

Instruction Manual

Model No. MT-988

Electric Snow Thrower



IMPORTANT: Read and understand this manual before assembling or operating this Electric Snow Thrower. Improper use of Snow Thrower can cause severe injury. Keep this manual for future reference.

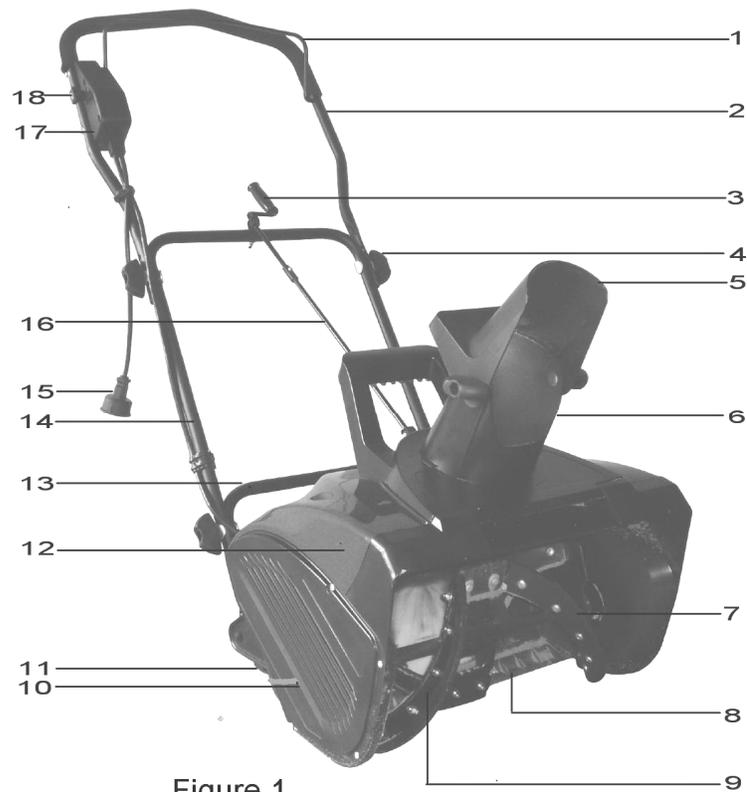
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I. Specifications

Rated Voltage: 120v~60Hz
Amperage: 13Amp
Speed: 2100rpm
Clearing Width: 18"
Clearing Height: 10"
Max Spraying Distance: 30 ft.
Weight: 36 lbs

II. Parts List



1. Handle bar
2. Upper frame
3. Upper chute crank
4. Joint fixing T-bolt and knob
5. Chute deflector
6. Discharge chute
7. Rubber plate
8. Scraper
9. Auger
10. Side cover
11. Wheels
12. Top cover
13. Lower frame
14. Middle frame
15. Plug

16. Lower chute crank
17. Switch housing
18. Switch key

III-Safety Instructions

GENERAL SAFETY INSTRUCTIONS

Warning: Read all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury. The term "power tool" in all of the warnings listed below refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

SAVE THESE INSTRUCTIONS

1) WORK AREA

- a) Keep work area clean and well lit. Cluttered and dark areas invite accidents.
- b) Do not operate power tools in explosive atmosphere, such as in the presence of flammable liquids, gases, or dust. Power tools create sparks which may ignite the dust or fumes.
- c) Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2) ELECTRICAL SAFETY

- a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- b) Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- c) Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- e) When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.

3) PERSONAL SAFETY

- a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.
- b) Use safety equipment. Always wear eye protection. Safety equipment such as a dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c) Avoid accidental starting. Ensure the switch is in the off-position before plugging in. Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.
- d) Remove any adjusting key or wrench before turning the tool on. A wrench or a key that is left attached to a rotating part of the power tool may result in personal injury.
- e) Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- f) Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
- g) If devices are provided for the connection of dust extraction and collection facilities,

ensure that these are connected and properly used. Use of these devices can reduce dust-related hazards.

4) POWER TOOLS USE AND CARE

- a) Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate from which it was designed.
- b) Do not use the power tool if the switch does not turn it on and off. Any power tool that can not be controlled with the switch is dangerous and must be repaired.
- c) Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- e) Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts, and any other conditions that may affect the power tools operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- f) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from intended could result in a hazardous situation.

5) SERVICE

- a) Have your power tools serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tools is maintained.

ADDITIONAL SAFETY RULES FOR SNOW THROWER

- Know your tool. Read owner's manual carefully. Learn its applications and limitations as well as the specific potential hazards related to this tool.
- Do not operate this unit when tired, ill or under the influence of alcohol, drugs, or medication.
- All guards and safety attachments must be installed properly before using the unit.
- Inspect the unit before use. Ensure the parts are installed correctly and secure.
- Clear the area to be plowed before each use. Remove all objects such as rocks, broken glass, nails, wire, or string which can be thrown or become entangled in this tool.
- Keep the area of operation clear of all persons, particularly children and pets.
- Avoid dangerous environment. Don't use power tools in damp or wet locations or expose to rain. Keep work area well lit.
- Keep work area clean. Cluttered areas and benches invite accidents.
- Be cautious to avoid electric shock. When using the machine keep your body away from different ground terminal of power (e.g. upper and lower water pipes, outer frame of heating equipment, microwave oven, or in a place that is locked).
- The machine should be stored carefully and safely in a dry environment when not used, far from the reach of children, or in a place that is locked.
- Please do not use the machine in any purposes other than it is designed for, otherwise, it may cause mechanical defaults or serious damage or injuries.
- Special care should be drawn to the following issues when using this machine: operation methods, procedures, surroundings, and environment states, etc.
- When using this machine, the user should be cautious about the nearby status or changes: The user should constantly observe the position and movement of other people, nearby window, vehicles, obstacles, etc. Exercise caution to find any small piece of rocks or other articles in the snow to avoid

them from flying out and causing personal injury.

- In case of following conditions, please turn off the machine and pull out the power plug:

When not used, being repaired, replaced of some parts, being cleaned and checked as well as any other conditions in which dangerous factors exist. If cord is damaged in manner while plugged in, pull extension cord from wall receptacle. Never carry snow thrower by cord yank it to disconnect from receptacle.

- Do not use hands to unclog chute. Stop motor before removing Debris. Do not walk in front of running machine. Do not direct discharge at bystander.
- When using the machine the user must keep correct postures. Heels should be placed firmly on the ground, while the hands hold the handles firmly.
- Before using the machine, the user should have a careful inspection of the main machine. Carefully check the different parts of the machine before starting, solving any problem immediately. If you find any abnormal condition, please don't use the machine before repairing.
- If you find the main power cable or the extension cable damaged, please pull out the plug from the socket and disconnect the power immediately. Repair the cable for replace it if necessary. When adding the lubricant or replacing any parts, you must strictly observe the instructions and procedures described in this User Manual.

Special care should be paid to any rubber parts, since these parts may increase the engine load and decrease its mechanical power if damaged.

- When examining, servicing, and/or cleaning the machine or replace parts, you must turn off the power switch and disconnect the power cable. Any such operation should be performed after revolving part inside the machine stops completely.
- The first time you use the machine or after replacing some parts, you should perform a test running and ensure no abnormal conditions exist to avoid any potential damages or incidents.
- Do not move or transport the machine when the plug is connected into the power socket and the switch is turned on.
- When using the machine you must respect local laws and regulations regarding noise control and environment protection. To avoid any noise disturbance to other people, you should carefully decide operation time and consider the surrounding conditions.
- When the machine is running, be cautious to prevent your hands, feet or head from moving near to the revolving part or the snow exit of the machine.
- In case you fall or collide with the machine, please check the main machine and parts for any damages or cracks.
- When stepping backwards, be cautious about any obstacles beneath your feet or behind you to avoid falling.
- When using the machine, if you notice the machine running in an unstable state or hear abnormal sound from the engine, please stop the machine and disconnect the power immediately and contact your original distributor.
- When operating the machine, while taking care of your safety, you should also be cautious to avoid any harm to other people. Call nearby passengers' attention to avoid potential personal injury.
- Use for snow removal only.
- Please do not take back and store the machine while it is still connected to the power source. It may cause damage and injury.
- Keep the plug clear from water.
- To prevent electric shock use only with an extension cord suitable for outdoor use.(Does not apply to battery-operated Snow Thrower)
- Keep hands away from moving parts. Shut off engine before unclogging discharge chute.
- Dress properly. Do not wear loose clothing or jewelry. They can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. The user should wear a protective helmet to avoid your hair

from getting in contact with any revolving part of the machine.

- Keep children and visitors away. Visitors should wear safety glasses and be kept a safe distance from work area.
- Use right tool. Don't force small tool or attachment to do the job of a heavy duty tool. Don't use tool for purpose not intended.
- Do not force unit. It will do the job better and with less likelihood of injury at a rate for which it was designed.
- Always wear safety glasses. Everyday eyeglasses have only impact resistance lenses. They are not safety glasses.
- Keep hands, face and feet at a distance from all moving parts. Do not touch or try to stop the machine when they are rotating. Do not operate without guards in place.

Symbols

The rating plate on your tool may show symbols. These represent important information about the product or instructions on its use.



Read the instruction manual



The following warning symbols are to remind you of the safety precautions you should take when operating the snow thrower.



Always keep the children or pets away from the working area.



Always keep away from the working area. The throwing snow may hurt you.



Keep hands away from the moving parts of the snow thrower. The rotating parts will hurt you.



Keep foot way from the moving parts of the snow thrower. The rotating parts will hurt you.



WARNING-ELECTRICAL SHOCK

Do not use the electric snow blower in the rain

IV-GETTING STARTED.

1. Remove the snow thrower and all other items from box.
2. Check all items for shipping damage. If you find any damage or any parts are missing, promptly inform the dealer where you bought the Snow Thrower.

The Snow Thrower comes with the following accessories, packed in the parts bag.

Cable clip 3pcs

Upper chute crank 1pc

Lower chute crank 1pc

Wrench 1pc

Note: Upper chute crank and lower chute crank are packed together.

The snow Thrower is to be assembled before Operation. To assemble the snow thrower, follow the instructions below.

Upper, Middle and Lower Frame Assembly

1. Loosen and remove the four sets of joint fixing T-bolts, washers, and joint fixing knobs to separate the upper frame from the lower frame.

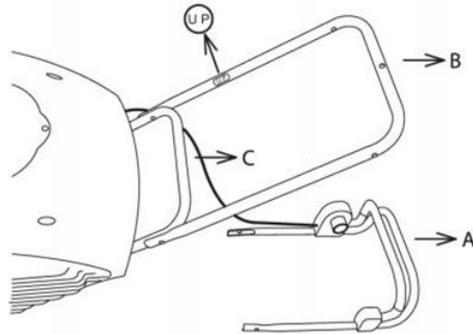


Figure 2

A – Upper frame
B – Middle frame
C – Lower frame

2. Hold the middle frame so that the screw holes align with the holes on the lower frame. Insert the T-bolt with washer into the holes on each side and use the joint fixing knobs to secure the connection on both sides. The joint fixing bolts and washers should be inserted inside the frame of the unit so that the joint fixing knobs are fastened to the outside of the frame. Note: Do not over-tighten the knobs.

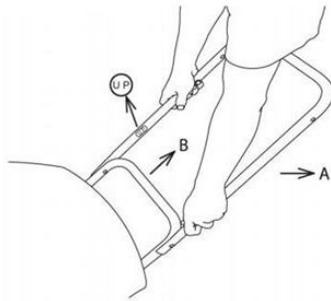


Figure 3

A – Middle frame
B – Lower frame

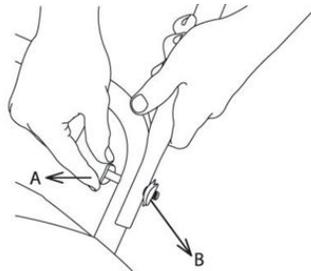


Figure 4

A – Joint fixing T-bolt
B – Washers

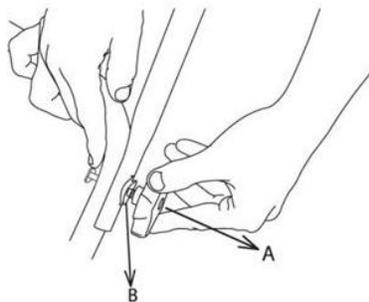


Figure 5

A – Joint fixing knob
B – Washers

3. Connect the upper frame with the middle frame in the same way as described in step 2. Use the joint fixing T-bolts, washers and knobs to secure the

connection on both sides.

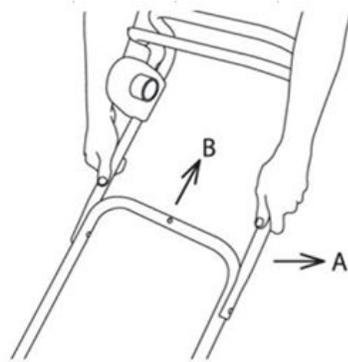


Figure 6

A – Upper frame B

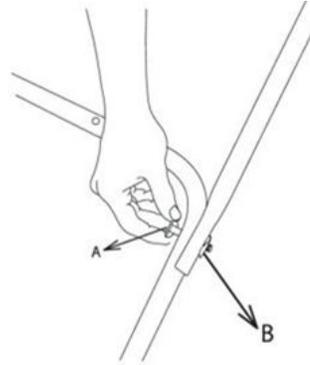


Figure 7

A – Joint fixing T-bolt B – Washer

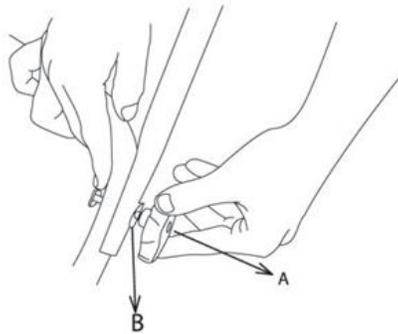


Figure 8

A – Joint fixing knob B – Washer

4. Locate the cable clips in the parts bag. Secure the power cord to the frame of the unit by clipping them onto the frame at evenly spaced intervals.

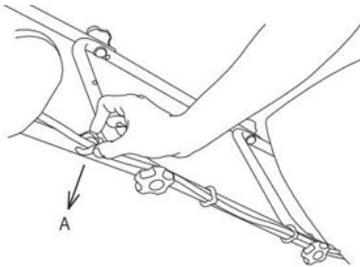


Figure 9

A – Cable clip

Discharge Chute and Chute Crank Assembly

1. Lift the chute deflector so that it snaps and locks securely onto the discharge chute.

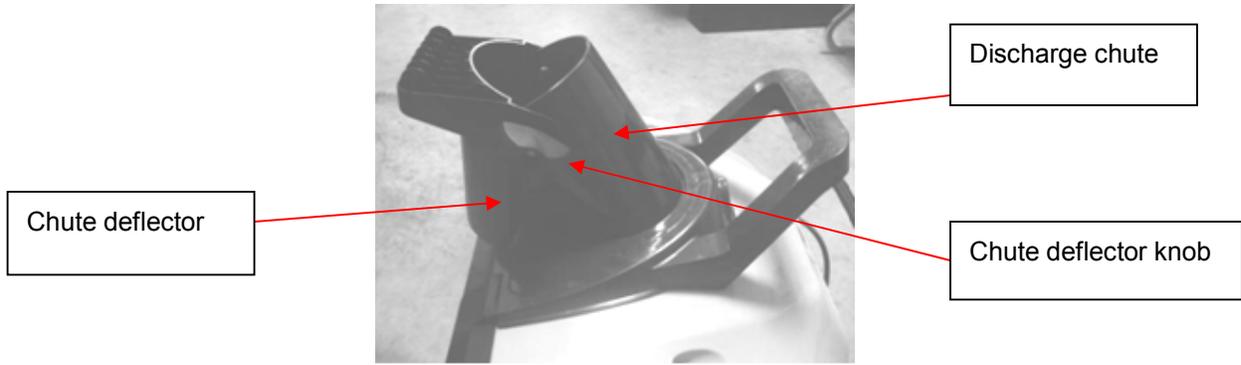


Figure 10

2. Raise or lower the chute deflector to the desired height of the snow stream and tighten the chute deflector knobs.

Note: Do not over-tighten the chute deflector knobs.

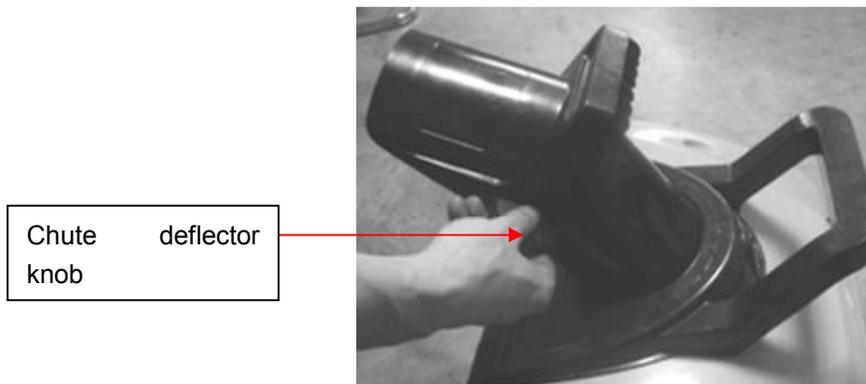


Figure 11

3. Locate the low and upper chute crank in the parts bag. Loosen the screw and nut located on the upper chute crank with screwdriver and wrench.

Note: You may be able to unfasten the screw and nut by hand.

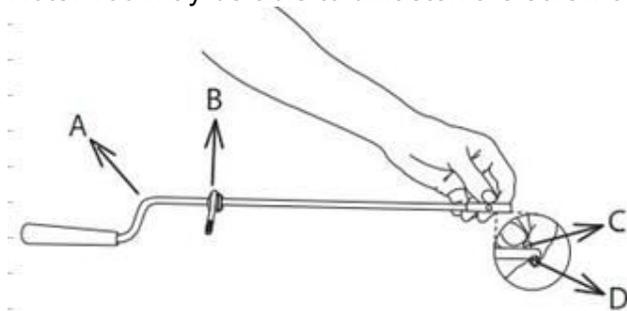


Figure 12

A - Upper chute crank C - Screw
 B - Eye bolt with rubber grommet D - Nut

4. Slide the upper chute into the lower chute crank, aligning the screw holes. Tighten the screw into the aligning holes using a screwdriver. Fasten the unit with

wrench.

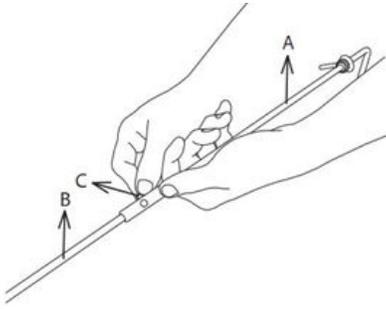


Figure 13

A-Upper chute crank
B-Lower chute crank
C-Screw

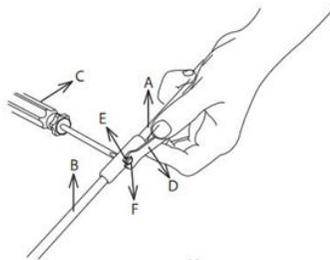


Figure 14

A-Upper chute crank
B-Lower chute crank
C-Screwdriver
D-Wrench
E-Nut
F-Screw

5. Slide the lower crank into the chute base hole.



Slide into chute base hole

Figure15

6. Remove the washer and nut from the eye bolt with rubber grommet found on the upper chute crank. Position the chute crank so that the eye bolt with rubber grommet inserts into the center hole of the middle frame. Secure with washer and nut.

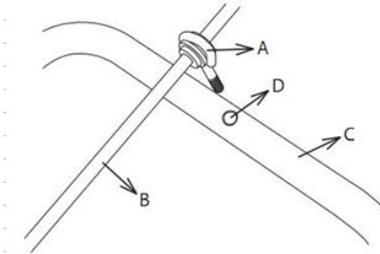


Figure 16

A-Eye bolt with rubber grommet
 B-Upper chute crank
 C-Middle frame
 D-Center hole

V. Operation

Note: Before using the machine, please make sure the power source you will use is in accordance with the specifications shown in this manual. Before inserting the plug into the socket, make sure the machine's roll shaft and the snow thrower's rubber plates are all fixed firmly with screws, and the rubber plates are facing to the correct direction. Perform a test run to ensure that the rotor turns feely.

Securing the extension cord

1. For safe and efficient use of your snow thrower, use only a UL-rated or CSA extension cord recommended for outdoor use.
2. To prevent the extension cord from disconnecting during use, tie the extension cord into a loose knot on the top right side of middle frame before connecting the plug in the switch cord socket of the snow thrower.

Electric shock may cause SEVERE INJURY or DEATH. Heed these warnings:

- Do not allow any part of snow thrower to make contact with water while powered on. If the appliance becomes wet while turned off, wipe dry before starting.
- Use only a UL-rated or CSA-rated extension cord for outdoor, all-weather use.
- Do not touch the appliance or its plug with wet hands or while standing in water. Wearing rubber boots offers some protection.

EXTENSION CORD CHART	
Cord Length is:	Wire gauge is:
100ft. (30 m)	16
150ft.(46m)	14

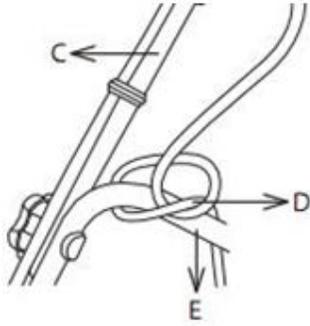


Figure17

Powering on and off

1. Release the handle bar, insert the switch key into his position.

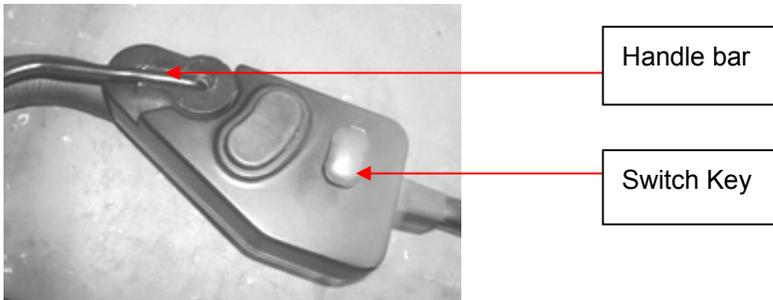


Figure18

2. Press the switch button at the side.

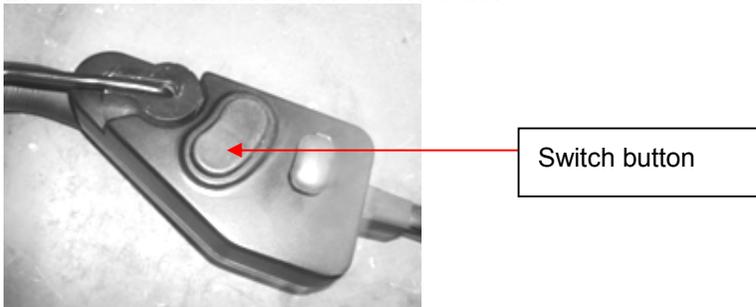


Figure19

3. Then pull the handle bar backward, and catch hold of the handle bar firmly with both hands and the machine is started. The machine can only be started with pressing the knob first and followed by squeezing handle bar backward. Reverse operation cannot start the machine.

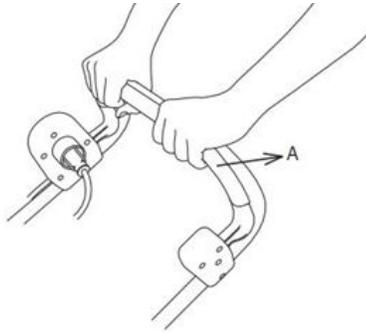


Figure 20

A-Handle bar

4. To power off, release your grip on the handle bar.

Moving the Machine and Plowing the Snow

 **WARNING** Foreign objects, such as rocks, broken glass, nails, wire, or string, can be picked up and thrown by the snow thrower, causing serious personal injury. Remove all foreign objects from the area to be plowed before operating the snow thrower.

1. Keep the area of operation free of foreign objects that can become thrown by the rotor blades. Perform a thorough inspection of the area since some objects may be hidden from view by surrounding snow. If the snow thrower hits an obstruction or picks up a foreign object during use, stop the snow thrower, disconnect the extension cord, remove the obstruction, and inspect the unit for damage. Repair or replace any damaged part before restarting and operating the unit.
2. Keep children, pets, and bystanders away from the area of operation. Be aware that the normal noise of the machine when turned on may make it difficult for you to hear approaching people.
3. When moving the snow thrower, use the wheels on one side as the pivot point. Slightly tilt the snow thrower on this pivot point to move it forward or backward.
4. Start your clearing path near the electrical outlet and work outward, throwing snow in a back and forth motion. To clear in the opposite direction, step over the cord and pivot the snow thrower on its wheels. Make sure to overlap clearing paths.
5. Note wind direction. If possible, move in the same direction as the wind so that the snow is not thrown against the wind (and thus back into your face and on the just cleared path).
6. While moving the snow thrower, do not drag the power cable violently or roughly. The snow thrower should move within the range that the cable can reach.
7. Do not push the snow thrower with excessive force. You should push the machine gently and evenly in accordance with the unit's throw rate.
8. Do not apply additional man-made load to the engine since this may cause engine damage.
9. Some parts of the snow thrower may freeze under extreme temperature conditions. Do not attempt to operate the snow thrower with frozen parts. If the parts freeze while the snow thrower is in use, stop the snow thrower, unplug the extension cord, and inspect for frozen parts. Free all parts before restarting or operating the snow thrower. Never force controls that have frozen.
10. Working on pebbles, gravel, or unpaved surfaces - To avoid throwing loose

surface material along with the snow, push down on the handle to raise the scraper at the base of the unit above the pebbles or gravel.

Changing Snow Exit Direction



WARNING: Never direct the snow discharge chute at the operator, at bystanders, at vehicles or at nearby windows. The discharged snow and foreign objects accidentally picked up by the snow thrower can cause serious damage and personal injury. Always orient the discharge chute in the opposite direction from where you, bystanders, surrounding vehicles, or windows are located

1. The discharge chute can be adjusted 180 degrees by rotating the chute crank. Rotate the chute control crank clockwise to move the discharge chute to the left; counterclockwise to move the chute to the right.

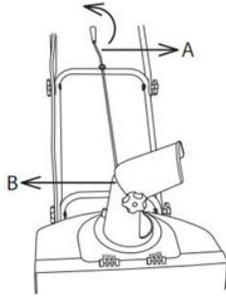


Figure 21

A – Chute crank

B – Discharge chute

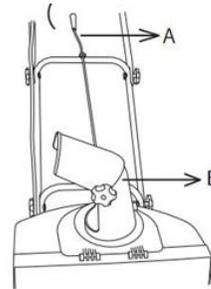


Figure 22

A – Chute crank

B – Discharge chute

2. The chute deflector on the top of the discharge chute controls the height of the snow stream. Loosen both chute deflector knobs to raise or lower the deflector to the desired height of snow you wish to throw. Tighten the knobs to secure the deflector.

Note: Do not over-tighten the chute deflector knobs.

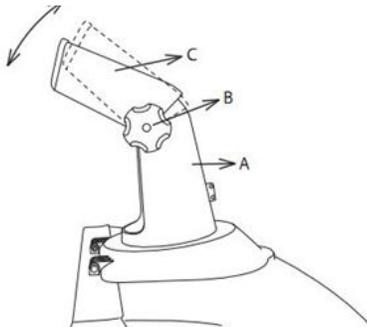


Figure 23

A – Discharge chute
B – Chute deflector knob

C – Chute deflector



WARNING: Make sure that the chute deflector snaps and locks completely onto the discharge chute. An opening between the discharge chute and the chute deflector may allow foreign objects to be picked up by the snow thrower and thrown in the direction of the operator causing serious injury. Do not advance the chute deflector too far forward causing an opening to appear between the deflector and discharge chute. Do not over-tighten the knobs on the chute deflector.

VI Maintenance



WARNING: Make sure to turn off the switch and disconnect the extension cord before performing any maintenance task on your snow thrower.

Lifetime Lubrication

Lubrication is not necessary and may damage the unit. The snow thrower is lubricated for lifetime use at the factory before shipment.

General Maintenance Tips

1. Do not attempt to repair the machine unless you have the proper tools and instructions for disassembly and repair of the machine.
2. Check the shear bolts and other bolts at frequent intervals for proper tightness to ensure that the equipment is in safe working condition.
3. After each snow removal session, run the snow thrower for a few minutes to prevent the collector/impeller from freezing. Shut off the motor, wait for all revolving parts to stop completely, and wipe residual ice and snow off the unit. Rotate the chute crank several times to remove any excess snow.

Replacing the Rubber Plates

Note: When replacing worn rubber plates, pay close attention to carefully distinguish between the coarse and smooth side of the plates. Place the coarse side inside and the smooth side outside.

1. Detach the worn rubber plate by removing the two sets of nuts, bolts, and washers used to secure it.
2. Install the new rubber plate so that the coarse side faces inward and the smooth side faces outward.
3. Insert the bolt with the small flat washer into the corresponding holes on each end of the rubber plate. Use the large flat washer and locknut to secure the bolt on each end. Install the other rubber plates in the same way.

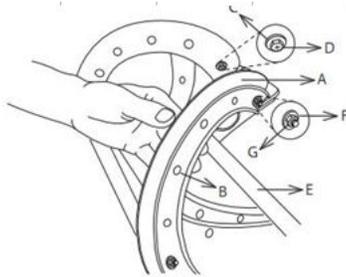


Figure 24

- | | |
|-----------------------|-----------------------|
| A - Rubber plate | E - Auger |
| B - Rivet | F - Large flat washer |
| C - Small flat washer | G - Locknut |
| D - Bolt | |

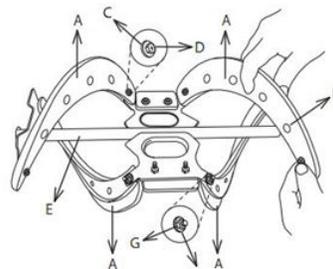


Figure 25

- | | |
|-----------------------|-----------------------|
| A - Rubber plate | E - Auger |
| B - Rivet | F - Large flat washer |
| C - Small flat washer | G - Locknut |
| D - Bolt | |

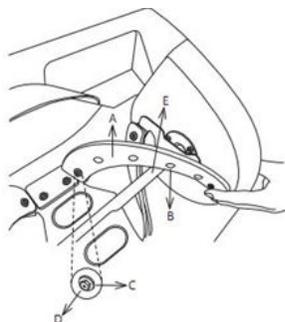


Figure 26

- | | |
|-----------------------|-----------|
| A - Rubber plate | D - Bolt |
| B - Rivet | E - Auger |
| C - Small flat washer | |

Replacing the Scraper

1. The scraper is located at the base of the snow thrower beneath the rotor housing.

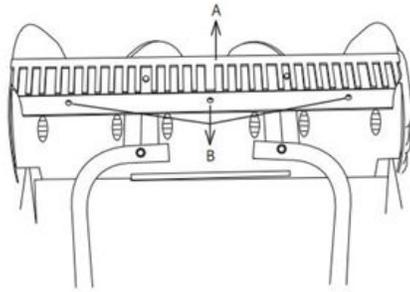


Figure 27

A - Scraper

B - Screw

2. Detach the worn scraper from the snow thrower by removing the 3 screws that hold it in place.

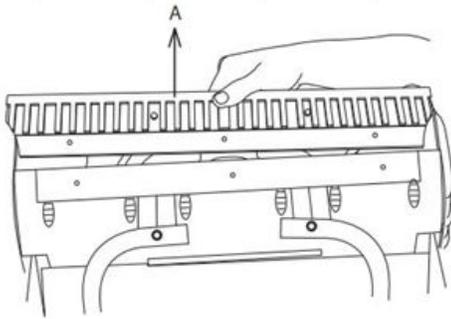


Figure 28

A - Scraper removal

3. Install the new scraper and fasten it securely to the snow thrower with 3 screws.

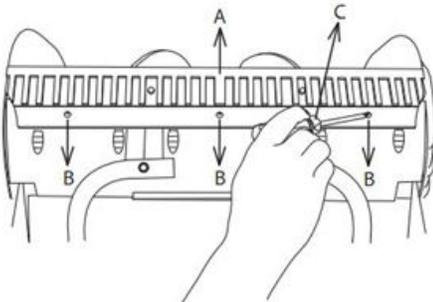


Figure 29

A - Scraper
B - Screw

C - Screwdriver

Replacing the Belt

Note: Determine the left and right hand sides of the snow thrower by standing

behind the unit in the normal operating position.

1. Remove the screws from the left panel of the snow thrower.
2. Lift the belt tension and roll the large belt off the big pulley.

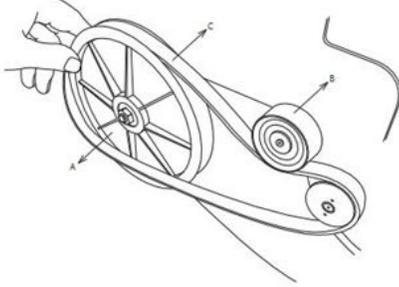


Figure 30

A - Big pulley
B - Belt tension
C - Large belt

3. Replace the large belt by following instructions in reverse order.

Storage

1. Allow the engine to cool and clean the snow thrower before storing or transporting. Be sure to secure the unit while transporting.
2. Disconnect the extension cord from the snow thrower.
3. Inspect the extension cord closely for signs of wear or damage. Replace it if it is worn or damaged.
4. Inspect the snow thrower carefully for worn, loose, or damaged parts. Check connections and screws and tighten if necessary.
5. Store the unit, along with the disconnected extension cord, in a locked, dry place out of the reach of children to prevent unauthorized use or damage. Cover loosely with a tarp for added protection.