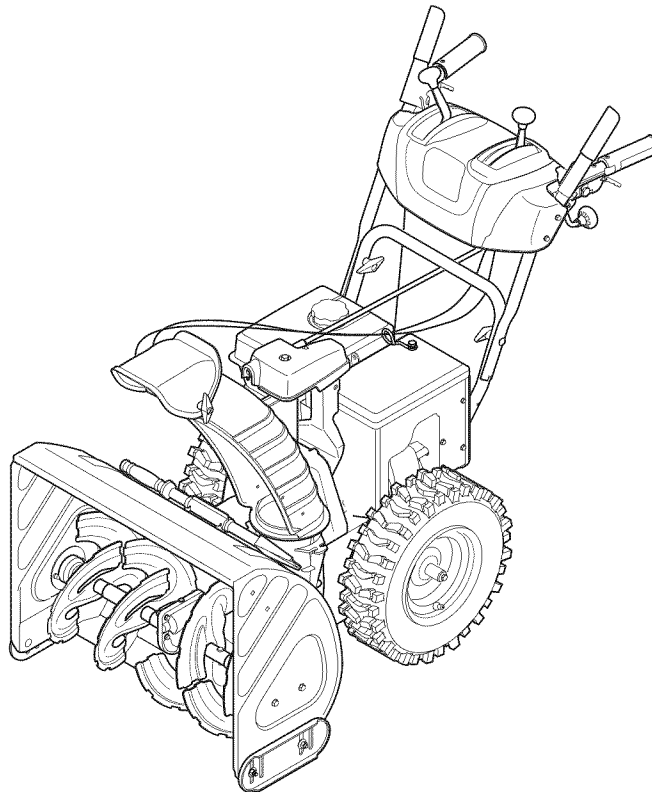




OPERATOR'S MANUAL



Two-Stage Snow Thrower — 500 & 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.**

P. O. Box 1386, 97 KENT AVENUE, KITCHENER, ON N2G 4J1

Thank You

Thank you for purchasing your new equipment. 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.

The manufacturer reserves 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 service dealer or contact us directly. 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.

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 machine, for more information.

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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 unit to the retailer from which it was purchased, without first contacting Customer Support.

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 our web at www.mtdcanada.ca
- ◇ Locate your nearest dealer from Customer Support: 1-800-668-1238
- ◇ Contact MTD CANADA • P.O. Box 1386 • 97 Kent Avenue • Kitchener, Ontario, Canada • N2G 4J1



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.
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 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. 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.

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.

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



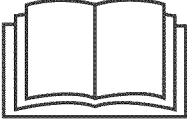







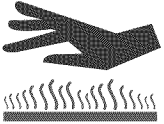
WARNING! This machine is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any).

If a spark arrester is used, it should be maintained in effective working order by the operator.

A spark arrester for the muffler is available through your nearest engine authorized service dealer.

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!

IMPORTANT: The snow thrower is shipped with oil and WITHOUT GASOLINE. After assembly, refer to separate engine manual for proper fuel and engine oil recommendations.

NOTE: Remove all loose parts and any packing material before assembling.

NOTE: References to right or left side of the snow thrower are determined from behind the unit in the operating position.

NOTE: This Operator's Manual covers several models, handle panels, lights and chute cranks are some features that may vary by model. Not all features referenced (or engines pictured) in this manual are applicable to all snow thrower models.

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

NOTE: For models with electric start 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.

Handle Assembly

- Place the shift lever in the Forward-6 position.
- Observe the lower rear area of the snow thrower to be sure both cables are aligned with roller guides. See Fig. 3-1. Pull up on the upper handle, align the upper handle with the lower handle. See Fig. 3-2.
- Secure the handle by tightening the plastic wing 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.

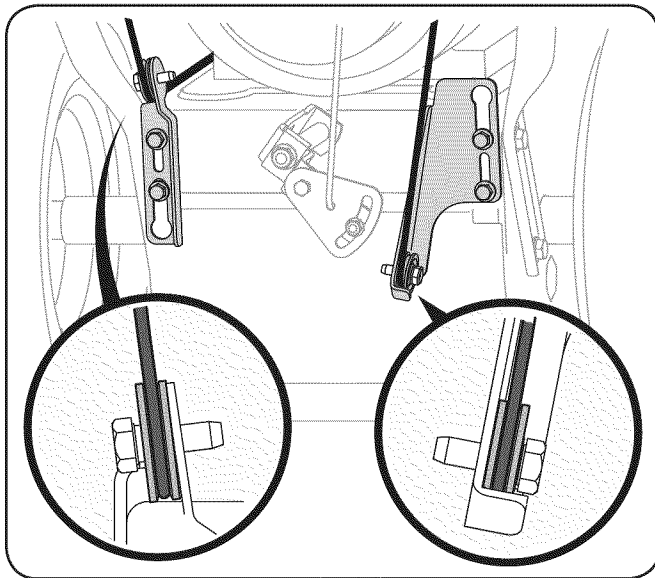


Fig. 3-1

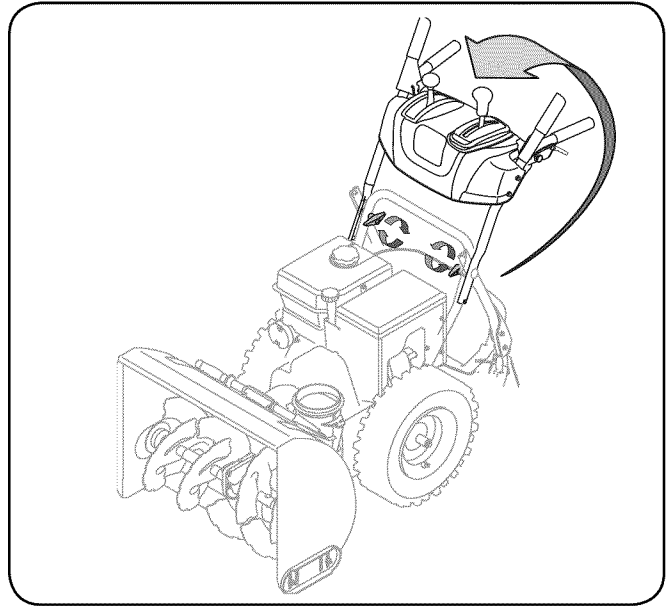


Fig. 3-2

Chute Assembly

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

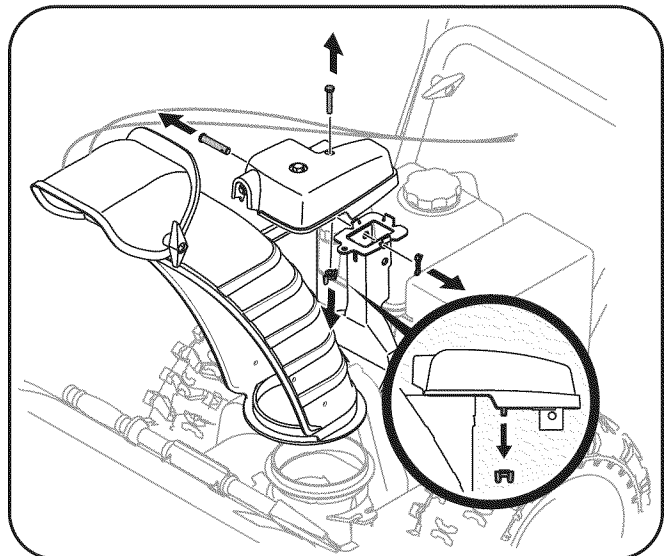


Fig. 3-3

- 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. 3-4.

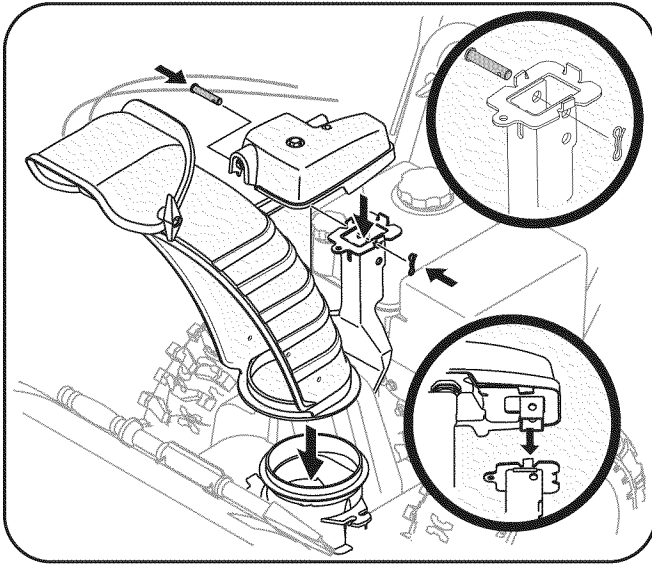


Fig. 3-4

- Finish securing chute control assembly to chute support bracket with wing nut and hex screw removed earlier. See Fig. 3-5.

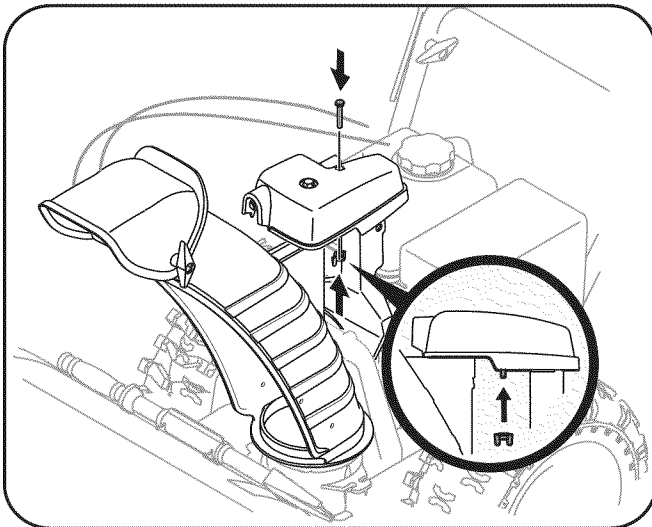


Fig. 3-5

- Guide the chute crank rod through the bracket located on the rear of the handle panel. See Fig. 3-6.
 - Remove the cotter pin and insert the chute crank rod into the connector on the chute control assembly. See Fig. 3-7.
 - Align the hole in the chute crank rod with the hole in the connector, secure with cotter pin previously removed.
- Check that all cables (if equipped) are properly routed through the cable guide on the right side of the chute crank rod. See Fig. 3-8.

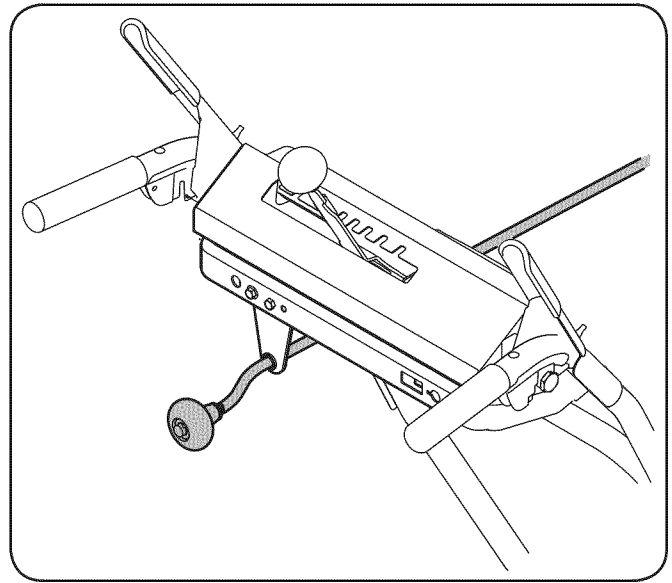


Fig. 3-6

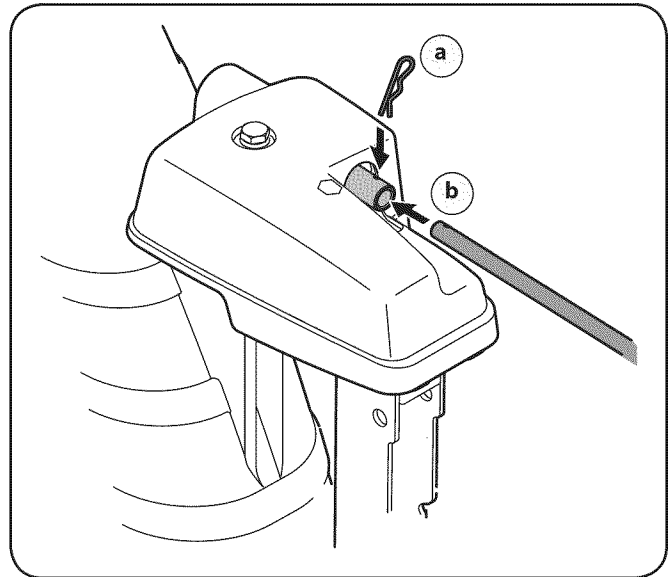


Fig. 3-7

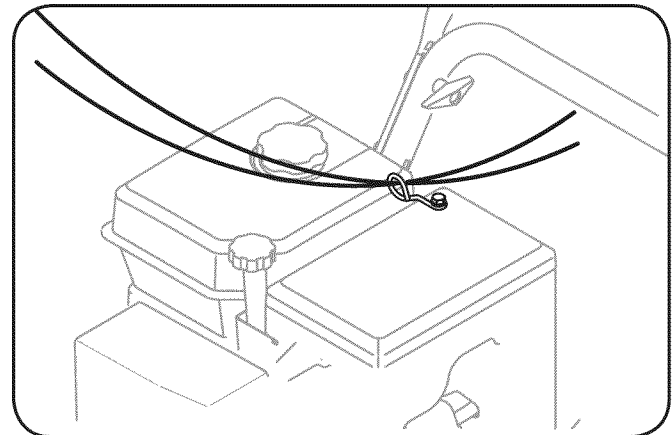


Fig. 3-8

Drift Cutters (If Equipped)

Drift cutters should be used when operating the snow thrower in heavy drift conditions.

- On models so equipped, drift cutters and hardware are assembled to the auger housing inverted.
- Remove the carriage bolts and wingnuts securing the drift cutters to the housing.
- Reposition drift cutters so they face forward as shown in Fig. 3-9. Secure with hardware previously removed, wingnuts should be fastened on the **outside** of the housing as shown.

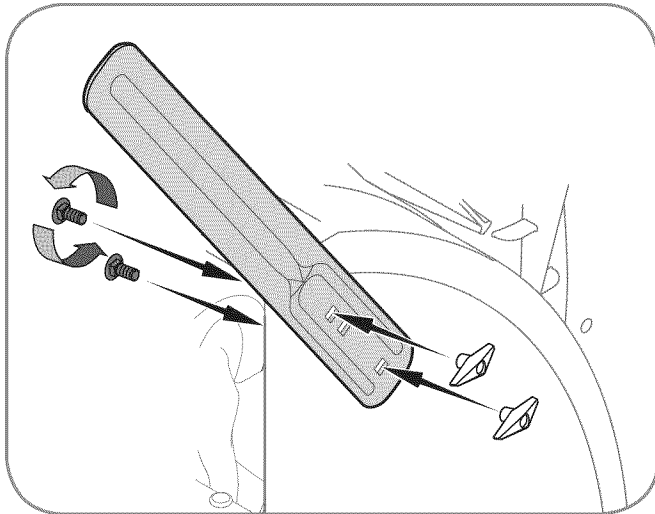


Fig. 3-9

Clean-Out Tool

The clean-out tool is mounted to the rear of the auger housing and is designed to clear a clogged chute. Refer to page 13 for instructions on how to properly use it.

NOTE: This item is fastened with a cable tie to the rear of the auger housing at the factory. Cut the cable tie before operating the snow thrower. See Fig. 3-10.

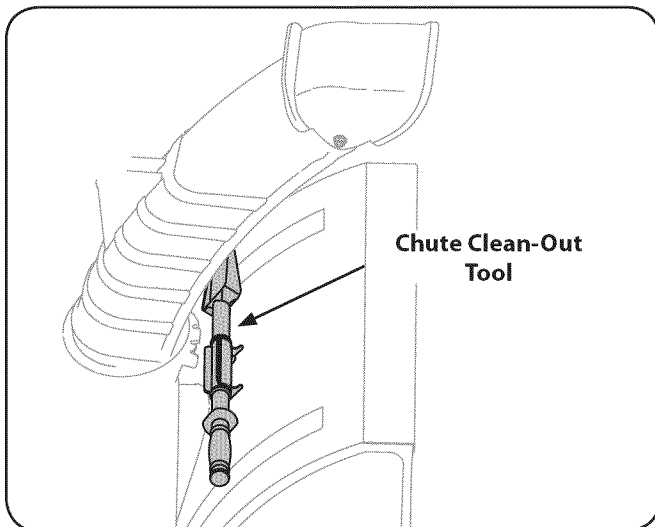


Fig. 3-10



WARNING: Never use your hands to clean snow and ice from the chute assembly or auger housing.

Lamp Wiring Harness (If equipped)

The post on the cable tie attaching the lamp wiring harness to the lower handle should be plugged into the hole in the lower handle. Pull the slack portion of the wiring harness through the cable tie to prevent interference with the recoil starter handle. See Fig. 3-11.

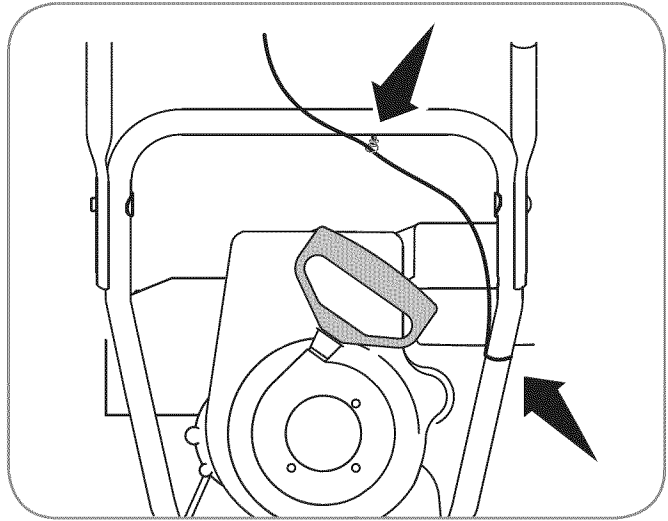


Fig. 3-11

Shear Pin Storage (optional)

On some models an area for convenient shear pin storage is located at the rear of the plastic dash panel.

Tire 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.



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.

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

Adjustment

Chute Assembly (optional)

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

1. Stop the engine as instructed in the separate engine manual and wait until all moving parts have come to a complete stop.
2. Loosen the plastic wing knob found on the left side of the chute assembly.
3. Pivot the chute upward or downward before retightening the wing knob. See Fig. 3-12.

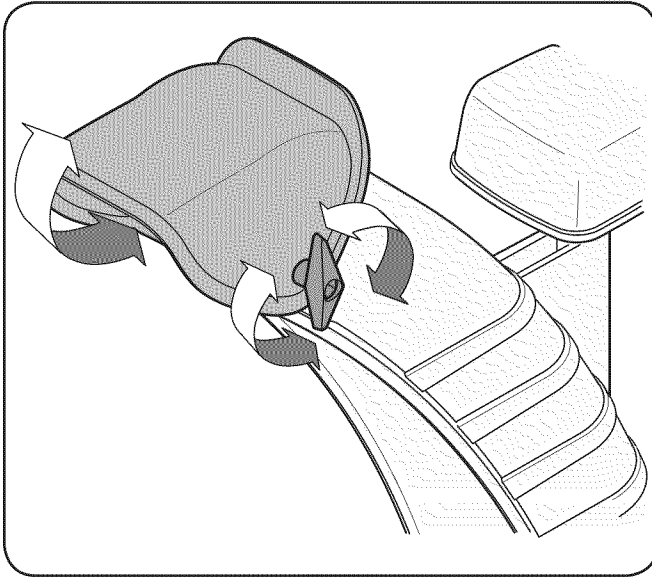


Fig. 3-12

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. 3-13.
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.

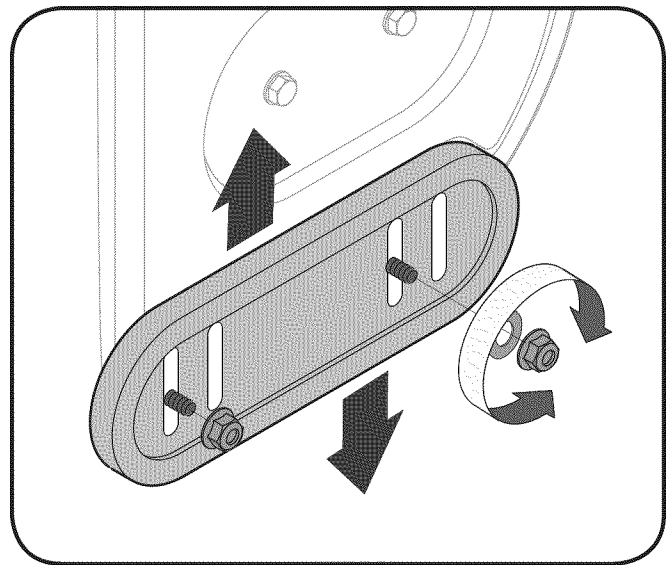


Fig. 3-13

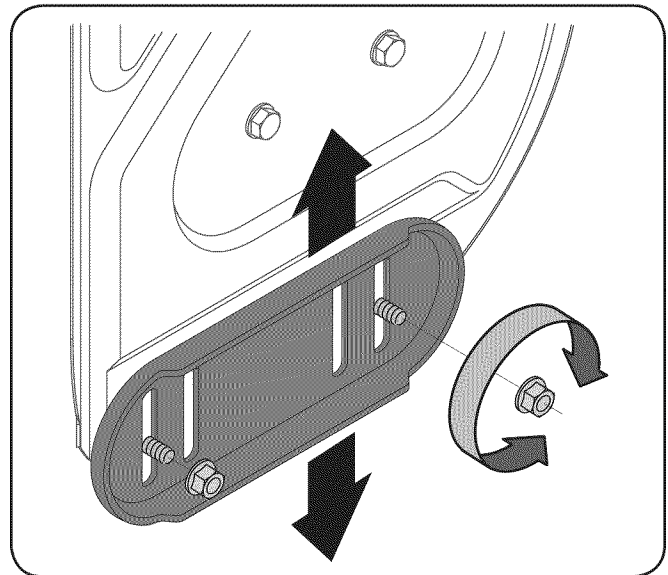


Fig. 3-14

NOTE: Some models are equipped with reversible skid shoes and may be turned over to increase their lifespan.

Auger Control Test



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

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

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 as instructed in the separate engine 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 re-adjusting 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. 3-15.
9. Retighten the upper hex screw.
10. Repeat Auger Control Test to verify proper adjustment has been achieved.

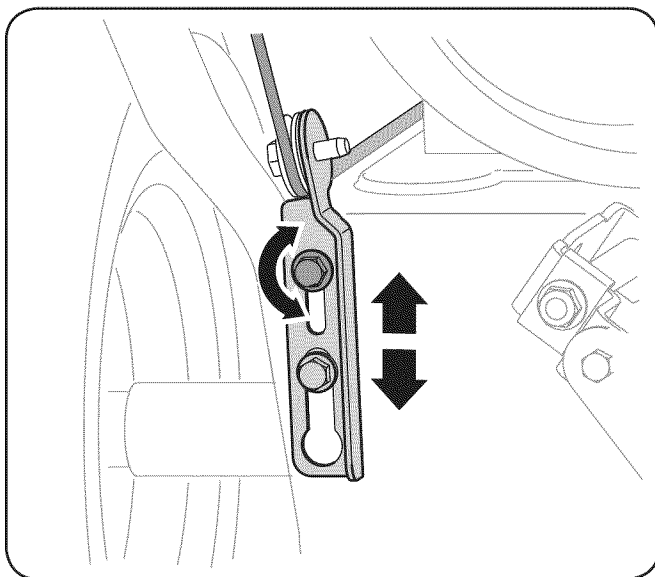


Fig. 3-15

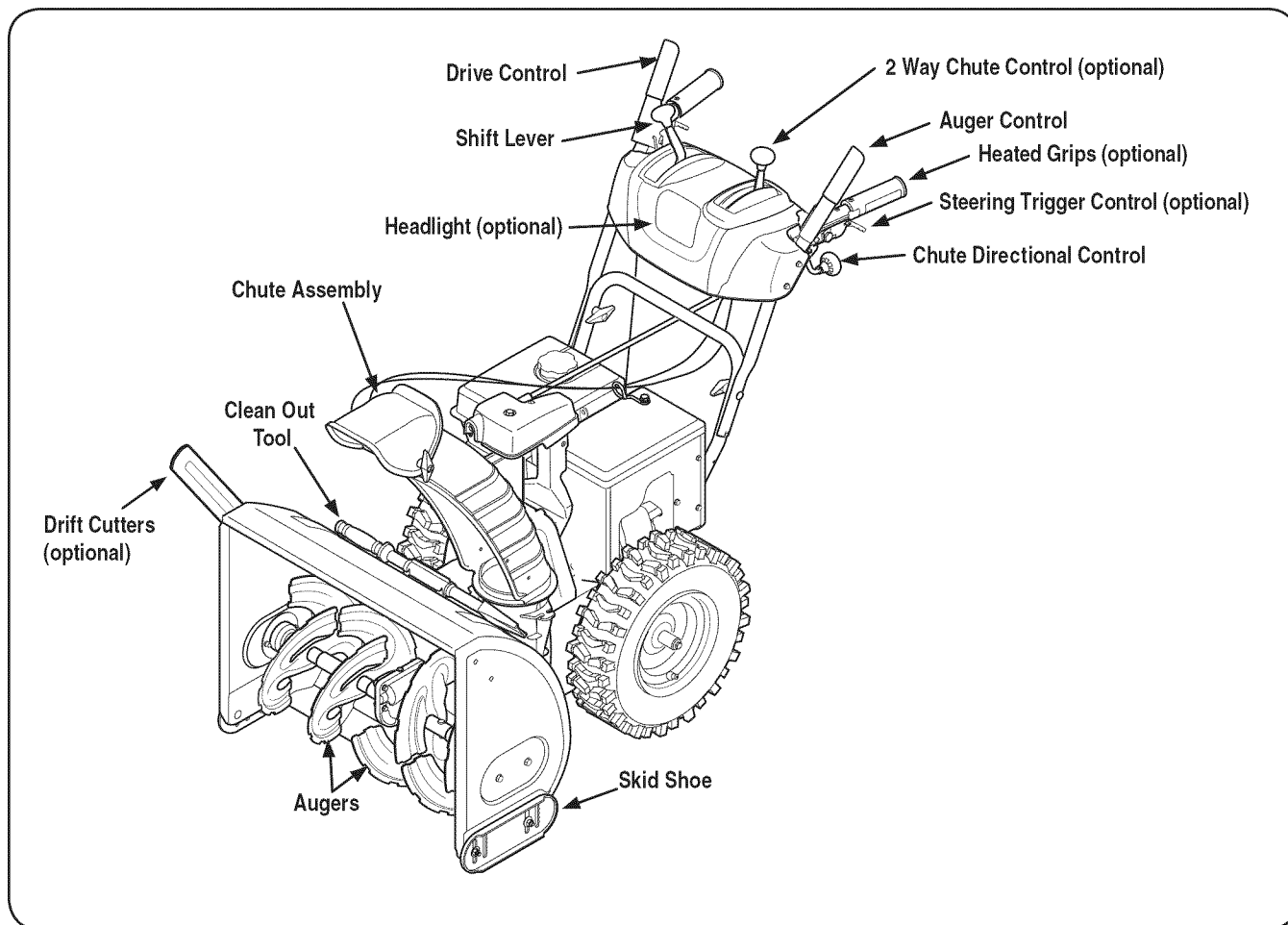


Fig. 4-1

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.

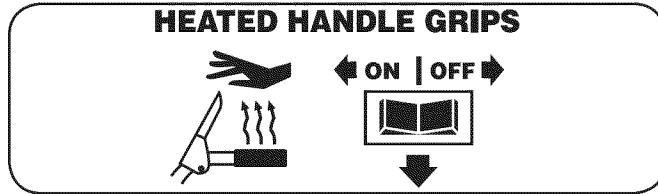
Headlight (if so equipped)

The headlight is on whenever the engine is running.

Drift Cutters (if so equipped)

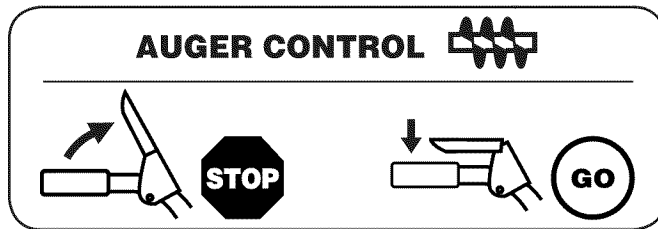
The drift cutters are designed for use in deep snow. Their use is optional for normal snow conditions. Maneuver the snow thrower so that the cutters penetrate a high standing snow drift to assist snow falling into the augers for throwing.

Heated Grips (if so equipped)



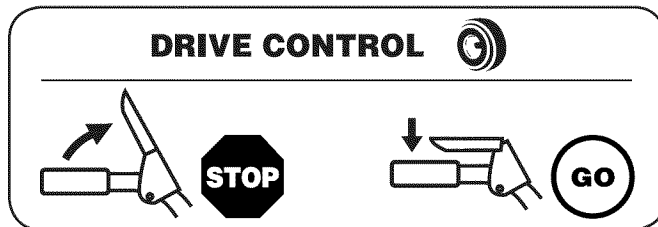
This switch is located on the rear of the snow thrower dash panel. To activate the heated handles, toggle the switch to the "ON" position to generate heat within the handle grips. Toggle the switch to the "OFF" position after using the snow thrower.

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

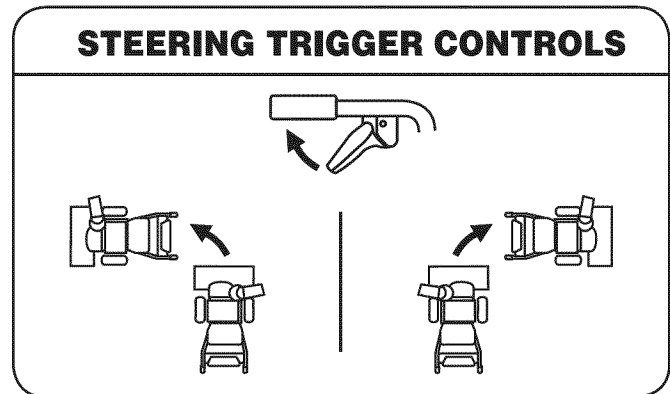


The drive control is located on the right handle. Squeeze the control grip against the handle to engage the wheel drive. Release to stop.

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 as instructed in the separate engine manual.
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.

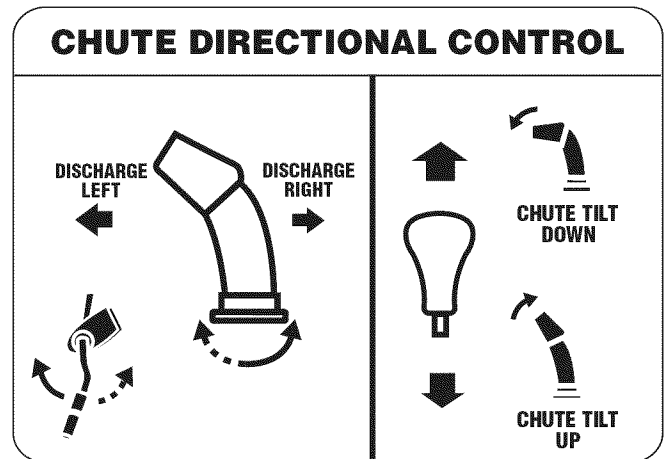
While standing in the operator's position (behind the snow thrower), engage the auger control for a few seconds to clear any remaining snow and ice from the chute assembly.

Two-Way Chute Control™ (optional)

This two-way control lever is meant to control the distance of snow discharge from the chute. Tilt the lever forward or rearward to adjust the distance snow will be thrown.

Chute Directional Control (optional)

The chute directional control can be turned clockwise or counterclockwise to change the direction in which snow is thrown.



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

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: The following instructions are for models equipped with the optional interlock mechanism only.

NOTE: This drive 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.

Replacing Shear Pins

The augers are secured to the spiral shaft with two 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. 5-1.



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.

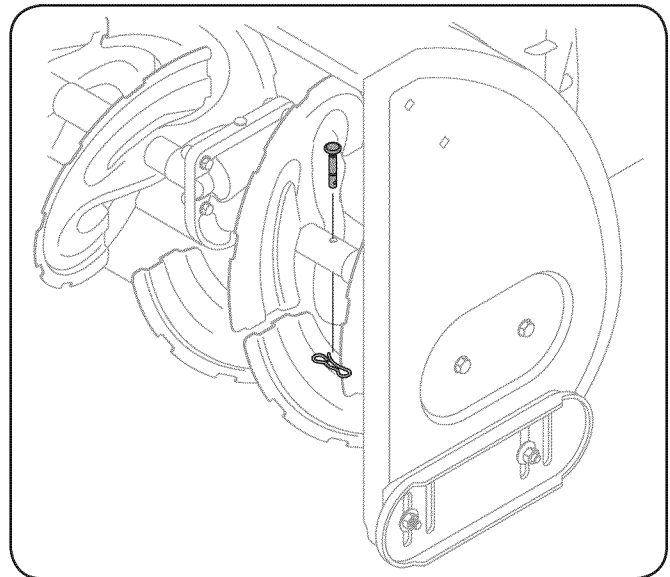


Fig. 5-1

Maintenance

Engine

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

Tire Pressure

Refer to "Assembly & Set-Up" section of this manual.

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: Some units are equipped with reversible skid shoes and may be turned over to increase their lifespan.

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.

To remove shave plate:

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

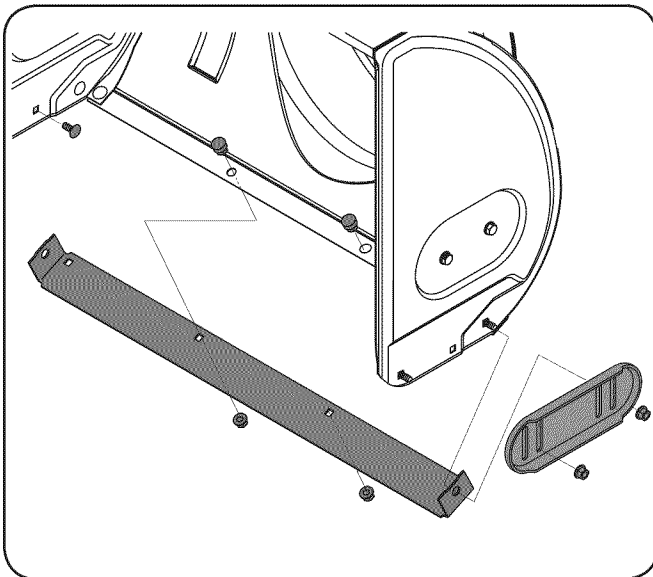


Fig. 6-1

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.

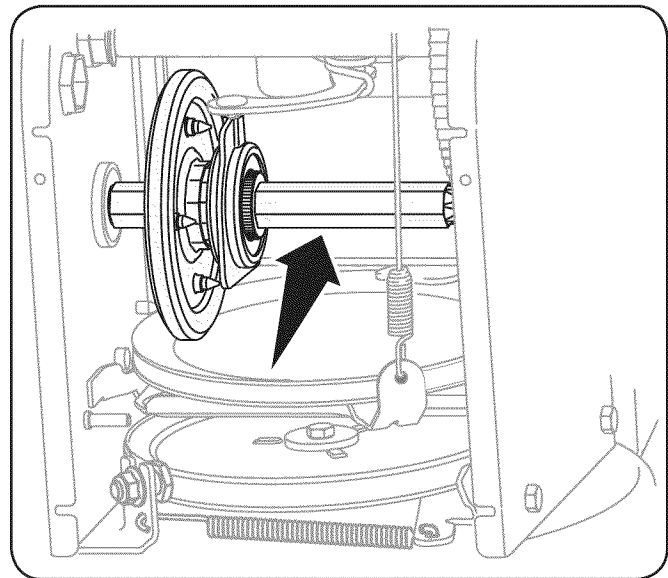


Fig. 6-2

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.

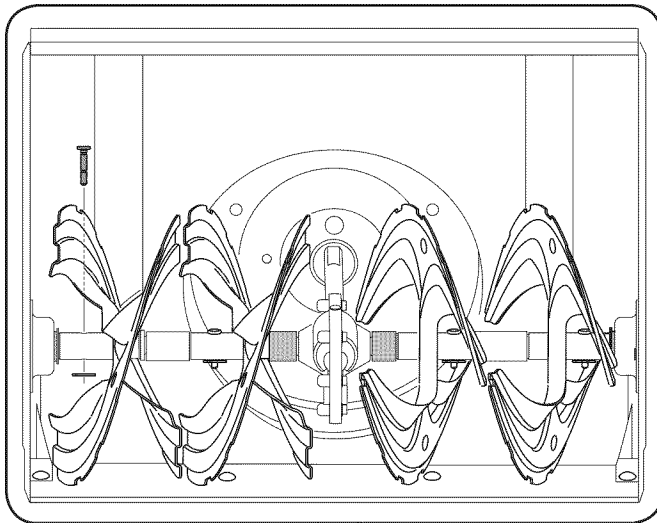


Fig. 6-3

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

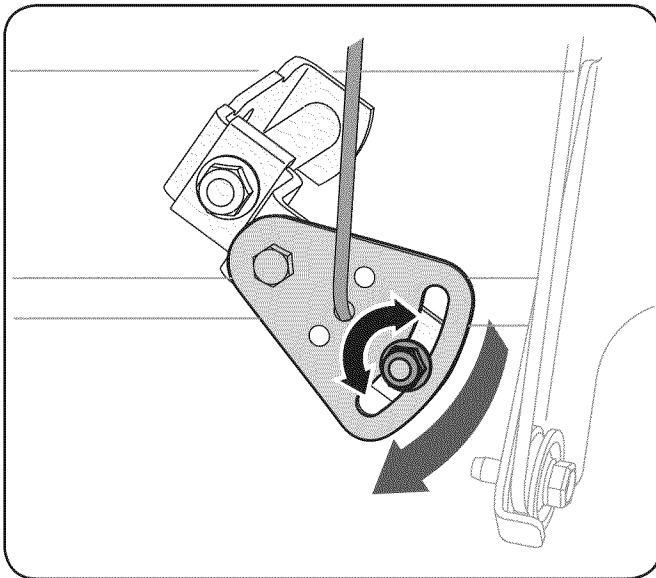


Fig. 6-4

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.

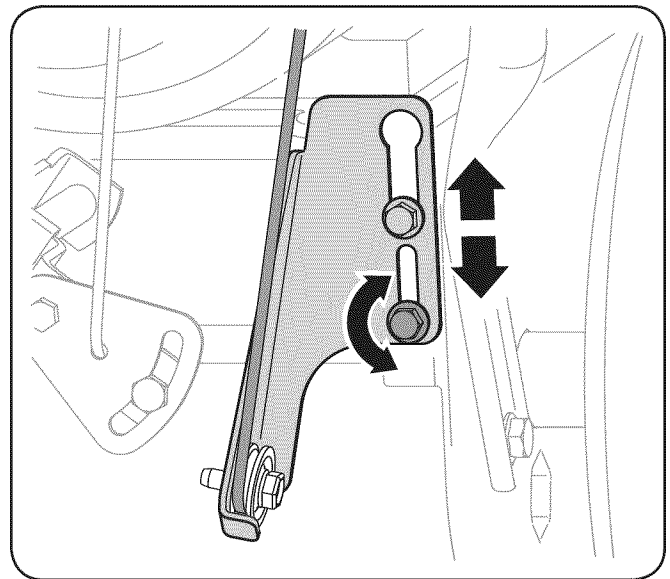


Fig. 6-5

2. Position the bracket upward to provide more slack (or downward to increase cable tension).
3. Retighten the upper hex screw.
4. Repeat Drive Control Test to verify proper adjustment has been achieved.

Chute Rod Adjustment

If the chute fails to remain stationary during operation, increase the preload on the chute control rod.

- While preventing the chute control rod from turning, tighten the nut on the chute gearbox assembly. 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.

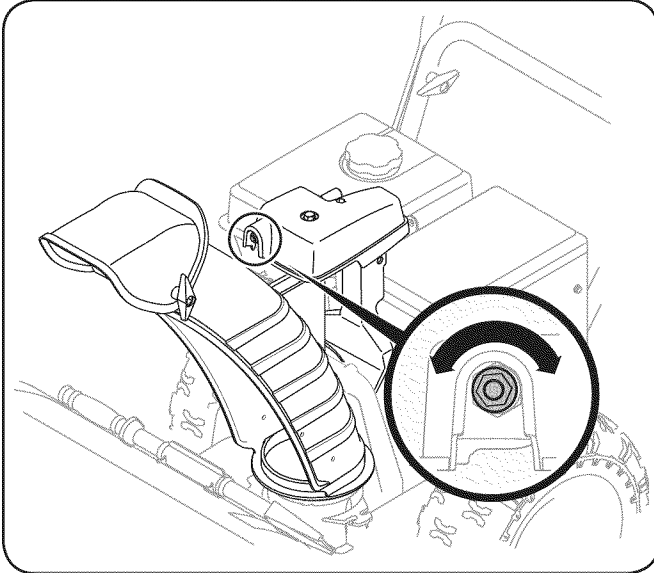


Fig. 6-7

Off-Season Storage

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

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

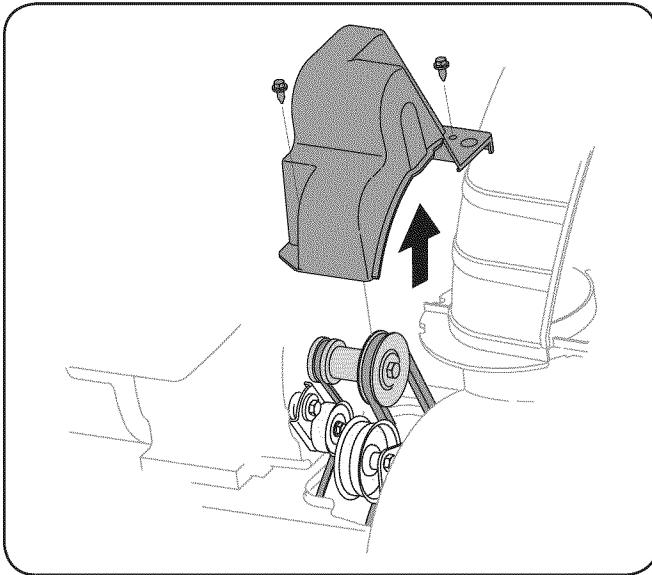


Fig. 7-1

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

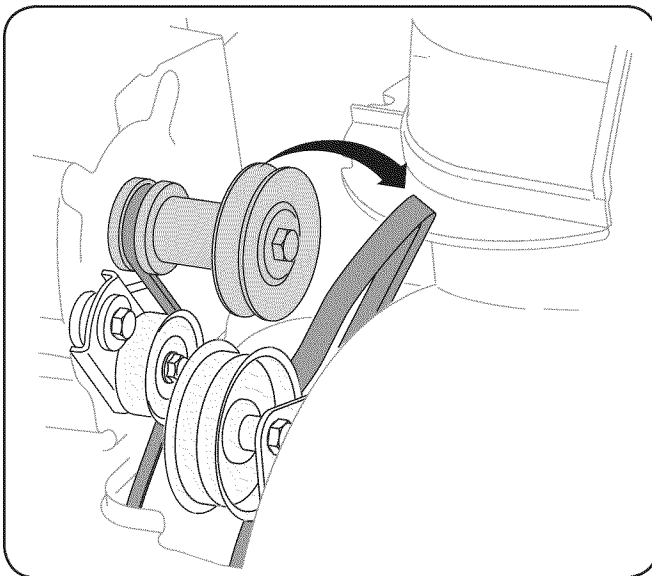


Fig. 7-2

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.

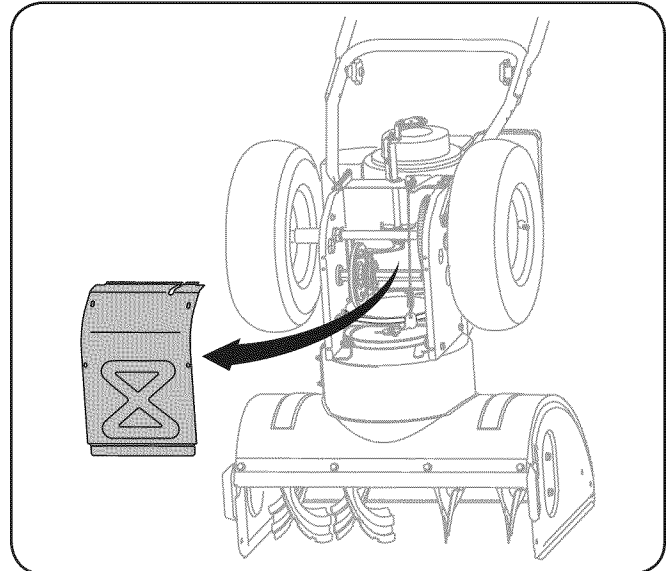


Fig. 7-3

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.

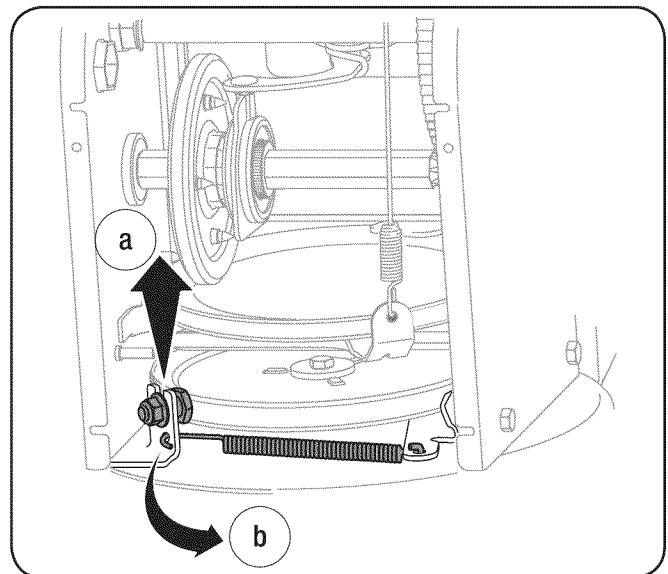


Fig. 7-4

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

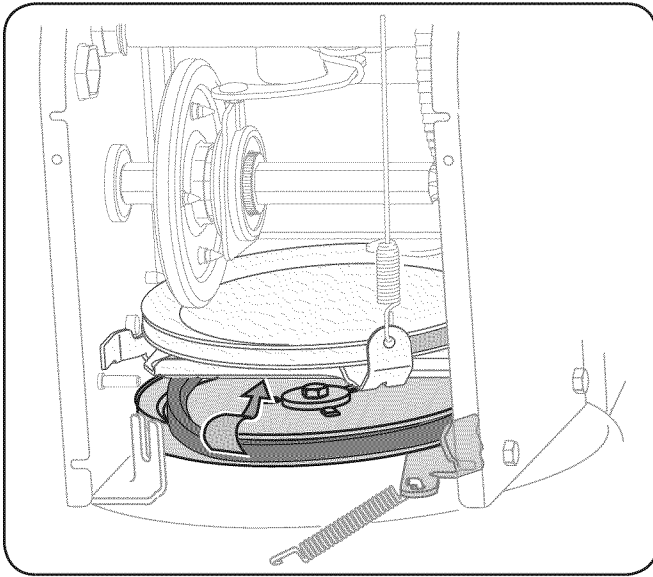


Fig. 7-5

- 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 11 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:

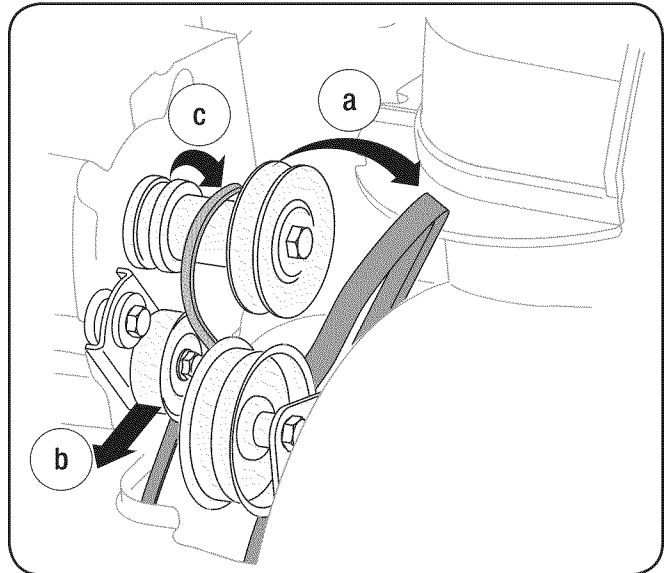


Fig. 7-6

- 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.

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

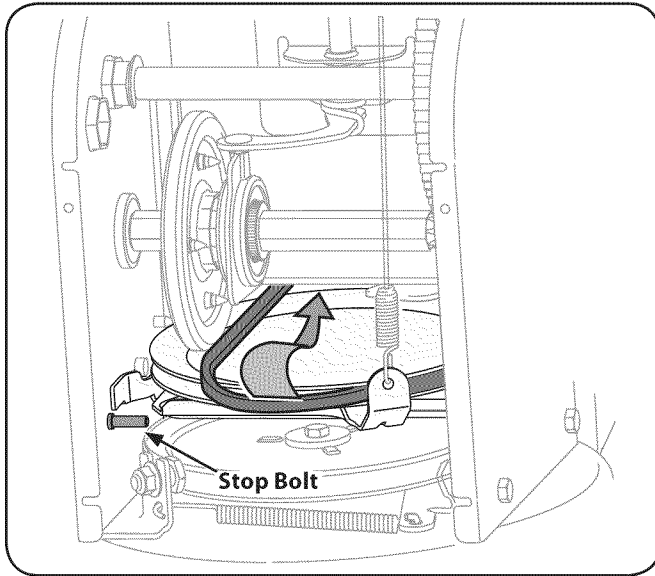


Fig. 7-7

7. Slip the drive belt off the pulley and between friction wheel and friction wheel disc. See Fig. 7-7.
8. 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:

1. Allow the engine to run until it is out of fuel. Do not attempt to pour fuel from the engine.
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. See Fig. 7-8.
4. 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:

1. Allow the engine to run until it is out of fuel. Do not attempt to pour fuel from the engine.
2. Place the shift lever in third Forward (F3) position.
3. Carefully pivot the snow thrower up and forward so that it rests on the auger housing.
4. 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.

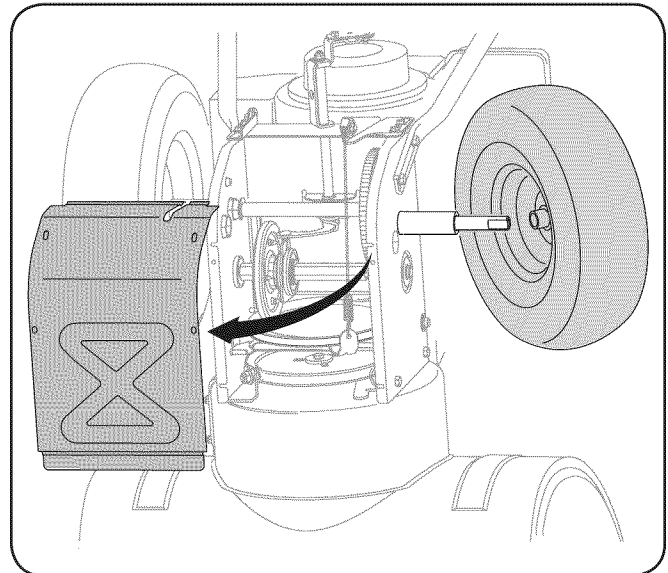


Fig. 7-8

- 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.

- 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.

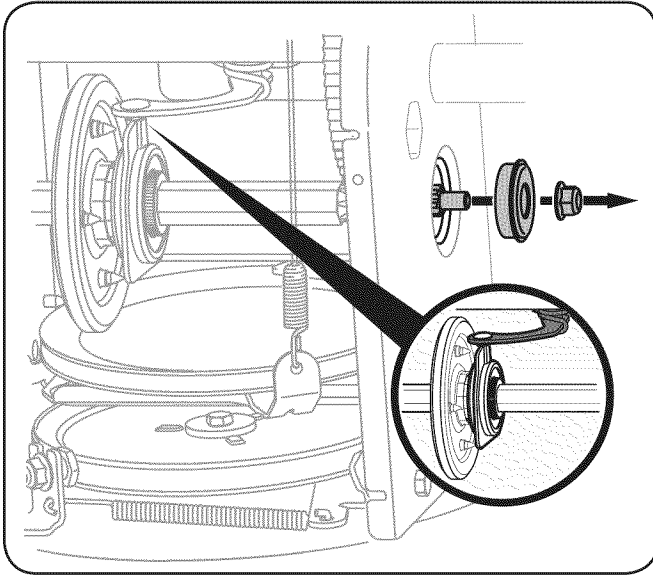


Fig. 7-9

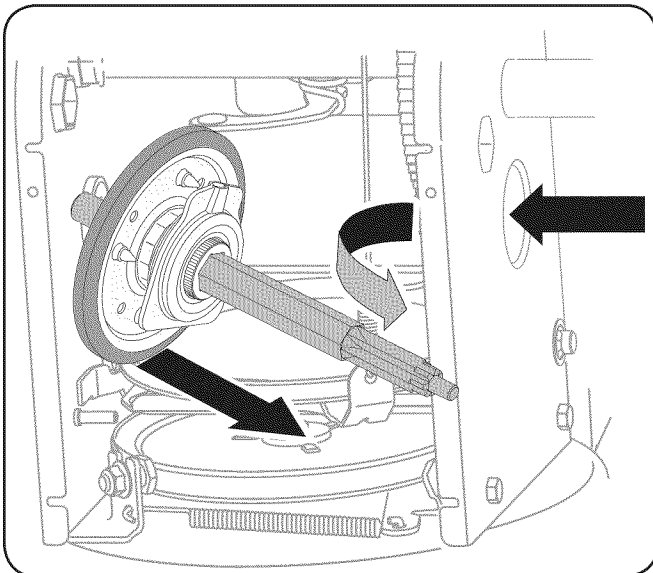


Fig. 7-10

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.

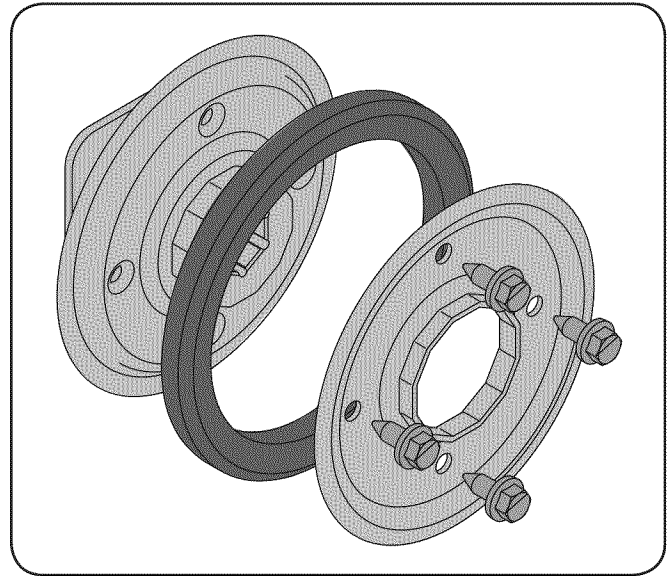


Fig. 7-11

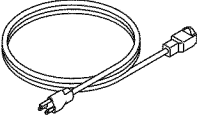
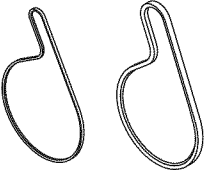
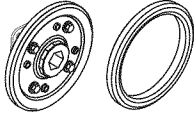

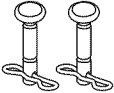
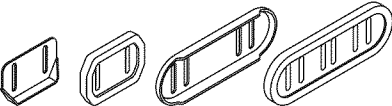
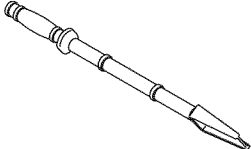
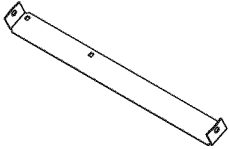
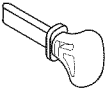
- Remove the rubber ring from between the plates.
- Reassemble the side plates with a new rubber ring.

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 17 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 tension applied to chute control. 	<ol style="list-style-type: none"> 2. 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") 954-04260 Wheel Drive Belt (24") 954-04195 Auger Drive Belt (26", 28" & 30") 954-04201A Wheel Drive Belt (26", 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
	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

NOTE: Download a complete Parts Manual, refer to customer support on page 2. Be sure to have your model number and serial number ready. Refer to page 2 for more information regarding locating your model and serial numbers.

TWO YEAR LIMITED WARRANTY

The limited warranty set forth below is given 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 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, grass bags, rider deck wheels, seats, snow thrower skid shoes, friction wheels, shave plates, auger spiral rubber, tires, engine oil, air filters and spark plugs.

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 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. The Powermore engine is not excluded under this agreement.
- 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. MTD does not extend any warranty for products sold or exported outside of Canada, including possessions and territories.
- f. Replacement parts that are not genuine MTD parts.
- g. Transportation charges and service calls.
- h. If Products are used commercially. (MTD may separately offer Limited Commercial Warranties on certain select products. Ask your dealer or retailer for details or contact MTD Service for more information.)

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 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 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.

MTD Products Ltd., P. O. BOX 1386, KITCHENER, ON N2G 4J1; Phone: 1-800-668-1238

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FEDERAL and/or CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT
YOUR WARRANTY RIGHTS AND OBLIGATIONS

MTD Consumer Group Inc, the United States Environmental Protection Agency (EPA), and, for those products certified for sale in the state of California, the California Air Resources Board (CARB) are pleased to explain the emission (evaporative and/or exhaust) control system (ECS) warranty on your outdoor 2006 and later small off-road spark-ignited engine and equipment (outdoor equipment engine) In California, new outdoor equipment engines must be designed, built and equipped to meet the State's stringent anti-smog standards (in other states, 1997 and later model year equipment must be designed, built, and equipped to meet the U.S. EPA small off-road, spark ignition engine regulations. MTD Consumer Group Inc must warrant the ECS on your outdoor equipment engine for the period of time listed below provided there has been no abuse, neglect or improper maintenance of outdoor equipment engine.

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

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

MANUFACTURER'S WARRANTY COVERAGE:

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

OWNER'S WARRANTY RESPONSIBILITIES:

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

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

You are responsible for presenting your outdoor equipment engine to MTD Consumer Group Inc's distribution center or service center as soon as the problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days. If you have a question regarding your warranty coverage, you should contact the MTD Consumer Group Inc Service Department.

In the U.S.A.: MTD LLC at P.O. Box 361131, Cleveland, Ohio 44136-0019, or call 1-800-800-7310 or 1-330-220-4683 or log on to our Web site at www.mtdproducts.com.

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

GENERAL EMISSIONS WARRANTY COVERAGE:

MTD Consumer Group Inc warrants to the ultimate purchaser and each subsequent purchaser that the outdoor equipment engine is: Designed, built and equipped so as to conform with all applicable regulations; and free from defects in materials and workmanship that cause the failure of a warranted part to be identical in all material respects to that part as described in MTD Consumer Group Inc's application for certification.

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

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

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

WARRANTED PARTS:

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

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

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

NOTE: *If you require warranty service in Canada and your product was sold by MTD Products Limited within Canada to the retailer you purchased it from in Canada then the MTD Consumer Group Inc portion of this warranty will be honored by MTD Products Limited in Canada.*

