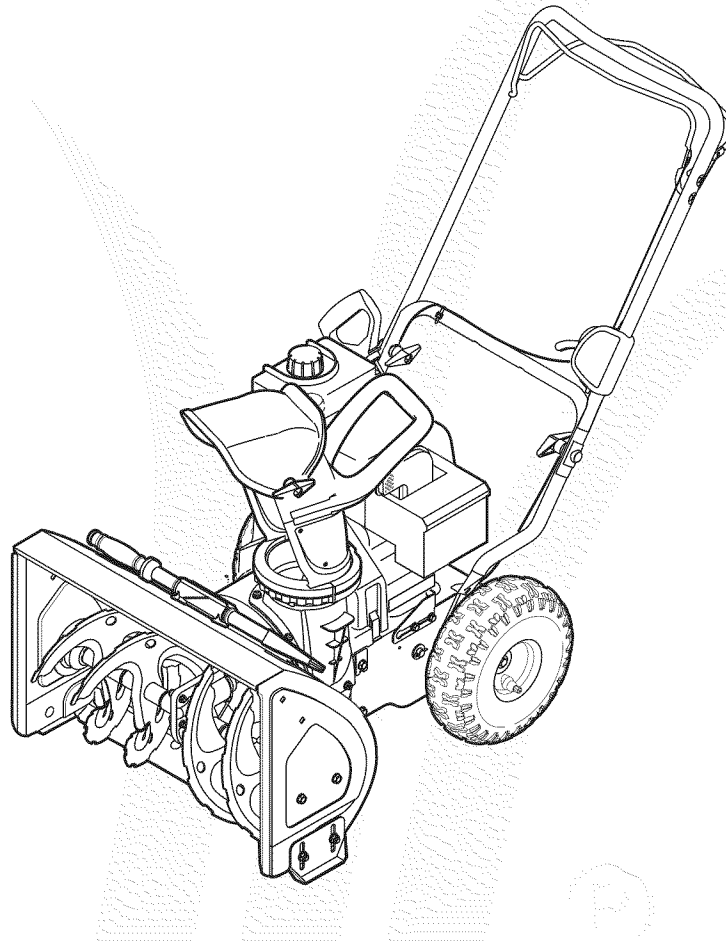


OPERATOR'S MANUAL



24" Two-Stage 3-Speed Snow Thrower – Model 3DD

IMPORTANT

READ SAFETY RULES AND INSTRUCTIONS CAREFULLY BEFORE OPERATION

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

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

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Finding and Recording Model Number

BEFORE YOU START ASSEMBLING YOUR NEW EQUIPMENT,

please locate the model plate on the equipment and copy the information to the sample model plate provided to the right. You can locate the model plate by standing at the operating position and looking down at the rear of the snow thrower. This information will be necessary to use the manufacturer's web site and/or obtain assistance from the Customer Support Department or an authorized service dealer.

Model Number

Serial Number



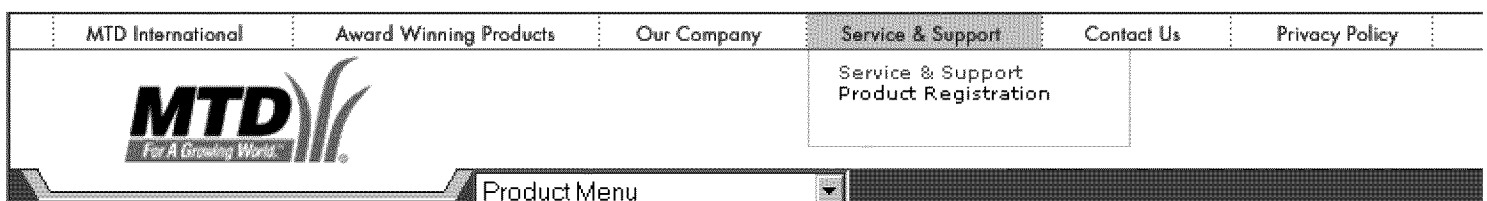
MTD LLC
P.O. BOX 361131
CLEVELAND, OH 44136
330-220-4683
800-800-7310

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 unit, you can seek help from the experts. Choose from the options below:

1. Visit **mtdproducts.com**. Click on the Service & Support menu option.
2. Phone a **Customer Support Representative** at 1 (800) 800-7310.
3. The **engine manufacturer** is responsible for all engine-related issues with regards to performance, power-rating, specifications, warranty and service. Please refer to the engine manufacturer's Owner's/Operator's Manual, packed separately with your unit, for more information.



! DANGER

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

CLEAN-OUT TOOL 

! DANGER

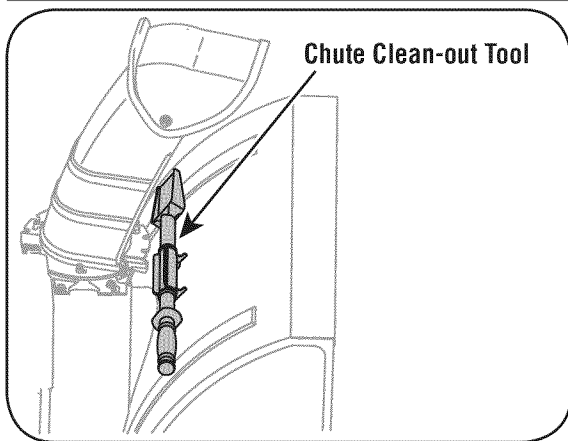


AVOID INJURY FROM ROTATING AUGER - KEEP HANDS, FEET AND CLOTHING AWAY.

! DANGER



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



A chute clean-out tool is fastened to the top of the auger housing with a mounting clip. The tool is designed to clear a chute assembly of ice and snow. This item is fastened with a cable tie at the factory. Cut the cable tie before operating the snow thrower.



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

1

Safety Labels



WARNING

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

HEED ITS WARNING!

Your Responsibility

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

2

Safe Operation Practices



WARNING

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

HEED ITS WARNING!

Your Responsibility

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



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

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

Training

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

Preparation

1. Thoroughly inspect the area where the equipment is to be used. Remove all doormats, newspapers, sleds, boards, wires and other foreign objects, which could be tripped over or thrown by the auger/impeller.
2. Always wear safety glasses or eye shields during operation and while performing an adjustment or repair to protect your eyes. Thrown objects which ricochet can cause serious injury to the eyes.
3. Do not operate without wearing adequate winter outer garments. Do not wear jewelry, long scarves or other loose clothing, which could become entangled in moving parts. Wear footwear which will improve footing on slippery surfaces.
4. Use a grounded three-wire extension cord and receptacle for all units with electric start engines.
5. Adjust collector housing height to clear gravel or crushed rock surfaces.
6. Disengage all control levers before starting the engine.
7. Never attempt to make any adjustments while engine is running, except where specifically recommended in the operator's manual.
8. Let engine and machine adjust to outdoor temperature before starting to clear snow.
9. To avoid personal injury or property damage use extreme care in handling gasoline. Gasoline is extremely flammable and the vapors are explosive. Serious personal injury can occur when gasoline is spilled on yourself or your clothes, which can ignite. Wash your skin and change clothes immediately.
 - a. Use only an approved gasoline container.
 - b. Extinguish all cigarettes, cigars, pipes and other sources of ignition.
 - c. Never fuel machine indoors.
 - d. Never remove gas cap or add fuel while the engine is hot or running.
 - e. Allow engine to cool at least two minutes before refueling.
 - f. Never over fill fuel tank. Fill tank to no more than ½ inch below bottom of filler neck to provide space for fuel expansion.
 - g. Replace gasoline cap and tighten securely.
 - h. If gasoline is spilled, wipe it off the engine and equipment. Move machine to another area. Wait 5 minutes before starting the engine.
 - i. Never store the machine or fuel container inside where there is an open flame, spark or pilot light (e.g. furnace, water heater, space heater, clothes dryer etc.).
 - j. Allow machine to cool at least 5 minutes before storing.

Operation

1. Do not put hands or feet near rotating parts, in the auger/impeller housing or chute assembly. Contact with the rotating parts can amputate hands and feet.
2. The auger/impeller control lever is a safety device. Never bypass its operation. Doing so makes the machine unsafe and may cause personal injury.
3. The control levers must operate easily in both directions and automatically return to the disengaged position when released.
4. Never operate with a missing or damaged chute assembly. Keep all safety devices in place and working.
5. Never run an engine indoors or in a poorly ventilated area. Engine exhaust contains carbon monoxide, an odorless and deadly gas.
6. Do not operate machine while under the influence of alcohol or drugs.
7. Muffler and engine become hot and can cause a burn. Do not touch.
8. Exercise extreme caution when operating on or crossing gravel surfaces. Stay alert for hidden hazards or traffic.
9. Exercise caution when changing direction and while operating on slopes.
10. Plan your snow-throwing pattern to avoid discharge towards windows, walls, cars etc. Thus, avoiding possible property damage or personal injury caused by a ricochet.
11. Never direct discharge at children, bystanders and pets or allow anyone in front of the machine.
12. Do not overload machine capacity by attempting to clear snow at too fast of a rate.
13. Never operate this machine without good visibility or light. Always be sure of your footing and keep a firm hold on the handles. Walk, never run.
14. Disengage power to the auger/impeller when transporting or not in use.
15. Never operate machine at high transport speeds on slippery surfaces. Look down and behind and use care when backing up.
16. If the machine should start to vibrate abnormally, stop the engine, disconnect the spark plug wire and ground it against the engine. Inspect thoroughly for damage. Repair any damage before starting and operating.
17. Disengage all control levers and stop engine before you leave the operating position (behind the handles). Wait until the auger/impeller comes to a complete stop before unclogging the chute assembly, making any adjustments, or inspections.
18. Never put your hand in the discharge or collector openings. Always use the clean-out tool provided to unclog the discharge opening. Do not unclog chute assembly while engine is running. Shut off engine and remain behind handles until all moving parts have stopped before unclogging.
19. Use only attachments and accessories approved by the manufacturer (e.g. wheel weights, tire chains, cabs etc.).
20. If situations occur which are not covered in this manual, use care and good judgment. Contact your dealer or call (800) 800-7310 for assistance and the name of your nearest servicing dealer..

Maintenance & Storage

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

Do not modify engine

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

Notice regarding Emissions

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

Your Responsibility

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

2

Safe Operation Practices



WARNING

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

HEED IT'S WARNING!

Your Responsibility

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

3

Setup And Adjustment



WARNING
Disconnect the spark plug wire and ground it against the engine to prevent unintended starting.

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

CAUTION:
Be careful not to bend or kink the cables.



NOTE:
All references to left or right side of the snow thrower is from the operating position only.

IMPORTANT: This unit is shipped with the engine full of oil. After assembly, see the Engine Owner's manual for fuel and oil details.

Removing From Carton

1. Cut the corners of the carton and lay the sides flat on the ground. Remove all packing inserts.
2. The upper handle is packaged unattached to the snow thrower, though connected by cables. Move the snow thrower and upper handle out of the carton.
3. Make certain the carton has been completely emptied before discarding it.

Before Assembly



WARNING: Disconnect the spark plug wire and Ground it against the engine to prevent unintended starting.

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

Setting Up The Handle

1. Loosen and remove the wing knob, saddle washer, handle tab and carriage screw on each side of the lower handle. See Figure 1.
 2. Lift the upper handle up and position it over the lower handle, aligning the holes where the wing knobs were removed. See Step 1 in Figure 2.
- CAUTION:** Be careful not to bend or kink the cables.
3. Insert a carriage screw from the outside through a handle tab, the upper and lower handles, a saddle washer and into the wing knob. Repeat on other side.
 5. Tighten the wing knobs on each side of the handle. Refer to Step 2 in Figure 2.
 6. Loosen the chute knob on the upper chute(1) and pivot the upper chute upwards(2) as far as it will go. See Figure 3.
 7. Rotate chute handle to desired operating position. See Figure 3.
 8. Tighten the chute wing knob on the upper chute making sure the flat washer and the carriage bolt are correctly positioned.



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

Clean-Out Tool

This tool, and the electric extension cord, may be fastened with a cable tie to the rear of the auger housing for shipping purposes. In that case, cut the cable tie and remove the extension cord now.

Final Adjustments

IMPORTANT: Check the adjustments as instructed and make any final adjustments necessary before operating the unit. Check all nuts and bolts for tightness. Failure to follow these instructions may cause damage to unit.

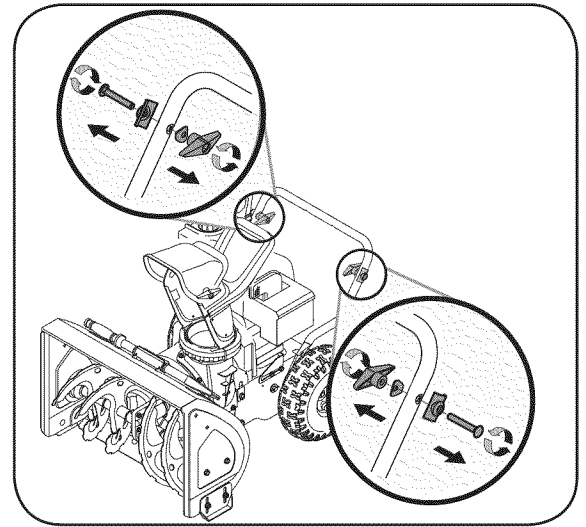


Figure 1

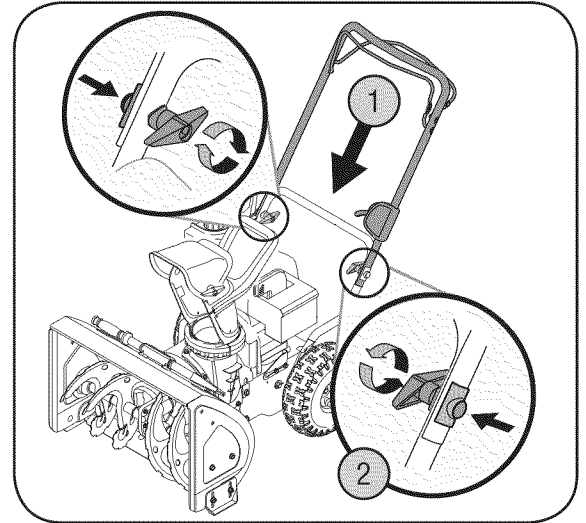


Figure 2

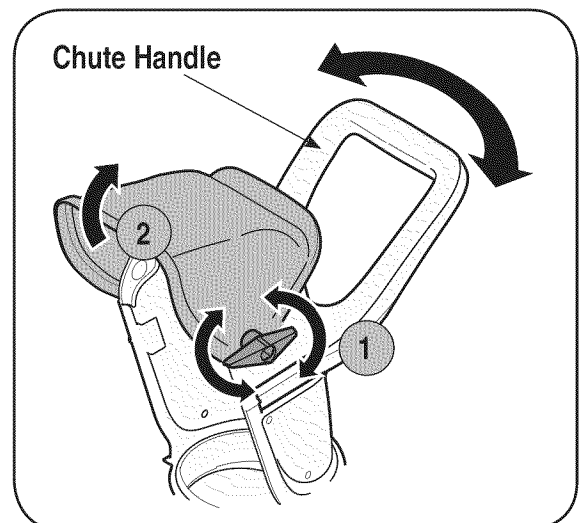


Figure 3

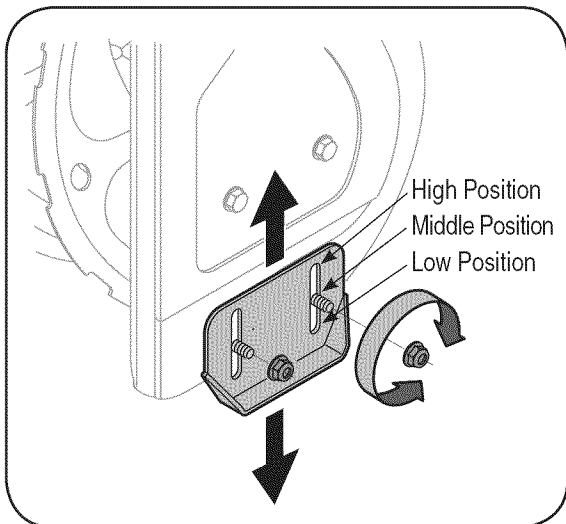


Figure 4

NOTE: Operation of this snow thrower on gravel is not recommended as loose gravel can be easily picked up and thrown by the auger causing personal injury or damage to the snow thrower. If you have to operate it on gravel, keep skid shoe in highest position for maximum clearance.

1. Adjust skid shoes by loosening two hex nuts and carriage bolts on each skid shoe, and move skid shoe to the desired position. See Figure 4.
2. Make certain the entire bottom surface of skid shoe is against the ground to avoid uneven wear on the skid shoes.
3. Tighten nuts and bolts securely.

Routing The Drive Cable

1. The drive cable, and auger cable route down through the speed control box on the left side of the handle. The auger cable, and speed control cable then route down the left lower handle. The drive cable is routed across the top of the lower handle and finally down the right lower handle. See Figure 5.
2. Three cable ties have been used to loosely tie the two control cables to the lower handle. Two of these cable ties are on each arm, and third on the top cross bar of the lower handle. Tighten these cable ties to secure cables to the lower handle. See Figure 5.

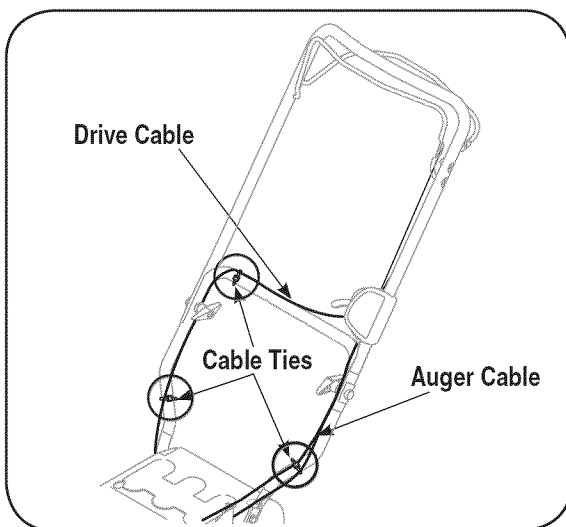


Figure 5

Auger Control Test

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

Check the adjustment of the auger control as follows:

1. When auger control is released and in the disengaged "up" position, cable should have very little slack, but should NOT be tight.
2. In a well-ventilated area, start the snow thrower engine as instructed on page 10 under the heading "To Start Engine." Make sure the throttle is set in the FAST position.
3. While standing in operator's position (behind unit) engage auger.
4. Allow auger to remain engaged for approximately ten (10) seconds before releasing the auger control. Repeat this several times.
5. With the engine running in the FAST position and the auger control in the disengaged "up" position, walk to the front of the machine.
6. Confirm that the auger has completely stopped rotating and shows NO signs of motion.



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

IMPORTANT: If the auger shows ANY signs of rotating, immediately return to the operator's position and shut off the engine. Wait for all moving parts to stop before readjusting the auger control cable as shown on page 14.

Tire Pressure (Pneumatic Tires)

The tires are over-inflated for shipping purposes. Check tire pressure and reduce pressure, if needed. See tire sidewall for proper PSI fill information. Maintain equal pressure on both wheels of snow thrower.



WARNING: See the tire sidewall for proper PSI fill information. 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.

Skid Shoe

The space between the shave plate and the ground can be adjusted. Refer to Figure 6 for location of shave plate and skid shoes. For close snow removal, place skid shoes in the low position. When the area to be cleared is uneven, place skid shoes in the middle or high position. See Figure 4.

3

Setup And Adjustment



WARNING

See the tire sidewall for proper PSI fill information. 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.

Do not over-tighten the auger cable. Over-tightening may prevent the auger from disengaging and compromise the safety of the snow thrower. See Page 14 for instructions on how to adjust the auger cable.

4

Know Your Snow Thrower



WARNING

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



IMPORTANT:

Refer to Auger Control Test on page 7 prior to operating your snow thrower. Read and follow all instructions carefully and perform all adjustments to verify your snow thrower is operating safely and properly.

To shift gears, the unit must be running and the drive control must be released.

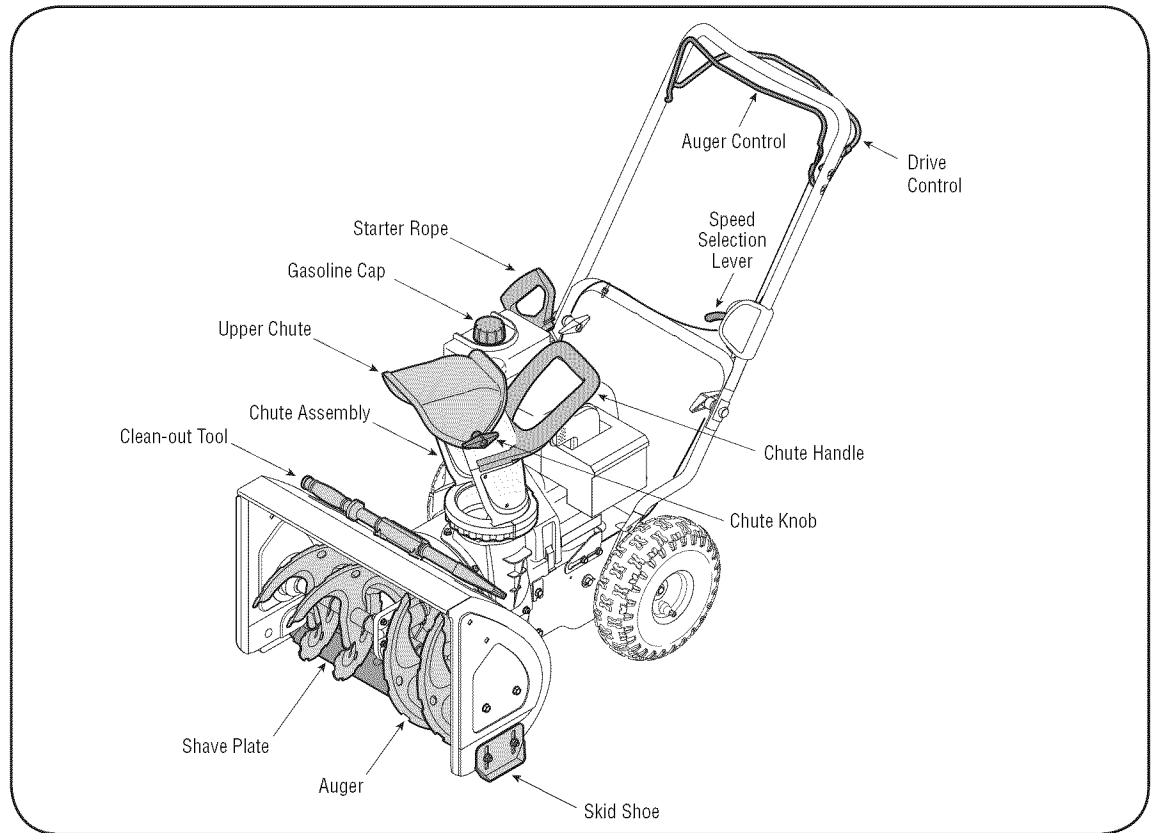


Figure 6

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

NOTE: Compare Figures 6 & 7 with your equipment and follow description of controls, given below, to get familiar with their operation.

Drive Control

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

Auger Control

The auger control is adjacent to the upper handle. Squeeze the auger control against the upper handle to engage the augers; release to disengage the augers.

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

IMPORTANT: Refer to Auger Control Test on page 7 prior to operating your snow thrower. Read and follow all instructions carefully and perform all adjustments to verify your snow thrower is operating safely and properly.

Chute Handle

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

Chute Knob

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

Speed Selection Lever

Your snow thrower is equipped with a 3-speed power propelled drive system. The speed is controlled by this speed selection lever, located on the left side of the upper handle. Three speeds are provided. With the lever all the way down, towards the engine, speed 1 is your slowest speed.

IMPORTANT: To shift gears, the unit must be running and the drive control must be released.

Shave Plate

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

Skid Shoe

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

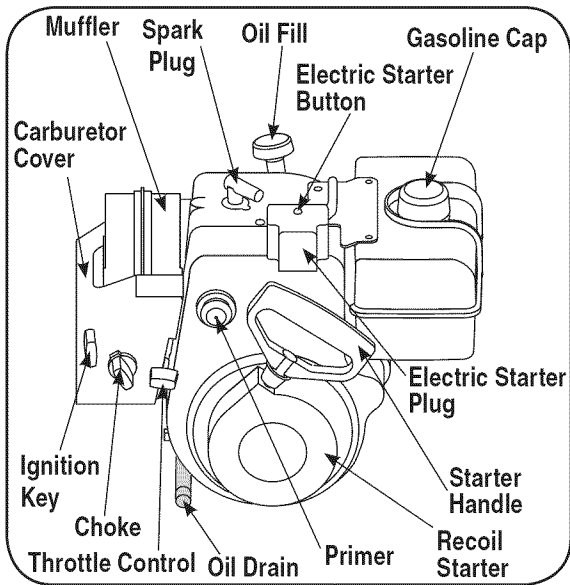


Figure 7

Clean Out Tool

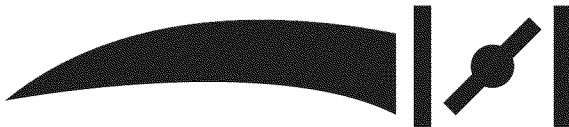
The clean out tool is provided to unclog the discharge opening. Do not unclog discharge chute while engine is running.



WARNING: Before unlogging, shut off engine and remain behind handles until all moving parts have stopped completely. Never put your hand in the discharge or collector openings. Always use the clean-out tool provided.

Choke Control

Activating choke control closes the choke plate on carburetor and aids in starting engine. The image below represents the speeds of the throttle control. For information on choke usage, see page 10 of this manual.



Recoil Starter & Starter Handle

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

Electric Starter Button

Pressing the electric starter button engages the engine's electric starter when plugged into a 120V power source

Electric Starter Plug

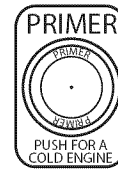
Requires use of a two-prong outdoor extension cord (packed with the snow thrower) and a 120V power source/wall outlet.

Ignition Key

The ignition key is necessary for the engine to start. Insert key and snap in place; do not turn it to start/stop the unit. Remove key when the unit is not in use.

Primer

Depressing primer forces fuel directly into engine's carburetor to aid in cold-weather starting. Refer to the starting instructions in the Operation section of this manual for proper primer usage.



Oil Fill

Remove oil cap to add oil. Refer to the Engine Owner's manual for checking and adding oil instructions.

Gasoline Cap

Remove gas cap to add fuel. Unit runs on regular gas.

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

Throttle Control

The throttle control is located on the engine. It regulates the speed of the engine and also stops the engine. The image to the right represents the speeds of the throttle control.



4

Know Your Snow Thrower



WARNING

Before unlogging, shut off engine and remain behind handles until all moving parts have stopped completely. Never put your hand in the discharge or collector openings. Always use the clean-out tool provided.

5

Operation



WARNING

Gasoline is flammable and caution must be used when handling or storing it. Do not fill fuel tank while the snow thrower is running, when it is hot or when it is in an enclosed area.

Keep your snow thrower away from any open flame or an electrical spark and do not smoke during fueling.

Be sure no one other than the operator is standing near the snow thrower while starting or operating. Do not operate this snow thrower unless the chute assembly has been properly installed and is secured.

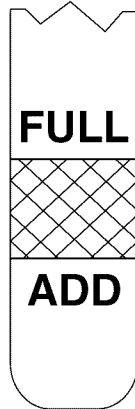
The electric starter must be properly grounded at all times to avoid the possibility of electric shock to the operator. If your house wiring system is not a three-wire grounded system, do not use this electric starter under any conditions.

Before Starting Engine

Engine Oil

The engine is shipped with oil in it. Check the oil level before first use.

1. Stop engine and wait several minutes before checking oil level. Remove oil fill cap and dipstick.
2. Wipe dipstick clean, insert it into oil fill hole and tighten securely.
3. With engine on level ground, oil must be to FULL mark on dipstick. If oil level is low, add oil.



Maintain Oil Level Between FULL and ADD

Adding Engine Oil

Be sure to use the grade of engine oil specified in engine manual. To add oil:

1. Remove the dipstick from the oil fill. Pour fresh oil slowly through the plug. Replace dipstick.
2. Check and make sure that the level of oil is up to the FULL mark on the dipstick.

IMPORTANT: For complete detailed engine information, see the separate engine owner's manual included with this unit.

Gasoline



WARNING: Gasoline is flammable and caution must be used when handling or storing it. Do not fill fuel tank while the snow thrower is running, when it is hot or when it is in an enclosed area.



WARNING: Keep your snow thrower away from any open flame or an electrical spark and do not smoke during fueling.

1. Never fill the fuel tank completely. Fill the tank to no more than 1/2 inch below bottom of filler neck to provide space for expansion of fuel.

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

2. Always use clean, fresh, unleaded grade automotive gasoline. Fill the fuel tank outdoors and use a funnel or spout to prevent spilling. Make sure that the container from which you pour the gasoline is clean and free from rust or other foreign particles. Make

sure to wipe off any spilled fuel before starting the engine.

3. At the end of the job, empty the fuel tank if the snow thrower is not going to be used for 30 days or longer. Store gasoline in a clean container and keep the cap in place on the container.

CAUTION: Never use engine or carburetor cleaner products in the fuel tank.

To Start Engine



WARNING: Be sure no one other than the operator is standing near the snow thrower while starting or operating. Do not operate this snow thrower unless the chute assembly has been properly installed and is secured.

NOTE: For location of all the engine controls referred to in this section, refer to Figure 7.

For A Cold Start

Electric Starter

Some models of the snow thrower may be equipped with an optional 120 volt A.C. electric starter. This electric starter, with a three-wire power cord and plug, is designed to operate on 120 volt AC household current. Follow the steps below to use the electric starter.



WARNING: The electric starter must be used with a properly grounded three-prong receptacle at all times to avoid the possibility of electric shock. Follow all instructions carefully prior to operating the electric starter.

1. Determine that your house wiring is a three-wire grounded system. Ask a licensed electrician if you are not certain.
2. If your home wiring system is not a three-wire grounded system, do not use this electric starter under any conditions.
3. If your home electrical system is grounded, but a three-hole receptacle is not available, one should be installed by a licensed electrician before using the electric starter.
4. If you have a grounded three-prong receptacle, proceed as follows.
5. Move Choke Control to the "Full" position.
6. Push Primer three (3) times, making sure to cover vent hole when pushing.
7. Connect power cord to switch box on dash panel. Plug the other end of power cord into a three-prong 120-volt, grounded, AC receptacle.
8. Push starter button to crank engine.
9. When engine starts, release starter button, and move choke gradually to 1/2 Choke until the engine runs smoothly. Next move Choke to OFF. If engine falters,

move choke immediately to FULL and then gradually to 1/2 then to OFF.

10. Disconnect the power cord. Always unplug from the outlet first, and then from the snow thrower.

Recoil Starter

1. Move choke lever to FULL choke position (cold engine start).
2. If engine is warm, place choke in OFF position instead of FULL.
3. Push Primer three (3) times, making sure to cover vent hole when pushing.
4. If engine is warm, push primer button only once.

NOTE: Always cover vent hole in primer button when pushing. Additional priming may be necessary for first start if temperature is below 15 degrees Fahrenheit.

5. Grasp starter handle and pull rope out slowly, until it pulls slightly harder. Let rope rewind slowly.
6. Pull starter handle rapidly. Do not allow handle to snap back. Allow it to rewind slowly while keeping a firm hold on the starter handle.
7. As engine warms up and begins to operate evenly, rotate choke lever slowly to the 1/2 Choke position. When the engine begins to run smoothly, move the choke to the OFF position. If engine falters, return to FULL choke, then slowly move to 1/2 then OFF position.

For A Warm Start:

1. If restarting an engine after a temporary shut-down, rotate choke to OFF instead of FULL and do not prime. Use electric start feature or pull the starter handle as instructed before.

Before Stopping

1. Run engine for a few minutes to help dry off any moisture on engine.
2. To avoid possible freeze-up of the starter, follow these steps:

Recoil Starter

- a. With the engine running, pull the starter rope with a rapid, continuous full arm stroke three or four times.

To Stop The Snow Thrower

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



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

Clearing The Snow

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

1. Start the engine following starting instructions.
2. Allow the engine to warm up for a few minutes as the engine will not develop full power until it reaches operating temperature.
3. Rotate the chute assembly to the desired direction, away from bystanders and/or buildings.
4. Making certain no bystanders or obstacles are in front of the unit, squeeze the auger control completely against the upper handle to fully engage the augers.
5. While the auger control is engaged, squeeze the drive control completely against the upper handle to engage the wheels. Do not "feather" the drive control.
6. As the snow thrower starts to move, maintain a firm hold on the handle, and guide the snow thrower along the path to be cleared.
7. Release the auger and drive controls to stop the snow throwing action and forward motion.

NOTE: Your unit is equipped with a clutch in the transmission. If the wheels stop turning while trying to discharge large volumes of snow, immediately disengage the drive control and allow the rotating augers to discharge snow from the housing. Reduce the clearing width and continue operation.

8. On each succeeding pass, readjust the chute assembly to the desired position and slightly overlap the previously cleared path.

5

Operation



WARNING

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

5

Operation



WARNING

Stop engine by moving throttle lever to stop position and wait for all moving parts to stop before using the clean-out tool.

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

Speed Selector Lever

Your unit is equipped with a 3-speed power propelled drive system. Speed position 1, when the lever is depressed all the way down toward the motor, is slow. Speed position 2 is a little faster and 3 is the fastest. See Figure 8.

To operate this function, follow these instructions:

1. Shift your snow thrower only while engine is running.
2. Release drive control handle before shifting.

Operating Tips

1. For most efficient snow removal, remove snow immediately after it falls.
2. Discharge snow downwind whenever possible. Slightly overlap each previous swath.
3. Set the skid shoes 1/4" below the shave plate for normal usage. The skid shoes may be adjusted upward for hard-packed snow.

NOTE: It is not recommended that you operate this snow thrower on gravel as loose gravel can be easily picked up and thrown by the auger causing personal injury and/or damage to the snow thrower.

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

Cleaning The Chute Assembly

The clean-out tool is conveniently fastened to the auger housing with a mounting clip.

When snow and ice collect in the chute assembly during operation, use this tool to safely clean the chute and chute opening. Follow the steps below to operate it.



WARNING: Stop engine by moving throttle lever to stop position and wait for all moving parts to stop before using the clean-out tool.

1. Release both auger and drive controls.
2. Stop the engine by moving throttle lever to stop position.
3. Remove the clean-out tool from the clip which secures it to the rear of the auger housing.
4. Use the shovel-shaped end of the clean-out tool to dislodge and scoop any snow and ice which has formed in and near the chute assembly.



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

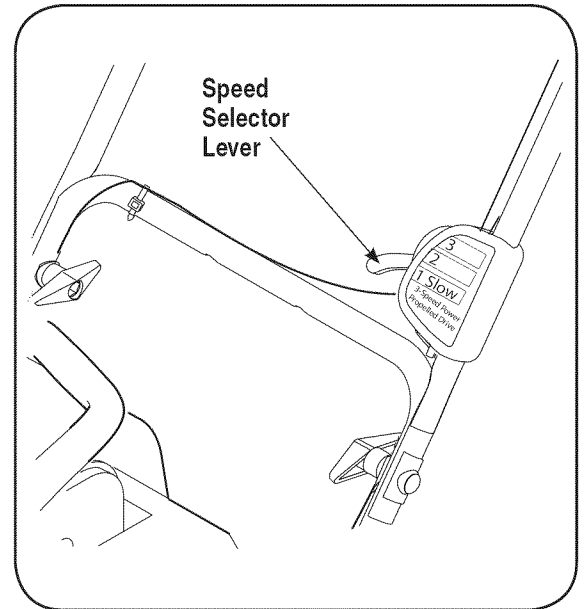


Figure 8

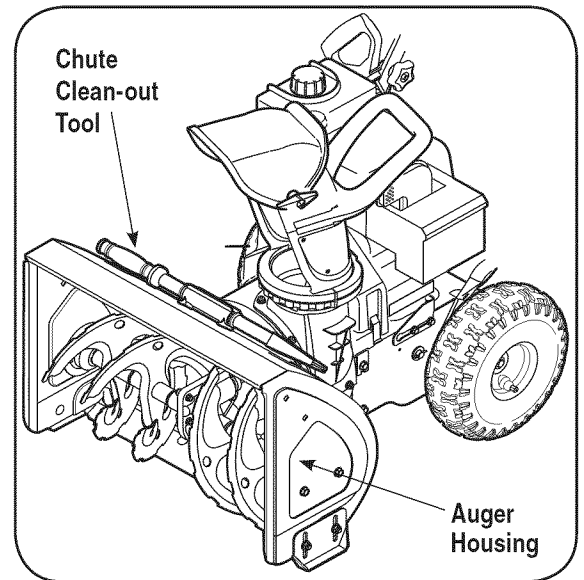


Figure 9

5. Re-fasten the clean-out tool to the mounting clip on the auger housing. You can start operating your snow thrower now. See Figure 9.

NOTE: The handle of the clean-out tool should be placed with the handle to the Right side on the snow thrower auger housing.

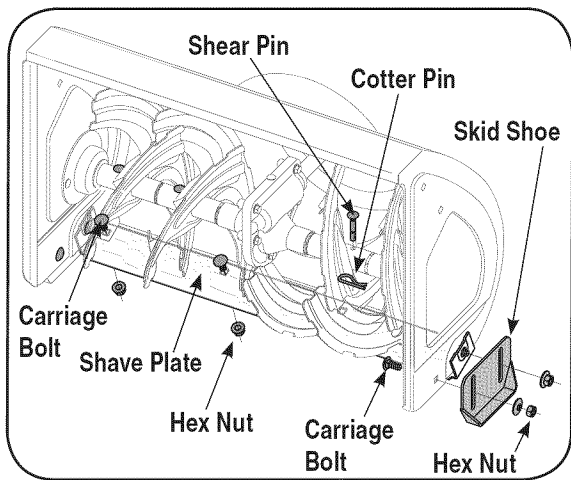


Figure 10

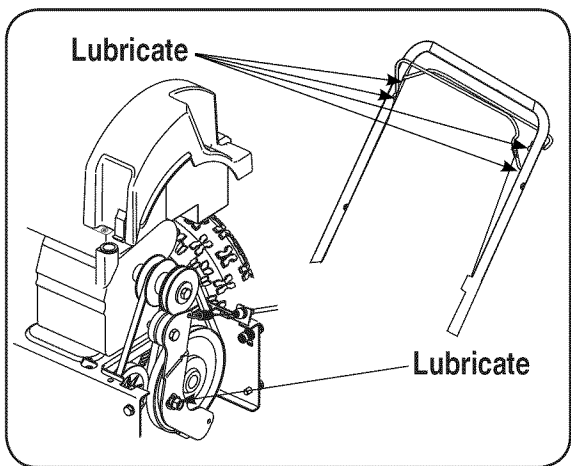


Figure 11

General Recommendations

1. Always observe safety rules when performing any maintenance.
2. The warranty on this snow thrower does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain the snow thrower as instructed in this manual.
3. Periodically check all fasteners and hardware to make sure these are tight.



WARNING: Before servicing, repairing, lubricating or inspecting, disengage all controls and stop engine. Wait until all moving parts have come to a complete stop. Disconnect spark plug wire and ground it against the engine to prevent unintended starting. Always wear safety glasses during operation or while performing any adjustments or repairs.

Replacing the Shave Plate and Skid Shoes

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

1. To replace, remove two carriage bolts and hex nuts securing each skid shoe to the auger housing. See Figure 10.
2. Reassemble new skid shoes with hardware just removed. Make sure shoes are adjusted to be level.
3. **To remove shave plate:** Remove both skid shoes and hardware including carriage bolts, and hex nuts which attach shave plate to the snow thrower housing. For location of shave plate, see Figure 10.
4. Reassemble new shave plate, making sure heads of the carriage bolts are to the inside of the housing. Reinstall skid shoes. Tighten securely.

Servicing Augers

The augers are secured to the spiral shaft with four shear pins and cotter pins. If you hit a foreign object or ice jam, the snow thrower is designed so that the pins may shear. Refer to Figure 10.

If the augers do not turn, check if the pins have sheared. Replace, if needed, with proper shear pins. Refer to item 42 on page 19 for part number.

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

Lubrication

For a view of the lubrication points on the snow thrower, see Figure 11.

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

Engine

Listed below are general recommendations about maintaining your snow thrower engine. For further details, refer to the accompanying engine manual.

1. Before operating snow thrower, check the oil level.
2. Change engine oil after first two hours of operation and every 25 hours thereafter.
3. Clean spark plug and reset the electrode gap to 0.030" at least once a season or every 100 hours of operation; replace every 200 hours of operation

Check V-Belts

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

1. Remove the plastic belt cover on the front of the engine by removing the self-tapping screw and pressing the plastic tabs to release the belt cover. See Figure 13.
2. Visually inspect for frayed, cracked, or excessively worn out belts. Replace, if necessary, follow instructions beginning on page 14.

6

Maintenance & Service



WARNING

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



NOTE:

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

6

Maintenance & Service



WARNING

Perform belt maintenance outdoors as some gas may possibly leak from the carburetor even though you placed a sheet of plastic underneath the gas cap to prevent the gas cap from leaking.

Replacing Belts

NOTE: There are two belts on this snow thrower: an auger belt and drive belt. It is recommended that both belts be replaced at the same time.

1. Remove the spark plug wire from spark plug and ground it against the engine to prevent accidental starting.
2. Drain gasoline from the gas tank below ½ tank or run the machine below half a tank, or place a piece of plastic sheet underneath the gas cap to prevent gasoline leakage.



WARNING: Perform belt maintenance outdoors as some gas may possibly leak from the carburetor even though you placed a sheet of plastic underneath the gas cap to prevent the gas cap from leaking.

Adjusting The Auger Cable

Periodic adjustment to the auger control cable may be required due to normal stretch and wear on the belt. Adjustment is needed if the augers seem to hesitate while turning, but the engine maintains speed, or continue turning with the auger control disengaged.

1. Loosen the rear hex bolt on the cable adjustment bracket. See Figure 12.
2. Slide the cable adjustment bracket backwards taking out the slack in the auger cable.
3. Retighten the rear hex bolt
4. Start engine and verify auger control engages and disengages properly.

NOTE: If auger continues to rotate with the control disengaged, shut off engine and readjust.

Auger Belt

1. Loosen the rear screw on the auger cable adjustment bracket using a 3/8" wrench and slide the bracket all the way forward to provide maximum slack in the auger cable. See Figure 12.
2. Remove the belt cover screw using a 5/16 socket with extension and slightly raise belt cover. You must also unclip the plastic tab on the other side to raise this up. Do not attempt to remove the belt cover from the unit at this time. See Figure 13.
3. Loosen the bottom auger housing mounting screw on each side one full turn using a 1/2" socket. See Figure 12.
4. Using the same socket wrench, remove the top auger housing mounting screws on each side.

NOTE: The top auger housing screw on the left side also secures the auger cable bracket and cable roller. Pay attention to its location and how it is positioned for reference during reassembly. See Figure 12.

5. Push down on the unit's handle, this will allow the belt cover to be easily removed and will give access for the following belt maintenance procedures.

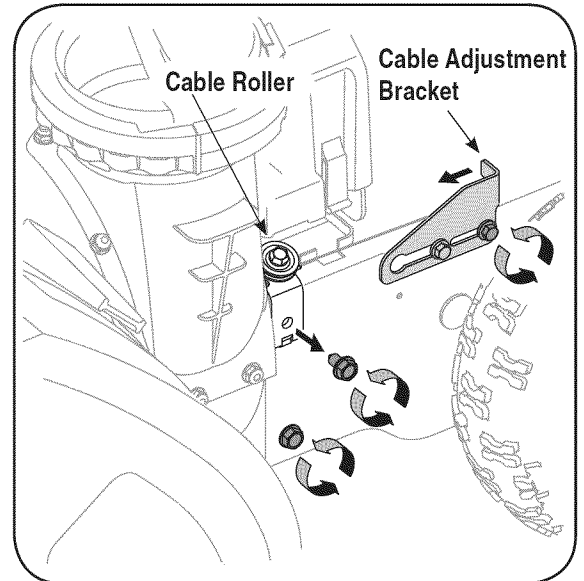


Figure 12

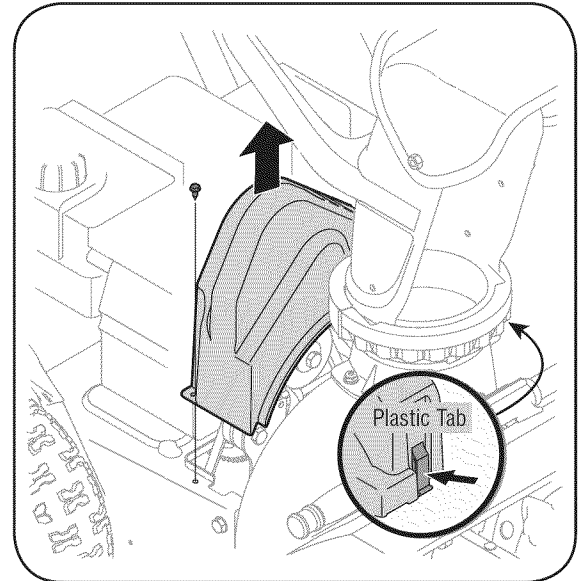


Figure 13

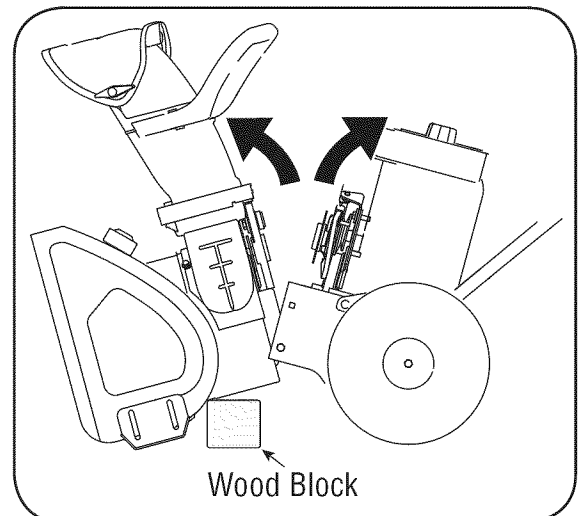


Figure 14

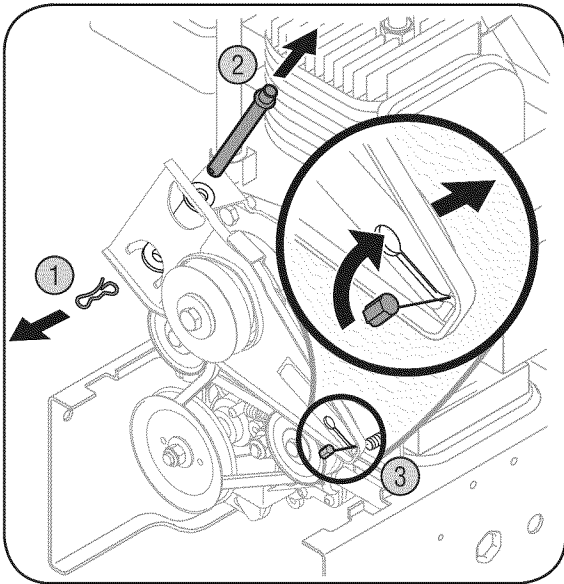


Figure 15

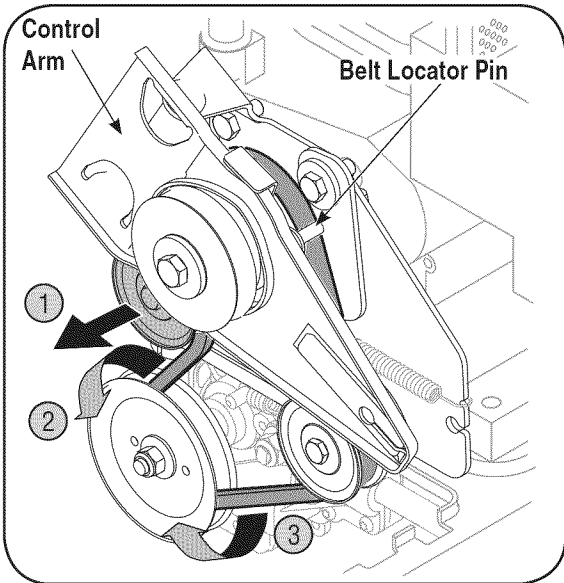


Figure 16

6. After removing the belt cover, slip the front auger belt off of the engine pulley by pushing it forward and rolling in off of the pulley.
7. Push down on the unit's handle further opening this area and providing better access to the auger pulley. You may wish to place a wood block under the auger housing to hold the unit open. See Figure 14
8. Push the auger belt idler pulley in releasing the auger brake, which is the tab that holds the belt onto the auger pulley. Remove the belt.
9. Replace with new belt after replacing the drive belt.

NOTE: If not replacing drive belt, then proceed to Step 5 in the Drive Belt section.

Drive Belt

NOTE: To replace the Drive Belt, you must first follow Auger Belt instructions. Replace the drive belt before reassembling the new auger belt.

1. Remove hairpin clip and pivot rod from unit. See Steps 1 and 2 in Figure 15.
2. Maneuver control arm out and disconnect drive cable. See Step 3.
3. Pull idler pulley on right hand side out, releasing tension on drive belt. Remove drive belt from idler pulley and transmission pulley. See Steps 1 thru 3 in Figure 15.
4. Rotate control arm in order to maneuver belt from unit. Remove belt and replace with new belt.

NOTE: Be sure to maintain position of the multi-speed pulley assembly so that the belt locator pin in the top position. See Figure 16.

5. Reassemble in the exact opposite order.
6. After reassembly is completed, be sure to adjust the auger cable. Refer to the "Adjusting Auger Cable" instructions on Page 14 of this manual.

6

Maintenance & Service



NOTE:

To replace the Drive Belt, you must first follow Auger Belt instructions. Replace the drive belt before reassembling the new auger belt.

Be sure to maintain position of the multi-speed pulley assembly so that the belt locator pin in the top position.

7

Off-Season Storage



WARNING

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

Drain fuel into an approved container outdoors, away from any open flame. Be certain engine is cool. Do not smoke. Fuel left in engine during warm weather deteriorates and will cause serious starting problems.

Do not drain carburetor if using fuel stabilizer. Never use engine or carburetor cleaning products in the fuel tank or permanent damage may occur.

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

Preparing Engine

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



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

NOTE: It is important to prevent gum deposits from forming in essential fuel system parts of the engine such as the carburetor, fuel filter, fuel hose or tank during storage.

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

To avoid engine problems, the fuel system should be emptied before storage for 30 days or longer. Follow these instructions to prepare your snow thrower for storage:



WARNING: Drain fuel into an approved container outdoors, away from any open flame. Be certain engine is cool. Do not smoke. Fuel left in engine during warm weather deteriorates and will cause serious starting problems.

1. Remove all gasoline from the carburetor and the fuel tank to prevent gum deposits from forming on these parts and harming the engine.
2. Run the engine until the fuel tank is empty and it stops due to lack of fuel.
3. Drain carburetor by pressing upward on bowl drain, located below the carburetor cover. See Figure 17.

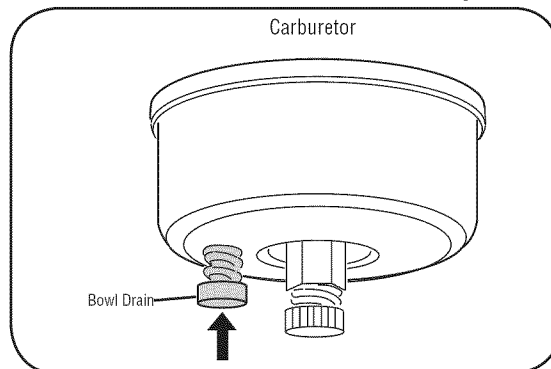


Figure 17



WARNING: Do not drain carburetor if using fuel stabilizer. Never use engine or carburetor cleaning products in the fuel tank or permanent damage may occur.

NOTE: Fuel stabilizer (such as STA-BIL) is an acceptable alternative in minimizing the formation of fuel gum deposits during storage. Add stabilizer to gasoline in fuel tank or storage container. Always follow mix ratio found on stabilizer container. Run engine at least 10 minutes after adding stabilizer to allow it to reach the carburetor. Do not drain carburetor if using fuel stabilizer.

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

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

Preparing Snow Thrower

1. When storing the snow thrower in an unventilated or metal storage shed, care should be taken to rustproof the equipment. Using a light oil or silicone, coat the equipment, especially any chains, springs, bearings and cables.
2. Remove all dirt from exterior of engine and equipment.
3. Follow lubrication recommendations on page 13.
4. Store equipment in a clean, dry area.

Problem

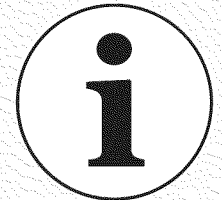
Possible Cause(s)

Solution

Engine fails to start	<ol style="list-style-type: none">1. Fuel tank empty, or stale fuel2. Blocked fuel line3. Key not snapped into place4. Spark plug wire disconnected5. Faulty spark plug 6. Engine not primed7. Engine flooded from excessive priming	<ol style="list-style-type: none">1. Fill tank with clean fresh gasoline.2. Clean fuel line.3. Insert key (<i>see Page 9</i>).4. Connect wire to spark plug.5. Clean spark plug, readjust gap, or replace.6. Prime engine four times.7. Wait at least ten minutes before starting.
Engine runs erratic	<ol style="list-style-type: none">1. Unit running on choke2. Fuel line blocked, or stale fuel 3. Water or dirt in fuel system4. Carburetor out of adjustment	<ol style="list-style-type: none">1. Move choke lever to OFF position.2. Clean fuel line and fill tank with fresh, clean gasoline.3. Refer to engine manual for remedy.4. Refer to engine manual for remedy.
Engine overheats	<ol style="list-style-type: none">1. Carburetor out of adjustment	<ol style="list-style-type: none">1. Refer to engine manual for instruction.
Loss of power	<ol style="list-style-type: none">1. Spark plug wire loose2. Vent in gas cap plugged	<ol style="list-style-type: none">1. Firmly connect spark plug wire.2. Clear vent.
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. Check for possible damage. Tighten all bolts and nuts. Repair as needed. If the problem persists, take unit to an authorized service dealer.
Unit fails to self-propel	<ol style="list-style-type: none">1. Drive belt loose or damaged	<ol style="list-style-type: none">1. Replace drive belt.
Augers continue to rotate	<ol style="list-style-type: none">1. Cable out of adjustment.	<ol style="list-style-type: none">1. Adjust auger control cable as shown in "Adjusting The Auger Cable" on page 14.
Unit fails to discharge snow	<ol style="list-style-type: none">1. Chute assembly clogged. 2. Shear pin sheared.3. Foreign object lodged in auger. 4. Auger control cable out of adjustment.5. Auger belt loose or damaged.	<ol style="list-style-type: none">1. Stop engine and disconnect spark plug wire. Clean chute and inside of auger housing with clean-out tool or stick.2. Replace shear pin.3. Stop engine immediately and disconnect the spark plug wire. Remove object from auger.4. Adjust auger control cable. 5. Replace auger belt.

8

Trouble-Shooting



Please do **NOT** return the unit to the retailer from which it was purchased, without first contacting Customer Support.

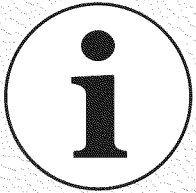
Log onto www.mtdproducts.com or call a customer service representative at 1(800) 800-7310 or (330) 220-4683.

Note:
You will need the model number and serial number if and when calling Customer Support, logging onto our website and contacting a service dealer. Please refer to page 2 of this manual for information regarding locating and recording your model and serial numbers.

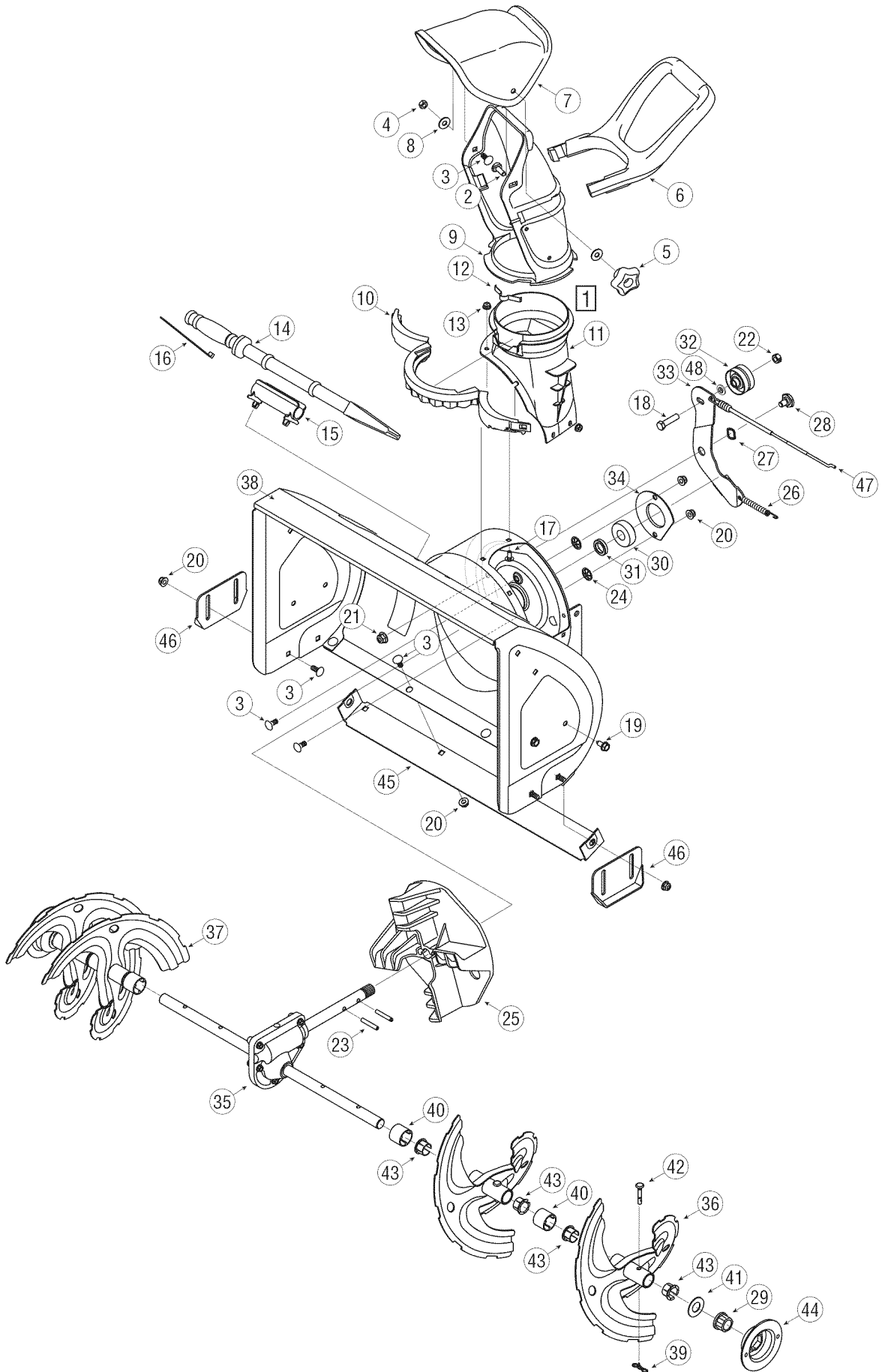
NOTE: For repairs beyond the minor adjustments listed above, contact your nearest authorized service representative or call 1-800-800-7310 for the Customer Support Center. Refer to the engine manual for more engine related information.

9

Part List: Dual Stage Snow Thrower

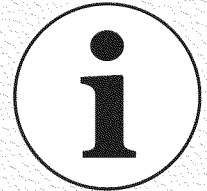


For parts and/or
accessories
please call
1-800-800-7310, or
1-330-220-4683.
www.mtdproducts.com



9

Part List: Dual Stage Snow Thrower

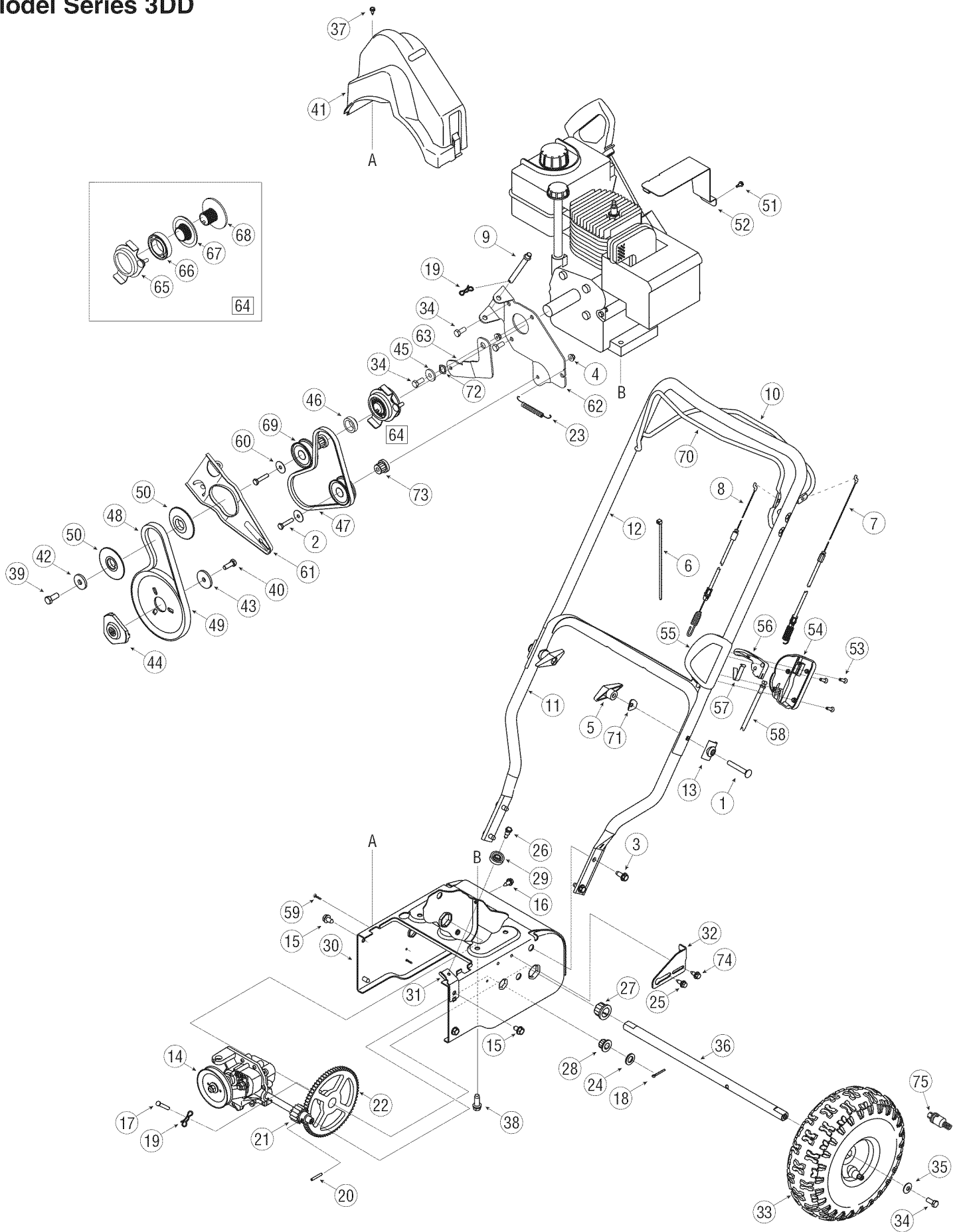


*For parts and/or
accessories
please call
1-800-800-7310, or
1-330-220-4683.
www.mtdproducts.com*

REF NO.	PART NUMBER	DESCRIPTION	Qty.
1	684-04037	Chute Assembly	1
2	710-04071	Carriage Bolt 5/16-18 x 1.0"	1
3	710-0451	Carriage Bolt 5/16-18	11
4	712-3068	Flange Lock Nut, 5/16-18	1
5	720-04032	Nut Knob 5/16-18	1
6	731-04388A	Chute Handle	1
7	731-04426A	Upper Chute	1
8	736-0159	Flat Washer .349 x .879 x .063	2
9	731-04127	Lower Chute	1
10	731-04353	Chute Ring	1
11	731-2636A	Chute Adapter 5" Dia.	1
12	732-04111	Chute Adjustment Spring	1
13	712-04064	Flange Lock Nut 1/4-20	5
14	731-2643	Clean-out Tool	1
15	731-2635	Clean-out Tool Mount	1
16	725-0157	Cable Tie	1
17	710-0134	Carriage Screw 1/4-20 x 0.62"	5
18	710-0520	Hex Bolt 3/8-16 x 1.50"	1
19	710-0604A	AB Screw 5/16-18 x .625	4
20	712-04063	Flange Lock Nut, 5/16-18	10
21	712-04065	Flange Lock Nut, 3/8-16	1
22	712-0266	Hex Lock Nut 3/8-16	1
23	715-04020	Spiral Pin	2
24	726-04012	Push On Nut	2

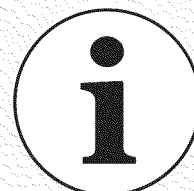
REF NO.	PART NUMBER	DESCRIPTION	Qty.
25	731-04218B	Impeller	1
26	732-0611	Extension Spring	1
27	736-0174	Wave Washer	1
28	738-0281	Shoulder Screw 3/8-16	1
29	741-0245	Hex Flange Bearing	2
30	741-0309	Ball Bearing	1
31	750-04191	Spacer	1
32	756-04035	Flat Idler	1
33	784-0434	Auger Idler Bracket	1
34	790-00075	Bearing Housing	1
35	618-04293	Auger Gearbox Assembly	1
36	684-04113	Auger Assembly - LH	2
37	684-04114	Auger Assembly - RH	2
38	684-04165	Auger Housing, 24"	1
39	714-04040	Bow Tie Cotter Pin 72	4
40	731-04870	Spacer, 1.25 x .75 x 1.00	4
41	736-0351	Flat Washer	2
42	738-04124A	Shear Pin,.25 x 1.50	4
43	741-0493A	Flange Bushing	8
44	790-00087A	Hex Bearing Housing	2
45	790-00120	Shave Plate 2.25 x 23.66 LG	1
46	784-5580	Skid Shoe	2
47	746-04246	Auger Cable	1
48	736-0258	Flat Washer	1

Model Series 3DD



9

Part List: Dual Stage Snow Thrower



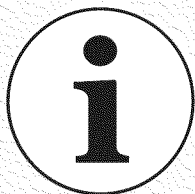
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accessories
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1-330-220-4683.
www.mtdproducts.com*

REF NO.	PART NUMBER	DESCRIPTION	Qty.	REF NO.	PART NUMBER	DESCRIPTION	Qty.
1	710-0449	Carriage Screw 5/16-18 x 2.25"	2	39	710-0696	Hex Bolt 3/8-24 x 0.875"	1
2	710-0106	Hex Screw 1/4-20 x 1.25"	2	40	710-1245B	Lock Bolt 5/16-24 x 0.875"	1
3	710-1260A	Screw, 5/16-18 x .75"	4	41	731-05364	Belt Cover	1
4	712-04064	Flange Lock Nut 1/4-20	2	42	736-0247	Flat Washer,.406ID x 1.25OD	1
5	720-0284	Lock Nut Knob 5/16-18	2	43	736-0505	Flat Washer,.34ID x 1.50OD	1
6	725-0157	Cable Tie	3	44	748-04067	Pulley: Adapter,.75 Dia.	1
7	746-04256	Drive Cable	1	45	748-0234	Shoulder Spacer	1
8	746-04246	Auger Cable	1	46	750-04568	Shoulder Spacer	1
9	711-04478	Pivot Rod	1	47	754-04102	V-Belt, 3L x 25.00 LG	1
10	747-04405	Drive Control	1	48	754-04014	V-Belt, 3/8 x 26.680 Lg.	1
11	749-04147	Lower Handle	1	49	756-04024	Auger Pulley	1
12	749-04236	Upper Handle	1	50	756-0569	Pulley Half	2
13	790-00053	Handle Tab	2	51	710-0456	Screw, #10-16 x.500	1
14	618-04296	Transmission Assembly	1	52	790-00064	Heat Shield	1
15	710-0604A	AB Screw 5/16-18 x .625	4	53	710-1667A	Screw #10-16	3
16	710-0809	Screw, 1/4-20 x 1.25"	2	54	731-05358	Speed Selector Housing - Lwr	1
17	711-1364	Clevis Pin	1	55	731-05359	Speed Selector Housing - Upr	1
18	714-0115	Cotter Pin, 1/8 x 1.0	2	56	731-05360	Speed Selector Housing-Lever	1
19	714-04040	Bow Tie Cotter Pin 72	2	57	732-0627	6 Speed Shift Lever Spring	1
20	715-0249	Roll Pin	1	58	746-04244	Speed Control Cable	1
21	717-04066	Pinion 14T	1	59	710-04329	Screw .159 x .610	2
22	717-04073A	Gear 70T	1	60	736-3092	Flat Washer .265 x 1.0 x .030	2
23	732-0409	Extension Spring	1	61	782-7596A	6-Speed Control Arm	1
24	736-0192	Flat Washer	2	62	790-00234	Actuator Mounting Bracket	1
25	738-04184	Shoulder Screw 1/4-20	1	63	790-00235	Drive Wheel Idler Bracket	1
26	738-0924	Carriage Screw 1/4-28	1	64	656-0613	Multi-Speed Pulley Assembly	1
27	741-0245	Hex Flange Bearing	2	65	682-7527	6 Speed Assembly Cup	1
28	741-04108	Hex Flange Bearing	2	66	741-0545	Ball Bearing	1
29	756-0625	Cable Roller	1	67	756-0613	Pulley Half	1
30	784-0419B	Drive Housing Frame	1	68	756-0612A	Drive Pulley Half	1
31	790-00223	Auger Cable Bracket	1	69	684-04168	Idler Pulley Assembly	2
32	790-00224	Auger Cable Adj. Bracket	1	70	747-04394	Auger Control Bail	1
33	634-0232A	Wheel Assbly Snow Hog Gray	2	71	736-0451	Saddle Washer	2
34	710-0627	Lock Bolt 5/16-24 x 0.75"	5	72	736-0232	Wave Washer .531 x .781 x .013	1
35	736-0242	Bell Washer	2	73	750-04571	Shoulder Spacer .60 x .790 x .538	2
36	738-1231	Axle	1	74	710-1652	Screw, 1/4-20 x 1.25"	1
37	710-0224	Hex Screw, #10-16 x.500	1	75	753-05426	Pressure Limiting Valve Kit	—
38	710-0654A	TT Sems Screw 3/8-16 x 1.0"	4				

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NOTES:

Use this page to make notes and write down important information.

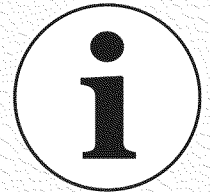


*For parts and/or accessories
please call
1-800-800-7310, or
1-330-220-4683.
www.mtdproducts.com*

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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, its possessions and territories.

"MTD" warrants this product 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, shave plates, auger spiral rubber and tires.

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

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

- a. The engine or component parts thereof. These items may carry a separate manufacturer's warranty. Refer to applicable manufacturer's warranty for terms and conditions.
- b. Log splitter pumps, valves, and cylinders have a separate one year warranty.
- c. Routine maintenance items such as lubricants, filters, blade sharpening, tune-ups, brake adjustments, clutch adjustments, deck adjustments, and normal deterioration of the exterior finish due to use or exposure.
- d. Service completed by someone other than an authorized service dealer.

e. MTD does not extend any warranty for products sold or exported outside of the United States, its possessions and territories, except those sold through MTD's authorized channels of export distribution.

f. Replacement parts that are not genuine MTD parts.

g. Transportation charges and service calls.

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