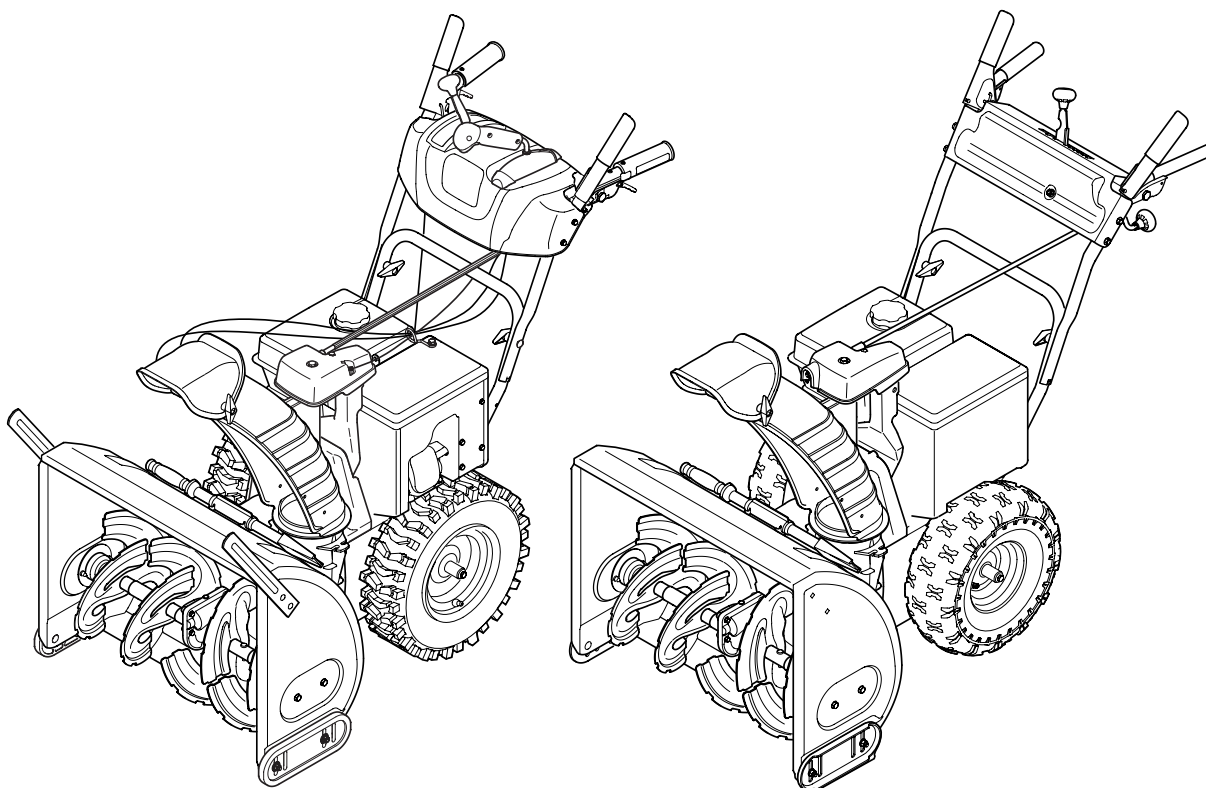


OPERATOR'S MANUAL



Two-Stage Snow Thrower — 500 Series & 600 Series

⚠ WARNING

**READ AND FOLLOW ALL SAFETY RULES AND INSTRUCTIONS IN THIS MANUAL
BEFORE ATTEMPTING TO OPERATE THIS MACHINE.
FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY.**

MTD LLC, P.O. BOX 361131 CLEVELAND, OHIO 44136-0019

Thank You

Thank you for purchasing an MTD Snow Thrower. It was carefully engineered to provide excellent performance when properly operated and maintained.

Please read this entire manual prior to operating the equipment. It instructs you how to safely and easily set up, operate and maintain your machine. Please be sure that you, and any other persons who will operate the machine, carefully follow the recommended safety practices at all times. Failure to do so could result in personal injury or property damage.

All information in this manual is relative to the most recent product information available at the time of printing. Review this manual frequently to familiarize yourself with the machine, its features and operation. Please be aware that this Operator's Manual may cover a range of product specifications for various models. Characteristics and features discussed and/or illustrated in this manual may not be applicable to all models. We reserve the right to change product specifications, designs and equipment without notice and without incurring obligation.

If you have any problems or questions concerning the machine, phone your local authorized MTD service dealer or contact us directly. MTD's Customer Support telephone numbers, website address and mailing address can be found on this page. We want to ensure your complete satisfaction at all times.

Throughout this manual, all references to *right* and *left* side of the machine are observed from the operating position

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Record Product Information

Before setting up and operating your new equipment, please locate the model plate on the equipment and record the information in the provided area to the right. You can locate the model plate by standing at the operator's position and looking down at the rear of the frame. This information will be necessary, should you seek technical support via our web site, Customer Support Department, or with a local authorized service dealer.

MODEL NUMBER

--	--	--	--	--	--	--	--	--	--	--

SERIAL NUMBER

--	--	--	--	--	--	--	--	--	--	--

Customer Support

Please do NOT return the machine to the retailer or dealer without first contacting the Customer Support Department.

If you have difficulty assembling this product or have any questions regarding the controls, operation, or maintenance of this machine, you can seek help from the experts. Choose from the options below:

- ◇ Visit us on the web at www.mtdproducts.com
- ◇ Call a Customer Support Representative at (800) 800-7310 or (330) 220-4683
- ◇ Write to MTD LLC • P.O. Box 361131 • Cleveland, OH • 44136-0019



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!**

CALIFORNIA PROPOSITION 65



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 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 foreign 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 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.
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, 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

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.

1. 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.
2. 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.
3. Use a grounded three-wire extension cord and receptacle for all machines with electric start engines.
4. Adjust auger housing height to clear gravel or crushed rock surfaces.
5. Disengage all control levers before starting the engine.
6. Never attempt to make any adjustments while engine is running, except where specifically recommended in the operator's manual.
7. 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.

- 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.
- k. 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.
- l. If possible, 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.
- m. 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.

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. Keep children away.
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 unlogging 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 unlog the discharge opening. Do not unlog chute assembly while engine is running. Shut off engine and remain behind handles until all moving parts have stopped before unlogging.
19. Use only attachments and accessories approved by the manufacturer (e.g. wheel weights, tire chains, cabs etc.).
20. 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.
21. If situations occur which are not covered in this manual, use care and good judgment. Contact Customer Support for assistance and the name of your nearest servicing dealer.

Clearing a Clogged Discharge Chute

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

To clear the chute:

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

Maintenance & 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 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.
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.
12. Check fuel line, tank, cap, and fittings frequently for cracks or leaks. Replace if necessary.
13. Do not crank engine with spark plug removed.

14. 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.

Spark Arrestor












WARNING! This machine 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.

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 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.

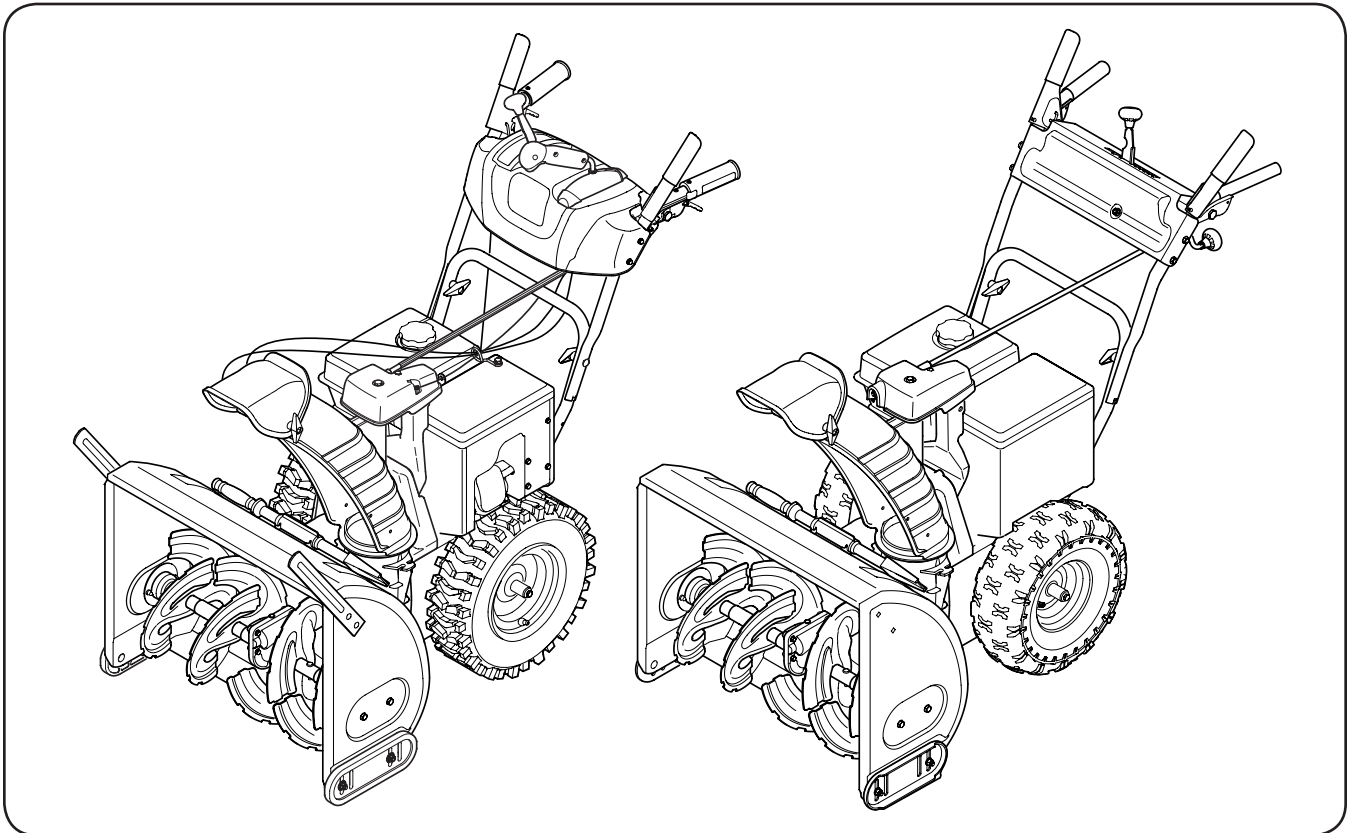


WARNING! Your Responsibility—Restrict the use of this power machine to persons who read, understand and follow the warnings and instructions in this manual and on the machine.

SAVE THESE INSTRUCTIONS!

Contents of Carton

- One Snow Thrower
- Hex Rod (if so equipped)
- Chute Control Rod (if so equipped)
- Two Replacement Auger Shear Pins
- One Snow Thrower Operator's Manual
- One Product Registration Card
- Chute Assembly



There are two chute control styles available that determine your set-up. Refer to the image above to determine which chute control style you have. If your product resembles the image on the left, see page 8 for assembly instructions. If your product resembles the image on the right, see page 10 for assembly instructions.

The Set-Up and Adjustment instructions are the same for both chute controls.

2-Way & 4-Way Assembly

Remove all loose parts before assembling.

Handle Assembly

1. Place the shift lever in the Forward-6 position
2. Observe the lower rear area of the snow thrower to be sure both cables are aligned with roller guides before pivoting the handle upward. Pivot the handle upward. See Fig. 3-1.

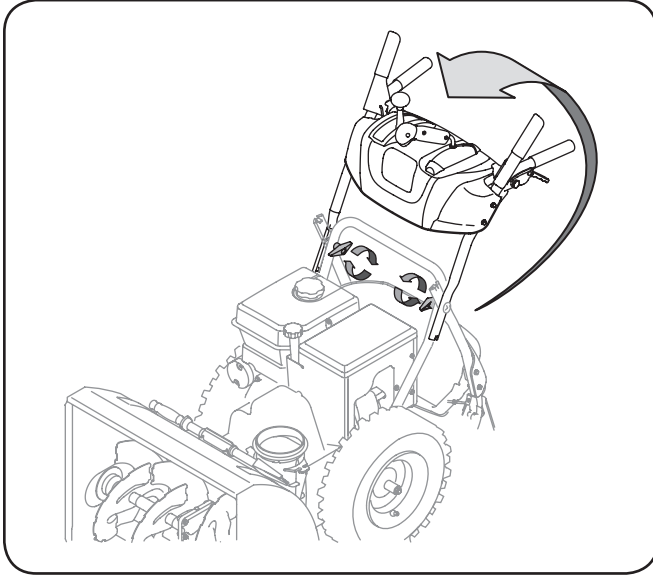


Figure 3-1

NOTE: Make certain the upper ends of each cable are seated properly in its pulley. See Fig. 3-2.

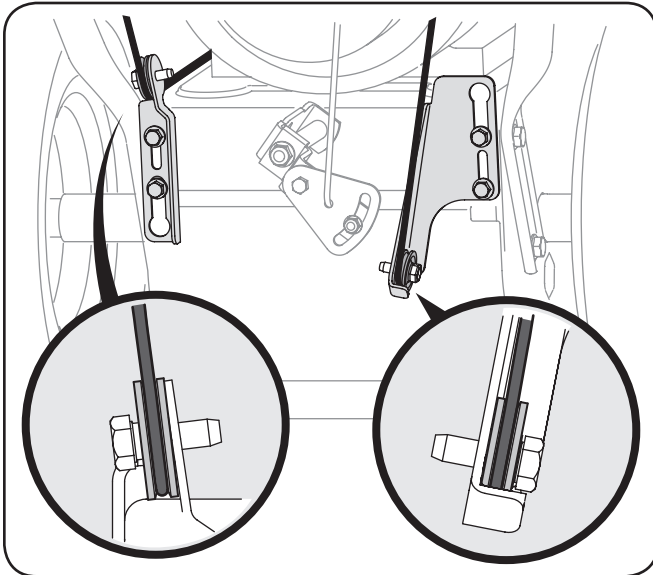


Figure 3-2

3. Secure the handle by tightening the plastic knob located on both the left and right sides of the handle. Remove and discard any rubber bands, if present. They are for packaging purposes only.

Chute Assembly

1. Remove cotter pin, wing nut and hex screw from chute control head and clevis pin and bow-tie cotter pin from chute support bracket. See Fig. 3-3.

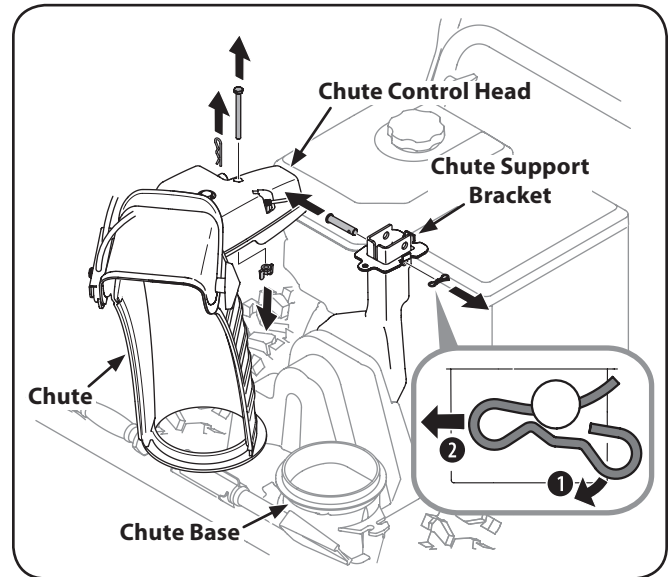


Figure 3-3

2. Insert hex rod into chute control head. Push rod as far into chute control head as possible, keeping the holes in the hex rod pointing upward. See Fig. 3-4.

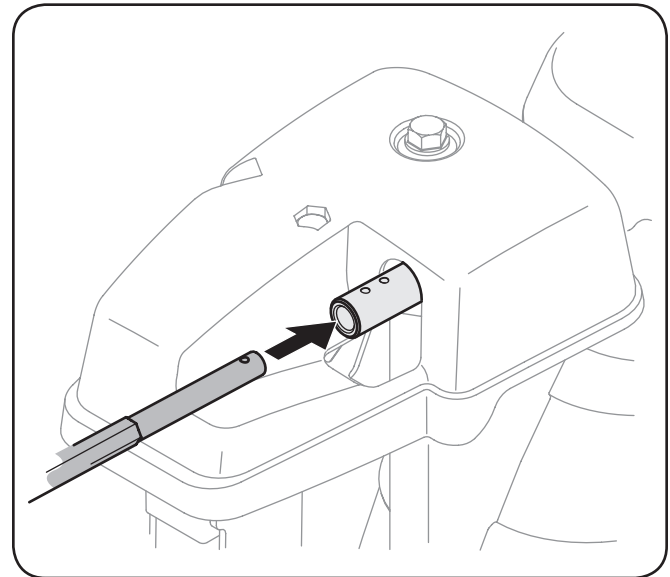


Figure 3-4

- Place chute onto chute base and ensure hex rod is positioned under the handle panel. Install hex bolt previously removed but do not secure with wing nut at this time. See Fig. 3-5.

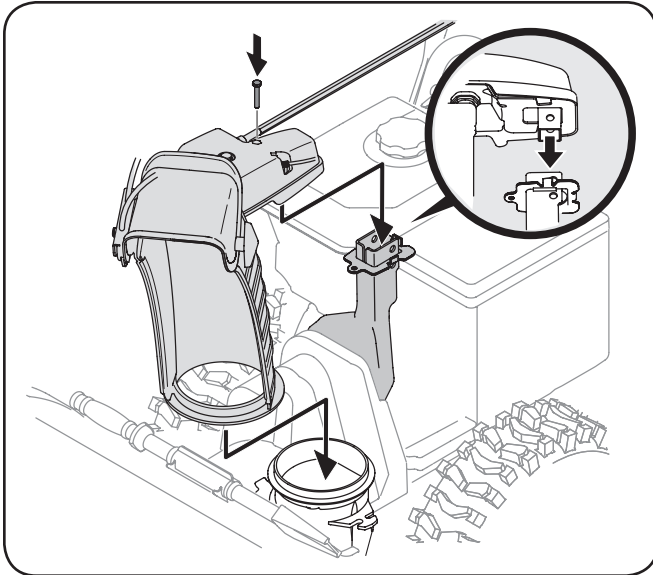


Figure 3-5

- Squeeze the trigger on the joystick and rotate the chute by hand to face forward. The holes in the chute control input will be facing up. See Fig. 3-6.

NOTE: The chute will not rotate without squeezing the trigger on the joystick.

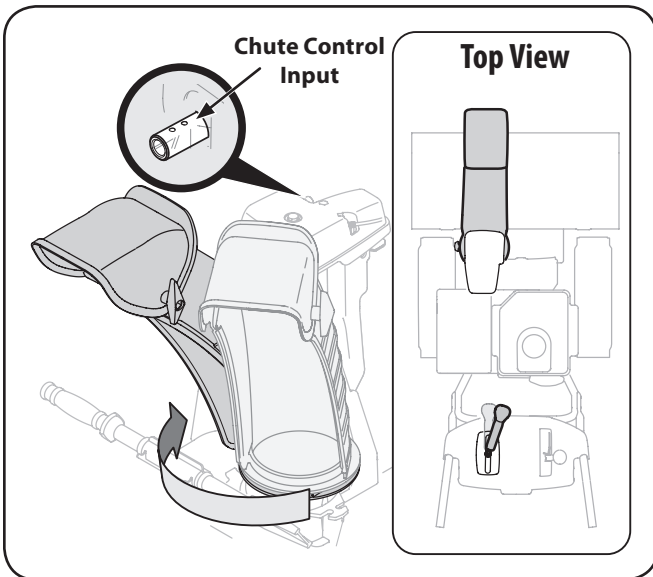


Figure 3-6

- Rotate the joystick to the one o'clock position so that the silver indicator arrow on the pinion gear below the control panel faces upward. See Fig. 3-7.

NOTE: The joystick will be angled slightly to the right at the one o'clock position. See "Top View" in Fig. 3-6.

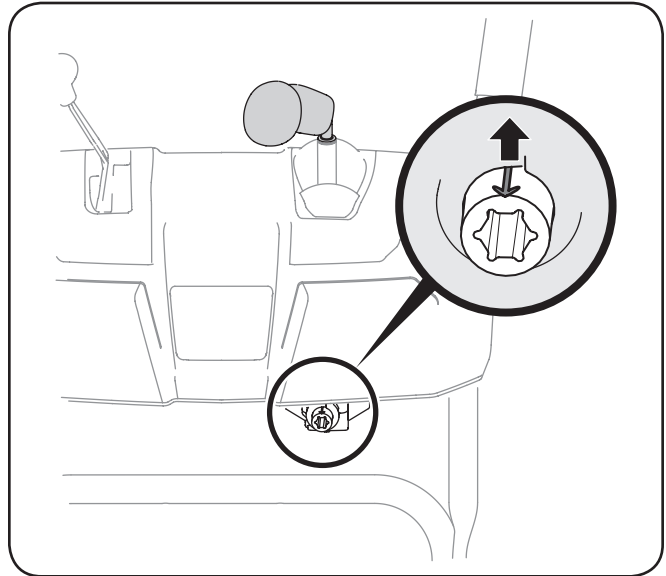


Figure 3-7

- Insert the hex rod into the pinion gear below the joystick. Make sure to line up the hole in the hex rod with the arrow on the pinion gear. See Fig. 3-8.

NOTE: The hex rod will fit snugly into the pinion gear. Support the rear of the dash panel with one hand while inserting the hex rod with your other hand to ensure the hex rod is inserted **all the way** into the pinion gear.

NOTE: The hole is a reference for aligning the rod with the indicator arrow on the pinion gear, and will be visible after the rod has been inserted.

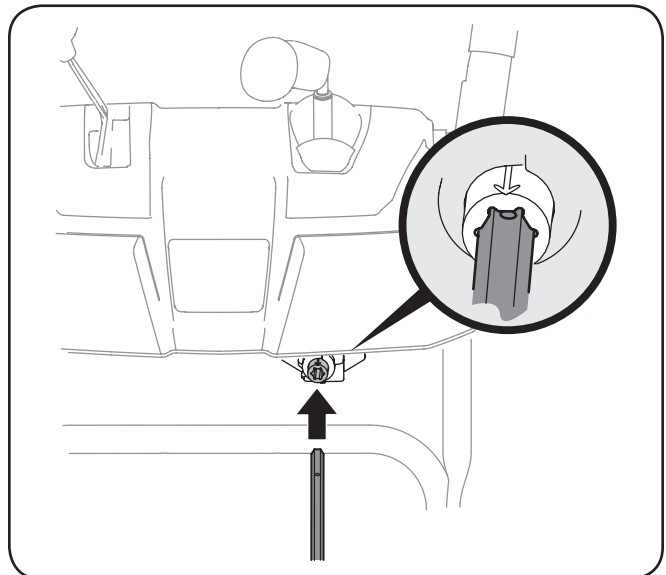


Figure 3-8

7. Push the hex rod toward the control panel until the hole in the hex rod lines up with the hole in the chute control input closest to the chute control head and insert the cotter pin. See Fig. 3-9.

NOTE: The second hole is used to achieve further engagement of the hex rod into the pinion gear if required. Refer to page 21 for Chute Control Rod adjustments.

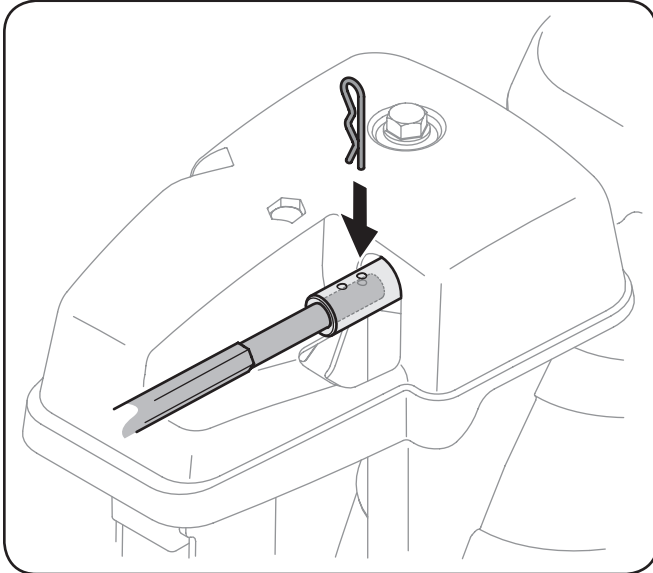


Figure 3-9

8. Finish securing chute control head to chute support bracket with wing nut, clevis pin, and bow-tie cotter pin removed in step 1. See Fig. 3-3.
9. Check that all cables are properly routed through the cable guide on top of the engine. See Fig. 3-10.

NOTE: For smoothest operation, the cables should all be to the left of the hex rod.

NOTE: Models with 2-Way Chute Control have only one cable to route through the cable guide.

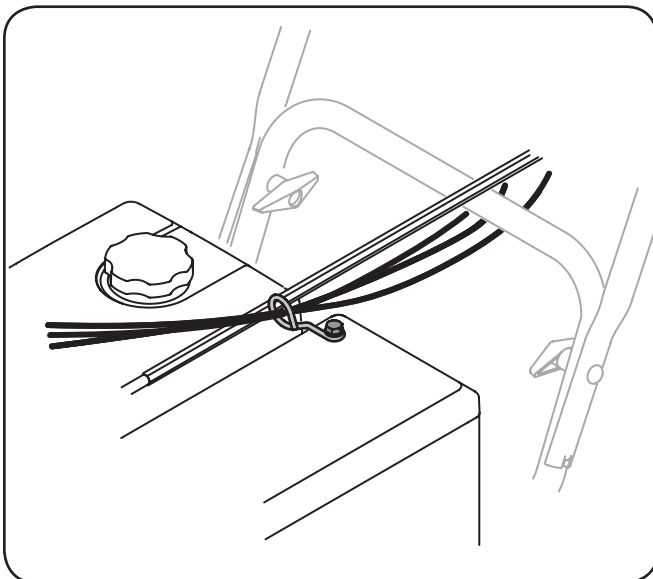


Figure 3-10

Overhead Chute Control Assembly

Handle Assembly

1. Place the shift lever in the Forward-6 position.
2. Observe the lower rear area of the snow thrower to be sure both cables are aligned with roller guides before pivoting the handle upward. See Fig. 3-11.

NOTE: Make certain the upper ends of each cable are seated properly in its pulley. See Fig. 3-2.

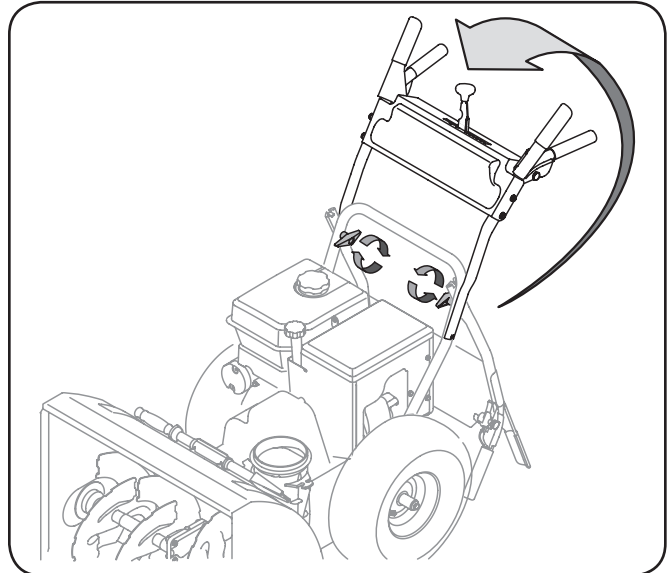


Figure 3-11

3. Secure the handle by tightening the plastic knob located on both the left and right sides of the handle. Remove and discard any rubber bands, if present. They are for packaging purposes only.

Chute Assembly

1. Remove wing nut and hex screw from chute control assembly and clevis pin and cotter pin from chute support bracket. Position the chute assembly (forward-facing) over the chute base. See Fig. 3-12.

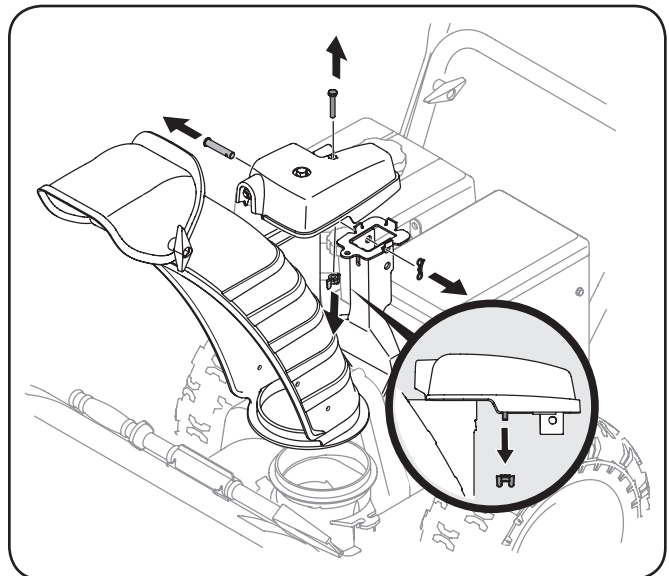


Figure 3-12

- Place chute assembly onto chute base and secure chute control assembly to chute support bracket with clevis pin and cotter pin removed earlier. See Fig. 3-13.

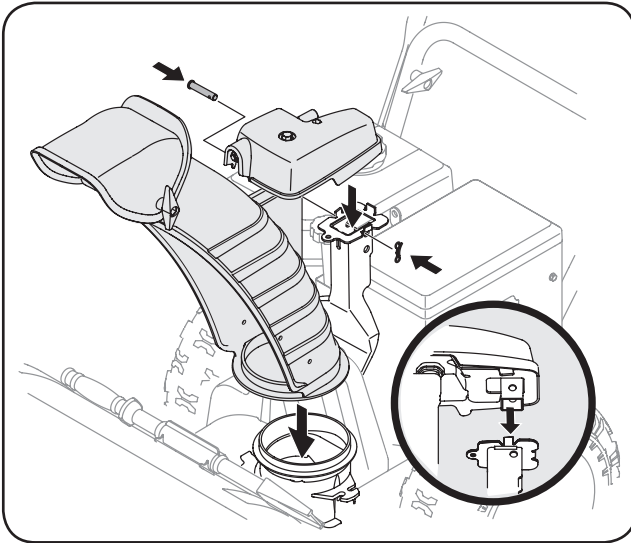


Figure 3-13

- Finish securing chute control assembly to chute support bracket with wing nut and hex screw removed earlier. See Fig. 3-14.

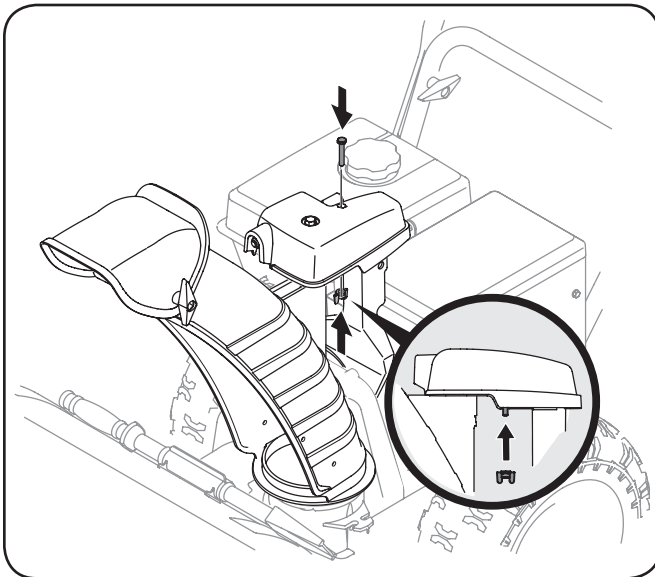


Figure 3-14

- Insert the chute directional control rod into the support bracket on the rear of the dash panel. See Fig. 3-15.

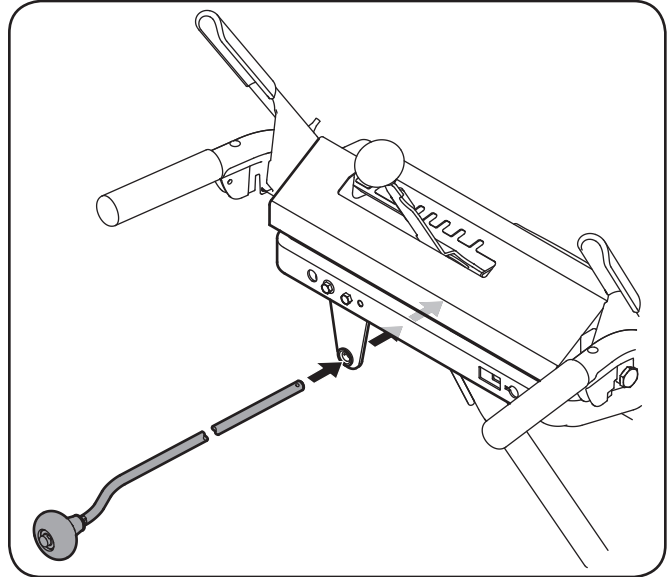


Figure 3-15

- Remove the hairpin clip from the rear of the chute control assembly. See Fig 3-16.

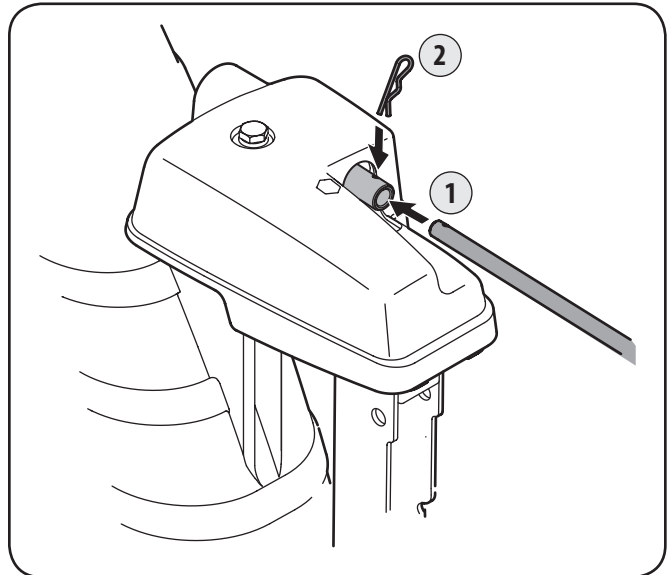


Figure 3-16

- Secure the chute directional control rod to the chute control assembly with the hairpin clip removed earlier. See Fig 3-16.

Set-Up

Shear Pins Storage (if so equipped)

A pair of replacement auger shear pins and bow tie cotter pins are included with your snow thrower. If your snow thrower has a 2-Way or 4-Way crank style, you may store them in your snow thrower's dash panel until needed. If your snow thrower has an overhead chute control, store the shear pins in a safe place until needed. See Fig. 3-17.

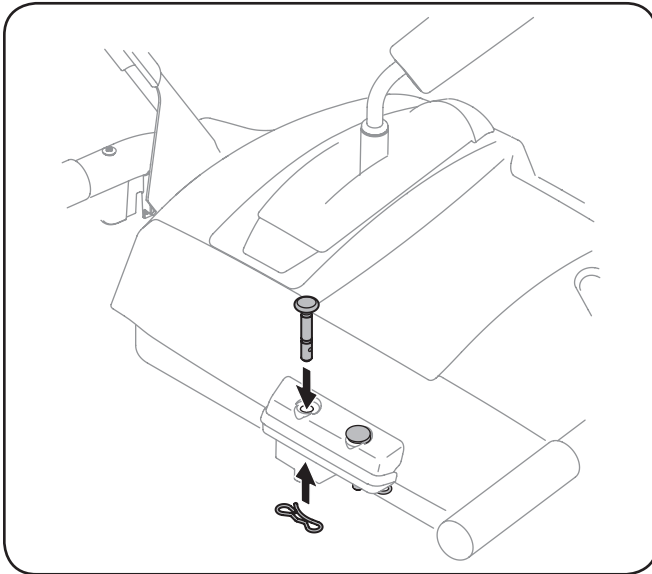


Figure 3-17

Chute 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 Fig. 3-18.

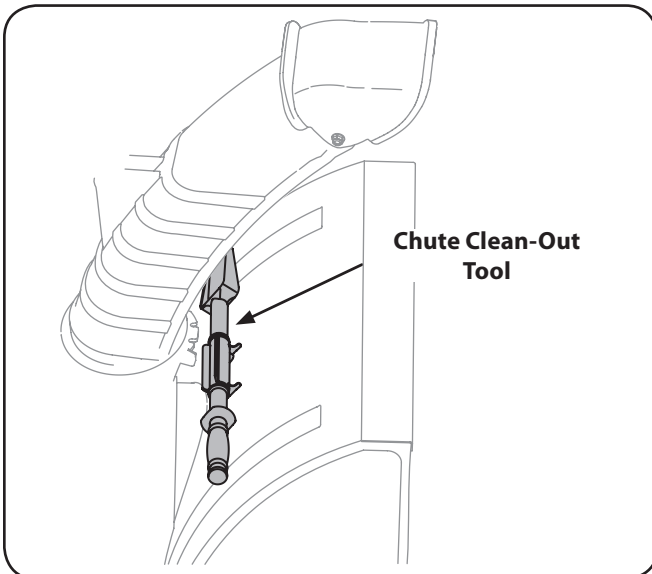


Figure 3-18

Drift Cutters (if so equipped)

1. Remove the two screws and lock nuts that secure each drift cutter, and remove them from the sides of the auger housing.
2. Turn the drift cutters around and position them as shown in Fig. 3-19 to the outside of the auger housing.

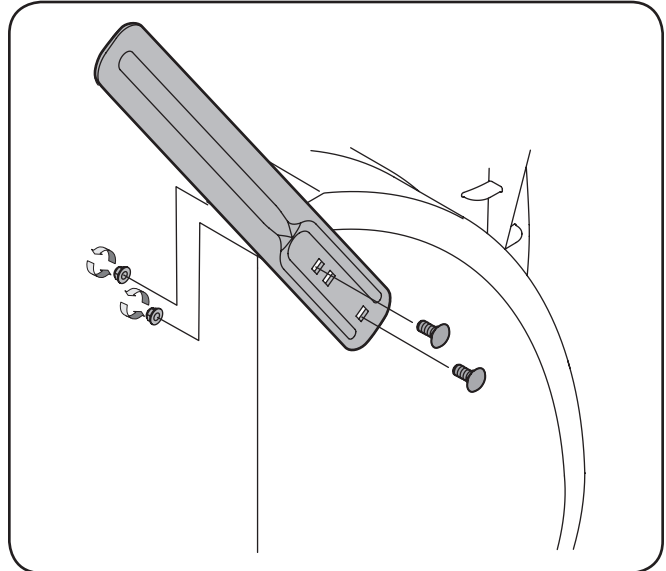


Figure 3-19

3. Attach the drift cutters with the screws and lock nuts removed earlier.

Tire Pressure



WARNING! 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.

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: Equal tire pressure is to be maintained at all times for performance purposes.

Adjustments

Chute Assembly

NOTE: Chutes on models with 4-Way Chute Control are also controlled by the Chute Directional Control. See Fig. 4-1.

The distance snow is thrown can be adjusted by changing the angle of the chute assembly. To do so:

1. Stop the engine. Refer to the Engine Operator's Manual. Remove the key and loosen the plastic knob found on the left side of the chute assembly.
2. Pivot the chute upward or downward before retightening the wing knob. See Fig. 3-20.

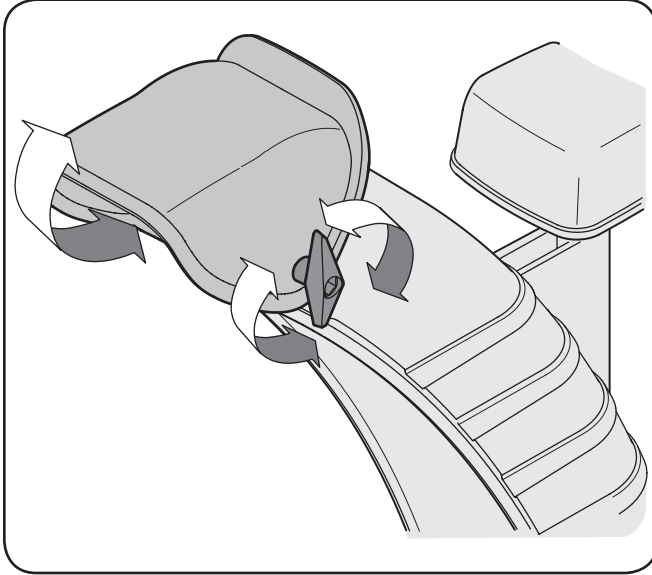


Figure 3-20

Skid Shoes

The snow thrower skid shoes are adjusted upward at the factory for shipping purposes. 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.
- Use a middle or lower position when the area to be cleared is uneven, such as a gravel driveway

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

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 Fig. 3-21.

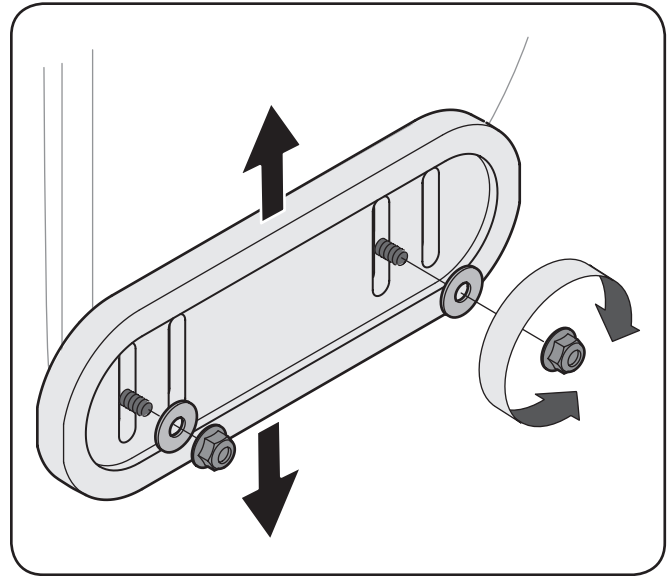


Figure 3-21

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.

Auger Control



WARNING! Prior to operating your snow thrower, carefully read and follow all instructions below. Perform all adjustments to verify your snow thrower is operating safely and properly.

Check the adjustment of the auger control as follows:

1. When the auger control is released and in the disengaged “up” position, the cable should have very little slack. It should NOT be tight.
2. In a well-ventilated area, start the snow thrower engine. Refer to your Engine Operator’s Manual.
3. While standing in the operator’s position (behind the snow thrower), engage the auger.
4. Allow the auger to remain engaged for approximately ten (10) seconds before releasing the auger control. Repeat this several times.
5. With 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. 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.
7. To readjust the control cable, loosen the upper hex screw on the auger cable bracket.
8. Position the bracket upward to provide more slack (or downward to increase cable tension). See Fig. 3-22.

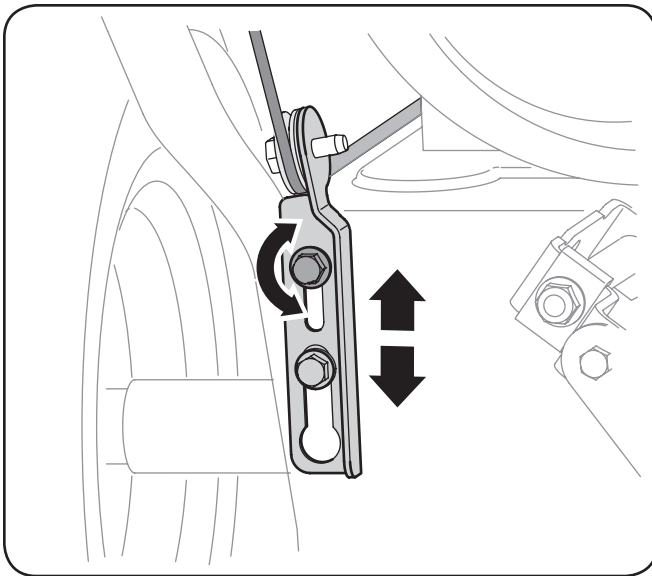


Figure 3-22

9. Retighten the upper hex screw.
10. Repeat steps 2 through 6 above to verify proper adjustment has been achieved.

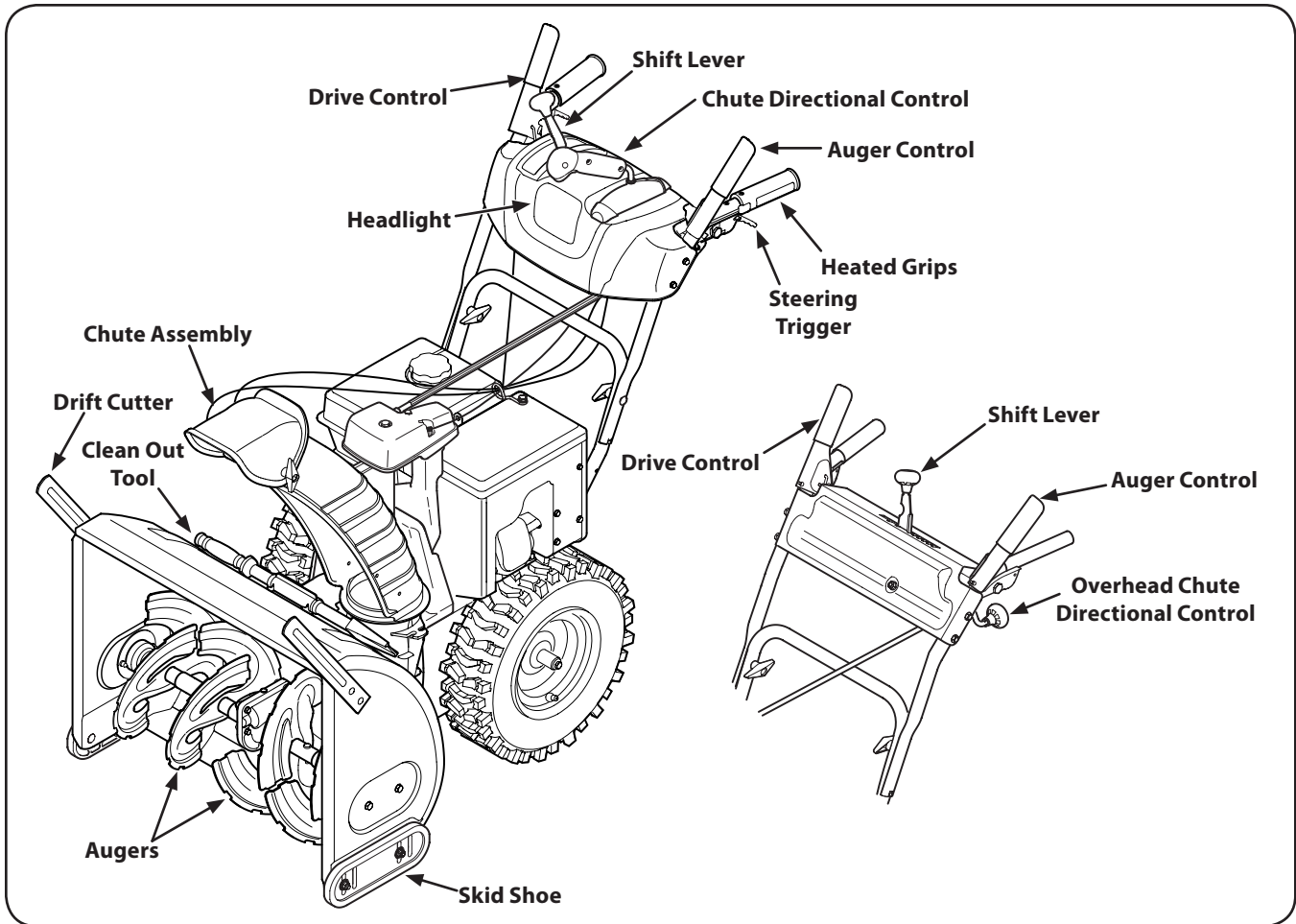


Figure 4-1

Snow thrower controls and features are described below and illustrated in Fig. 4-1.

Shift Lever

The shift lever is located on the handle panel and is used to determine ground speed and direction of travel.

Forward

There are six forward (F) speeds. Position one (1) is the slowest and position six (6) is the fastest.

Reverse

There are two reverse (R) speeds. One (1) is the slower and two (2) is the faster.

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.

Augers

When engaged, the augers rotate and draw snow into the auger housing.

Chute Assembly

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

Headlight (if so equipped)

The headlight is located on top of the handle panel and is automatically turned on when the engine is started.

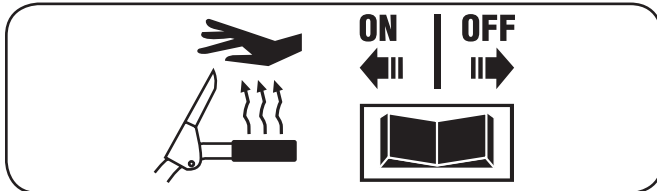
Drift Cutters (if so equipped)

The drift cutters are designed for use in deep snow. Their use is optional for normal snow conditions. Maneuver the snow thrower so that the cutters penetrate a high standing snow drift to assist snow falling into the augers for throwing.

Heated Grips (if so equipped)

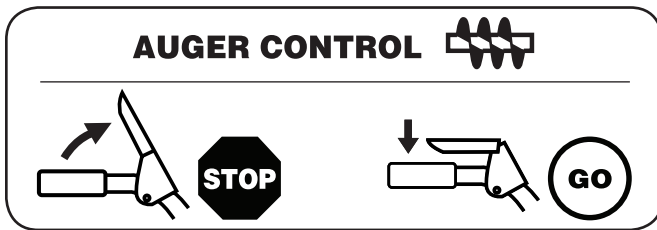


CAUTION: It is recommended that you wear gloves when using the heated grip. If the heated grip become too hot, turn it off.



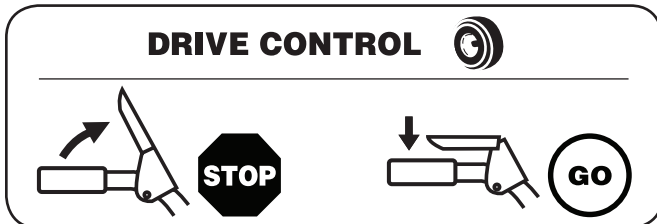
To activate the heated grips, move the switch found on the rear of the dash panel into the ON position.

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 Clutch Lock

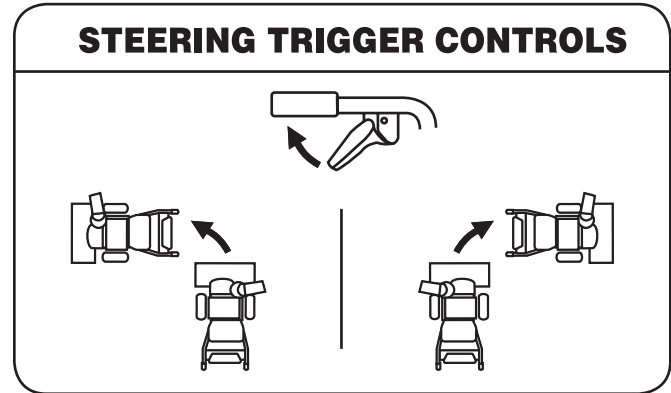


The drive control is located on the right handle. Squeeze the control grip against the handle to engage the wheel drive. Release to stop.

The drive control also locks the auger control so that 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.

NOTE: Always release the drive control before changing speeds. Failure to do so will result in increased wear on your machine's drive system.

Steering Trigger Controls (if so equipped)



The left and right wheel steering trigger controls are located on the underside of the handles.

- Squeeze the right control to turn right.
- Squeeze the left control to turn left.



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

Chute Clean-Out Tool



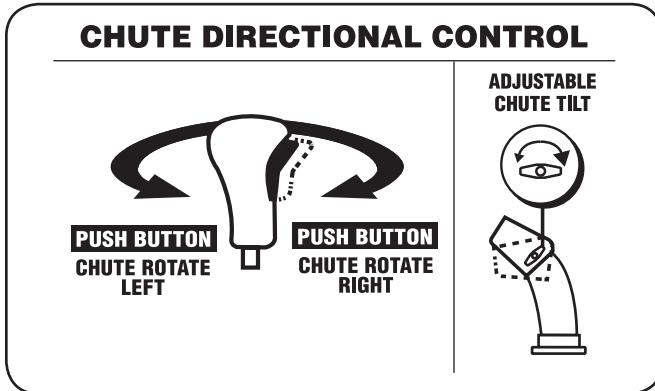
WARNING! Never use your hands to clear a clogged chute assembly. Shut off engine and remain behind handles until all moving parts have stopped before unclogging.

The 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. Refer to the Engine Operator's Manual. Remove the key.
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 key and start the snow thrower's engine.

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.

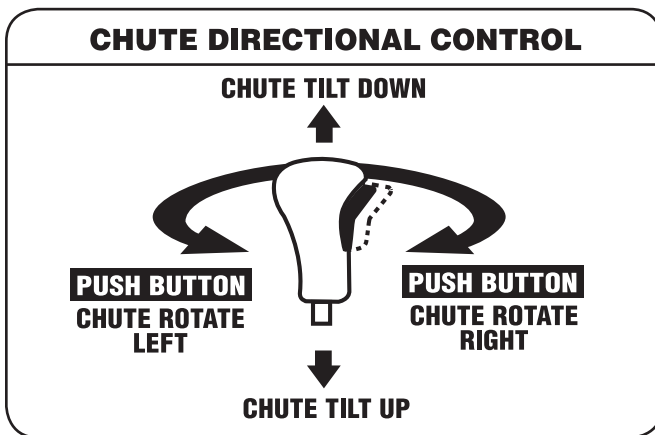
2-Way Chute Directional Control (if so equipped)



The chute directional control is located on the left side of the dash panel.

- To change the direction in which snow is thrown, squeeze the button on the joy-stick and pivot the joy-stick to the right or to the left.

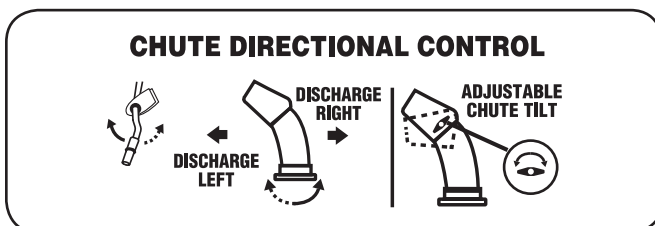
4-Way Chute Directional Control (if so equipped)



The chute directional control is located on the left side of the dash panel.

- To change the direction in which snow is thrown, squeeze the button on the joy-stick and pivot the joy-stick to the right or to the left.
- To change the angle/distance which snow is thrown, pivot the joy-stick forward or backward.

Overhead Chute Directional Control (if so equipped)



The chute directional control is located on left side of the snow thrower. To change the direction in which snow is thrown, rotate the chute directional control.

Starting and Stopping the Engine

Refer to the Engine Operator's Manual packed with your snow thrower for instructions on starting and stopping the engine.

To Engage Drive

1. With the throttle control in the Fast (rabbit) position, move shift lever into one of the six forward (F) positions or two reverse (R) positions. Select a speed appropriate for the snow conditions and a pace you're comfortable with.
2. Squeeze the drive control against the handle the snow thrower will move. Release it and drive motion will stop.

To Engage Augers

To engage the augers and start throwing snow, squeeze the auger control against the left handle. Release to stop the augers.

To Steer

With the drive control engaged, squeeze the right steering trigger control to turn right. Squeeze the left steering trigger control to turn left.



CAUTION: Operate the snow thrower in open areas and at slow speeds until you are familiar with the drive control and comfortable operating the steering controls.

Engage Heated Grips (if so equipped)



CAUTION: It is recommended that you wear gloves when using the heated grip. If the heated grip become too hot, turn it off.

To activate the heated grips, move the switch found on the rear of the dash panel into the ON position. See Fig. 5-1.

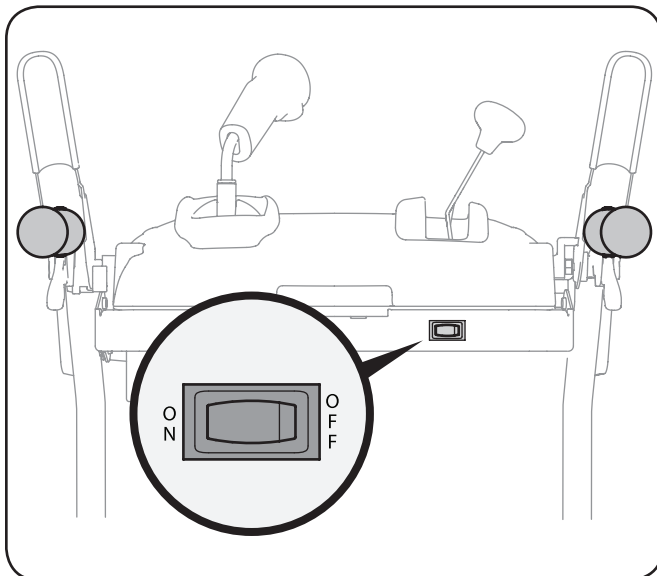


Figure 5-1

Replacing Shear Pins

The augers are secured to the spiral shaft with shear pins and cotter pins. If the auger should strike a foreign object or ice jam, the snow thrower is designed so that the pins may shear. If the augers will not turn, check to see if the pins have sheared. See Fig. 5-2.



CAUTION: NEVER replace the auger shear pins with anything other than OEM Part No. 738-04124A replacement shear pins. Any damage to the auger gearbox or other components 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 key prior to replacing shear pins.

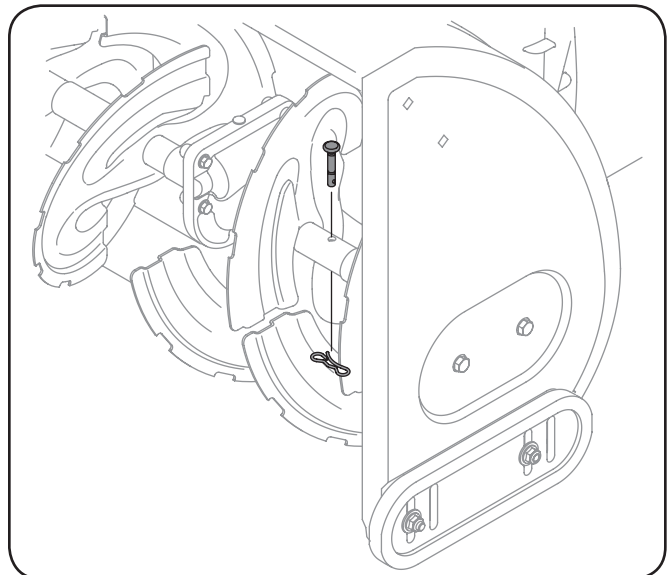


Figure 5-2

Maintenance

Engine

Refer to the Engine Operator's Manual packed with your snow thrower.

Tire Pressure

Refer to page 12 for information regarding tire pressure.

Shave Plate and Skid Shoes

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

NOTE: Deluxe skid shoes (on select models) have two wear edges. When one side wears out, they can be rotated 180° to use the other edge.

To remove skid shoes:

1. Remove the four carriage bolts and hex flange nuts which secure them to the snow thrower.
2. Reassemble new skid shoes with the four carriage bolts (two on each side) and hex flange nuts. Refer to Fig. 6-1.

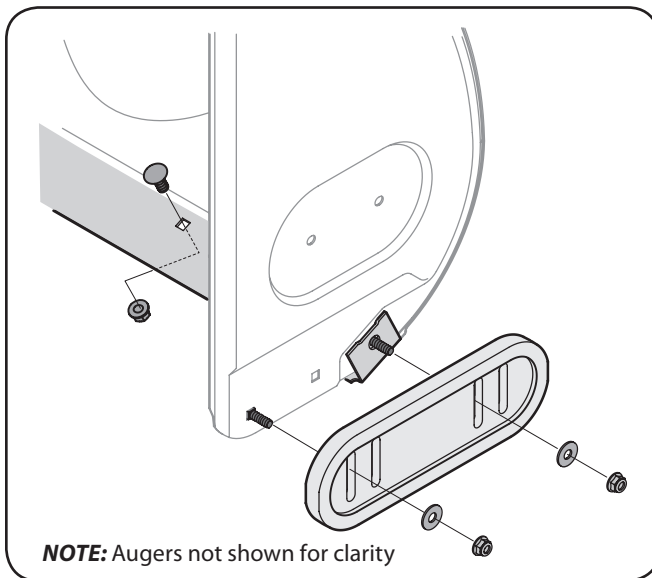


Figure 6-1

To remove shave plate:

1. Remove the carriage bolts and hex nuts which attach it to the auger housing.
2. Reassemble new shave plate, making sure heads of carriage bolts are to the inside of housing. Tighten securely.

Lubrication

Gear Shaft

The gear (hex) shaft should be lubricated at least once a season or after every twenty-five (25) hours of operation.

1. Allow the engine to run until it is out of fuel.
2. Carefully pivot the snow thrower up and forward so that it rests on the auger housing.
3. Remove the frame cover from the underside of the snow thrower by removing the self-tapping screws which secure it. Refer to Fig 7-3.
4. Apply a light coating of engine oil (or 3-in-1 oil) to the hex shaft. See Fig. 6-2.

NOTE: When lubricating the hex shaft, be careful not to get any oil on the aluminum drive plate or the rubber friction wheel. Doing so will hinder the snow thrower's drive system. Wipe off any excess or spilled oil.

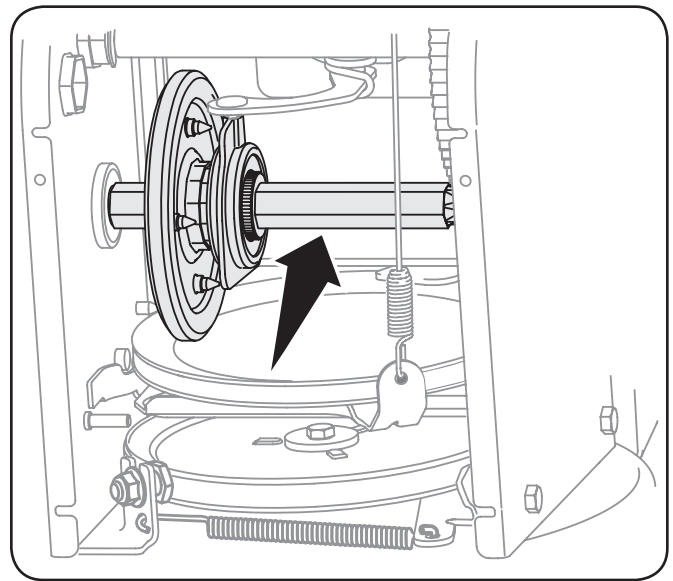


Figure 6-2

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 from the auger shaft. Spray lubricant inside the shaft and around the spacers and the flange bearings found at either end of the shaft. See Fig. 6-3.

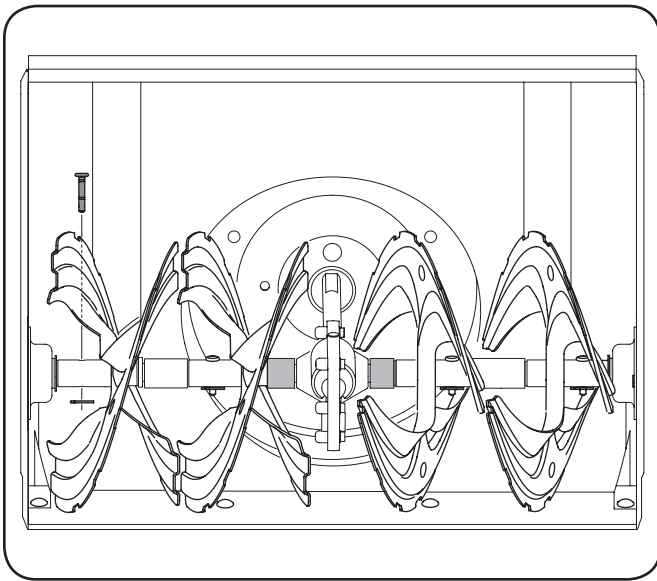


Figure 6-3

Adjustments

Shift Cable

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

1. Place the shift lever in the fastest forward speed position.
2. Loosen the hex nut on the shift cable index bracket. See Fig. 6-4.

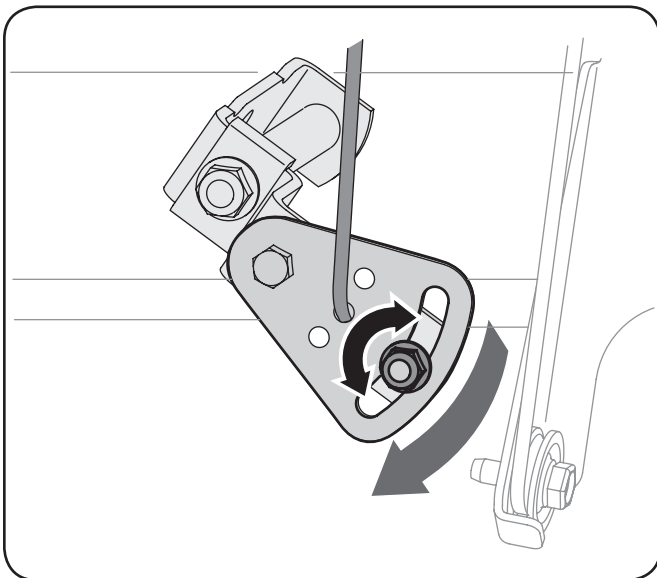


Figure 6-4

3. Pivot the bracket downward to take up slack in the cable.
4. Retighten the hex nut.

Auger Control

Refer to the Assembly & Set-up section for instructions on adjusting the auger control cable.

Chute Assembly

Refer to the Assembly & Set-up section for instructions on adjusting the chute assembly.

Skid Shoes

Refer to the Assembly & Set-up section for instructions on adjusting the skid shoes.

Drive Control

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

NOTE: If excessive slack is present in the drive cable or if the snow thrower’s drive is disengaging intermittently during operation, the cable may be in need of adjustment.

Check the adjustment of the drive control as follows:

1. With the drive control released, push the snow thrower gently forward. The unit should roll freely.
2. Engage the drive control and gently attempt to push the snow thrower forward. The wheels should not turn. The unit should not roll freely.
3. With the drive control released, move the shift lever back and forth between the R2 position and the F6 position several times. There should be no resistance in the shift lever.

If any of the above tests failed, the drive cable is in need of adjustment. Proceed as follows:

1. Loosen the lower hex screw on the drive cable bracket. See Fig. 6-5.

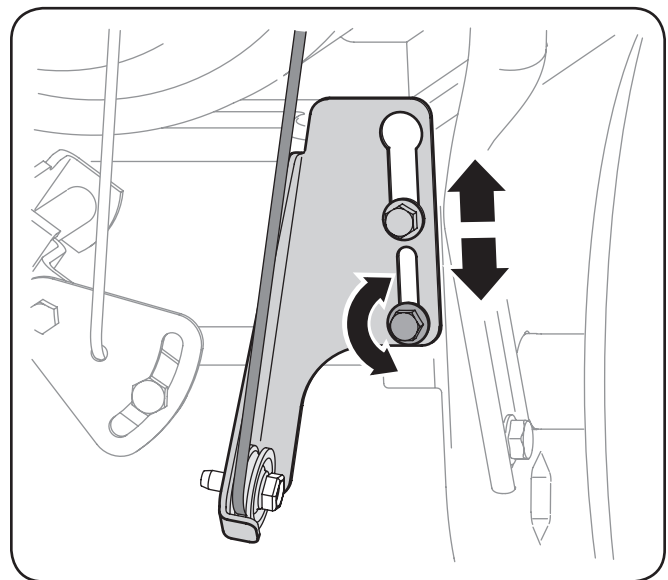


Figure 6-5

2. Position the bracket to provide more slack (or downward to increase cable tension).
3. Retighten the upper hex screw.
4. Check the adjustment of the drive control as described above to verify proper adjustment has been achieved.

Chute Control Rod (2-Way & 4-Way Chute Control)

To adjust the chute control rod, proceed as follows:

1. Remove the cotter pin from the hole closest to the chute assembly on the chute rotation assembly.
2. Pull out the chute control rod until the hole in it lines up with the second hole in the chute rotation assembly. See Fig. 6-6.
3. Reinsert the cotter pin through this hole and the chute control rod. See Fig. 6-6.

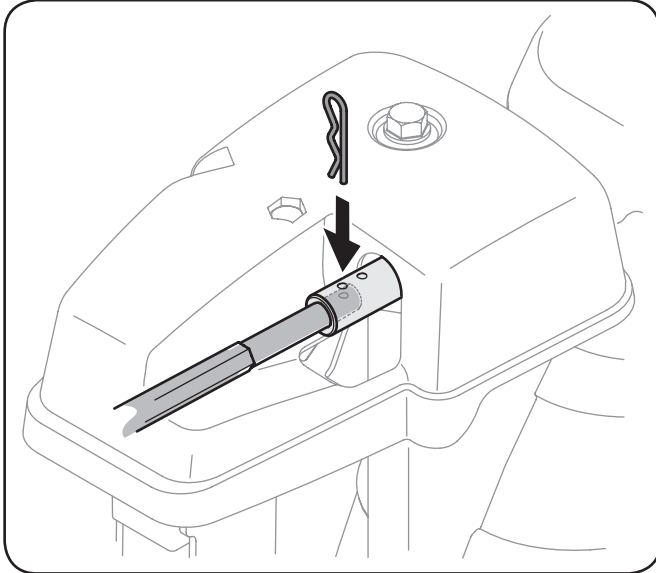


Figure 6-6

Chute Assembly (Overhead Chute Control)

If the chute fails to remain stationary during operation, the pre-load of the chute can be adjusted by tightening the hex nut found on the front of the chute control assembly.

To increase the preload, tighten the hex nut clockwise in $\frac{1}{4}$ turn intervals. See Fig 6-7.

If the chute directional control is difficult to crank, decrease the preload by loosening the hex nut counterclockwise in $\frac{1}{4}$ turn intervals.

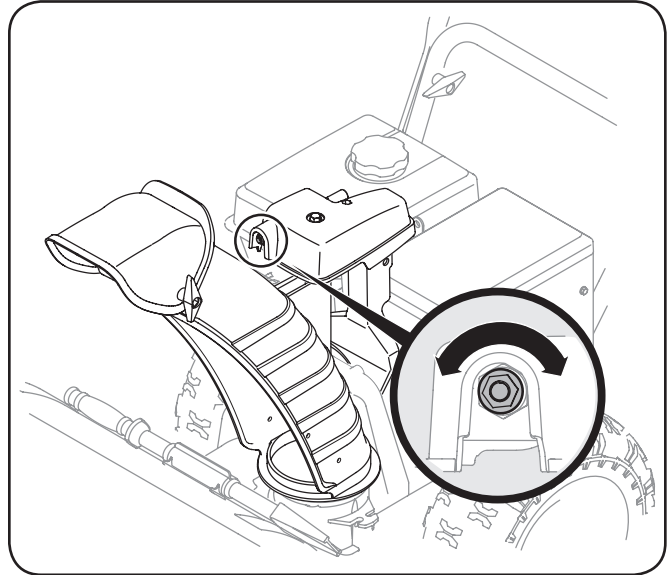


Figure 6-7

Off-Season Storage

If the snow thrower will not be used for 30 days or longer, follow the storage instructions below.

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.
2. Lubricate the machine as instructed earlier in this section.
3. Store in a clean, dry area.
4. If storing the snow thrower in an unventilated area, rustproof the machine using a light oil or silicone to coat the snow thrower.
5. Clean the exterior of the engine and the snow thrower.

NOTE: Refer to the Engine Operator's Manual for information on storing your engine.

Belt Replacement

Auger Belt

To remove and replace your snow thrower's auger belt, proceed as follows:

1. Allow the engine to run until it is out of fuel. Do not attempt to pour fuel from the engine.
2. Remove the plastic belt cover on the front of the engine by removing the two self-tapping screws. See Fig. 7-1.

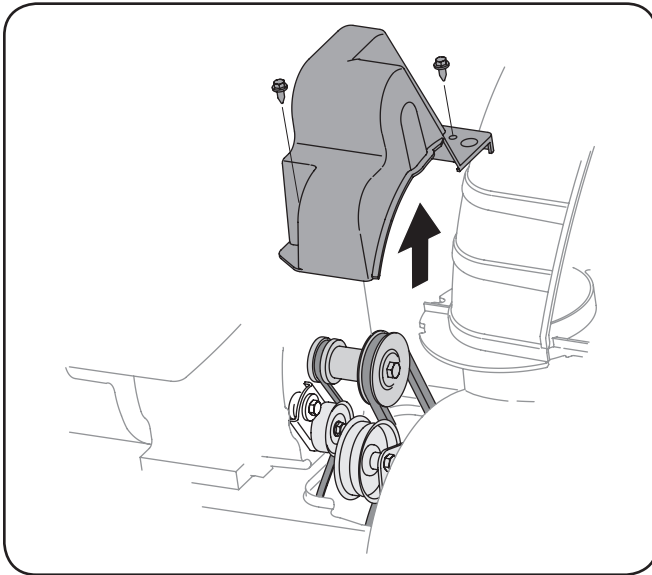


Figure 7-1

3. Roll the auger belt off the engine pulley. See Fig. 7-2.

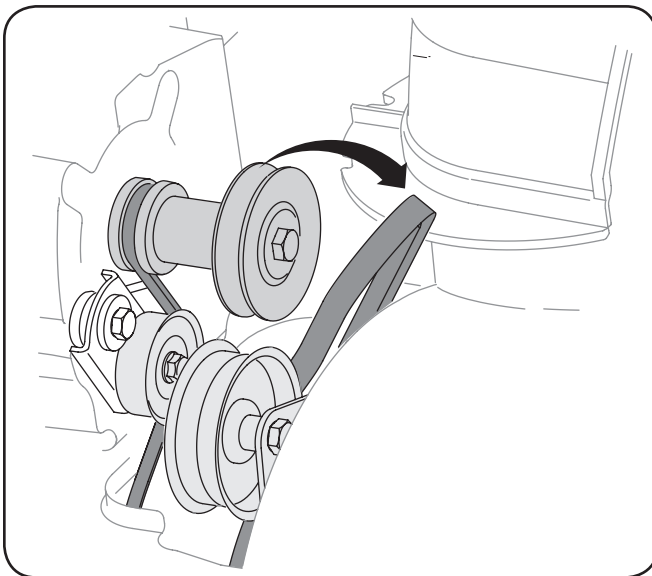


Figure 7-2

4. Carefully pivot the snow thrower up and forward so that it rests on the auger housing.
5. Remove the frame cover from the underside of the snow thrower by removing the self-tapping screws which secure it. See Fig. 7-3.

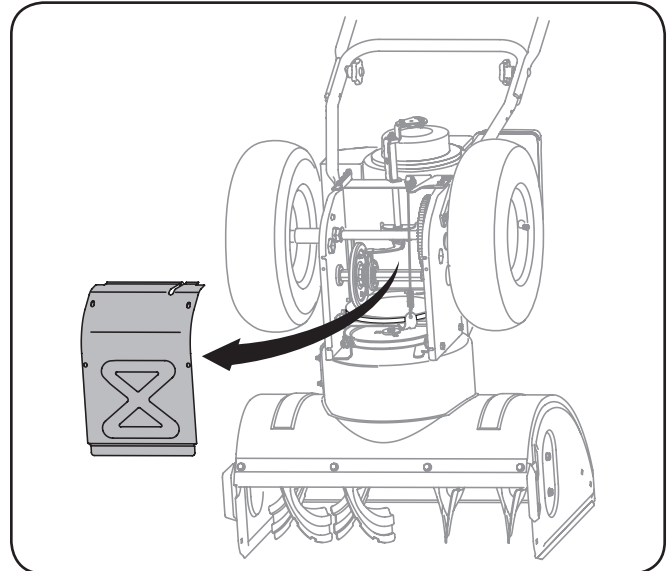


Figure 7-3

6. Remove the belt as follows. See Fig. 7-4.
 - a. Loosen and remove the shoulder bolt which acts as a belt keeper.
 - b. Unhook the support bracket spring from the frame.

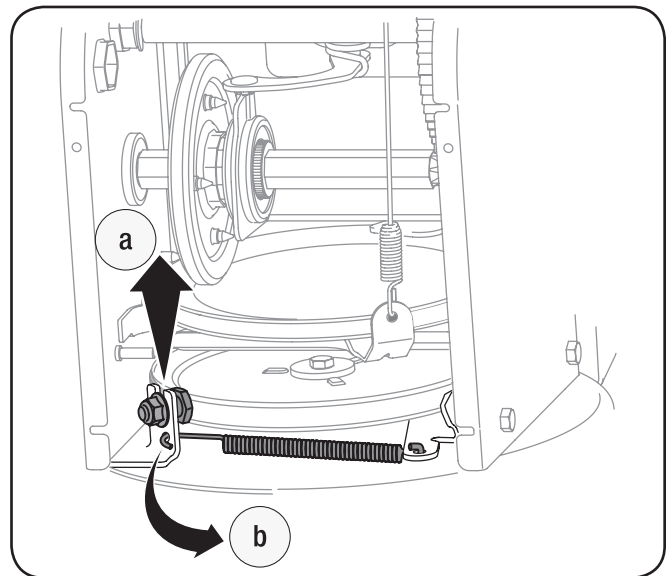


Figure 7-4

- Remove the belt from around the auger pulley, and slip the belt between the support bracket and the auger pulley. See Fig. 7-5.

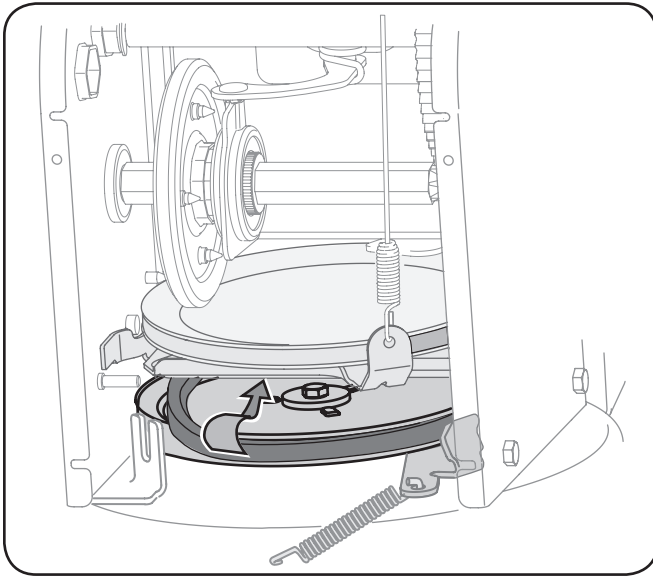


Figure 7-5

- Replace the auger belt by following instructions in reverse order.

NOTE: Do not forget to reinstall the shoulder bolt and reconnect the spring to the frame after installing a replacement auger belt.

- After replacing the auger belt, perform the Auger Control test on page 14 of the Assembly and Set-Up section.

Drive Belt

To remove and replace your snow thrower's drive belt, proceed as follows:

- To prevent spillage, remove all fuel from tank by running engine until it stops. Do not attempt to pour fuel from the engine.
- Remove the plastic belt cover on the front of the engine by removing the two self-tapping screws. Refer to Fig. 7-1.
- Remove the belt as follows. See Fig. 7-6:

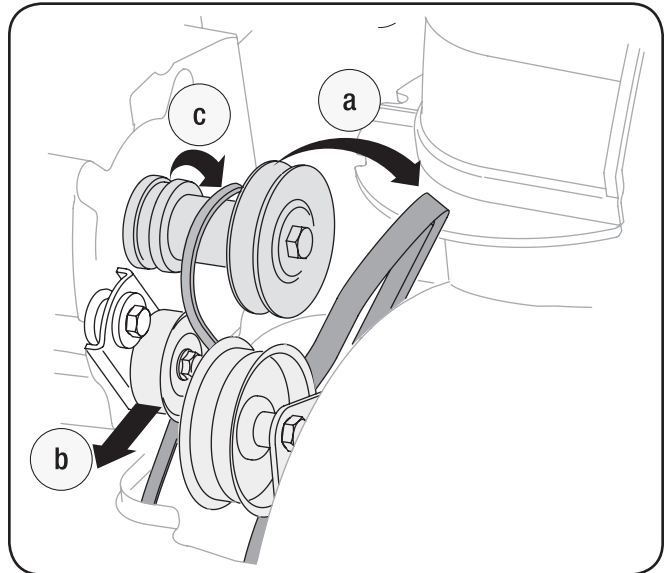


Figure 7-6

- Roll the auger belt off the engine pulley.
 - Pivot the idler pulley toward the right.
 - Lift the drive belt off the engine pulley.
- Carefully pivot the snow thrower up and forward so that it rests on the auger housing.
 - Remove the frame cover from the underside of the snow thrower by removing the self-tapping screws which secure it. Refer to Fig. 7-3.

- Back out the stop bolt to increase the clearance between the friction wheel disc and friction wheel. See Fig. 7-7.

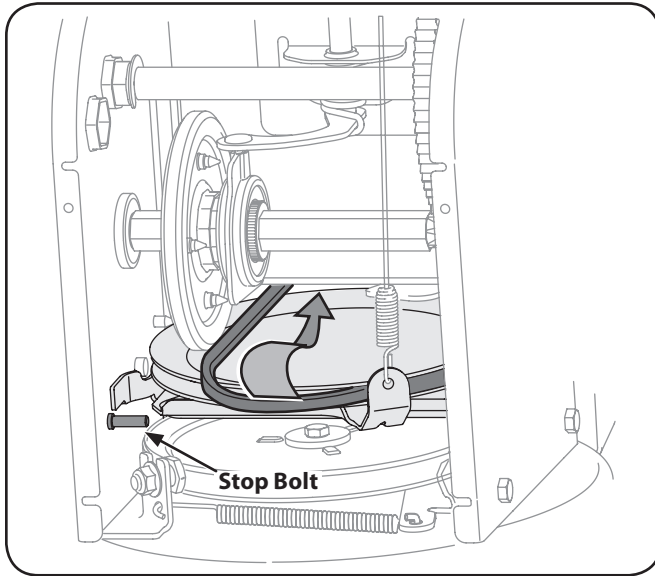


Figure 7-7

- Slip the drive belt off the pulley and between friction wheel and friction wheel disc. See Fig. 7-7.
- Remove and replace belt in the reverse order.

Friction Wheel Inspection (500 Series)

If the snow thrower fails to drive with the drive control engaged, and performing the drive control cable adjustment fails to correct the problem, the friction wheel may need to be replaced.

NOTE: Special tools are required and several components must be removed and in order to replace the snow thrower's friction wheel rubber. See your authorized service dealer to have the friction wheel rubber replaced or phone Customer Support as instructed on page 2 for information on ordering a Service Manual.

To inspect the friction wheel, proceed as follows:

- Allow the engine to run until it is out of fuel. Do not attempt to pour fuel from the engine.
- Carefully pivot the snow thrower up and forward so that it rests on the auger housing.
- Remove the frame cover from the underside of the snow thrower by removing four self-tapping screws which secure it. See Fig. 7-8.
- Examine the friction wheel for signs of wear or cracking.

Friction Wheel Removal (600 Series)

If the snow thrower fails to drive with the drive control engaged, and performing the drive control cable adjustment fails to correct the problem, the friction wheel may need to be replaced. Follow the instructions below. Examine the friction wheel for signs of wear or cracking and replace if necessary:

- Allow the engine to run until it is out of fuel. Do not attempt to pour fuel from the engine.
- Place the shift lever in third Forward (F3) position.
- Carefully pivot the snow thrower up and forward so that it rests on the auger housing.
- Remove the frame cover from the underside of the snow thrower by removing the self-tapping screws which secure it. Remove the right-hand wheel by removing the screw and bell washer which secure it to the axle. See Fig. 7-8.

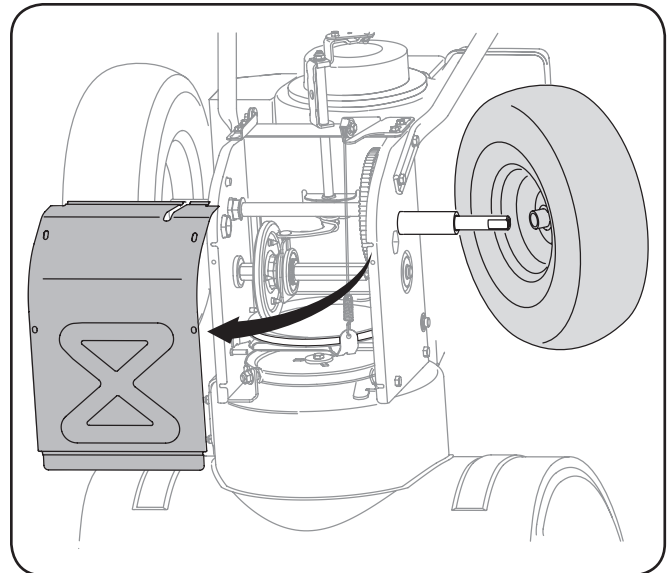


Figure 7-8

- Carefully remove the hex nut which secures the hex shaft to the snow thrower frame and lightly tap the shaft's end to dislodge the ball bearing from the right side of the frame. See Fig. 7-9.

NOTE: Be careful not to damage the threads on the shaft.

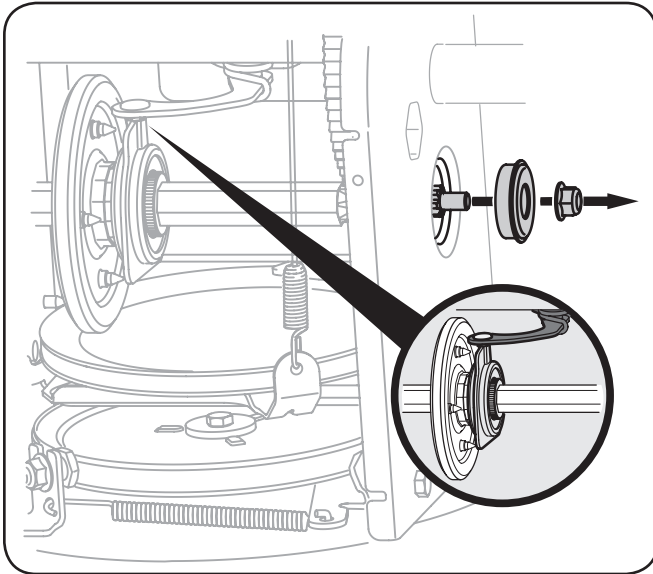


Figure 7-9

- Carefully position the hex shaft downward and to the left before carefully sliding the friction wheel assembly off the shaft. See Fig. 7-10.

NOTE: If you're replacing the friction wheel assembly as a whole, discard the worn part and slide the new part onto the hex shaft.

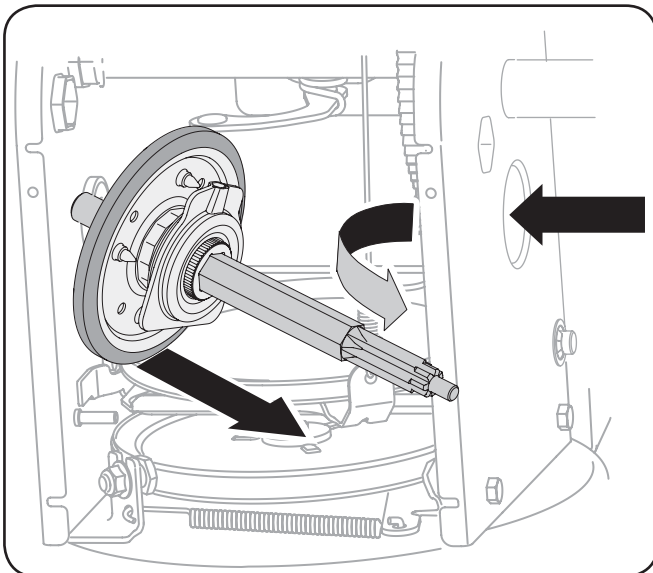


Figure 7-10

Follow the previous steps in reverse order to reassemble components. If you're disassembling the friction wheel and replacing only the rubber ring, proceed as follows:

- Remove the four screws which secure the friction wheel's side plates together. See Fig. 7-11.

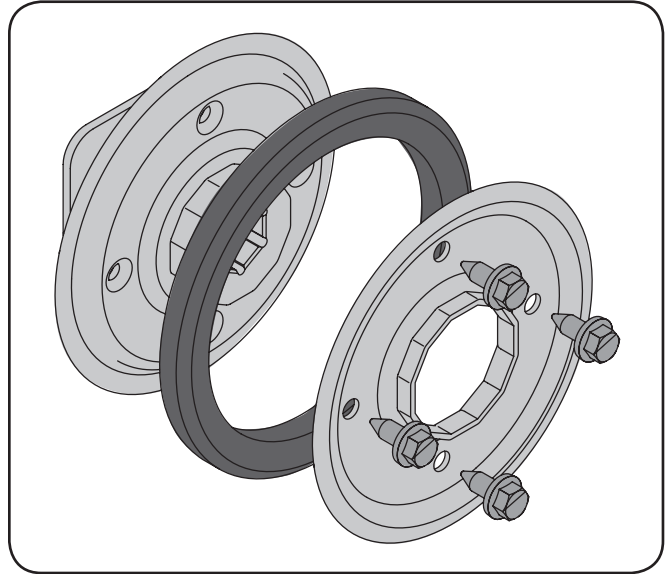


Figure 7-11


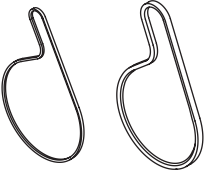
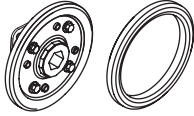
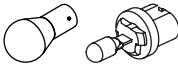
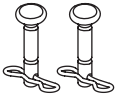
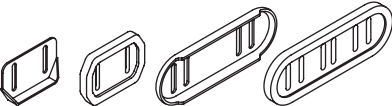
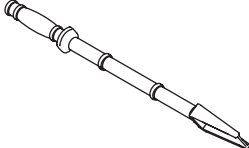
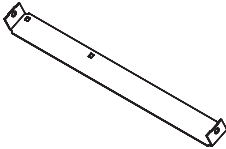
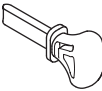

- Remove the rubber ring from between the plates.
- Reassemble the side plates with a new rubber ring.

NOTE: When reassembling the friction wheel assembly, make sure that the rubber ring is centered and seated properly between the side plates. Tighten each screw only one rotation before turning the wheel clockwise and proceeding with the next screw. Repeat this process several times to ensure the plates are secured with equal force (between 6 ft-lbs and 9 ft-lbs).

NOTE: Make sure the shift lever pin is in place in the bearing housing. See Fig. 7-9 inset.

- Slide the friction wheel assembly back onto the hex shaft and follow the steps above in reverse order to reassemble components.
- After replacing the friction wheel, perform the Drive Control test on page 20 in the Maintenance and Adjustments section.

Problem	Cause	Remedy
Engine fails to start	<ol style="list-style-type: none"> 1. Choke not in CHOKE position. 2. Spark plug wire disconnected. 3. Fuel tank empty or stale fuel. 4. Engine not primed. 5. Faulty spark plug. 6. Key not in ignition on engine. 	<ol style="list-style-type: none"> 1. Move choke to CHOKE position. 2. Connect wire to spark plug. 3. Fill tank with clean, fresh gasoline. 4. Prime engine as instructed in the Operation section. 5. Clean, adjust gap, or replace. 6. Insert key fully into the switch.
Engine running erratically/ inconsistent RPM (hunting or surging)	<ol style="list-style-type: none"> 1. Engine running on CHOKE. 2. Stale fuel. 3. Water or dirt in fuel system. 4. Carburetor out of adjustment. 5. Engine over-governed 	<ol style="list-style-type: none"> 1. Move choke lever to RUN position. 2. Fill tank with clean, fresh gasoline. 3. Drain fuel tank. Refill with fresh fuel. 4. Contact an authorized Service Center. 5. Contact an authorized Service Center.
Engine overheats	<ol style="list-style-type: none"> 1. Carburetor not adjusted properly. 	<ol style="list-style-type: none"> 1. Contact an authorized Service 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 an authorized Service 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 control cable in need of adjustment. 2. Drive belt loose or damaged. 3. Friction wheel worn. 	<ol style="list-style-type: none"> 1. Adjust drive control cable. Refer to Maintenance & Adjustments section. 2. Replace drive belt. Refer to Service section 3. Replace friction wheel. Refer to Service section.
Unit fails to discharge snow	<ol style="list-style-type: none"> 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. 	<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 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 & Adjustments section. 5. Replace with new shear pin(s).
Engine fails to start	<ol style="list-style-type: none"> 1. Extension cord not connected (when using electric start button, on models so equipped) 	<ol style="list-style-type: none"> 1. Connect one end of the extension cord to the electric starter outlet and the other end to a three-prong 120-volt, grounded, AC outlet.
Chute fails to easily rotate 180 degrees	<ol style="list-style-type: none"> 1. Chute assembled incorrectly. 	<ol style="list-style-type: none"> 1. Unassemble chute control and reassemble as directed in the Assembly & Set-up section.
Chute does not stay stationary while throwing snow using an overhead chute control.	<ol style="list-style-type: none"> 1. Insufficient preload applied to chute control. 	<ol style="list-style-type: none"> 1. Refer to the Maintenance & Adjustments section to adjust chute preload.

Component	Part Number and Description
	929-0071A Extension Cord, 110V
	954-04050 Auger Drive Belt (24" & 26") 954-04260 Wheel Drive Belt (24" & 26") 954-04195 Auger Drive Belt (28" & 30") 954-04201A Wheel Drive Belt (28" & 30")
	684-04159 Friction Wheel Assembly (500 Series) 684-04153 Friction Wheel Assembly (600 Series) 935-04054 Friction Wheel Rubber (all models)
	725-1629 Lamp, 12V (K Style Panel) 925-1658 Lamp, Halogen (F Style Panel)
	738-04124A Shear Pin, 1.50 714-04040 Bow-tie Cotter Pin
	784-5580 Slide Shoe, Standard (Steel) 731-06439 Slide Shoe, Standard (Polymer) 790-00091 Slide Shoe, Deluxe (Steel) 731-05984A Slide Shoe, Deluxe (Polymer)
	931-2643 Chute Clean-out Tool
	790-00120 Shave Plate, 24" 790-00121 Shave Plate, 26" 790-00118 Shave Plate, 28" 790-00119 Shave Plate, 30"
	951-10630 Key
	951-10292 Spark Plug

Phone (800) 800-7310 to order replacement parts or a complete Parts Manual (have your full model number and serial number ready).
 Parts Manual downloads are also available free of charge at www.mtdproducts.com.

The following attachments and accessories are available for your snow thrower. Phone (800) 800-7310 for information regarding compatibility, price and availability (have your full model number and serial number ready).

Model Number	Description
753-05762A	Heated Grips*
OEM-390-679	Drift Cutter Kit
OEM-390-995	Snow Thrower Protective Cover
490-241-0010	Polymer Skid Shoe Kit
490-241-0013	Snow Thrower Auger and Chute Maintenance Kit
490-241-0028	Tire Chains (16.5" x 4.8" Snow Hog Tires)

*Compatible on models equipped with a split alternator.

MANUFACTURER'S LIMITED WARRANTY FOR



The limited warranty set forth below is given by MTD LLC with respect to new merchandise 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, "MTD").

"MTD" warrants this product (excluding its *Normal Wear Parts and Attachments* as described below) against defects in material and workmanship for a period of two (2) 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 MTD 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, tines, grass bags, wheels, rider deck wheels, seats, snow thrower skid shoes, friction wheels, shave plates, auger spiral rubber, engine oil, air filters, spark plugs and tires.

Attachments — MTD warrants attachments for this product against defects in material and workmanship for a period of one (1) year, commencing on the date of the attachment's original purchase or lease. Attachments include, but are not limited to items such as: grass collectors and mulch kits.

HOW TO OBTAIN PARTS AND 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.

Check your Yellow Pages, or contact MTD LLC at P.O. Box 361131, Cleveland, Ohio 44136-0019, or call 1-800-800-7310, 1-330-220-4683 or log on to our Web site at www.mtdproducts.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. Log splitter pumps, valves, and cylinders have a separate one-year warranty.
- b. 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.

- c. Service completed by someone other than an authorized service dealer.
- d. MTD 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 MTD's authorized channels of export distribution.
- e. Replacement parts that are not genuine MTD parts.
- f. Transportation charges and service calls.
- g. MTD does not warrant this product for commercial use.

No implied warranty, including any implied warranty of merchantability or 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 MTD. 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. MTD 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 which vary from state to state.

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

**MTD LLC, P.O. BOX 361131 CLEVELAND, OHIO 44136-0019; Phone: 1-800-800-7310, 1-330-220-4683
MTD Canada Limited - KITCHENER, ON N2G 4J1; Phone 1-800-668-1238**