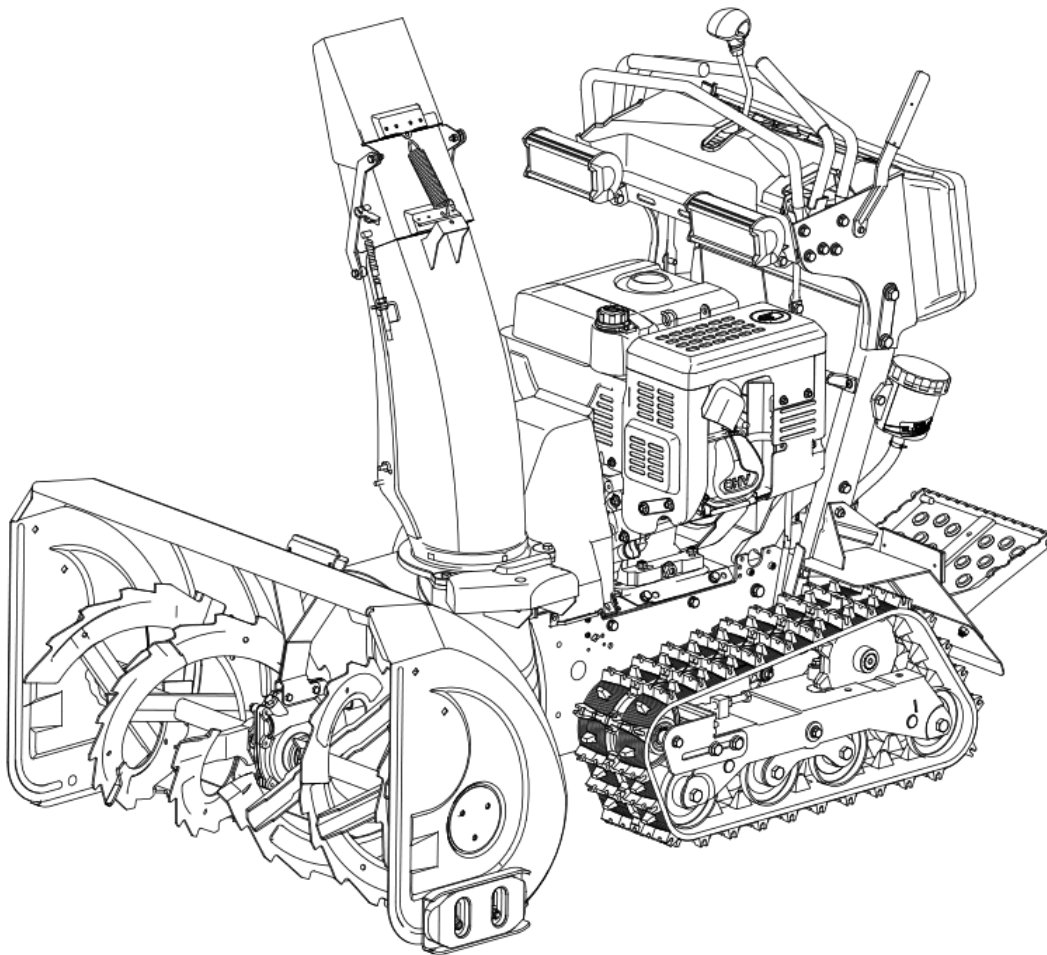
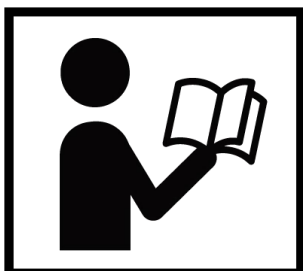


# 34" STAND ON DUAL STAGE SNOW THROWER 420CC ELECTRIC START



## ⚠ WARNING



- Please read and understand the product manual completely before assembly
  - Check against the parts list to make sure all parts are received
  - Wear proper safety goggles or other protective gears while in assembly
- Do not return the product to dealer. They are not equipped to handle your requests.

Missing parts or questions on assembly?

Please call: 1-877-761-2819 or email: [cs@tmgindustrial.com](mailto:cs@tmgindustrial.com)

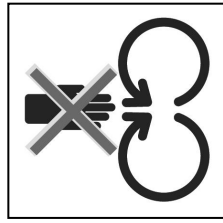
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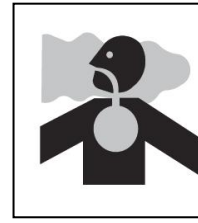
# HAZARD SYMBOLS AND MEANINGS



Rotating Impeller



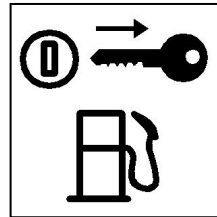
Rotating Parts



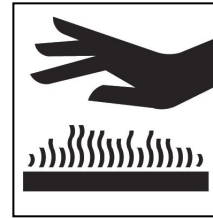
Toxic Fumes



Fire



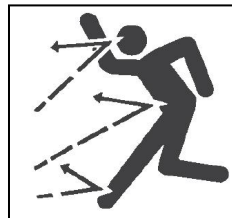
Fuel shutoff



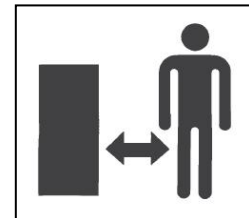
Hot surface



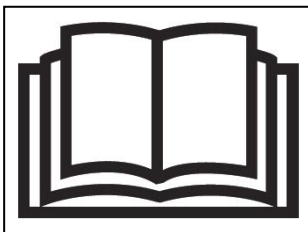
Rotating Auger  
Protection



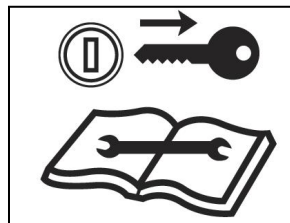
Thrown Objects  
Protection



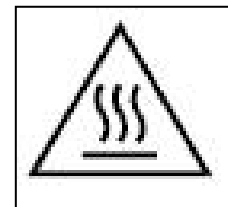
Safe Distance



Read the operator's  
manual for operating and  
safety instructions



Shut off engine and remove  
key before performing  
maintenance or repair work



WARNING: Hot Surface,  
Do not touch!



Wear eye



Wear ear



Wear gloves



**Auger Danger Decal**



**Warning Description**



**Chute Danger Decal**



# SAFE OPERATION PRACTICES



**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 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.



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



**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.

## IMPORTANT

### Safe Operation Practices for Stand on Snow Throwers

This stand on snow thrower is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury.

### Training

1. Read, understand, and follow all instructions on the machine and in the manual(s) before attempting to assemble and operate this unit. 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 instruction and safety rules in this manual and should be trained and supervised by 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 the equipment without wearing adequate winter garments. Avoid loose fitting clothing that can get caught in moving parts. 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 clutches and shift into neutral 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. Fill fuel tank outdoors with extreme care. Never fill fuel tank 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 1/2 inch below bottom of filler neck to provide space for fuel expansion.
  - g. Never fill containers inside a vehicle or on a truck or trailer bed with a plastic liner. Always place containers on the ground, away from your vehicle, before filling.
  - h. When practical, remove gas-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment on a trailer with a portable container, rather than from a gasoline dispenser nozzle.
  - i. Keep the nozzle in contact with the rim of the fuel tank or container opening at all times, until refueling is complete. Do not use a nozzle lock-open device.
  - j. Replace gasoline cap and tighten securely.
  - k. If gasoline is spilled, wipe it off the engine and equipment. Move machine to another area. Wait 5minutes before starting the engine.
  - l. 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.)
  - m. Allow machine to cool at least 5 minutes before storing.
  - n. If fuel is spilled on clothing, change clothing immediately.
10. 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. Keep clear of the discharge opening at all times.
11. After striking a foreign object, stop the engine (motor), remove the wire from the spark plug, disconnect the cord on electric motors, thoroughly inspect the snow thrower for any damage, and repair the damage before restarting and operating the snow thrower.
12. Stop the engine (motor) whenever you leave the operating position, before unclogging the collector/impeller housing or discharge chute, and when making any repairs, adjustments or inspections.

13. When cleaning, repairing or inspecting the snow thrower, stop the engine and make certain the collector/impeller and all moving parts have stopped. Disconnect the spark plug wire and keep the wire away from the plug to prevent someone from accidentally starting the engine
14. The auger/impeller control lever is a safety device. Never bypass its operation. Doing so makes the machine unsafe and may cause personal injury.
15. The control levers must operate easily in both directions and automatically return to the disengaged position when released.
16. Never operate the snow thrower without proper guards, and other safety protective devices in place and working.
17. Never run an engine indoors or in a poorly ventilated area. Engine exhaust contains carbon monoxide, an odorless and deadly gas.
18. Do not operate machine while under the influence of alcohol or drugs.
19. Exercise extreme caution when operating on or crossing gravel surfaces. Stay alert for hidden hazards or traffic.
20. Exercise caution when changing direction and while operating on slopes.
21. Plan your snow-throwing pattern to avoid discharging towards windows, walls, cars etc. Thus, avoiding possible property damage or personal injury caused by a ricochet.
22. Never direct the discharge toward people or areas where property damage can occur. Keep children and others away.
23. Do not overload machine capacity by attempting to clear snow at too fast of a rate.
24. 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.
25. Disengage power to the auger/impeller when transporting or not in use.
26. Never operate machine at high transport speeds on slippery surfaces. Look down and behind and use care when backing up.
27. If the machines 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.
28. 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.
29. 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.
30. Use only attachments and accessories approved by the manufacturer (e.g. wheel weights, tire chins, cabs etc.).
31. Never touch a hot engine or muffler
32. If situations occur which are not covered in this manual, use care and good judgment. Contact your Service Center for assistance.

## Clearing a Clogged Discharge Chute

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

To clear the chute:

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

## Maintenance & Storage

1. Never tamper with safety devices. Check their proper operation regularly. Refer to the maintenance and adjustment sections of this manual.
2. Before cleaning, repairing, or inspecting machine disengage all control levers and stop the engine. Wait until the auger/impeller come to a complete stop. Disconnect the spark plug wire and ground against the engine to prevent unintended starting.
3. Check bolts and screws for proper tightness at frequent intervals to keep the machine in safe working condition. Also, visually inspect machine for any damage.
4. Do not change the engine governor setting or over-speed the engine.
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 section in this operator's manual for instructions.
7. Maintain or replace safety and instruction labels, as necessary.
8. Never store the machine with fuel in the fuel tank inside a building where ignition sources are present such as hot water heaters, space heaters, or clothes dryers. Allow the engine to cool before storing in any enclosure.
9. Observe proper disposal laws and regulations for gas, oil, etc. to protect the environment.
10. Prior to storing, run machine a few minutes to clear snow from machine and prevent freeze up of auger/impeller.
11. 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.
12. Always refer to the operator's manual for proper instructions on off-season storage.
13. If you need to change the belts, please contact the distributor or local agent. Do not change them by yourself.



## 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.



### Residual risks

**Even when the machine is used as prescribed it is not possible to eliminate all residual risk factors. The following hazards may arise in connection with the machine's construction and design:**

- Damage to lungs if an effective dust mask is not worn.
- Damage to hearing if effective hearing protection is not worn.
- Damages to health resulting from vibration emission if the machine is being used over longer period of time or not adequately managed and properly maintained.



**WARNING!** This machine produces an electromagnetic field during operation. This field may under some circumstances interfere with active or passive medical implants. To reduce the risk of serious or fatal injury, we recommend persons with medical implants to consult their physician and the medical implant manufacturer before operating this machine.

The declared vibration total value has been measured in accordance with a standard test method and may be used for comparing one tool with another.

The declared vibration total value may also be used in a preliminary assessment of exposure.

**WARNING!** The vibration emission during actual use of the power tool can differ from the declared total value depending on the ways in which the tool is used.

There is the need to identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

# CONTROLS AND FEATURES



1. Snow chute
2. Gear box
3. Auger
4. Housing
5. Skid shoes
6. Track
7. LED Light



- A. Parking Brake Lever
- B. Left Control Lever
- C. Auger Control Lever
- D. Right Control Lever
- E. Housing Height Control Button
- F. Chute Direction Control Button
- G. Deflector Angle Control Button
- H. Light Control Button
- I. Ignition / Key Switch

# OPERATING CONTROLS



**WARNING:** The machine is sent in fully assembled status. Before you operate the machine, allow adequate time to fully understand the controls and operation of the equipment. When reading this guide, it's recommended that you do so with the equipment nearby for quick orientation, to reference the controls.

## OPERATING CONTROLS



- A. Parking Brake Lever
- B. Left Control Lever
- C. Auger Control Lever
- D. Right Control Lever
- E. Housing Height Control Button
- F. Chute Direction Control Button
- G. Deflector Angle Control Button
- H. Light Control Button
- I. Ignition / Key Switch

# ASSEMBLY

The machine is packed almost completely. You only need to install the battery to install the battery

- 1) Remove the battery cover by screwing out the wing nuts in the following pic.



- 2) Connect the red cable to positive pole "+", while black cable to negative pole "-".



- 3) Put the battery cover back, and fix it tight with the silver rod.



# OPERATING SNOW THROWER

## PART ONE: START AND STOP THE MACHINE

### A. Start the machine ((Make Sure Battery Is Fully Charged))



**DANGER:** Do not operate the engine in a confined space where dangerous carbon monoxide fumes can be collected. Carbon monoxide is odorless, tasteless, and can be fatal.

**NOTE:** this unit was shipped without gas and oil. Be sure to add fresh gas and oil before attempting to start the snow blower.

1. Pull the parking lever to the "ON" position.



2. Put key inside, turn the oil switch on, turn choke knob on choke, press the primer for 3 times when cold start. Then start the engine by start key.



3. For Electric Start, turn the key clockwise to the "Start" position. Once started, the key will return to the "Run" position.

4. **NOTE:** Do not keep the key in the "Start" position more than a few seconds. If the engine does not start, wait 15 seconds before trying again.

5. For Pull Start, turn the key clockwise to the "Run" position.

6. Test the pull start cord by slowly pulling it until just past compression. Stop and return the start cord, and then pull firmly with a smooth, steady motion to start the engine.

7. Once the engine is running, slowly move the throttle control out of the "Choke" position to the desired engine speed.

## B. Stop the machine

There are several ways to stop the machine:

1. When people is not standing on the machine, pull out the key on the engine directly.



2. When you stand on the machine and operate it, following steps will stop the machine automatically:

- a) Push the parking lever to "OFF" position.



- b) Gently release the left and right control levers to their neutral, with left control in "UP" position.



- c) When the machine stops, pull the Parking Lever to "ON" position.

**NOTE:** Park the machine on level ground. If it's not possible to do so, be sure to block the wheels to prevent the machine from rolling away.

## PART TWO: TO OPERATE THE MACHINE

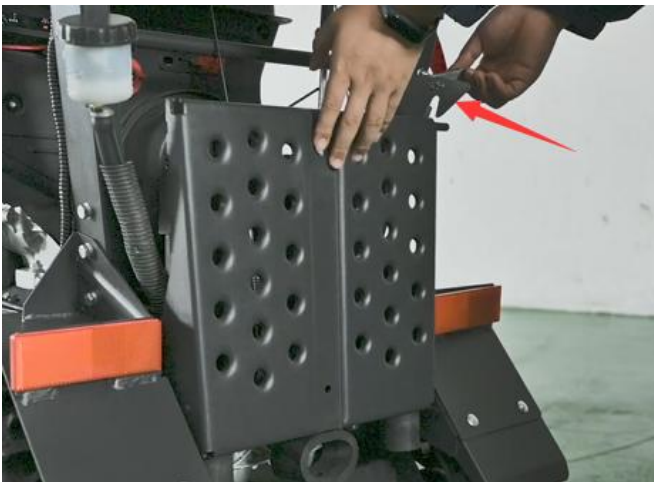


**CAUTION:** Become completely familiar with the operation characteristics of the snow thrower before attempting to use it.

**NOTE:** When the temperature is lower than  $-10^{\circ}\text{C}$ , operate the machine after 5-10 minutes of engine running, to allow the hydraulic system have suitable temperature inside for operation.

**NOTE:** Do not stop or start suddenly when going uphill. It's recommended to use in area with gradient less than  $10^{\circ}$ .

1. Start the machine as introduced. Leave the engine running for around 5-10 minutes if the outer temperature is lower than  $-10^{\circ}\text{C}$ .
2. Take the stand board down by pulling up the parts with red arrow mark, and step on it. Suggest making operation by stand on the board. When making reverse operation without standing on the board, please take care of the distance between the feet and rubber wheels.



3. Press the Left Control Lever down out of the neutral lock position. Push the Parking Brake Lever to "OFF" position.



#### 4. Moving the machine forward

Gently push the controls forward. Push the Left and Right Control Levers away from you an equal amount to go straight. It is recommended you start slow and increase your speed as you increase your comfort with the controls.



#### 5. Moving the machine in reverse

Slowly and evenly pull the Left and Right Control Levers towards you. The more the Control Levers are pulled towards you, the faster you will move. It is recommended to move in reverse slowly.

**NOTE:** When moving in reverse, be aware of your surroundings by looking down and behind.



6. Allow the Left and Right Control Levers to return to a center neutral position allows the machine to stop moving.



7. **NOTE:** if the operator lets go of the Left Control Lever while the augers are engaged and/or the machine is moving, the safety interlock system will stop the engine. To restart the machine, reset the Parking Brake Lever to the "ON" position.



**NOTE:** Top speed is suggested only for transport.

#### 8. Stopping the machine

Gently let the Left and Right Control Levers return to their neutral, at rest position. If the operator is leaving the operator position for any reason, shut off the engine, engage the parking brake, and remove the key.



#### 9. Throwing snow



**DANGER:** Thoroughly inspect the area where the machine is to be used. Look for items such as stones, sticks, wire, and other foreign objects. When struck by the machine, these and other objects may become projectiles that could lead to serious injury and/or death. Clear area of all debris and keep people and pets away.

For the highest quality of performance, throwing snow with engine at full throttle. Quality of snow throwing may be determined by the ground and speed of the machine. Generally, the slower the machine travels across the terrain, the better the snow removing.

- a) With the engine running and the machine placed at the beginning of the area to be cleaned, make sure the Left Control Lever is down, and out of the neutral lock position.
- b) Push the Auger Control Lever forward to engage the auger.
- c) To disengage auger, come to a complete stop and pull the Auger Control Lever backward to release the auger.

**NOTE:** If the operator lets go of the Left Control Lever while the augers are engaged and/or the machine is moving, the safety interlock system will stop the engine. To restart the machine, reset the Parking Brake Lever to the "ON" position.



#### 10. Auger height control

Control the auger height up and down by pushing the but button.



## 11. ZERO-TURN hydrostatic drive

Left Zero turn by hole the handles as the following pic shows.



Right Zero turn by hole the handles as the following pic shows.



## CLEARING MACHINE

Clean the machine after use. Compressed air is recommended. Do not use a pressure washer. The machine will run cooler and last longer if kept free of clippings and other debris. A clean machine also reduces the risk of fire due to accumulation of combustible debris and chaff. Brush or blow clippings and debris off the cutter-deck and engine deck. Clippings and debris should be kept from accumulating around the exhaust system and under the exhaust guards. This can be done by using compressed air. DO NOT use a pressure washer.

## WASHING MACHINE

**CAUTION:** Improperly washing a machine can cause water to enter bearings and other components. This can greatly reduce component life

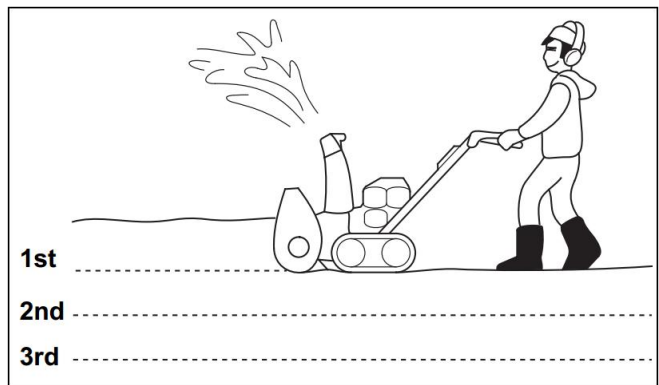
1. Do not use a pressure washer. Do not direct water at bearings or seals. High pressure bearings.
2. Allow the machine to cool down before washing. Water on a warm machine can be sucked into sealed bearings as they cool.
3. Avoid getting electrical connections wet. Water can cause electrical faults and corrosion of electrical components.

### Snow-clearing tips

For best efficiency, clear snow before it hardens and turns to ice. Do not reduce engine speed while clearing snow.

Operating tips for clearing hard or deep snow:

- Reduce forward speed. If this is not sufficient, use the shift lever to clear snow with a back and forth motion.
- Clear a narrower swath. Make several passes with the auger overlapping the cleared areas.
- If the snow is deeper than the height of the auger, remove it in several steps, as shown below.



### Snow Clearing Tool

The chute snow clearing tool is conveniently fastened to the rear of the auger housing with a holder. Should snow and ice become clogged in the chute assembly during operation, proceed as follows to safely clean the chute assembly and chute opening.

1. Release both the Auger Control and the Drive Control.
2. Stop the engine by removing the ignition key.
3. Before removing obstruction, be sure to stop the engine and ensure all rotating parts have come to a complete stop. Remove the spark plug cap from the spark plug.
4. Remove the snow clearing tool from the clip which secures it to the rear of the auger housing. .

### **WARNING**

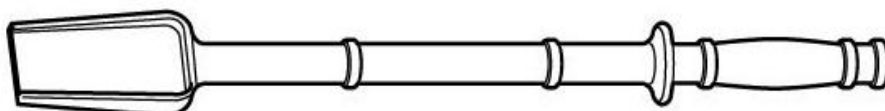
The muffler, engine and surrounding areas become hot and can cause a burn. DO not touch.

An obstructed auger or blower could suddenly move when the obstruction is cleared.

Sudden auger or blower movement can cause severe injury if your hands are being used to clear the area.

Never clear the discharge chute or auger area with your hands, and always stop the engine, remove the spark plug cap, and clear obstructions with the snow clearing tool.

5. Use the shovel-shaped end of the snow clearing tool to dislodge and scoop any snow and ice which has formed in and near the chute assembly.
6. After unclogging, wipe the tool clean, and secure it to the holder on the rear of the auger housing, reinsert the ignition key and start the snow thrower's engine.
7. While standing in the operator's position (behind the snow thrower), engage the auger control for a few seconds to clear any remaining snow and ice from the chute assembly.



## MAINTENANCE SCHEDULE

Service Performed		Each use	Every year		First Month or 20 hours	Every 100 hours	Every 300 Hours	Every 4 years
			Before Operation	Before Storage				
Engine Oil	Check level	●						
	Change		● (4)		●	● (4)		
Spark plug	Check-adjust		● (4)					
	Replace						●	●
Auger skid shoes and scraper	Check-adjust	●	● (4)					
Track	Check-adjust		● (4)		●			
Wheel	Check condition and tire pressure	●		●				
Auger and blower shear bolts	Check	●						
Bolts, nuts, fasteners	Check	●						
Chute guide control cable	Check-adjust		● (2) (4)		● (2) (4)			
Auger clutch cable	Check-adjust		● (2) (4)		● (2) (4)			
Drive clutch cable	Check-adjust		● (2) (4)		● (2) (4)			
Height adjusting lever	Check movement		● (2) (4)					
Auger belt	Check-adjust		● (2) (3) (4)		● (2) (3) (4)			
Drive belt	Check-adjust		● (2) (3) (4)		● (2) (3) (4)			
Battery	Check voltage	Charge if voltage is less than 12.9V.						
	Charge		●	●				

- (1) For professional commercial use, log hours of operation to determine proper maintenance intervals.
- (2) These items should be serviced by your dealer, unless you have the proper tools and are mechanically proficient.
- (3) Check the belt for wear or damage. Replace the belt with a new one if it is worn or damaged.
- (4) These parts may require more frequent inspection and replacement under heavy use.
- Failure to follow this maintenance schedule could result in non-warrantable failures.

# MAINTENANCE

## Auger and Blower Inspection

Check the auger, auger housing, blower, and shear bolts for signs of damage or other faults. If any of the shear bolts are broken, replace them with the ones furnished with the snow blower. Additional shear bolts and nuts are available from dealers.

NOTE: Shear bolts are designed to break under force that would otherwise damage auger and blower parts. Do not replace shear bolts with ordinary hardware bolts.

## Shear Bolt Replacement

Always use correctly sized replacement shear bolts. Use of bolts other than correctly sized shear bolts can cause damage to your snow blower. (Figure 1)

1. Place the snow blower on a firm, level surface.
2. Turn the engine switch to the OFF position, and remove the cap from the spark plug.
3. Clean the auger and blower of snow, ice, or any other foreign particles by snow clearing tool.
4. Check the entire snow clearing mechanism.
5. Replace any broken shear bolts. Tighten securely.

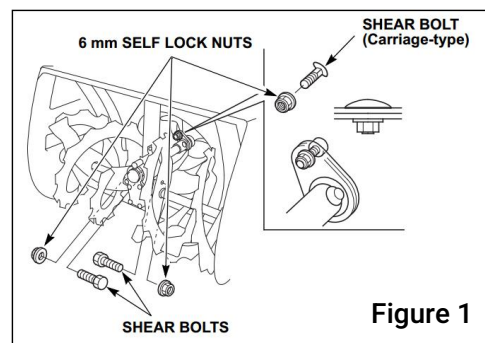


Figure 1

## Skid Shoes and Scraper

Turn the engine switch to the OFF position and disconnect the spark plug cap so the engine can not be accidentally started while you are near the auger.

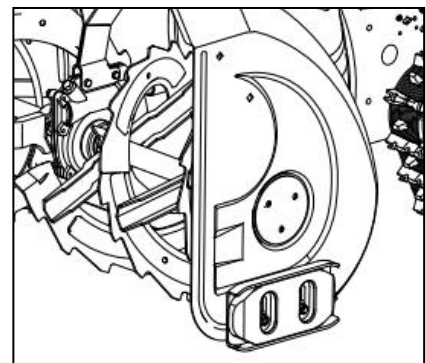
The skid shoes are installed by the side of the auger housing.

## Wear Inspection

1. Raise the auger housing off the ground.
2. Measure the thickness of the right and left skid shoes at their thinnest point.
3. Replace the skid shoe if the thickness is less than 0.02 in (0.5mm).

## Adjustment

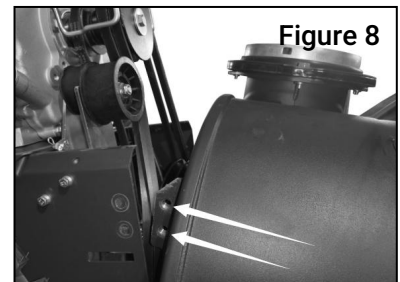
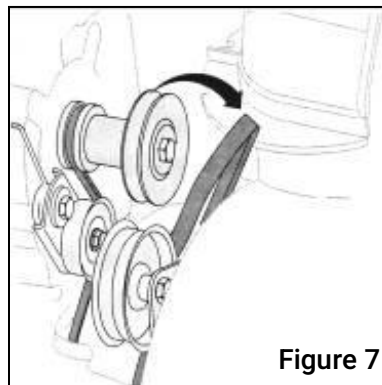
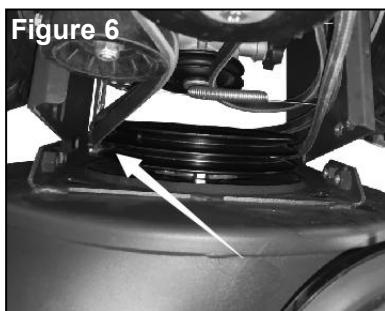
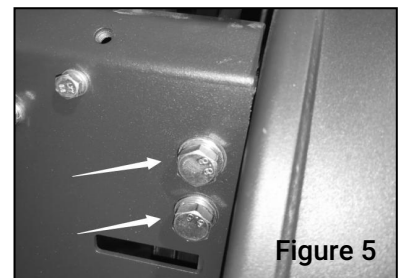
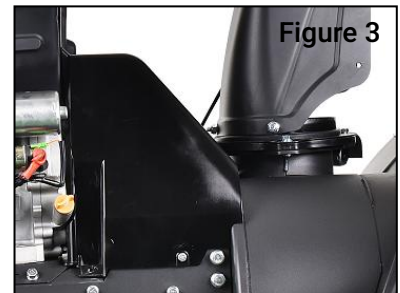
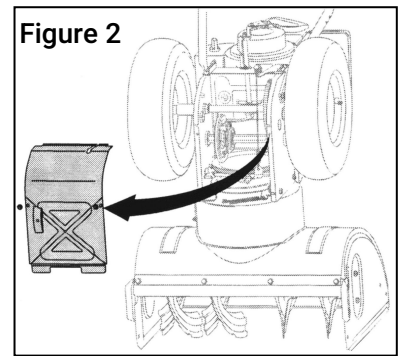
1. Place the snow blower on a level surface.
2. Depress the auger height adjusting lever, push down on the handlebars to raise the auger off the ground and then slowly lower the auger until the skid shoes contact the ground.
3. Loosen the skid shoe bolts and adjust the skid shoes to obtain the auger ground clearance for snow conditions recommended. Adjust the right and left skid shoes equally. Re-tighten the bolts.



## Auger Belt Replacement

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

1. Drain gasoline from the snow thrower before replace.
2. Remove the bottom cover from the underside of the snow thrower by removing two self-tapping screws which secure it. See Figure 2.
3. Remove the belt cover in the front of the engine by removing four self-tapping screws. See Figure 3.
4. Remove belt rod by removing two screws. See Figure 4.
5. Loosen the screw fixing transmission box & housing. Press the handle down to separate the transmission box & housing a little. See Figure 5 & 6.
6. Roll the auger belts off the engine pulley and take them out from belt pulley. See Figure 7.
7. Take new belts and put them into belt pulley first. See Figure 8.
8. Press the auger control lever, and push the transmission to fix with housing, then screw them back.
9. Pull the belts to the engine pulley in position.
10. Assemble the belt rod back. Adjust the belt rod position. Make sure the belts touch belt rod while stand by, and do not touch belt rod while auger control lever is applied.
11. Run the machine to check belt tension, and adjust cables to make sure the belt is in proper tension.
12. Finally assemble the belt cover & bottom cover.



## Drive Belt Replacement

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

1. Drain gasoline from the snow thrower before replace.
2. Remove the belt cover in the front of the engine by removing four self-tapping screws. See Figure 9.
3. Remove belt rod by removing two screws. See Figure 10.
4. Roll the auger belts off the engine pulley only. Then roll the drive belt off the engine pulley. See Figure 11.
5. Carefully pivot the snow thrower up and forward so that it rests on the auger housing. Remove the bottom cover from the underside of the snow thrower by removing two self-tapping screws which secure it. See Figure 12.
6. Press the drive control lever to release the brake on the belt, then pull the drive belt out from belt pulley, and take it out. See Figure 13.
7. Take new belt and put it into engine pulley first.
8. Slip the drive belt back to belt pulley. See Figure 13.
9. Install the bottom cover. And carefully place the machine in flat.
13. Pull the auger belts to the engine pulley in position.
14. Assemble the belt rod back. Adjust the belt rod position. Make sure the belts touch belt rod while stand by, and do not touch belt rod while auger control lever is applied.
15. Run the machine to check belt tension, and adjust cables to make sure the belt is in proper tension.
16. Finally assemble the belt cover.

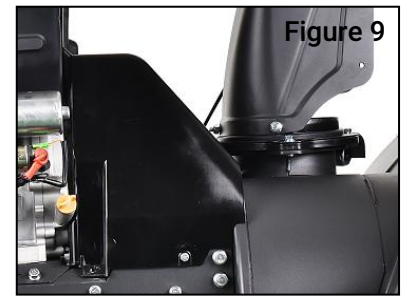


Figure 9

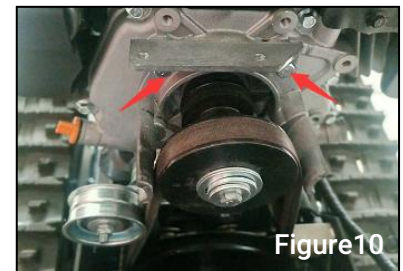


Figure 10

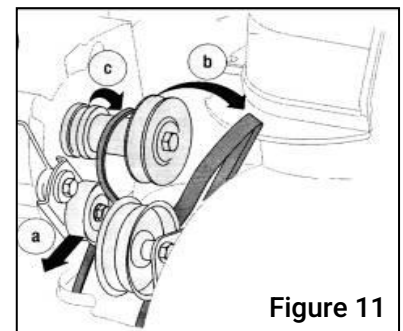


Figure 11

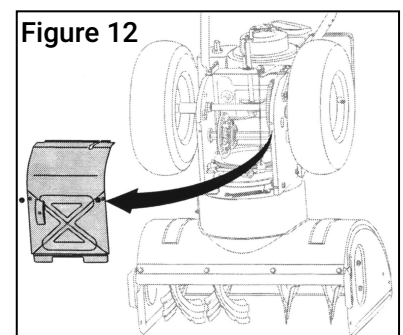


Figure 12

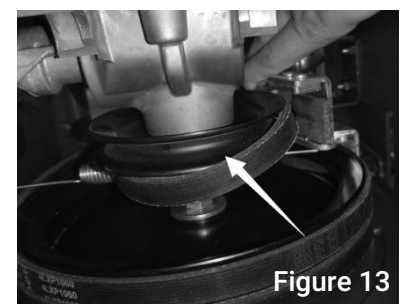


Figure 13



## Gear Case

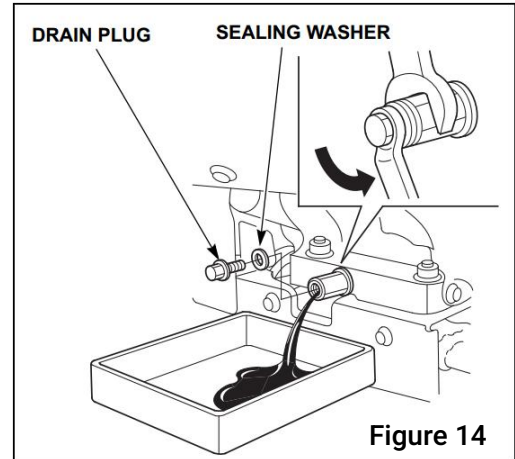
The auger gear case has been filled with grease and sealed at the factory. If disassembled from any reason, lubricate with two ounces of new grease.

**NOTE:** Do not over fill the gear case. Damage to the seals could result. Be sure the vent plug is free of grease in order to relieve pressure.

## Engine Oil Change

Drain the oil while the engine is still warm to ensure rapid and complete draining.

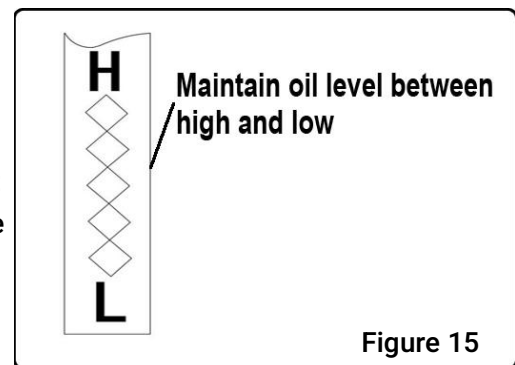
1. Place the snow blower on a level surface.
2. Place a suitable container below the engine (right side) to catch the used oil, then remove the oil filler cap and the drain plug. (Figure 14)
3. To avoid loosening the drain plug extension, hold it with a 17mm wrench while loosening the drain plug with a 10mm wrench.
4. Allow the used oil to drain completely into an approved container, reinstall the drain plug with a new sealing washer, and then tighten it securely.



### NOTE:

Improper disposal of engine oil can be harmful to the environment. If you change your own oil, please dispose of used motor oil properly. Put it in a sealed container and take it to a recycling center. Do not throw it in the trash, pour it on the ground, or pour it down a drain.

5. With the engine in a level position, fill to the upper limit on the dipstick with the recommended oil (shown below). Do not thread the dipstick in when checking the oil level. Do not overfill. (Figure 15)



6. Maximum oil capacity: 1.1L

**NOTE:** Running the engine with a low oil level can cause engine damage. This type of damage is not covered by warranty.

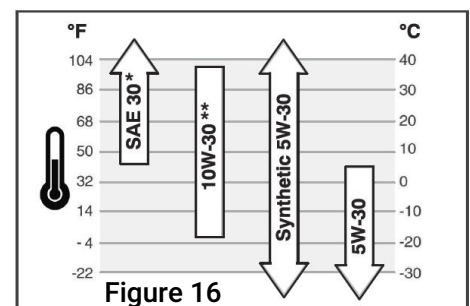
7. Reinstall the oil filler cap securely.

## Engine Oil Recommendation

Oil is a major factor affecting performance and service life. Use a 4-stroke automotive detergent oil. (Figure 16)

SAE 5W-30 is recommended for general use.

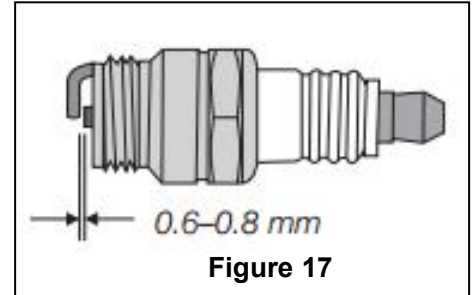
The SAE oil viscosity and service classification are on the API label on the oil container. It's recommended that you use API SERVICE category SJ or later (or equivalent) oil.



## Spark Plug

To ensure proper engine operation, the spark plug must be properly gapped and free of deposits. If the engine has been running, the muffler will be very hot. Be careful not to touch the muffler.

1. Remove the spark plug cap. (Figure 17)
2. Clean any dirt from around the spark plug base.
3. Use the spark plug wrench supplied in the tool kit to remove the spark plug.
4. Inspect the spark plug. Replace it if the electrodes are worn or if the insulator is cracked, chipped or fouled.
5. Measure the plug gap with a wire-type feeler gauge. Adjust as necessary by carefully bending the side electrode.
6. Make sure that the spark plug sealing washer is in good condition, and thread the spark plug in by hand to prevent cross-threading.
7. After the spark plug is seated, tighten with a spark plug wrench to compress the washer.
8. IF you don't have a torque wrench, install a new spark plug and tighten 1/2 turn after the spark plug seats to compress the washer. If reinstalling a used spark plug, tighten 1/8 to 1/4 turn after the spark plug seats.  
**NOTE:** The spark plug must be securely tightened. An improperly tightened spark plug can become very hot and may damage the engine.
9. Use only the required spark plug or equivalent. Spark plugs which have an improper heat range may cause engine damage. Allow the engine to cool down before removing the spark plug to avoid damage to the spark plug threads in the cylinder head.



## Engine Speed



**WARNING:** Avoid serious injury or death, DO NOT modify engine in any way, Tampering with the governor setting can cause the engine and equipment to operate at unsafe speeds. NEVER tamper with factory setting of engine governor. Running the engine faster than the speed set at the factory is dangerous.

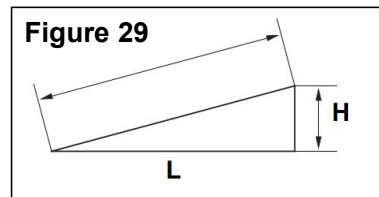
# TRANSPORTING

## TRANSPORTING THE MACHINE

### Before Loading

1. Loading the snow blower on a trailer should be performed on a firm, level surface.
2. Use a loading ramp that is strong enough to support the combined weight of the snow blower and the operator.
3. The loading ramp must be long enough so that its slope is  $15^\circ$  (27%) or less. (Figure 29)

Length of Ramp (L)	8.2 ft (2.5 m)	9.8 ft (3.0 m)	11.5 ft (3.5 m)
Height (H)	2.1 ft (65 cm)	2.5 ft (75 cm)	3.0 ft (90 cm)



4. If the truck bed has a low roof or cover less than 5 ft (1.5 m) of headroom, lower the discharge deflector for better clearance or remove the discharge chute assembly.
5. Ensure there is sufficient fuel in the tank. The engine may stall on the ramp if there is not enough fuel in the tank.

### Loading

When transporting the machine, it's recommended to move the housing upward to decrease the friction with ground

1. Raise the auger to the high position.
2. Start the engine and maneuver the snow blower forward in line with the loading ramp.
3. Run the snow blower up the loading ramp.
4. Be careful to avoid striking the discharge chute or other parts of the machine.
5. After the snow blower is in the truck, stop the engine, and turn the fuel valve to the OFF position. This will prevent the possibility of the carburetor flooding and will reduce the possibility of fuel leakage.
6. Tie the snow blower down with rope or straps, and block the treads. Keep the tie-down rope or straps away from controls and cables.
7. Lower the auger housing so the skids rests on the vehicle floor.
8. Do not tie with rope or straps stronger than necessary to prevent damage to the snow blower.



# STORAGE

## Storage Preparation

Proper storage preparation is essential for keeping your snow blower trouble-free and looking good. The following steps will help to keep rust and corrosion from impairing your snow blower's function and appearance, and will make the engine easier to start when you use the snow blower again.

## Cleaning

1. Rinse the auger housing and wheels (or tracks) with a garden hose. Wipe the rest of the snow blower with a moist rag.
2. After the snow blower has dried, touch up any damaged paint.
3. Follow lubrication recommendations in the Maintenance section of this manual.

## Fuel

**NOTE:** Depending on the region where you operate your equipment, fuel formulations may deteriorate and oxidize rapidly. Fuel deterioration and oxidation can occur in as little as 30 days and may cause damage to the carburetor and/or fuel system. Please check with your servicing dealer for local storage recommendations. Gasoline will oxidize and deteriorate in storage. Old gasoline will cause hard starting, and it leaves gum deposits that clog the fuel system. If the gasoline in your snow blower deteriorates during storage, you may need to have the carburetor and other fuel system components serviced or replaced.

The length of time that gasoline can be left in your fuel tank and carburetor without causing functional problems will vary with such factors as gasoline blend, your storage temperatures, and whether the fuel tank is partially or completely filled. The air in a partially filled fuel tank promotes fuel deterioration. Very warm storage/temperature accelerate fuel deterioration. Fuel deterioration problems may occur within a few months, or even less if the gasoline was not fresh when you filled the fuel tank.

The Warranty does not cover fuel system damage or engine performance problems resulting from neglected storage preparation.

You can extend fuel storage life by adding a fuel stabilizer that is formulated for that purpose, or you can avoid fuel deterioration problems by draining the fuel tank and carburetor.

### Adding a Fuel Stabilizer to Extend Fuel Storage Life

When adding a fuel stabilizer, fill the fuel tank with fresh gasoline. If only partially filled, air in the tank will promote fuel deterioration during storage. If you keep a container of gasoline for refueling, be sure that it contains only fresh gasoline.

Add fuel stabilizer following the manufacturer's instructions.

After adding a fuel stabilizer, run the engine outdoors for 10 minutes to be sure that treated gasoline has replaced the untreated gasoline in the carburetor.

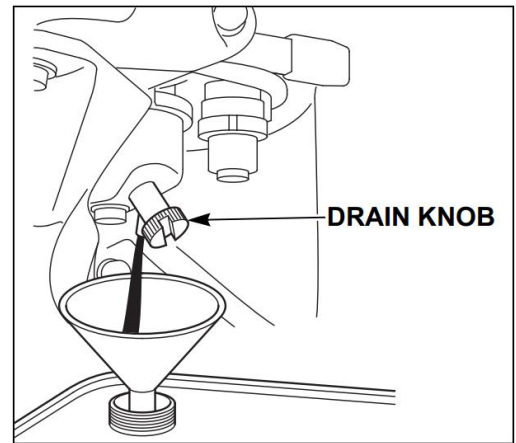
Service according to the table below:

Storage time	Recommended Service Procedure to Prevent Hard Starting
Less than 1 month	Fill with fresh gasoline to prevent moisture buildup.
1 to 3 months	Fill with fresh gasoline and add gasoline stabilizer according to the manufacturer's instructions. With the fuel valve in the OFF position, drain the carburetor (below).
More than 3 months	Drain the fuel tank and carburetor (below).

### Draining the Fuel Tank and Carburetor

1. Place an approved gasoline container below the carburetor, and use a funnel to avoid spilling fuel.
2. Turn the fuel valve to the OFF position.
3. Loosen the carburetor drain knob to drain the carburetor. To drain the fuel tank, move the fuel valve lever to the ON position. Drain the carburetor until the fuel tank is empty.

**NOTE:** Tires and tracks will be damaged if they come in contact with gasoline. If gasoline spills over these components, wash them with soap and water and rinse thoroughly.



#### **WARNING:**

Gasoline is highly flammable and explosive. You can be burned or seriously injured when handling fuel.

- Keep heat, sparks, and flame away.
  - Stop the engine and let it cool before refueling.
  - Refuel only outdoors.
  - Wipe up spills immediately.
4. After draining, tighten the drain knob and turn the fuel valve to the OFF position.
  5. Remove the fuel sediment cup. Do not remove the O-ring. Confirm the O-ring is properly positioned and in good condition. Contact your authorized dealer if the O-ring needs to be replaced.
  6. Empty the contents of the sediments cup into a suitable container. Clean the fuel sediment cup.
  7. Reinstall the sediment cup and tighten securely.

### Engine Oil

1. Change the engine oil.
2. Remove the spark plug.
3. Pour a teaspoon (5cc) of clean engine oil into the cylinder.
4. Pull the starter rope slowly several times to distribute the oil.
5. Reinstall the spark plug.
6. Pull the starter grip slowly until you feel resistance, then return the starter grip gently. This will close the valves so moisture cannot enter the engine cylinder.

### Battery Service

If the snow blower will be stored for an extended period, remove the battery and store in a cool, dry place. Recharge the battery every 6 months or if the voltage is less than 12.9V. Recharge every year before operation and before storage.

### Battery Removal / Charging / Installation

A commercially available 12 volt battery charger should be used that can be adjusted to deliver 2 amps or less. An automatic battery charger is recommended.

1. Remove the battery cover by first unscrewing the two wing nuts from the bottom. Pull the cover upward.
2. Remove the negative (-) cable from the battery negative (-) terminal and then remove the positive (+) cable from the battery positive (+) terminal.
3. Connect the battery charger positive (+) cable to the battery positive (+) terminal and then connect the battery charger negative (-) cable to the battery negative (-) terminal.
4. Charge the battery for 5-10 hours at 1.4 A.

5. Install the battery in the reverse order of removal.
6. Install the battery cover by aligning the rod with wing nuts.



This symbol on the battery means that this product must not be treated as household waste.

**NOTE:**

An improperly disposed of battery can be harmful to the environment and human health. Always confirm local regulations for battery disposal.

### Fuse Replacement

Open the fuse holder cover and pull the fuse out. If blown, replace with a fuse of the same type and rating.



### Storage Precautions

If your snow blower will be stored with gasoline in the fuel tank and carburetor, it is important to reduce the hazard of gasoline vapor ignition. Select a well-ventilated storage area away from any appliance that operates with a flame, such as a furnace, water heater, or clothes dryer. Also avoid any area with a spark-producing electric motor, or where power tools are operated.

If possible, avoid storage area with high humidity, which promote rust and corrosion.

Unless all fuel has been drained from the fuel tank, leave the fuel valve in the OFF position to reduce the possibility of fuel leakage.

Place the snow blower on a level surface. Tilting can cause fuel or oil leakage.

With the engine and exhaust system completely cooled, cover the snow blower to keep out dust. A hot engine and exhaust system can ignite or melt some materials. Do not use sheet plastic as a dust cover. A nonporous cover will trap moisture around the engine, promoting rust and corrosion.

### Removal from Storage

Check your snow blower as described in "BEFORE EACH OPERATION".

If the fuel was drained during storage preparation, fill the tank with fresh gasoline. If you keep a container of gasoline for refueling, be sure that it contains only fresh gasoline. Gasoline oxidizes and deteriorates over time, causing hard starting.

If the cylinder was coated with oil during storage preparation, the engine may smoke briefly at startup. This is normal.

# TROUBLESHOOTING

Problems	Possible Cause	Correction
Starter operates, but engine will not start	Throttle not in proper position.	Throttle must be in FAST position
	Choke not in the proper position.	Choke should be in the OFF position for a hot start. Choke should be in the ON position for a cold start.
	Fuel valve is OFF. Sediment cup obstructed.	Turn the fuel valve lever to ON. Check for contaminants in the sediment cup.
	Stale or old fuel.	Be sure the tank has fresh fuel. Drain the carburetor and sediment cup.
	Spark plug cap off. Improper electrode gap or deposits in the spark plug gap.	Make sure the cap is connected. Verify that the spark plug is free of deposits, and the proper gap.
Enging has low power.	Too fast ground speed when blowing wet, deep snow puts excessive load on engine.	Blow snow at slower ground speed.
	Throttle lever not in the FAST position.	Always move the throttle to the FAST position when blowing snow.
	Wet, deep cuts place excessive load on the engine.	Reduce the snow blowering swath.
	Discharge chute restricted.	Clear the discharge chute obstructions.
	Spark plug cap not secure. Improper electrode gap or deposits on the electrodes.	Make sure the spark plug can securely connected. Verify the spark plug is free of deposits and has the proper gap.
	Stale or old fuel.	Add fresh fuel. Drain the carburetor and sediment cup.
Engine runs, but snow blower doesn't move.	Drive clutch lever is in the DISENGAGED position.	Move lever to ENGAGED position.
	Shift lever is in middle position for neutral.	Move shift lever to "F" or "R".
	Drive clutch lever mechanism or cable not functioning properly.	See servicing dealer.
	Drive belt worn, broken or not on the pulleys.	Change belt, or contact with servicing dealer.
Won't blower snow.	Auger clutch lever is in the DISENGAGED position.	Move lever to ENGAGED position.
	Safety bolts broken.	Replace broken bolts.
	Discharge chute restricted. Foreign object stopping the auger from rotating.	Clear the discharge chute of obstructions. Remove the foreign object.
	Belt worn, not on the pulleys or not properly installed.	Change belt, or contact with servicing dealer.
Snow not discharging properly.	Auger spinning too slowly.	Keep trottle in the FAST position.
	Wet, deep snow is difficult to blow.	Reduce the snow blowing swath or speed.
	Belt worn, not on the pulleys or not properly installed.	Change belt, or contact with servicing dealer.
	Snow blower moving too fast for snow conditions.	Use the shift lever to reduce the ground speed.
Engine stalls when auger clutch lever is depressed.	Engine running too slow.	Keep the throttle in the FAST position when engaging auger clutch.
	Discharge chute restricted. Foreign object stopping the auger from rotating.	Clear the discharge chute or auger housing of the obstruction.
	Auger frozen by ice.	

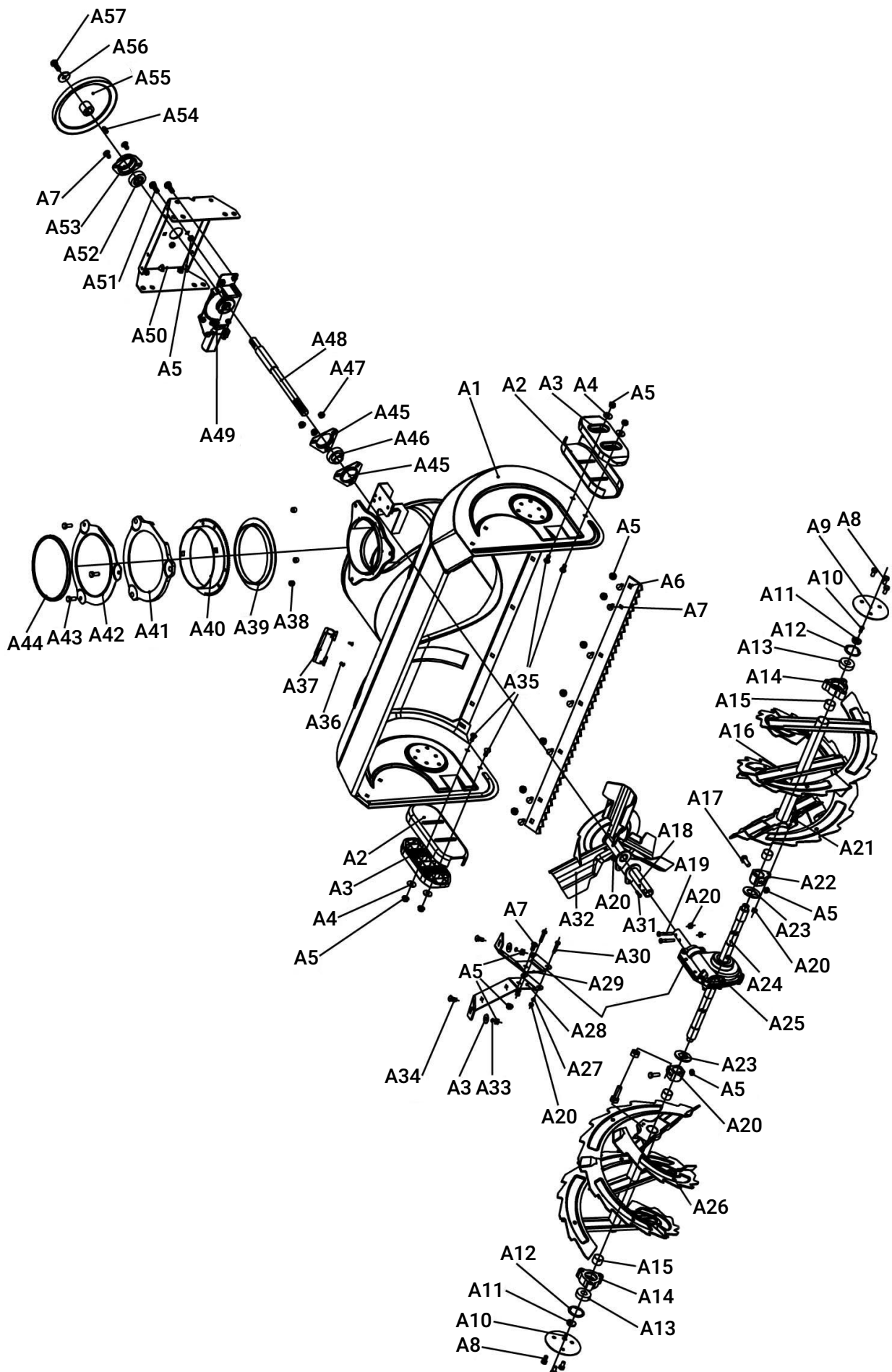




## PARTS LIST-MAIN FRAME ASSEMBLY

PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION	QTY
1	Joint bearing 10	2	16	Hexagon bolts M8x16	3
2	B pin 1.5x25	4	17	Shovel	1
3	Hexagon nut M10	2	18	Motor cover	1
4	Gear rod	2	19	Cross recessed pan head screw	2
5	Hexagon bolts M8x16	4	20	Hexagon bolts M8x25	6
6	Gear rod connector	2	21	Belt rod	1
7	Hexagon bolts M10x25	12	22	Auger belt	1
8	Plain washer Ø10	4	23	Hexagon bolts M6x12	2
9	Knob	2	24	Motor for chute	1
10	Press plate for battery case	1	A	Auger assembly	1
11	Battery case	1	B	Power assembly	1
12	Battery 12V 12Ah	1	C	Operation assembly	1
13	Hexagon bolts M6x16	4	D	Running assembly	1
14	Belt cover	1	E	Chute assembly	1
15	Hexagon locking nut M8	3			

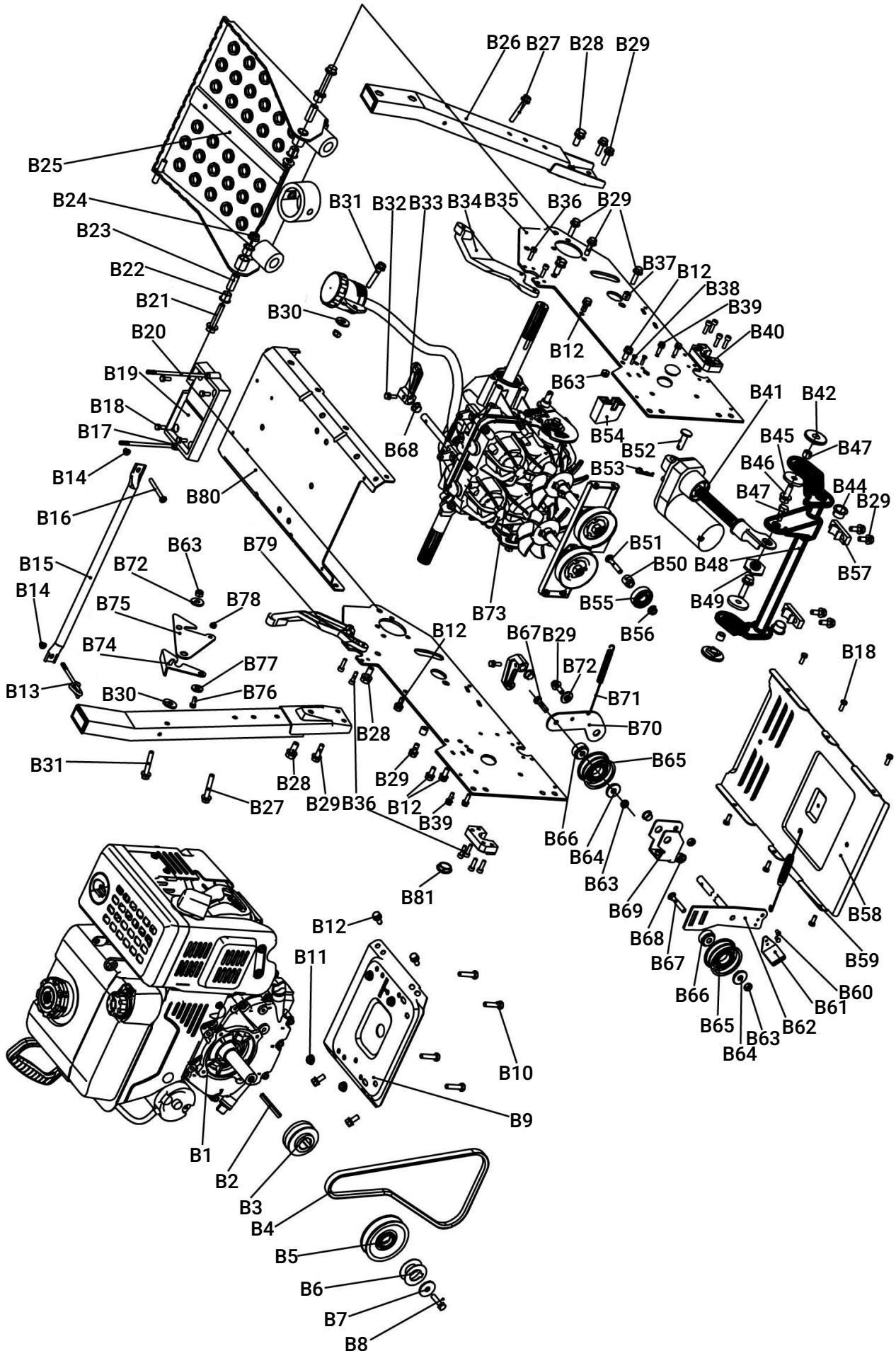
# EXPLODED VIEW (A)-AUGER ASSEMBLY



## PARTS LIST(A)-AUGER ASSEMBLY

PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION	QTY
A1	34 inch housing	1	A30	Hexagon bolts M6x30	2
A2	Skid shoe	2	A31	Hexagon bolts M6x16	1
A3	Skid shoe	2	A32	Fan	1
A4	Plain washer Ø8	6	A33	Spring washer Ø8	2
A5	Hexagon lock nut M8	18	A34	Half round head bolt M8x20	2
A6	34 inch shave plate	1	A35	Half round head bolt M8x25	4
A7	Half round head bolt M8x16	10	A36	Screw ST4.2X95-F	2
A8	Hexagon bolts M8x25	6	A37	Shovel seat	1
A9	Side plate washer	2	A38	Bushing	3
A10	Hexagonal head bolt M6X16	2	A39	Gear plate washer	1
A11	Plain washer Ø6	2	A40	Gear plate	1
A12	Circlip Ø40	2	A41	Gear plate cover	1
A13	Bearing 6203	2	A42	Upper cover	1
A14	Bearing seat	2	A43	Hexagon bolts M8x25	3
A15	Sleeve	4	A44	Rubber ring	1
A16	Right auger	1	A45	Bearing seat	2
A17	Hexagon bolts M8x45	2	A46	Bearing SB204	1
A18	Connecting pipe	1	A47	Hexagon nut M8	3
A19	Hexagon bolts M6x35	2	A48	Fan output shaft	1
A20	Hexagon lock nut M6	7	A49	Motor for deflector	1
A21	Hexagon bolts M6x20	2	A50	Support	1
A22	Coupling	2	A51	Hexagon bolts M8x20	2
A23	Plastic washer	2	A52	Bearing 6304	1
A24	Output shaft	1	A53	Bearing seat	1
A25	Gearbox assembly	1	A54	Flat key A6x20	1
A26	Left auger	1	A55	Big pulley	1
A27	Spring washer Ø6	2	A56	Spring washer Ø10	1
A28	Left support	1	A57	Hexagon bolts M10x25	1
A29	Right support	1			

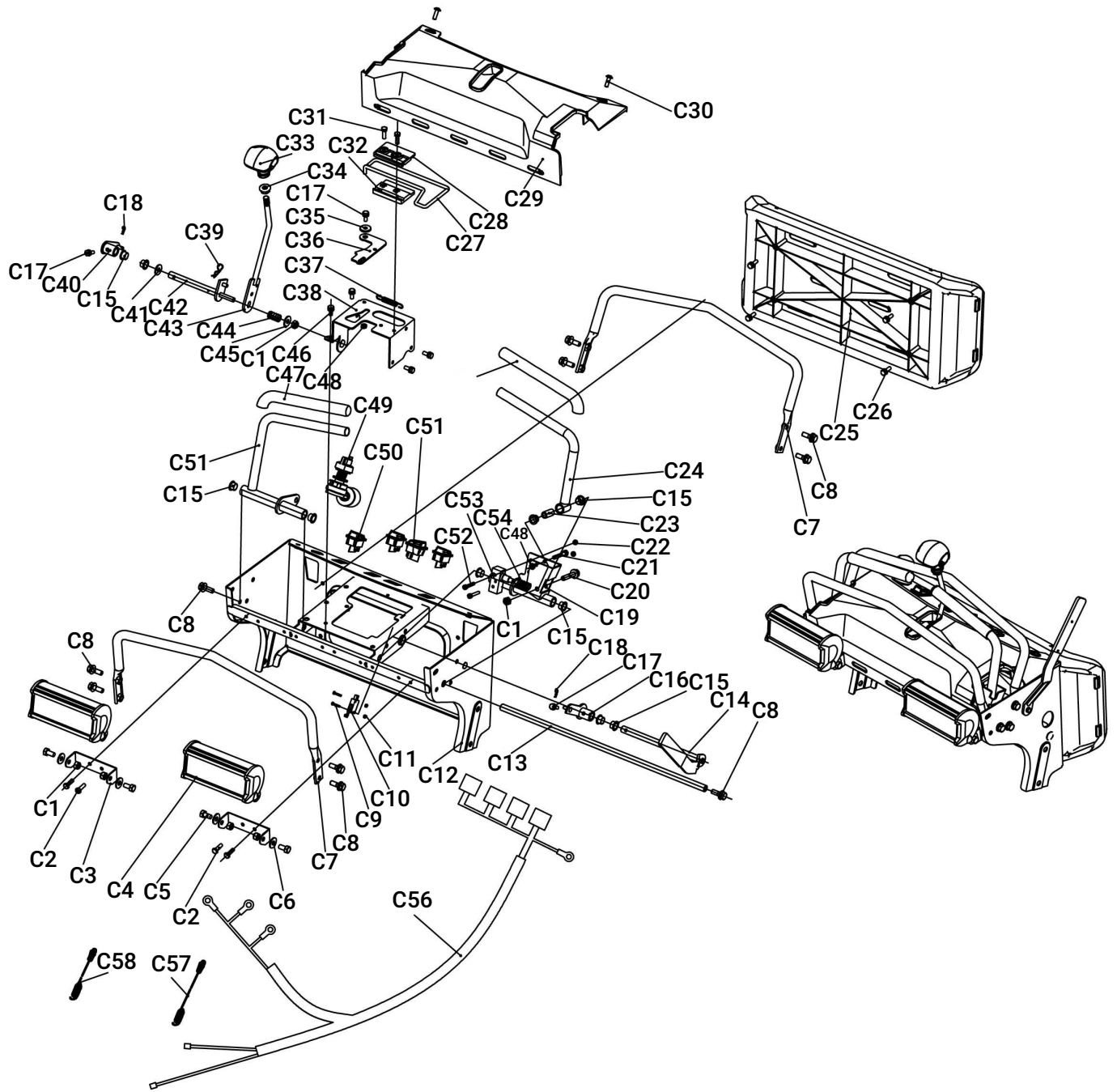
# EXPLODED VIEW (B)-POWER ASSEMBLY



## PARTS LIST(B)-POWER ASSEMBLY

PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION	QTY
B1	Engine	1	B42	Shaft washer	2
B2	Flat key 4.7*4.7*50	1	B43	Bushing	2
B3	Drive pulley	1	B44	Driver shaft sleeve	2
B4	Drive belt 4LXP910	1	B45	Large washer Ø11x34x3	2
B5	Auger pulley	1	B46	Hexagon bolt M10x30	2
B6	Wheel pad	4	B47	Hexagon bolt M10x13.5	1
B7	Large washer Ø9x30x4	1	B48	Rotating shaft	1
B8	Hexagon bolt M8x30	1	B49	Hexagon nut M10	1
B9	engine seat	1	B50	Bushing	1
B10	Hexagon bolt M8x40	4	B51	Hexagon bolt M8x40	1
B11	Hexagon nut M8	4	B52	Pin 14x45	1
B12	Hexagon bolt M8x20	8	B53	B pin	1
B13	Handle hook	1	B54	support for auger belt	1
B14	Hexagon lock nut M6	3	B55	bearing 6302	1
B15	Connecting rod	1	B56	Hexagon lock nut M8	1
B16	Socket head cap bolt M6x70	1	B57	Cover for adjusting seat	2
B17	Hexagon lock nut M6	2	B58	Bottom plate	1
B18	Hexagon head thread bolt M6x16	10	B59	Brake spring	1
B19	Battery seat	1	B60	Rivet 4x12	2
B20	Bolt for battery box	2	B61	Brake pad	1
B21	Hexagon bolt M10x50	2	B62	Big tension plate	1
B22	Plastic sleeve	4	B63	Hexagon lock nut M8	5
B23	Shaft for pedal rotating	2	B64	Short bushing	2
B24	Hexagon lock nut M10	2	B65	Tension pulley	2
B25	Pedal	1	B66	Long bushing	2
B26	Upper handle	2	B67	Hexagon bolts M8x40	2
B27	Hexagon bolt M8x45	2	B68	Plastic shaft sleeve	4
B28	Hexagon bolt M10x25	4	B69	Fixing seat for tension plate	1
B29	Hexagon bolt M8x25	15	B70	Small tension plate	1
B30	Large plain washer Ø8	2	B71	Spring 3	1
B31	Hexagon bolt M8x50	2	B72	Washer for small tension	2
B32	Hexagon bolt M6x20	2	B73	Hydraulic transmission	1
B33	Tension connector	2	B74	Hook stopper	1
B34	Left fixing seat	1	B75	Hook for pedal	1
B35	Side plate for transmission box	2	B76	Hexagon bolts M6x35	1
B36	Socket head cap bolt M6x16	12	B77	Plain washer Ø6	1
B37	Limitation shaft for gear plate	2	B78	Hexagon lock nut M6	1
B38	Philip's head screw ST4.2x16-F	2	B79	Right fixing seat	1
B39	Hexagon bolt M6x16	4	B80	Transmission plate	1
B40	Support for height adjust	2	B81	Hole clip	2
B41	Motor for housing	1			

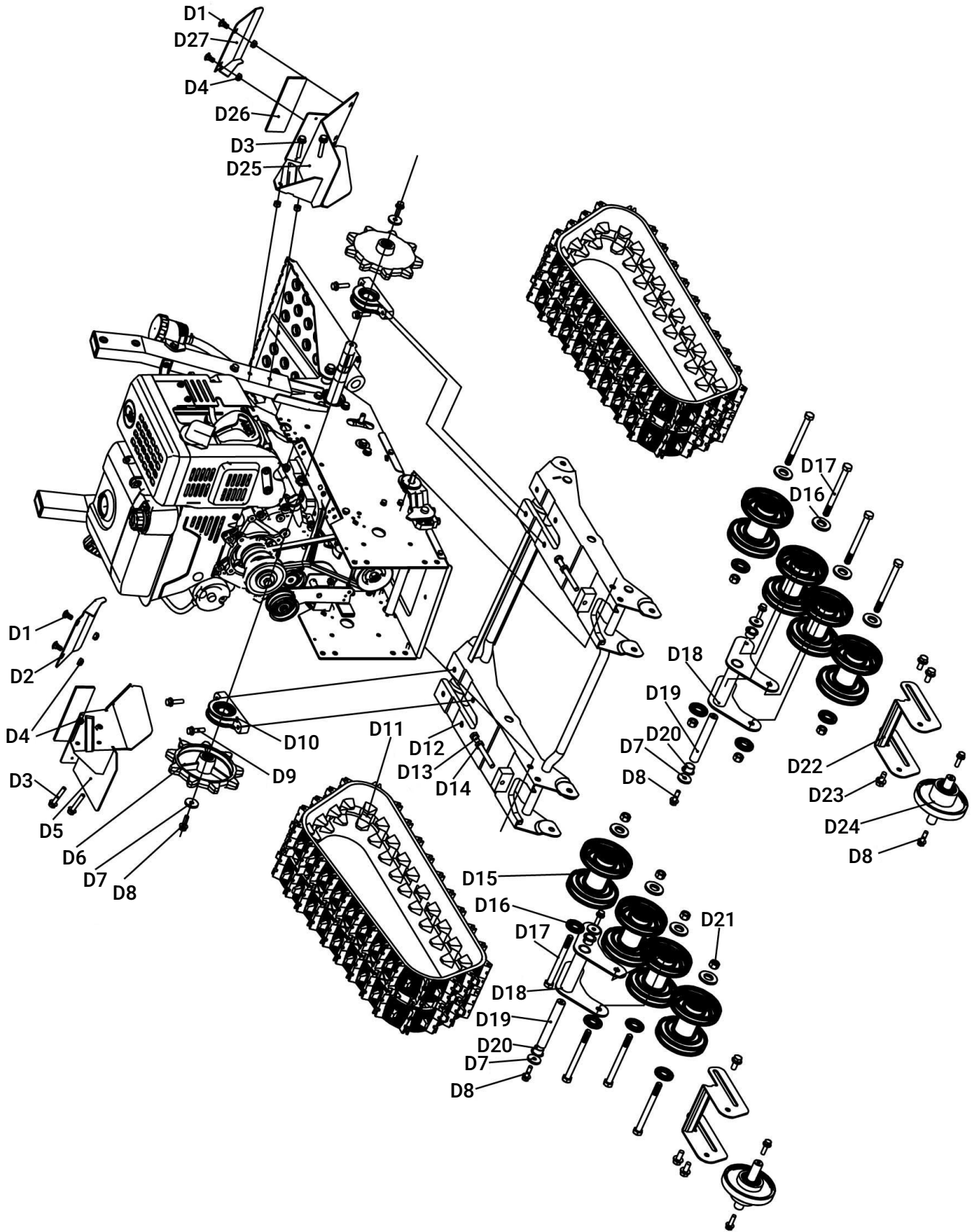
# EXPLODED VIEW (C)-OPERATION ASSEMBLY



## PARTS LIST(C)-OPERATION ASSEMBLY

PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION	QTY
C1	Hexagon lock nut M8	6	C30	Hex socket screw M6x8	2
C2	Hexagon head thread bolt M6x16	4	C31	Hex socket screw M6x20	2
C3	Light support	2	C32	Rod seat	1
C4	LED light	2	C33	Middle lever	1
C5	Hexagon bolt M8x16	4	C34	Hexagon flange nut M10	1
C6	Plain washer Ø8x22x2	4	C35	Limit washer	1
C7	Lever limiter	2	C36	Auger limitation plate	1
C8	Hexagon bolt M8x20	10	C37	Spring for limitation plate	1
C9	Philip's head screw M3x18	2	C38	Seat for limitation plate	1
C10	Micro switch	1	C39	B pin	1
C11	Hexagon lock nut M3	2	C40	Connector for auger cable	1
C12	Panel seat	1	C41	Plain washer Ø13x24x2	1
C13	Rotating shaft	1	C42	Auger control rod	1
C14	Parking lever	1	C43	Auger control lever	1
C15	Bushing	10	C44	Preset spring	1
C16	Connector for parking cable	1	C45	Plain washer Ø8	1
C17	Hexagon bolt M6x25	3	C46	Hexagon bolt M6x16	4
C18	B pin 1.5x25	2	C47	Lever sleeve	2
C19	Left control assy	1	C48	Hexagon lock nut M6	2
C20	Hexagon bolt M8x45	1	C49	Start key	1
C21	Hexagon bolt M6x40	1	C50	Light switch	1
C22	Hexagon nut M4	2	C51	Control switch	3
C23	Fixing shaft for left control lever	1	C52	Philip's head screw M4x30	2
C24	Left control lever	1	C53	Operation switch	1
C25	Soft pad	1	C54	Spring	1
C26	Hexagon bolt M6x12	4	C55	Right control lever	1
C27	Linked rod	1	C56	Wires	1
C28	Rod cover	1	C57	Long cable for parking	1
C29	Panel	1	C58	Short cable for auger	1

# EXPLODED VIEW (D)-RUNNING ASSEMBLY





## PARTS LIST(D)-RUNNING ASSEMBLY

PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION	QTY
D1	Step bolt M8x16	4	D15	Weight wheel assembly	8
D2	Right mudguard extensioner	1	D16	Washer for bearing	16
D3	Hexagon bolt M8x45	4	D17	Hexagon bolt M12x135	8
D4	Hexagon lock nut M8	8	D18	Moving plate	2
D5	Right mudguard	1	D19	Fixing shaft for moving plate	2
D6	Track train wheel	2	D20	Driver arm sleeve	4
D7	Plain washer Ø9x30x4	6	D21	Hexagon lock nut M12	8
D8	Hexagon bolt M8x25	10	D22	Track adjusting seat	2
D9	Hexagon bolt M8x35	4	D23	Hexagon bolt M10x20	6
D10	Fixing plate for transmission box	2	D24	Idle wheel	2
D11	Track 60*28*150	2	D25	Left mudguard	1
D12	Track support	1	D26	Red reflector	2
D13	Hexagon bolt M10x120	2	D27	Left mudguard extensioner	1
D14	Hexagon nut M10	2			

## PARTS LIST(E)-CHUTE ASSEMBLY

PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION	QTY
E1	Rivet 4x10	14	E12	Plastic sleeve	2
E2	Upper deflector	1	E13	Hexagon lock nut M6	4
E3	Upper hinge	2	E14	Sealing pad	2
E4	Lower hinge	2	E15	Chute	1
E5	Hinge shaft	2	E16	Washer for barrier	1
E6	Sealing pad	2	E17	Safety barrier	1
E7	Lower deflector	1	E18	Plastic washer	1
E8	Plastic sleeve	2	E19	Open pin 2x16	1
E9	Hex socket screw M6x20	2	E20	Spring for handle	1
E10	Connecting rod	2	E21	Deflector cable	1
E11	Hex socket screw M6x25	2	E22	Deflector spring	1

# EXPLODED VIEW (E)-CHUTE ASSEMBLY

