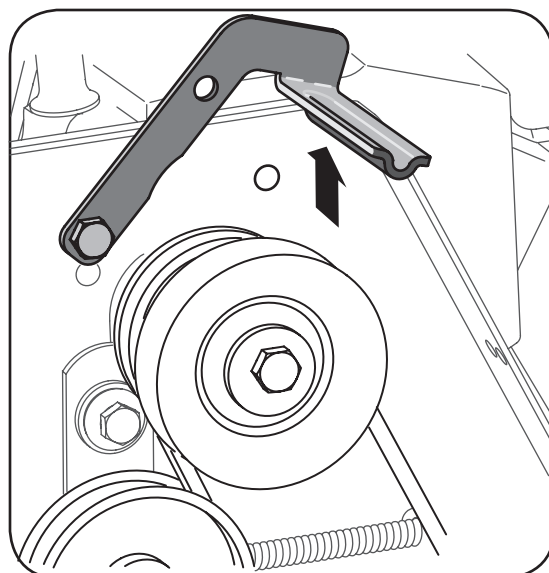


Figure 6-7

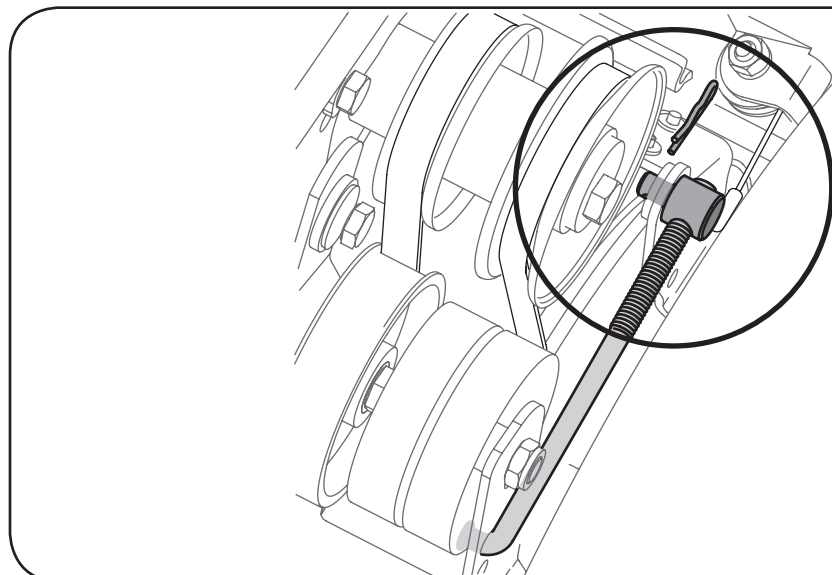


Figure 6-8

6. Slip the auger control belt (the front belt) off the engine pulley.
7. Pull the brake bracket assembly towards the cable guide roller and unhook the auger cable "Z" fitting. See Figure 6-9.
8. Remove the upper bolts which attach the auger housing assembly to the frame assembly using a 9/16" wrench. Refer to Figure 6-4 on previous page.
9. Place a block of wood underneath the auger housing as shown in Figure 6-10 and separate auger housing from the frame by tilting the housing forward and pulling up the handles.
10. a. Using a 1/2" wrench, remove the hex screw and cupped washer from the center of the pulley on the auger housing. See Figure 6-11.
b. Lift the brake bracket assembly out of the pulley groove
c. Remove the pulley. Be careful not to lose the key.
11. Remove and replace auger belt inside belt keepers.
12. Apply Loctite 262 to the threads of the hex screw used for mounting the auger pulley.
13. Reassemble pulley to auger housing with hex screw and cupped washer (cupped side toward the pulley). Torque hex screw 150-250 in. lbs.

NOTE: Make sure key is in place on shaft and brake puck is seated in the pulley groove.

If also replacing the drive belt, proceed to the “Drive Belt” instruction. If not, reassemble by performing the previous steps in the opposite order and manner of removal.

Proper Adjustment: With the auger clutch lever in the disengaged position, the top surface of the new belt should be even with the outside diameter of the pulley.

1. To adjust, disconnect ferrule from brake bracket assembly and thread ferrule in (towards idler) to increase tension on belt, and out to decrease tension.

NOTE: The brake puck must always be firmly seated in the pulley groove when auger control is disengaged.

Drive Belt

1. Pull the idler pulley away from the backside of the drive belt to relieve the tension and slide the drive belt off the idler pulley (If necessary unhook the extension spring from the belt cover plate). See Figure 6-12.
2. Roll the drive belt off the lower drive pulley.
3. Remove the belt from the engine pulley.
4. Install the new belt on the pulleys in the reverse order and re-tension with the idler pulley.
5. Reassemble by performing the previous steps in the opposite order and manner of removal.

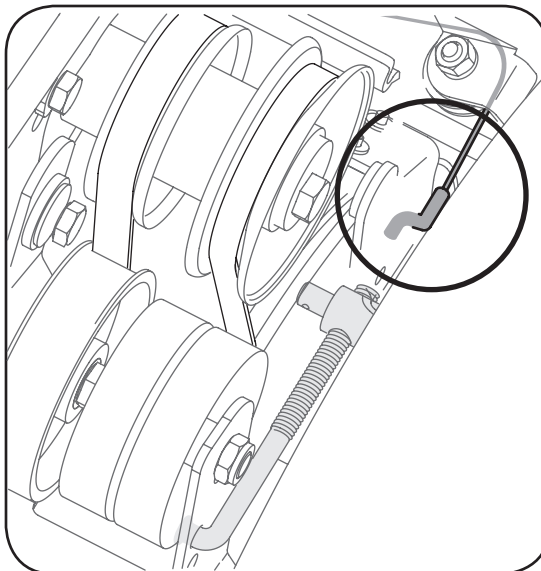


Figure 6-9

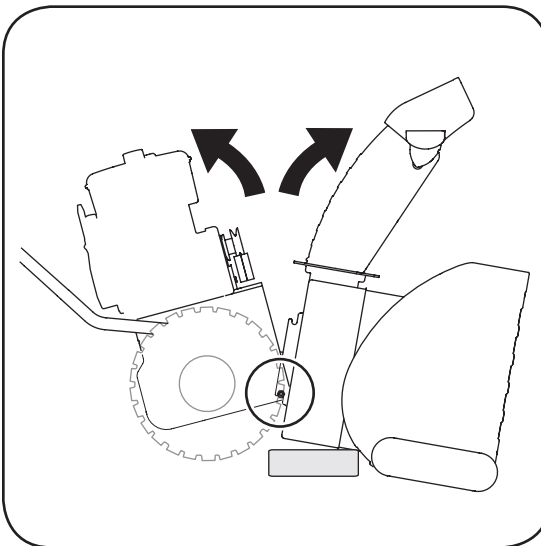


Figure 6-10

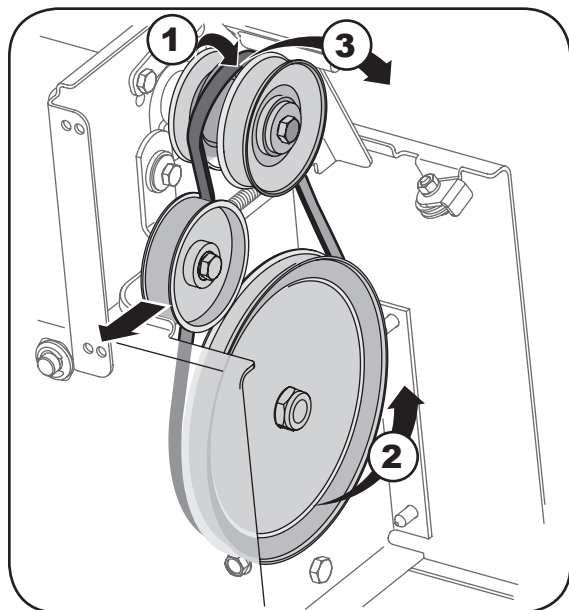


Figure 6-12

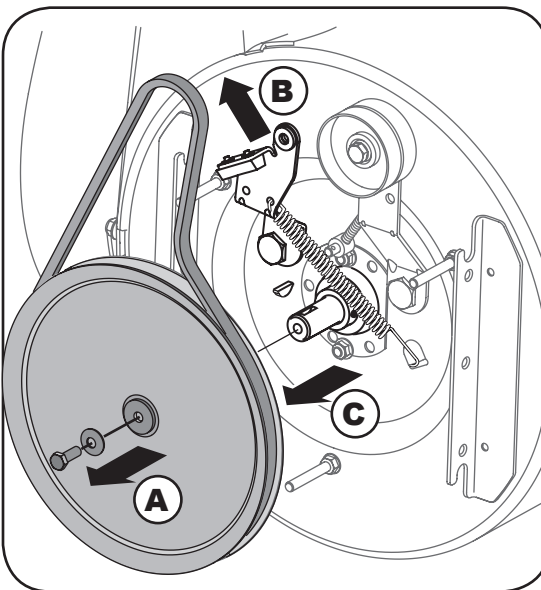


Figure 6-11

6

Maintaining Your Snow Thrower



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6

Maintaining Your Snow Thrower



WARNING

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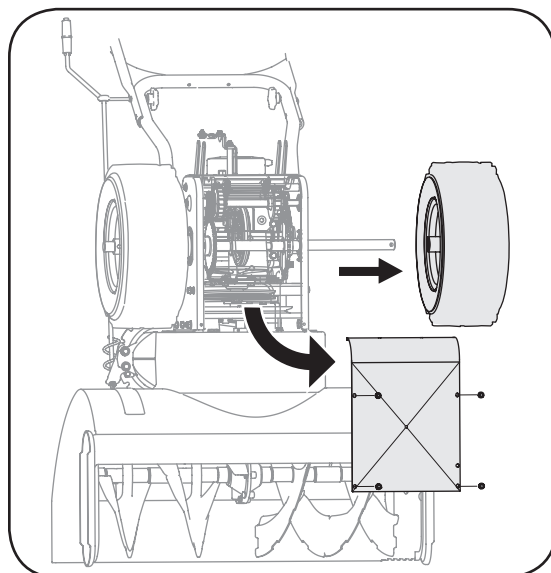


Figure 6-13

Changing Friction Wheel

The rubber on the friction wheel is subject to wear and should be checked after the first 25 hours of operation, and periodically thereafter. Replace the friction wheel if any signs of wear or cracking are found.

- Drain the gasoline from the snow thrower, or place a piece of plastic under the gas cap.
- Tip the snow thrower up and forward, so that it rests on the housing.
- Remove screws from the frame cover underneath the snow thrower. See Figure 6-13.
- Remove the right wheel from the axle.
- Using a 3/4" wrench, hold the hex shaft and remove the hex screw and cupped washer and bearing from left side of the frame. Refer to Figure 6-14.
- Holding the friction wheel assembly, slide the hex shaft out of the right side of the unit. The spacer on the left side of the hex shaft will fall and the sprocket should remain hanging loose in the chain.
- Lift the friction wheel assembly out between the axle shaft and the drive shaft assemblies.
- Remove four screws securing the friction wheel to the hub assembly. See Figure 6-15. Discard old friction wheel.

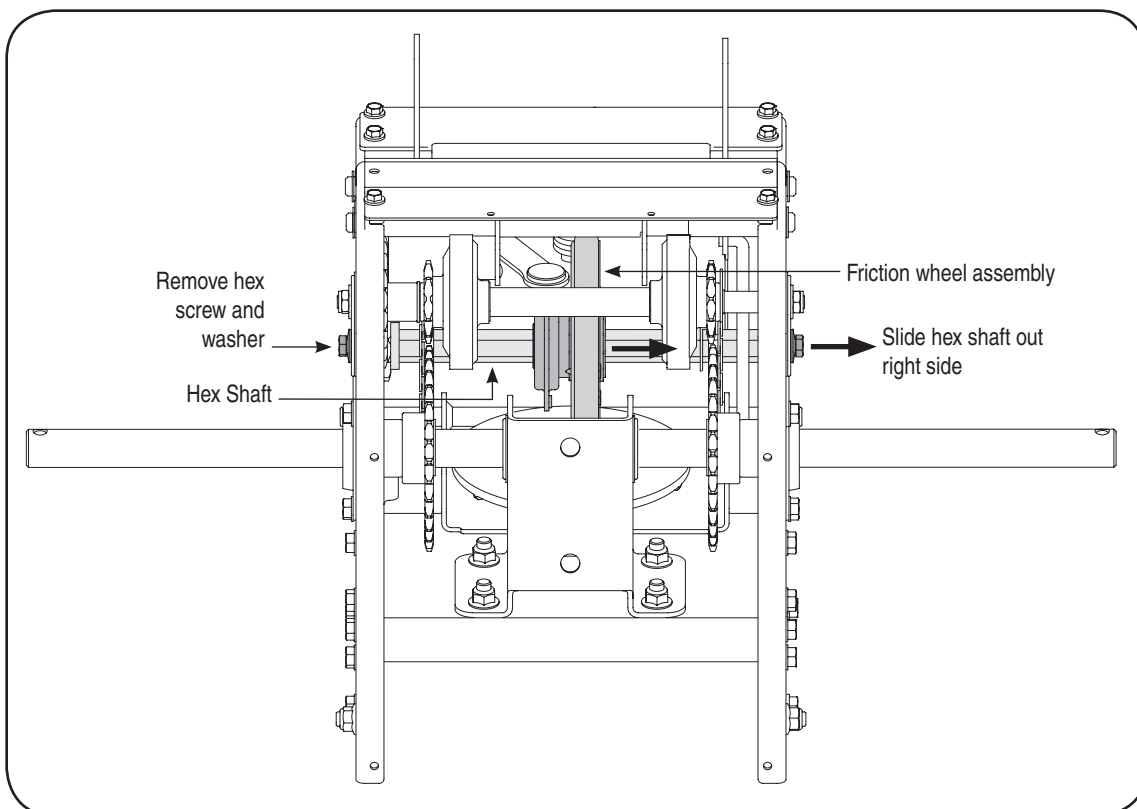


Figure 6-14

- Reassemble the new friction wheel to the hub assembly, tightening the four screws in rotation and with equal force. It is important to assemble the friction wheel symmetrically for proper functioning.
- Insert the pin from the shift arm assembly into the friction wheel assembly and hold assembly in position. Refer to Figure 6-16.
- Slide the hex shaft through the left side of the housing and through the friction wheel assembly.
- Insert the hex shaft through the sprocket and the spacer. Make certain that the chain engages both the large and the small sprocket.

NOTE: If the sprocket fell from the snow thrower while removing the hex shaft, place the sprocket on the hex shaft. Position the hex hub of the sprocket toward the friction wheel when sliding the sprocket on to the hex shaft.

- Secure with the cupped washer and hex bolt removed earlier.
- Secure the frame cover with self-tapping screws. Put the snow thrower down to its normal operating position.

NOTE: If you placed plastic film under the gas cap, be certain to remove it.

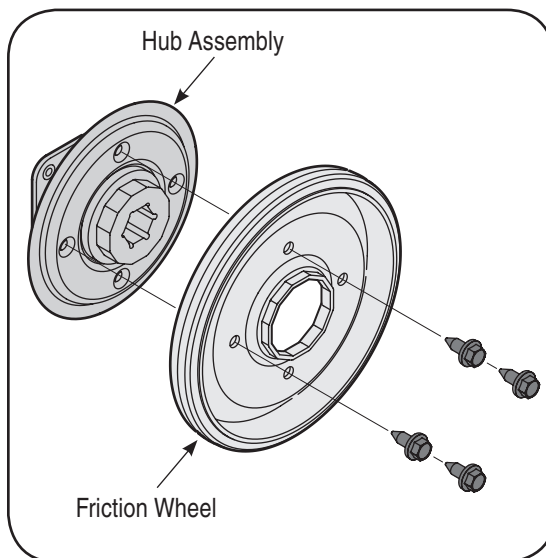


Figure 6-15

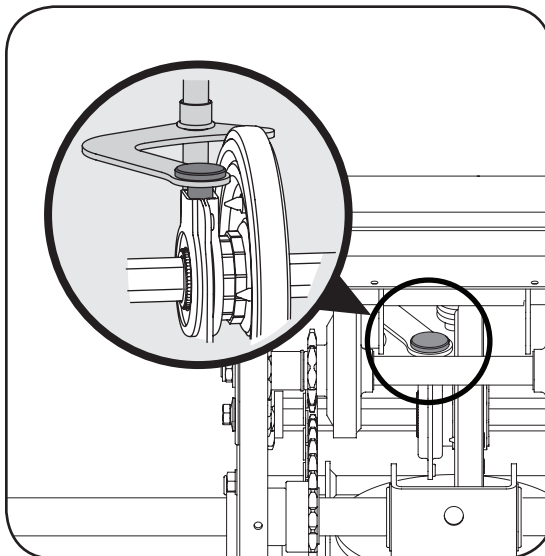


Figure 6-16

6

Maintaining Your Snow Thrower



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7

Off-Season Storage



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.

Fuel left in engine during warm weather deteriorates and will cause serious starting problems.

Never use engine or carburetor cleaning products in the fuel tank or permanent damage may occur.

If the snow thrower will not be used for 30 days or longer, or if it is the end of the snow season when the last possibility of snow is gone, the equipment needs to be stored properly. Follow storage instructions below to ensure top performance from the snow thrower for many more years.

Preparing Engine

NOTE: Refer to the engine manual for more detailed information on preparing the snow thrower engine for storage.

Short-Term Storage

It is important to prevent gum deposits from forming in essential fuel system parts of the engine such as the carburetor, fuel filter, fuel hose, or tank during short-term storage (15-30 days). To prevent this, treat the fuel system using a fuel stabilizer.

Fuel stabilizer (such as STA-BIL™ or ULTRA-FRESH™) is an acceptable alternative in minimizing the formation of fuel gum deposits during storage. Add stabilizer to gasoline in fuel tank or storage container. Always follow mix ratio found on stabilizer container. Run engine at least 10 minutes after adding stabilizer to allow it to reach the carburetor.



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.



CAUTION: *Alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage.*

Long-Term Storage

To avoid engine problems, the fuel system should be emptied before storage for 30 days or longer.



WARNING: Fuel left in engine during warm weather deteriorates and will cause serious starting problems.

1. Run the engine until the fuel tank is empty and it stops due to lack of fuel. Do not attempt to pour fuel from the engine.



WARNING: Never use engine or carburetor cleaning products in the fuel tank or permanent damage may occur.

2. Remove the spark plug and pour one (1) ounce of engine oil through the spark plug hole into the cylinder. Cover spark plug hole with a rag and crank the engine several times to distribute the oil. Replace spark plug.

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.

8

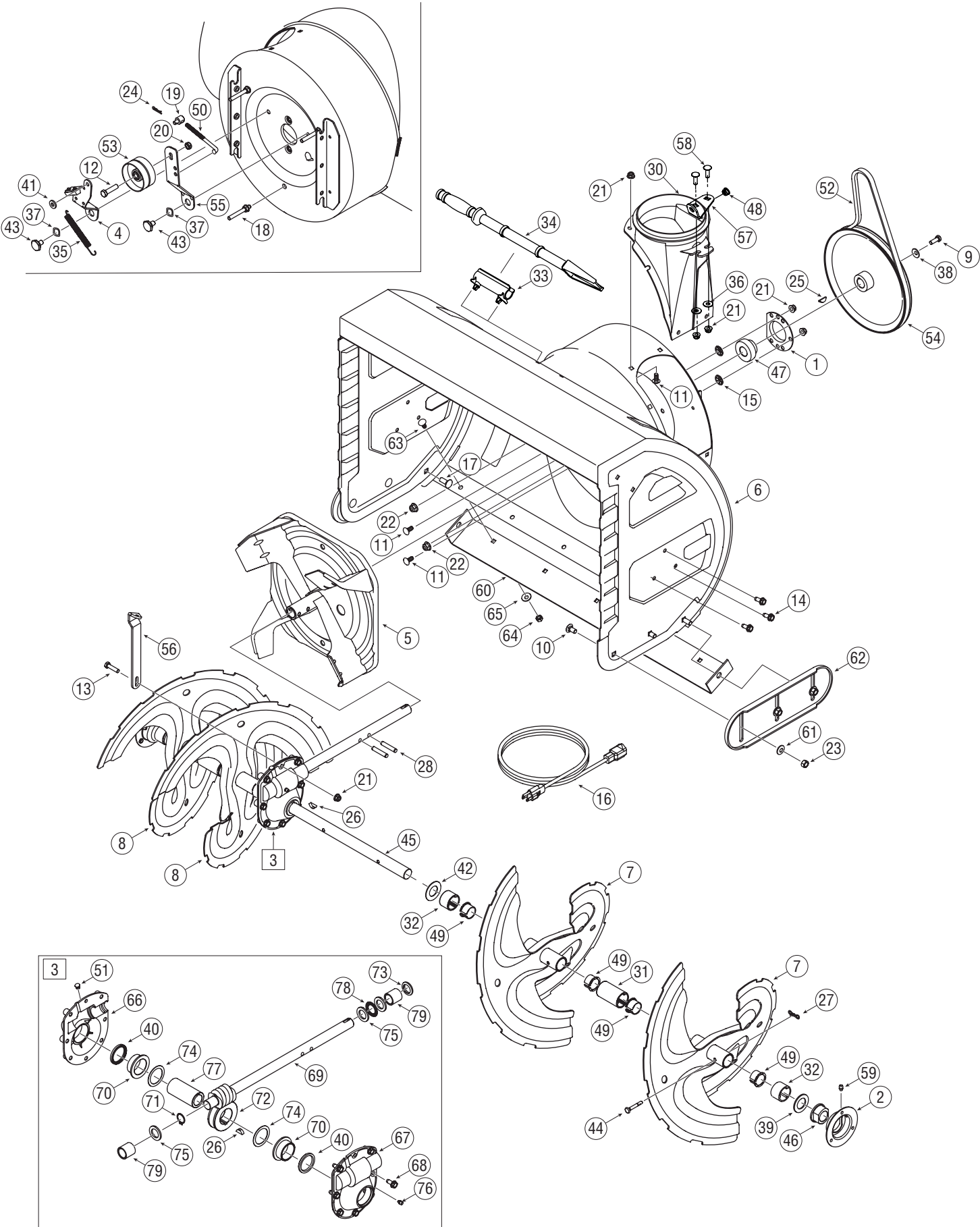
Trouble-shooting



This section addresses minor service issues. For further details, contact an authorized service center.

Problem	Cause	Remedy
Engine fails to start	1. Choke not in ON position. 2. Spark plug wire disconnected. 3. Fuel tank empty or stale fuel. 4. Engine not primed. 5. Faulty spark plug. 6. Blocked fuel line. 7. Safety key not in ignition on engine.	1. Move choke to ON position. 2. Connect wire to spark plug. 3. Fill tank with clean, fresh gasoline. 4. Prime engine as instructed in "Operating Your Snow Thrower". 5. Clean, adjust gap, or replace. 6. Clean fuel line. 7. Insert key fully into the switch.
Engine runs erratic	1. Unit running on CHOKE. 2. Blocked fuel line or stale fuel. 3. Water or dirt in fuel system. 4. Carburetor out of adjustment.	1. Move choke lever to OFF position. 2. Clean fuel line; fill tank with clean, fresh gasoline. 3. Drain fuel tank. Refill with fresh fuel. 4. Contact an authorized Service Center.
Engine overheats	1. Carburetor not adjusted properly.	1. Contact Service Center.
Excessive Vibration	1. Loose parts or damaged auger.	1. Stop engine immediately and disconnect spark plug wire. Tighten all bolts and nuts. If vibration continues, have unit serviced by an authorized Service Center.
Loss of power	1. Spark plug wire loose. 2. Gas cap vent hole plugged. 3. Exhaust port plugged.	1. Connect and tighten spark plug wire. 2. Remove ice and snow from gas cap. Be certain vent hole is clear. 3. Contact Service Center.
Unit fails to propel itself	1. Drive control cable in need of adjustment. 2. Drive belt loose or damaged.	1. Adjust drive control cable. Refer to "Making Adjustments". 2. Replace drive belt.
Unit fails to discharge snow	1. Chute assembly clogged. 2. Foreign object lodged in auger. 3. Auger control cable in need of adjustment. 4. Auger belt loose or damaged. 5. Shear pin(s) sheared.	1. Stop engine immediately and disconnect spark plug wire. Clean chute assembly and inside of auger housing with clean-out tool or a stick. 2. Stop engine immediately and disconnect spark plug wire. Remove object from auger with clean-out tool or a stick. 3. Refer to Auger Control Test. 4. Refer to Maintenance section. 5. Replace with new shear pin(s).

Models 930 SWE & 933 SWE



Ref. No.	Part No.	Description
1	05244B	Housing, Bearing
2	784-0315A	Housing, Double D Bearing
3	618-0436	Gear Box Assembly, Auger
4	618-0281A	Bracket Assy, Auger Brake
5	684-0090B	Impellar, 16"
6	684-04232	Housing, Auger - 30"
	684-04233	Housing, Auger - 33"
7	684-04151	Spiral Assy, LH
8	684-04152	Spiral Assy, RH
9	710-0371	Screw, Hex Cap Lock
10	710-04527	Screw, Carriage, Stnls Stl
11	710-0451	Screw, Carriage, 5/16-18 x .75
12	710-0459A	Scr, Hex Cap, 3/8-24 x 1.5
13	710-0528	Scr, Hex Cap, 5/16-18 x 1.25
14	710-04484	Screw, 5/16-18 x .750
15	726-04012	Nut, Push
16	629-0071	Extension Cord, 110V
17	710-04526	Screw, Carriage, 3/8-16 x 1.0
18	710-04606	Screw, 5/16-18 x .4300
19	711-0677	Ferrule
20	712-0116	Nut, Hex Lock, 3/8-24
21	712-04063	Nut, Flng Lk, 5/16-18
22	712-04065	Nut, Flg Lk, 3/8-16
23	712-04102	Nut, Hex, Stnls Stl, 3/8-16
24	714-0104	Pin, Internal Cotter
25	714-0126	Key, Hi Pro, 3/16 x 3/4
26	714-0135	Key, Woodruff, 1/4 x 3/4
27	714-04040	Pin, Bowtie Cotter
28	715-0118	Pin, Spirol, 5/16 x 1.75
29	725-0157†	Tie, Cable
30	731-1696A	Adapter, Chute, 6"
31	731-05162*	Spacer, 1.0 x 1.5 x 2
32	731-05163	Spacer, 1.0 x 1.5 x 1
33	731-2635	Clip, Mounting
34	731-2643	Tool, Cleanout
35	732-0858	Spring, Extension
36	736-0159	Washer, .349 x .879 x .063
37	736-0174	Washer, .625 x .885 x .015
38	736-0242	Washer, .34 x .872 x .06
39	750-04020	Spacer, 1.004 x 1.375 x .25
40	721-0146	Oil Seal

Ref. No.	Part No.	Description
41	736-3008	Washer, .344 x .75 x .12
42	736-3046A	Washer, 1.01 x 1.86 x .06
43	738-0281	Screw, Shoulder, .625 x .17
44	738-04155	Pin, Shear, .25 x 1.75
45	738-04157	Axle, Spiral, 30"
—	738-04158	Axle, Spiral, 33"
46	741-0192	Bearing, Flange w/Flats
47	741-04024	Bearing, Self Aligning
48	741-0475	Bushing, Nylon
49	741-0494	Bushing, Flange, 1.051 x 1.16
50	747-0980A	Rod, Auger Idler
51	721-0325	Plug
52	754-0222A	V Belt, 1/2 x 44
53	756-0178	Pulley, Flat Idler, 2.75 OD
54	756-0243	Pulley, Auger Drive, 10.0
55	784-0385B	Bracket, Auger Idler
56	790-00264	Bracket, Gear Box Support
57	784-5123	Bracket, Chute Crank
58	710-0276	Screw, Carriage, 5/16-18 x 1.00
59	737-3000	Ftg, 3/16
60	790-00277	Plate, Shave, 30"
—	790-00196A	Plate, Shave, 33"
61	736-04215	Washer, Bell, .37x.87x.06
62	790-00199	Shoe, Skid, Stnls Stl
63	710-04525	Screw, Carriage, 5/16-18 x .75
64	712-04103	Nut, Hex, Stnls Stl,
65	736-04216	Washer, Bell, .34x.87x.06
66	618-0246	Hsg Assy Auger RH (Inc. 40 & 70)
67	618-0435	Hsg Assy Auger LH (Inc. 40 & 70)
68	710-1260A	Screw, LD, 5/16-18 x .750
69	711-1133	Shf, Drive, Auger
70	741-0670	Flange Bearing
71	716-0111	Ext, Ret, Ring
72	717-1425	Gear, Worm, LH
73	721-0145	Seal, Oil
74	736-0266	Washer, Flat, 1.52 ID x 2.0 OD
75	736-0291	Washer, Flat, .88 ID x .38 OD
76	737-3000	3/16 Drive Lube Fitting
77	738-0275	Shf, Gear, Worm
78	741-0184	Brg, Thrust
79	741-0217	Sleeve

† Not Shown

* 33-inch model only

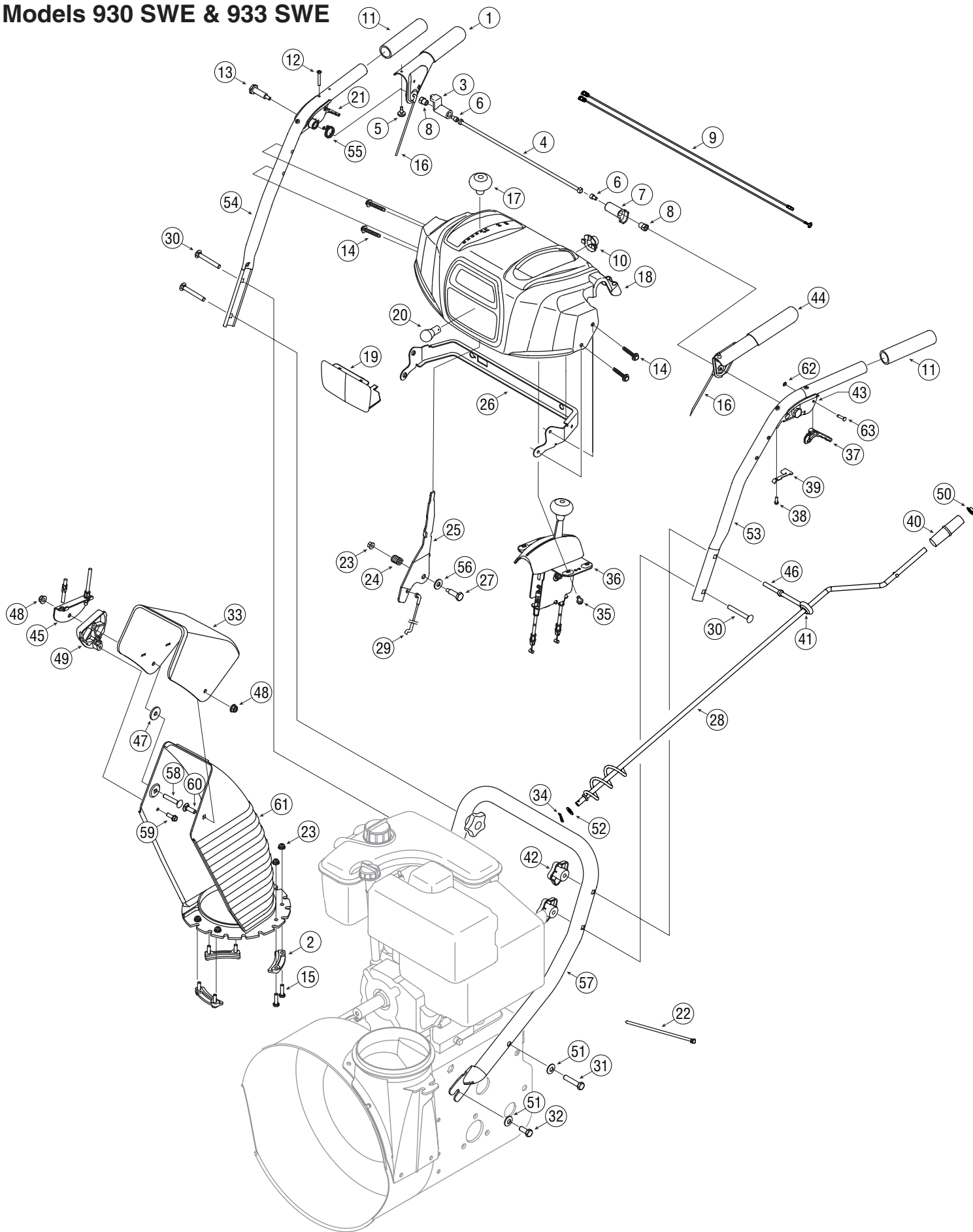
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Parts List



To order replacement parts, call the Customer Dealer Referral Line at 1-877-282-8684, or visit www.cubcadet.com to find the nearest Cub Cadet service dealer in your area.

Models 930 SWE & 933 SWE



Ref. No.	Part No.	Description
1	684-04106B	Handle Engage Assy - RH
2	731-0851A	Chute, Flange Keeper
3	731-04894B	Lock Plate
4	711-04287	Pivot Rod
5	735-0199A	Rubber Bumper
6	710-04354	Screw, 1/4-20 x .375
7	731-04896A	Clutch Lock Cam
8	712-04081A	Shoulder Nut, 1/4-20
9	725-04214	Wire Harness
10	725-1649	Light Socket
11	720-0274	Handle Grip
12	710-1233	Screw, #10-24 x 0.375
13	738-04122	Shoulder Screw, 1/4-20 x 1.345
14	710-04586	Screw, 1/4-20 x 1.625
15	710-0597	Screw, 1/4-20 x 1.00
16	646-0012	Cable Assy, Auger/Drive
17	720-04039	Shift Knob
18	731-05335	Handle Panel
19	731-05324	Lens
20	725-1629	Lamp
21	731-04784A	Handle Clutch Lock - RH
22	725-0157	Cable Tie
23	712-04064	Flange Lock Nut, 1/4-20
24	732-0193	Compression Spring
25	790-00281	Shift Lever
26	790-00248	Panel Bracket
27	738-04125	Shoulder Screw
28	684-04104	Crank, Chute
29	746-04341	Speed Selector Cable
30	710-0572	Screw, Carriage, 5/16-18 x 2.5
31	710-1878	Screw, Hex, 3/8-16 x 1.75
32	710-1879	Screw, Hex, 3/8-16 x .88

Ref. No.	Part No.	Description
33	731-0846C	Upper Chute
34	714-0104	Pin, Internal Cotter Pin
35	710-04187	Hi-Lo Screw, 1/4-15 x 0.5
36	684-04230	2-Way Chute Control™ Assy
37	731-04954	Steering Control
38	710-04326	Screw, #8-16 x 0.50
39	732-04219A	Clutch Lock Spring
40	720-0201A	Knob, Crank
41	735-0234	Grommet, Rubber
42	720-04072	Knob, Star, 5/16-18
43	731-04785	Handle Clutch Lock - LH
44	684-04105A	Handle Engage Assy - LH
45	784-5594	Cable Bracket
46	747-04263	Eye Bolt
47	736-0231	Flat Washer
48	712-04063	Flange Lock Nut, 5/16-18
49	731-1313C	Chute Tilt Cable Guide
50	726-0100	Cap, Push, 3/8
51	736-0105	Washer, Bel, .375 x .87 x .063
52	736-0185	Washer, .375 x .738 x .063
53	749-04309	Handle, Upper - LH
54	749-04310	Handle, Upper - RH
55	732-04238	Torsion Spring
56	736-0267	Flat Washer
57	749-0991	Handle, Lower
58	710-0458	Bolt, Carriage, 5/16-18 x 1.75
59	710-0895	Hi-Lo Screw, 1/4-15 x .75
60	710-0276	Screw, Carriage, 5/16-18 x 1.0
61	731-0903D	Lower Chute
62	716-04036	Ring, Retainer
63	738-04126	Pin, 3/16

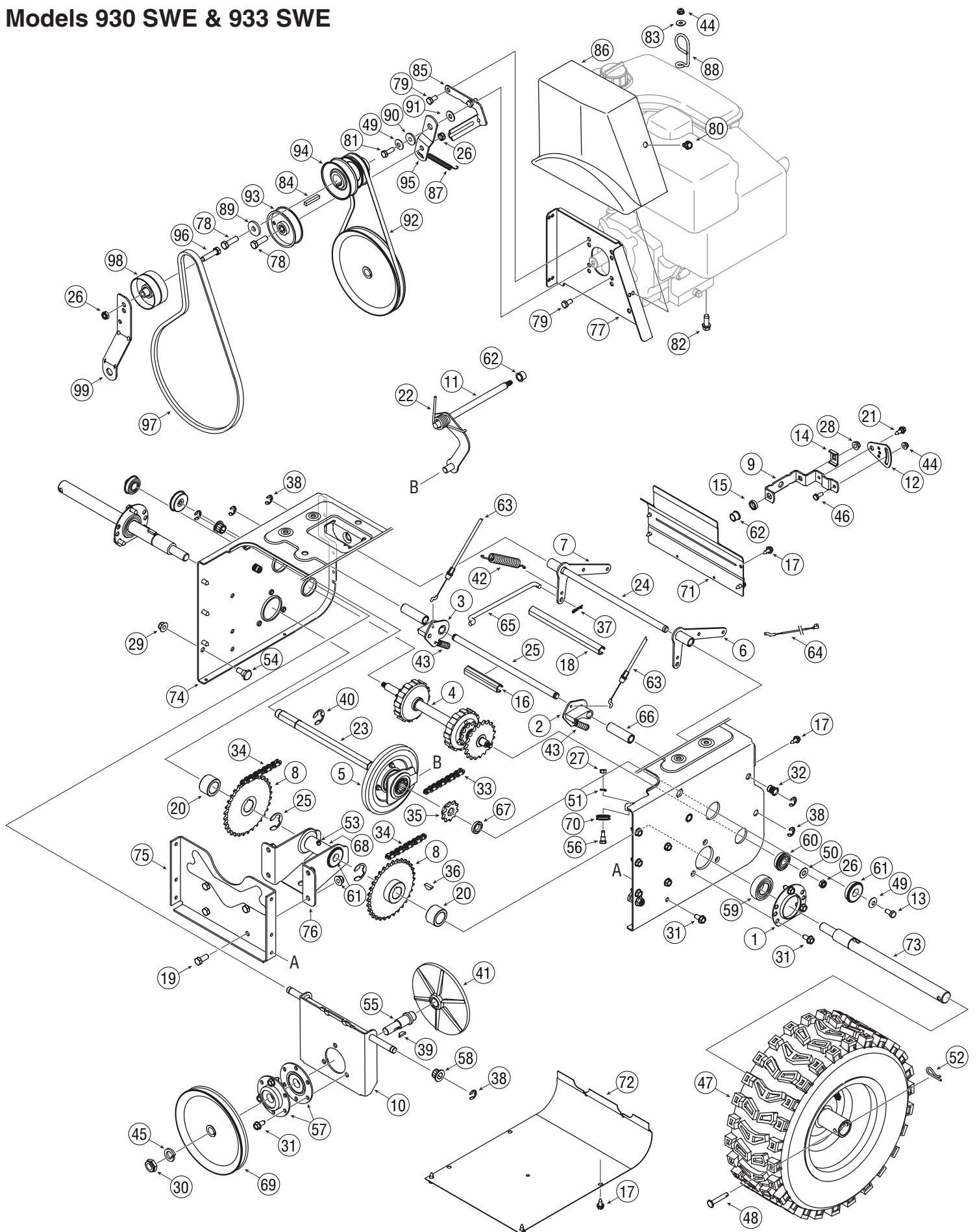
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Parts List



To order replacement parts, call the Customer Dealer Referral Line at 1-877-282-8684, or visit www.cubcadet.com to find the nearest Cub Cadet service dealer in your area.

Models 930 SWE & 933 SWE



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Parts List



To order replacement parts, call the Customer Dealer Referral Line at **1-877-282-8684**, or visit **www.cubcadet.com** to find the nearest Cub Cadet service dealer in your area.

Ref. No.	Part No.	Description
1	05244B	Housing, Bearing
2	618-0279	Dogg, Steering Drive, LH
3	618-0280	Dogg, Steering Drive, RH
4	618-0282E	Shaft Assembly, Steering
5	618-04178	Assembly, Friction Wheel
	718-04034	Wheel, Friction, Bonded
	710-0896	Screw, Hex Wash
6	684-0118A	Bracket, Auger Actuator
7	684-0119A	Bracket, Drive Actuator
8	684-04235	Sprocket, 32T
9	790-00218A	Bracket, Shft., Selector, Spd.
10	684-04212	Bracket, Friction Drive Suprt.
11	684-04229	Rod Assembly, Shift
12	790-00217A	Bracket, Pivot, Selector, Spd.
13	710-0538	Screw, Hex Cap Lock,
14	790-00156	Bracket, Spacer, Shft.
15	750-04719	Spacer, .515 ID x .750 OD
16	750-04718	Spacer, .51 ID x 3.66 Lg.
17	710-1652	Screw, Hex Wash.
18	750-04717	Spacer, .51 ID x 7.895 Lg.
19	710-3001	Screw, Hex Cap, 3/8-16
20	750-04703	Spacer, 1.0 ID x 1.50 OD
21	738-04184A	Screw, Shoulder, .368 x .113
22	732-04385	Spring, Torsion
23	711-04279	Shaft, Hex Drive
24	711-04605	Shaft, Actuator
25	716-04048	Ring, Retainer
26	712-0116	Nut, Hex Insert Jam Lock
27	712-0138	Nut, Hex, 1/4-28 GR5
28	712-04063	Nut, Hex Flng Insert Lk
29	712-04065	Nut, Hex Flng Insert Lk
30	712-0413	Nut, Hex Insert Jam Lk
31	710-04484	TT Screw, 5/16-18 x .750
32	712-0717	Nut, Insert 3/8-16
33	713-0284	Chain, Endless, #41 x 36L
34	713-0286	Chain, #420 x 40L
35	713-04015	Sprocket, #41 x 10T
36	714-0135	Key, Woodruff
37	714-0104	Pin, Internal Cotter
38	716-0104	E-Ring
39	714-0388	Key, Hi-Pro, 3/16 x 5/8
40	716-0136	Ring, Retaining
41	717-0302	Plate, Drive

Ref. No.	Part No.	Description
42	732-0121	Spring, Extension
43	732-0209	Spring, Extension
44	712-04064	Flange, Lock Nut, 1/4-20
45	736-0158	Washer, Lock, 5/8
46	710-0751	Screw, 1/4-20 x .620
47	634-0225	Wheel Assembly - LH
	634-0226	Wheel Assembly - RH
	734-2031	Tire
	734-0255	Valve
	741-0246A	Bearing
48	711-04615	Pin, Clevis
49	736-0242	Washer, Bell., .34 x .872 x .06
50	736-0300	Washer, .406 x .875 x .059
51	736-0329	Washer, Lock, 1/4
52	714-0149B	Pin, Internal Cotter
53	737-3000	Fitting, Lube, 3/16 Drive
54	738-0143	Screw, Shoulder, .498 x .34
55	738-0279	Spindle, Drive Plate
56	738-0924A	Screw, Hex Shldr., 1/4-28
57	741-0163A	Assembly, Bearing/Housing
58	741-04108	Bearing, Hex Flange
59	741-04025	Bearing, Self Aligning
60	741-04076	Bearing, Ball
61	741-0563	Bearing, Ball
62	741-0748	Bushing, Flange, .5 ID x .627 OD
63	746-04337	Cable, Steering
64	746-0951	Cable, Auger Idler
65	747-0973	Rod, Drive Clutch
66	750-0903B	Spacer, .514 x .632 x 2.44
67	750-0997	Spacer, .675 x 1.0 x .23
68	750-1302B	Spacer, .6725 x 1.125 x 2.48
69	756-0344	Pulley, Drive
70	756-0625	Roller, Cable
71	790-00257	Cover, Upper Frame
72	790-00259	Cover, Lower Frame
73	711-04607	Axle, Wheel
74	790-00255	Frame, Transmission
75	784-0406A	Bracket, Frame Support
76	784-0407	Bracket, Axle Support
77	790-00254	Bracket, Belt Cover
78	710-0191	Screw, 3/8-14 x 1.25 GR8
79	710-0237	Screw, 5/16-24 x .625
80	710-0607	Screw, Hx Wash Hd Tapp

Continued on following page

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Parts List

Models 930 SWE & 933 SWE

Continued from previous page

Ref. No.	Part No.	Description
81	710-1245B	Screw, Hx Cap 5/16-24
82	710-0654A	Screw, 3/8-16 x 1.00
83	736-0173**	Washer, Flat, .28 x .74 x .063
84	714-0118	Key, Square, 1/4 x 1.5
85	790-00167A	Bracket, Belt Keeper
86	731-2531	Cover, Belt
87	732-0303	Spring, Extension
88	732-0705	Guide, Chute Cable
89	736-0247	Washer, Flat, .406 x 1.25
90	748-0234	Spacer, Shoulder
91	736-0159**	Washer, Flat, .349 x .879
	748-0418*	Spacer, .33 ID x 1.01 OD x .36
92	754-0131	V-Belt, 3/8 x 35.5
93	756-0240	Pulley, Flat Idler, 3.0 OD
94	756-0241B	Pulley, Dbl, 3.25 OD
95	784-5726	Bracket, Idler, Drive
96	710-0459A	Screw, 3/8-24 x 1.50
97	754-0222A	V-Belt, 1/2 x 44.0
98	756-0178	Idler, Flat, 2.75 OD
99	784-0385B	Bracket, Idler, Auger
100	750-1148A†*	Spacer 1.02 x 1.63 x .1425

† Not Shown

* 30-inch model only

** 33-inch model only

MANUFACTURER'S LIMITED COMMERCIAL WARRANTY FOR:



The limited warranty set forth below is given by Cub Cadet LLC with respect to new merchandise used for commercial purposes and purchased and used in the United States and/or its territories and possessions, and by MTD Products Limited with respect to new merchandise purchased and used in Canada and/or its territories and possessions (either entity respectively, "Cub Cadet").

"Cub Cadet" warrants this product (excluding its normal wear parts as described below) against defects in material and workmanship for a period of one (1) year commencing on the date of original purchase and will, at its option, repair or replace, free of charge, any part found to be defective in materials or workmanship. This limited warranty shall only apply if this product has been operated and maintained in accordance with the Operator's Manual furnished with the product, and has not been subject to misuse, abuse, neglect, accident, improper maintenance, alteration, vandalism, theft, fire, water, or damage because of other peril or natural disaster. Damage resulting from the installation or use of any part, accessory or attachment not approved by Cub Cadet for use with the product(s) covered by this manual will void your warranty as to any resulting damage.

Normal wear parts are warranted to be free from defects in material and workmanship for a period of thirty (30) days from the date of purchase. Normal wear parts include, but are not limited to items such as: batteries, belts, blades, blade adapters, grass bags, rider deck wheels, seats, snow thrower skid shoes, friction wheels, shave plates, auger spiral rubber and tires.

HOW TO OBTAIN SERVICE: Warranty service is available, WITH PROOF OF PURCHASE, through your local authorized service dealer. To locate the dealer in your area:

In the U.S.A.

To locate the dealer in your area, check your Yellow Pages, or contact Cub Cadet LLC at P.O. Box 361131, Cleveland, Ohio 44136-0019, or call 1-877-282-8684, or log on to our Web site at www.cubcadet.com.

In Canada

Contact MTD Products Limited, Kitchener, ON N2G 4J1, or call 1-800-668-1238 or log on to our Web site at www.mtdcanada.com.

This limited warranty does **not** provide coverage in the following cases:

- a. The engine or component parts thereof. These items may carry a separate manufacturer's warranty. Refer to applicable manufacturer's warranty for terms and conditions.
- b. Log splitter pumps, valves, and cylinders have a separate one- year warranty.
- c. Routine maintenance items such as lubricants, filters, blade sharpening, tune-ups, brake adjustments, clutch adjustments, deck adjustments, and normal deterioration of the exterior finish due to use or exposure.
- d. Service completed by someone other than an authorized service dealer.
- e. Cub Cadet does not extend any warranty for products sold or exported outside of the United States and/or Canada, and their respective possessions and territories, except those sold through Cub Cadet's authorized channels of export distribution.
- f. Replacement parts that are not genuine Cub Cadet parts.
- g. Transportation charges and service calls.

No implied warranty, including any implied warranty of merchantability of fitness for a particular purpose, applies after the applicable period of express written warranty above as to the parts as identified. No other express warranty, whether written or oral, except as mentioned above, given by any person or entity, including a dealer or retailer, with respect to any product, shall bind Cub Cadet. During the period of the warranty, the exclusive remedy is repair or replacement of the product as set forth above.

The provisions as set forth in this warranty provide the sole and exclusive remedy arising from the sale. Cub Cadet shall not be liable for incidental or consequential loss or damage including, without limitation, expenses incurred for substitute or replacement lawn care services or for rental expenses to temporarily replace a warranted product.

Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

In no event shall recovery of any kind be greater than the amount of the purchase price of the product sold. **Alteration of safety features of the product shall void this warranty.** You assume the risk and liability for loss, damage, or injury to you and your property and/or to others and their property arising out of the misuse or inability to use the product.

This limited warranty shall not extend to anyone other than the original purchaser or to the person for whom it was purchased as a gift.

HOW LOCAL LAWS RELATE TO THIS WARRANTY: This limited warranty gives you specific legal rights, and you may also have other rights that vary in different jurisdictions.

IMPORTANT: Owner must present Original Proof of Purchase to obtain warranty coverage.

Cub Cadet LLC, P.O. BOX 361131 CLEVELAND, OHIO 44136-0019; Phone: 1-877-282-8684
MTD Canada Limited - KITCHENER, ON N2G 4J1; Phone 1-800-668-1238

MANUFACTURER'S LIMITED WARRANTY FOR



The limited warranty set forth below is given by Cub Cadet LLC with respect to new merchandise purchased and used in the United States, its possessions and territories, and by MTD Products Limited with respect to new merchandise purchased and used in Canada and/or its territories and possessions.

"Cub Cadet" warrants this product against defects in material and workmanship for a period of three (3) years commencing on the date of original purchase and will, at its option, repair or replace, free of charge, any part found to be defective in materials or workmanship. This limited warranty shall only apply if this product has been operated and maintained in accordance with the Operator's Manual furnished with the product, and has not been subject to misuse, abuse, commercial use, neglect, accident, improper maintenance, alteration, vandalism, theft, fire, water, or damage because of other peril or natural disaster. Damage resulting from the installation or use of any part, accessory or attachment not approved by Cub Cadet for use with the product(s) covered by this manual will void your warranty as to any resulting damage.

Normal wear parts are warranted to be free from defects in material and workmanship for a period of thirty (30) days from the date of purchase. Normal wear parts include, but are not limited to items such as: batteries, belts, blades, blade adapters, grass bags, rider deck wheels, seats, snow thrower skid shoes, shave plates, auger spiral rubber and tires.

HOW TO OBTAIN SERVICE: Warranty service is available, WITH PROOF OF PURCHASE, through your local authorized service dealer. To locate the dealer in your area:

In the U.S.A.

To locate the dealer in your area, check your Yellow Pages, or contact Cub Cadet LLC at P.O. Box 361131, Cleveland, Ohio 44136-0019, or call 1-877-282-8684, or log on to our Web site at www.cubcadet.com.

In Canada

Contact MTD Products Limited, Kitchener, ON N2G 4J1, or call 1-800-668-1238 or log on to our Web site at www.mtdcanada.com.

This limited warranty does not provide coverage in the following cases:

- a. The engine or component parts thereof. These items may carry a separate manufacturer's warranty. Refer to applicable manufacturer's warranty for terms and conditions.
- b. Log splitter pumps, valves, and cylinders have a separate one year warranty.

- c. Routine maintenance items such as lubricants, filters, blade sharpening, tune-ups, brake adjustments, clutch adjustments, deck adjustments, and normal deterioration of the exterior finish due to use or exposure.
- d. Cub Cadet does not extend any warranty for products sold or exported outside of the United States and/or Canada, and their respective possessions and territories, except those sold through Cub Cadet's authorized channels of export distribution.
- e. Replacement parts that are not genuine Cub Cadet parts.
- f. Service completed by someone other than an authorized service dealer.
- g. Transportation charges and service calls.

No implied warranty, including any implied warranty of merchantability of fitness for a particular purpose, applies after the applicable period of express written warranty above as to the parts as identified. No other express warranty, whether written or oral, except as mentioned above, given by any person or entity, including a dealer or retailer, with respect to any product, shall bind Cub Cadet. During the period of the warranty, the exclusive remedy is repair or replacement of the product as set forth above.

The provisions as set forth in this warranty provide the sole and exclusive remedy arising from the sale. Cub Cadet shall not be liable for incidental or consequential loss or damage including, without limitation, expenses incurred for substitute or replacement lawn care services or for rental expenses to temporarily replace a warranted product.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

In no event shall recovery of any kind be greater than the amount of the purchase price of the product sold. **Alteration of safety features of the product shall void this warranty.** You assume the risk and liability for loss, damage, or injury to you and your property and/or to others and their property arising out of the misuse or inability to use the product.

This limited warranty shall not extend to anyone other than the original purchaser or to the person for whom it was purchased as a gift.

HOW STATE LAW RELATES TO THIS WARRANTY: This limited warranty gives you specific legal rights, and you may also have other rights that vary in different jurisdictions.

IMPORTANT: Owner must present Original Proof of Purchase to obtain warranty coverage.