

POWERSMART[®]

INSTRUCTION MANUAL

24 inch Two Stage Gas Snow Thrower

Model # DB7624E



Have product questions or need technical support? Please feel free to contact us!

Website: www.Amerisuninc.com
www.PowerSmartUSA.com

Toll free: 1-800-791-9458 Mon-Fri 9-5 EST

Email: support@amerisuninc.com

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TECHNICAL DATA

24 inch Two Stage Electric Start Snow Thrower

Model #:	DB7624E
Engine:	212cc Snow Engine
Engine oil Capacity:	16 fl.oz
Fuel Tank Capacity:	0.66 Gallon
Start System:	120V Electric / Recoil
Clearing Width:	24 in
Clearing Height:	21 in
Chute Rotation Angle:	180°
Speed:	4 Forward, 2 Reverse
Tire Size:	13 in
Overall Dimensions (L x W x H):	40.6x36.6x22.3in
Weight:	193 lbs

Thank you for purchasing PowerSmart products.

It is crucial and highly recommended that you read this instruction manual in its entirety, as this is an invaluable tool and reference point in understanding the operation of your unit.

Please register your unit online at **www.Amerisuninc.com**. This process will allow us to track your warranty information and update our records regarding your unit accordingly.

Important: Our company does not provide email or personal information to any third party for any reason. For any questions check our website or call customer service at (800)791 9458.

INTRODUCTION

Thank you for purchasing a PowerSmart® Product. This manual provides detailed information regarding the safe operation and maintenance of this product. Every effort has been made to ensure the accuracy of the information in this document. PowerSmart® reserves the right to change this product and specifications at any time without prior notice.

Please keep this manual available to all users during the entire life of the product.



This manual contains special messages to bring attention to potential safety concerns, product damage as well as helpful operating and servicing information. Please read all the information carefully to avoid injury and machine damage.

QUESTIONS? PROBLEMS?

To answer questions and resolve issues in the most efficient and timely manner, please contact Customer Service at (800) 791-9458, Mon-Fri 9am-5pm EST or email: support@amerisuninc.com.

NOTICE REGARDING EMISSIONS

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

SAFETY INFORMATION



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.



WARNING! This machine was built to be operated according to the safe operation practices in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. This machine is capable of amputating fingers, hands, toes and feet and throwing foreign objects. Failure to observe the following safety instructions could result in serious injury or even a fatal occurrence.

It is your responsibility to 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.



ROTATING PARTS! Only use clean-out tool to clear blockages. NEVER use your hands.



NEVER direct discharge towards persons or property that may be injured or damaged by thrown objects.



Keep people away from unit while operating. Keep children out of work area and under watchful care of a responsible adult.

TRAINING

Read, understand, and follow all instructions on the machine and in the manual(s) before attempting to assemble and operate. Keep this manual in a safe place for future and regular reference.

- Be familiar with all controls and their proper operation. Know how to stop the machine and disengage them quickly.
- Never allow children under 14 years of age to operate this machine. Children 14 and over should read and understand the instructions and safe operation practices in this manual and on the machine and be trained and supervised by an adult.
- Never allow “non-trained” adult personnel to operate this machine without proper instruction.
- Thrown objects can cause serious personal injury. Plan and map out your snow-throwing pattern to avoid discharge of material toward roads, bystanders and the like.
- Keep bystanders, pets and children at least 75 feet from the machine while it is in operation. Stop machine if anyone enters the area.
- Exercise caution to avoid slipping or falling, especially when operating in reverse.

PREPARATION

Thoroughly inspect the area where the equipment is to be used. Remove all doormats, newspapers, sleds, boards, wires, branches and other foreign objects, which could be hazardous and damage the auger system.

- Always wear safety glasses or eye shields during operation and while performing an adjustment or repair to protect your eyes, as thrown objects can ricochet and cause serious injury to the eyes.
- Do not operate without wearing adequate, winter outer garments. Do not wear jewelry, long scarves or other loose clothing, which could become entangled in moving parts, and wear footwear that will improve footing on slippery surfaces.
- Use a grounded “three-wire” extension cord and receptacle for all machines with electric start engines.
- Adjust skid shoe and/or housing height to clear gravel or crushed rock surfaces.
- Disengage all control levers before starting the engine.
- Never attempt to make any adjustments while engine is running, except where specifically recommended in the instruction manual.
- Let engine and machine adjust to outdoor temperature before starting to clear snow.

PERSONAL SAFETY

- Engine exhaust, and certain vehicle components contain or emit chemicals known to cause cancer, birth defects or other reproductive harm.
- Read, understand and follow all instructions on your snow thrower unit and in this instruction manual before attempting to assemble and operate your machine.
- Keep this instruction manual in a safe place for future and regular reference. If replacement parts are needed, refer to the Panel, Chute, Frame and Housing Diagrams and Parts' Listings on pages 25-30.
- Stay alert, watch what you are doing and use common sense when operating your snow thrower unit.
- Do not use your snow thrower unit while you are tired or under the influence of drugs, alcohol, medication. A moment of inattention while operating the snow thrower may result in severe bodily injury.
- **NEVER LEAVE YOUR RUNNING SNOW THROWER UNATTENDED. Stop the engine!**
- Do not leave your snow thrower unit until it has come to a complete stop.
- When stepping backwards, be cautious about any obstacles beneath your feet or behind you to avoid falling.

SERVICE

- Stop the engine before making any adjustments. Check for misalignment, breakage or binding of moving parts, and any other conditions that may affect operation.
- If damaged, have the snow thrower unit serviced by an authorized service center using only specified, manufactured replacement parts. This will ensure that the safety of the snow thrower unit is maintained.

SAFE HANDLING OF GASOLINE

To avoid personal injury or property damage use extreme care in handling gasoline. Gasoline is extremely flammable and the vapors are explosive. Serious personal injury can occur when gasoline is spilled on yourself or your clothes which can ignite, therefore wash your skin and change clothes immediately.

- Use only an approved gasoline container.
- Extinguish all cigarettes, cigars, pipes and other sources of ignition.
- Never fuel snow thrower unit's engine indoors.
- Never remove gas cap or add fuel while the engine is hot or running.
- Allow engine to cool at least two minutes before refueling.

- Never over fill fuel tank.
- Replace gasoline cap and tighten securely.
- If gasoline is spilled, wipe it off the engine and equipment. Move machine to another area. Wait 5 minutes before starting the engine.
- 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.).
- Allow machine to cool at least 5 minutes before storing.
- 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.
- If possible, remove gas-powered equipment from the truck or trailer and refuel it on the ground.
- If this is not possible, then refuel such equipment on a trailer with a portable container, rather than from a gasoline dispenser nozzle.
- Keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete. Do not use a nozzle lock open device.

OPERATION

- 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.
- The auger (impeller) control lever is a safety device. Never bypass its operation. Doing so makes the machine unsafe and may cause personal injury.
- The control levers must operate easily in both directions and automatically return to the disengaged (vertical) position when released.
- Never operate with a missing or damaged chute assembly. Keep all safety devices in place and working.
- Never run an engine indoors or in a poorly ventilated area. Engine exhaust contains carbon monoxide, an odorless and deadly gas.
- Do not operate machine while under the influence of alcohol or drugs.
- Muffler and engine become hot and can cause burning. Do not touch. Keep children away.
- Exercise extreme caution when operating on or crossing gravel surfaces. Stay alert for hidden hazards or traffic.
- Exercise caution when changing direction and while operating on slopes.

- Plan your snow-throwing pattern to avoid snow discharge towards windows, walls, cars etc., thus avoiding possible property damage or personal injury caused by a ricocheting debris.
- Never direct discharge at children, bystanders and pets or allow anyone in front of the machine.
- Do not overload machine capacity by attempting to clear snow at too fast of a rate.... **Remember! Slow and steady operation is best to avoid clogs of snow being impelled too rapidly.**
- 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.
- Disengage power to the auger system (auger/impeller) by releasing the auger control (lever) when transporting or not in use.
- Never operate machine at high transport speeds on slippery surfaces. Look down and behind and use care when backing up.
- If the machine should start to vibrate abnormally, stop the engine, disconnect the spark plug wire and ground it against the engine. Inspect thoroughly for damage. Repair any damage before starting and operating.
- Disengage all (drive and auger) control levers and stop engine before you leave the operation position (behind the handles).
- Wait until the auger /impeller comes to a complete stop before unclogging the chute assembly, making any adjustments or inspections.
- 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.
- Use only attachments and accessories approved by the manufacturer (e.g. wheel weights, tire chains, cabs etc.).
- When starting engine, pull cord slowly until resistance is felt, then pull rapidly, Rapid retraction of starter cord (kickback) will pull hand and arm toward engine faster than you can let go. Broken bones, fractures, bruises or sprains could result.
- If situations occur which are not covered in this manual, use care and good judgment contact customer support for assistance.

MAINTENANCE & STORAGE

- Never tamper with safety devices. Check their proper operation regularly. Refer to the maintenance and adjustment sections of manual.
- Before cleaning, repairing, or inspecting machine disengage all control levers and stop the engine.
- Wait until the auger impeller comes to a complete stop. Disconnect the spark plug wire to prevent unintended starting.

- Check bolts and screws for proper tightness (**EVERY TIME before & after use**) as engine vibration could cause hardware to loosen...**consider using a Loc-Tite product to keep hardware secure.** This process will keep the machine in safe working condition. Also, visually inspect machine for any damage.
- Verify that the auger gearbox, located between your right and left auger blades, has substantial lubricant in the casing.
The gearbox fill and drain plugs (bolts) are the only “vertical” plugs (bolts) on the gearbox assembly when viewed in the standing position. The top plug (bolt) is used for filling...the bottom plug (bolt) is for draining. Simply remove the top plug (bolt) for verification of lubricant, as it should be inside. To drain, simply remove bottom plug (bolt).
- Do not change the engine governor setting or overspeed the engine. The governor controls the maximum safe operating speed of the engine.
- **Snow thrower auger belts, shave plates, shear pins and skid shoes are subject to wear and damage, therefore it is expected that the owner assume personal responsibility for the maintenance (removal & installation) of these items.**
- For your safety protection, frequently check all components and replace with original equipment manufacturers (OEM) parts only. Use of parts which do not meet the original equipment specifications may lead to improper performance and compromise safety.
- Check (drive & auger) control lever (handles) and cables periodically to verify they engage and disengage properly and adjust, if necessary. Refer to the adjustment section in this operator's manual for instructions.
- Maintain or replace safety and instruction labels, as necessary.
- Observe proper disposal laws and regulations for gas, oil, etc. to protect the environment.
- Prior to storing, run machine a few minutes to clear snow from machine and prevent freeze up of auger impeller and completely wipe down unit, while inspecting for frozen components.
- Never store the machine or fuel container inside where there is an open flame, spark or pilot light such as water heater, furnace, clothes dryer etc.
- Always refer to the operator's manual for proper instructions on off-season storage. A YouTube video is available, which illustrates this process:
<https://www.youtube.com/watch?v=X4KYcFEfeY4>
- Check fuel line, tank, cap and fittings frequently for cracks or leaks. Replace if necessary.
- Do not crank engine with spark plug removed.
- Have the machine inspected annually by an authorized service dealer to ensure that all mechanical and safety systems are working properly and have not worn excessively*. Failure to do so can result in accidents, injuries or death.

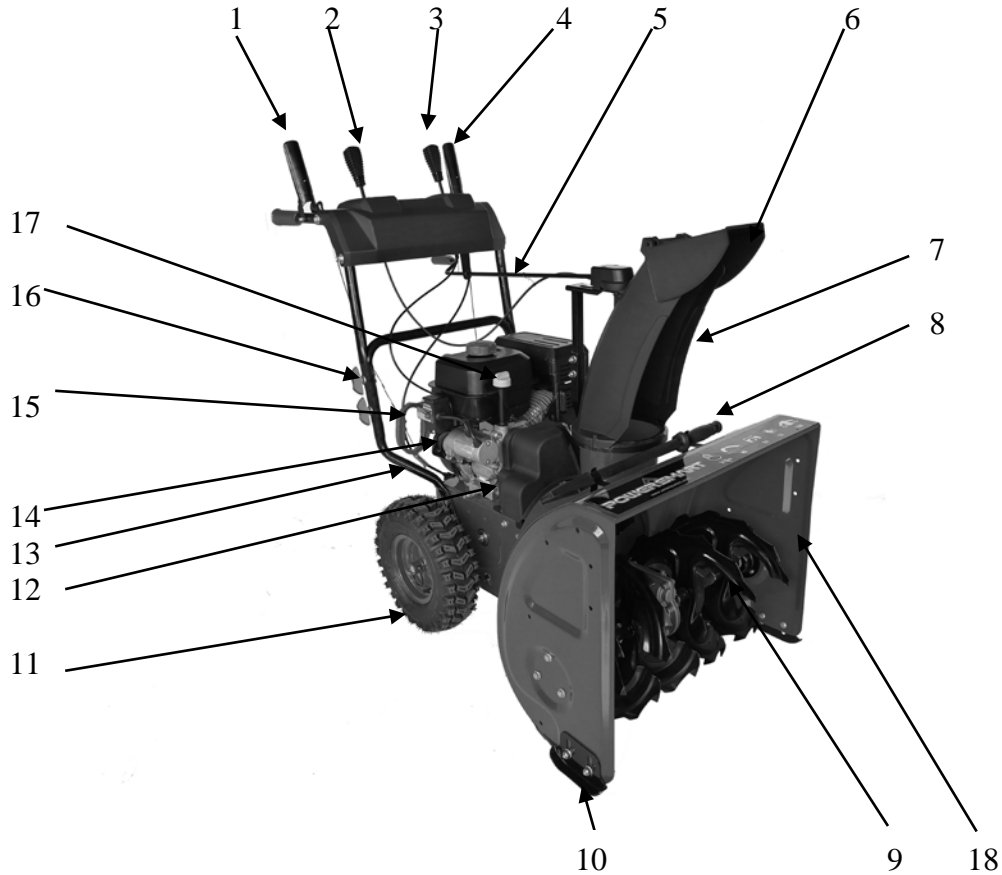
****Please note that an annual inspection is not covered within the warranty program...only REPAIR service.***

DO NOT MODIFY THE ENGINE

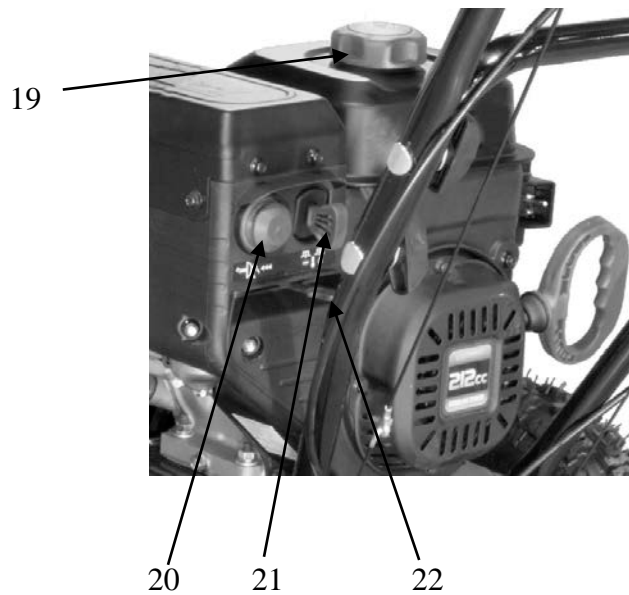
To avoid serious injury or death, do not modify engine in any way. Tampering with the governor setting can lead to a runaway engine and cause it to operate at unsafe speeds. **Never tamper with factory setting of engine governor.**

KNOWING YOUR SNOW THROWER

Use the illustrations below to become familiar with the locations and functions of the various components and controls of this snow thrower.



- | | | | |
|---|---------------------------|----|-----------------------|
| 1 | Drive Control Lever | 10 | Skid Shoe |
| 2 | Chute Deflector Control | 11 | Wheel Tire |
| 3 | Drive Speed/Gear Control | 12 | Belt Cover |
| 4 | Auger Control Lever | 13 | Lower Handle |
| 5 | Chute Rotation Handle | 14 | Electric Start Button |
| 6 | Discharge Chute deflector | 15 | Recoil Start Handle |
| 7 | Discharge Chute | 16 | Handle Knob |
| 8 | Clean Tool | 17 | Oil Dipstick |
| 9 | Auger Blade | 18 | Auger Housing |



19	Fuel Tank Cap	21	Switch Key
20	Primer Bulb	22	Choke Lever

Drive Control Lever

Located on the right side of the upper handle, the Drive Control Handle is used to engage and disengage the drive wheels. Squeeze the Drive Control Handle against the upper handle to engage the wheels; release to disengage.

Drive Speed/Gear Control

The Speed/Gear Control is located on the center of the panel and is used to set the drive speed and direction of travel. It can be moved into any of six positions (four forward and two reverse gear settings)

Auger Control Lever

Located on the left side of the upper handle, the Auger Control Handle is used to engage and disengage the augers. Squeeze the Auger Control Handle to engage the augers; release to disengage the augers.

Chute Rotation Handle

To adjust snow discharge direction, rotate the handle clockwise or counter-clockwise....should rotate 180 degrees.

Skid Shoe

Position the shoes based on the surface conditions. Adjust upward for hard-packed snow. Adjust downward when operating on gravel or crushed rock surfaces.

Auger Blade and Impeller

When engaged, the auger blades rotate to cut snow and direct it into the auger/impeller housing to be discharged out the chute.

Clean-out Tool

The chute Clean-out Tool is conveniently fastened to the rear of the auger housing with a mounting clip. It is used to clean the chute assembly and chute opening when snow and ice become lodged.

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

ASSEMBLY AND ADJUSTMENTS

The following section describes steps necessary to prepare the snow thrower for use. If after reading this section, you are unsure about how to perform any of the steps please call (800) 791-9458 Mon-Fri 9-5 EST for customer service assistance. Failure to perform these steps properly can damage the snow thrower.

Unpacking

Unpack the snow thrower and all its parts, and compare against the list below.

1. Snow Thrower
2. Discharge Chute Assembly
3. Chute Rotation Handle
4. (Qty. 2) one set of Skid Shoes with attaching hardware
5. (Qty. 4) extra M6 Shear Pins and M6 Locknuts

ASSEMBLY

Your Snow Thrower will require some assembly. Please complete the following steps before using your Snow Thrower.



WARNING: This snow thrower is heavy. Assembly procedures may require lifting equipment utilizing two people.

Step 1: Installing the Upper Handle

1. When installing the Upper Handle, please note that the Drive, Auger & Shift Cables will already be pre-attached to Upper Handle.
2. Attach Upper Handle using the Frame Handle Assembly Hardware (**Qty. 4 sets /Knob, Saddle Washer, M8 Nut, T-Screw**) for your Upper & Lower Handle connection.
3. **VERY IMPORTANT!!!!** When attaching Assembly Hardware, make sure **ALL** cables are underneath the Frame (Upper & Lower) Handles after installation as indicated in Figure 1.



Figure 1

******Assembling Drive, Auger & Shift Cables over the top of the Frame Handle will cause unnecessary tension in the cables, resulting in the Snow blower propelling forward when starting the engine and may cause damage to the drive & auger control (levers) when trying to engage them.***

4. Cut and remove all tie wraps that are on Cables, Frame Handles, Drive Control (Lever) & Auger Control (Lever).
5. Verify that the connection for the Upper & Lower Drive/Auger Cables is accurate. (See Figure 2)

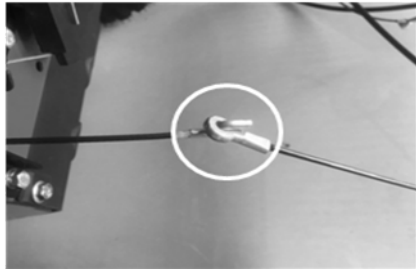


Figure 2

Step 2: Installing the Chute Assembly

1. When installing the Chute Assembly, please note that the Chute Deflector Cable will be pre-attached to the Upper Handle.
2. Insert Lower Discharge Chute/Support Tube Assembly into the designated Chute opening for the Lower Discharge Chute, while inserting the Support Tube into the designated base of the Frame. (See Figure 3).
3. Secure Support Tube to base with (Qty. 2) Screws and nuts provided.



Figure 3

Step 3: Installing the Chute Handle

1. Slide Chute Handle through Chute Handle Guide near the Upper Panel, as indicated on Figure 4.



Figure 4

2. Attach Chute Handle to base of Chute Gear Connection and secure with Cotter Pin, as indicated on Figure 5.

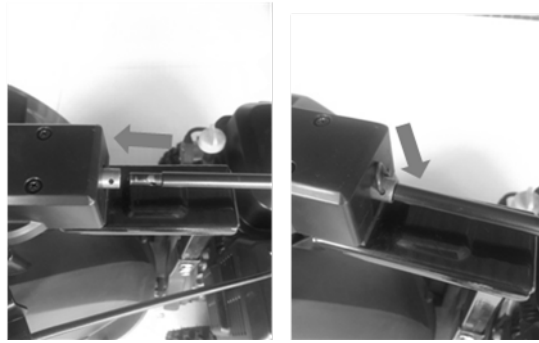


Figure 5

3. Verify that ALL cables are clear and not obstructing the Chute Handle operation of your snow thrower unit. (See Figure 6)



Figure 6

Step 4 – Skid shoes installation and adjustments

1. Locate the set of skid shoes from parts bag and remove the bolts.
2. Loosely install the skid shoes using the bolts and hex nuts as shown on each side of the auger housing. Make sure the skid shoe tip faces out.

Adjustment of the skid shoes sets the height above the ground at which the auger shave plate operates. For clearing snow from concrete, asphalt, and other smooth surfaces, set the auger shave plate so that the bottom of the plate is just above the ground.

For clearing snow from gravel, dirt, and other rough surfaces set the auger shave plate slightly above the ground to avoid dirt and gravel from entering the auger.

The optimal height of the plate will vary depending on the type of surface being cleared. Surfaces with larger gravel or stones require a higher shave plate setting.

3. Move the snow thrower to a solid, smooth, and level surface.
4. Place a spacer board on the ground underneath the auger shave plate between the skid shoes. The thickness of the board should be the same as the height above the ground you wish to raise the auger shave plate. The skid shoes should not touch the board.
5. With the two (Qty. 4)) nuts loose (Qty. 2 on each side) allow the skid shoe to slide to the ground then tighten the nuts to secure the skid shoe.



SNOW THROWER PREPARATION

PLEASE REFER TO ENGINE MANUAL (SEPARATE DOCUMENT) FOR ENGINE OPERATION INSTRUCTIONS.

The following section describes steps to prepare your snow thrower for use. If after reading this section, you are unsure about how to perform any of the steps please call 1-800-791-9458 for customer service. Failure to perform these steps properly can damage your snow thrower or shorten its life expectancy.

Review the SAFETY section in this manual and the ENGINE manual before operating the engine and snow thrower.

WARNING! Keep the area of operation free from foreign objects that can be thrown by the auger and/or impeller 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 immediately, remove the obstruction, and inspect it for damage. Repair or replace any damaged parts before restarting and operating you snow thrower.

- Keep children, pets, and bystanders away from the area of operation. Be aware that the normal noise of the snow thrower when turned on may make it difficult for you to hear approaching people.
- Start your clearing path by throwing snow in a back and forth motion. To clear in the opposite direction, stop your snow thrower and pivot it on its' wheels to face the opposite direction. Make sure to overlap clearing paths.
- Determine the direction of the wind. If possible, move in the same direction as the wind so that the snow is not thrown against the wind, back into your face and on the just cleared path.

WARNING! DO NOT USE YOUR HANDS TO UNCLOG CHUTE. Stop the motor before removing debris. Use the supplied Clean-out tool to unclog the chute. Do not walk in front of your running snow thrower. Do not direct discharged snow towards bystanders.

- Do not apply additional man-made load to the engine since this may damage the engine.
- Some parts of your snow thrower may freeze under extreme temperature conditions. Do not attempt to operate your snow thrower with frozen parts. If the parts freeze while your snow thrower is in use, stop the unit and inspect it for frozen parts. Thaw all parts before restarting and operating your snow thrower. Never force parts or controls that are frozen. Never use an open flame of any sort to thaw frozen parts.

Pre-Operation Inspection - IMPORTANT!!!

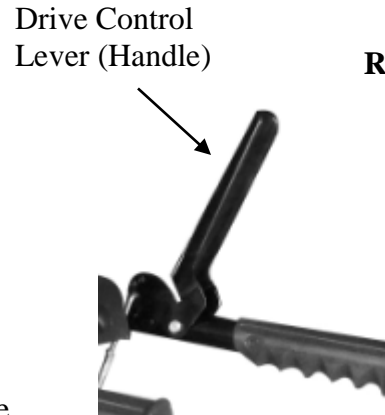
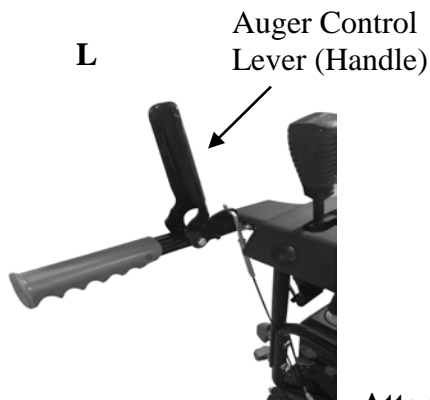
Before using your snow thrower for the first time, check the following:

- **Have you read and followed all setup and operation procedures for the engine as outlined in the ENGINE manual?**
- **Has the engine been filled with oil and gasoline to the proper level?**
- **Are all snow thrower components properly attached and assembled?**
- **Are there any broken or damaged parts?**
- **Are all fasteners tight?**
- **Are the tires inflated to the proper pressure?**

NOTICE: If you are unsure about the assembly or condition of any of your snow thrower parts, please call our customer service department at (800)791 9458.

AUGER AND DRIVE CONTROLS

1. To engage the auger (blades), press down on the auger control lever (left side handle).
2. To engage the drive, press down on the drive control lever (right side handle). The machine should start moving in the direction and speed for the respective setting on the speed/gear control.
3. When finished clearing a snow path, release the auger control lever (handle) and the drive control lever (handle).



Attention: Release

(disengage)

the auger and drive control lever (handles) before adjusting the drive speed control lever. **NEVER** change the drive/gear speed while your snow thrower is in motion, as it will damage the drive mechanism and void the warranty.

DRIVE SPEED/GEAR CONTROL

Move the drive speed control lever to the desired speed. There are six (6) settings: four (4) forward speeds and two (2) reverse speeds. 1 is the slowest forward speed and 4 is the fastest forward speed. R1 is the slowest reverse speed and R2 is the fastest reverse speed.

Note: There is no neutral drive setting since the drive control handle must be engaged for movement. Neutral is achieved when the drive control handle is disengaged.



CHUTE DISCHARGE DIRECTION ADJUSTMENT



WARNING - Never direct the snow discharge chute at the operator, bystanders, vehicles or nearby windows. Discharged snow and foreign objects accidentally picked up by the Snow Thrower can cause serious damage and severe bodily injury. Always point the discharge chute in the opposite direction from potential hazards. The discharge chute can be adjusted 180° by rotating the chute rotation handle. Rotate the chute rotation handle clockwise to move the discharge chute to the right; counterclockwise to move the chute to the left.

OPERATING YOUR SNOW THROWER

STARTING

Please refer to ENGINE manual (separate document) for engine operation instructions.

CLEARING SNOW

Start the engine (see ENGINE manual) once your snow thrower has been running outside for several minutes, it is now ready for use. Make sure the path in front of your Snow Thrower is free from people, animals, objects, and all other obstructions except for snow.

Adjust the chute outlet to the desired direction.

Turn the chute rotation handle clockwise or counter-clockwise until the desired position is reached.

WARNING! Never direct the chute outlet toward people or animals. While snow may seem harmless, it can contain rocks or other debris that can cause serious injury when projected through the chute.

1. Engage/depress the auger control lever (handle) to start the augers and impeller turning.
2. Set the desired direction and speed using the speed/gear control lever.
3. Engage/depress the drive control lever (handle) and direct the snow thrower into the snow to be cleared.

NOTICE: NEVER change speed/gear positions while the drive control lever (handle) is engaged.

Disengage the drive control handle BEFORE changing speeds or directions. If the snow is deeper than the height of the auger, remove it in several steps taking narrower swaths. Make several passes with the auger overlapping the cleared areas and reduce forward speed.

For the best clearing efficiency, clear snow before it melts, refreezes and hardens. Hard packed and wet snow can be very difficult to clear.

Clearing wet heavy snow can be a challenge, depending on ambient temperature, humidity levels, and overall climate conditions including actual snow conditions, there may be no 100% solution as snow may be too wet or compacted to move or throw. Wet snow will tend to clog and stick more to the augers and chute. Keep the auger engaged as much as possible when clearing wet snow to help prevent clogging.

WARNING! If snow is filled with foreign material, damage to the snow thrower may result. Avoid snow with foreign materials.

STOPPING

When finished using your snow thrower, perform the following steps to shut it down.

1. Engage the auger and impeller for 30 seconds to clear any remaining snow inside your snow thrower.
2. Stop the auger blade rotation by releasing the (left) auger control lever (handle).
3. Remove Engine Safety Switch Key to stop engine operation...see ENGINE manual.
4. Remove snow from all snow thrower surfaces including the auger housing and chute areas.

CLEARING RESTRICTIONS

If the snow discharge chute or auger housing becomes clogged STOP the engine, and make sure that all rotating parts have come to a complete stop. Use the supplied snow clean out tool to clear the obstruction. After unclogging, wipe the tool clean, and place it in the holder on top of the auger housing.

MAINTENANCE

WARNING! Never perform maintenance while your snow thrower is running. Turn OFF the engine before performing any maintenance tasks on your Snow Thrower.

Proper maintenance of your snow thrower will help prolong its life. Please perform the following maintenance procedures as required.

Please read the ENGINE manual for engine maintenance procedures.

Do not attempt to repair your snow thrower unless you have the proper tools and instructions for disassembly and repair.

Check the bolts at frequent intervals for proper tightness to ensure that the equipment is in safe working condition.

After each snow removal session, run the snow thrower for a few minutes to prevent the auger/impeller system from freezing. Stop the engine, wait for all revolving parts to stop completely, and wipe residual ice and snow off the unit. Rotate the chute rotation handle several times to remove any excess snow.

MAINTENANCE PROCEDURES

TIRE INFLATION

Before each use of your Snow Thrower, check the tire pressure. The pressure in each tire should be in the range of 20-24 psi for the best performance. The pressure can be checked using an ordinary tire pressure gauge. Fill the tires using a small or pressure regulated air compressor.

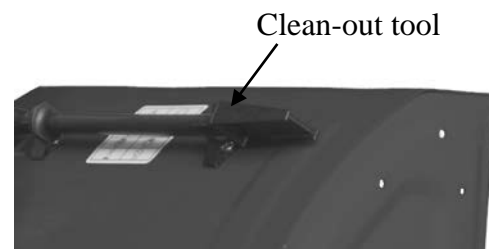
WARNING! DO NOT OVER-INFLATE THE TIRES. Over-inflating could cause a tire to burst and cause severe bodily injury.

SHAVE PLATE REPLACEMENT

Remove both skid shoes and hardware including carriage bolts and nuts which attach shave plate to snow thrower housing. Reassemble new shave plate, making sure heads of the carriage bolts are to the inside of the auger housing.

AUGER OR IMPELLER JAMS

WARNING! The auger and impeller rotate at fast speeds which can cause harm or even amputation to a person's body parts. Even if you do not see the auger or impeller rotating, it may start at any time if the engine is running. The chute clean-out tool is fastened to the top of the auger housing with mounting clips.



1. Always turn OFF the engine before attempting to clear any clogs or jams.
2. Keep hands and feet away from rotating parts while the engine is running.
3. Do not wear loose fitting clothing that can become entangled in rotating parts.

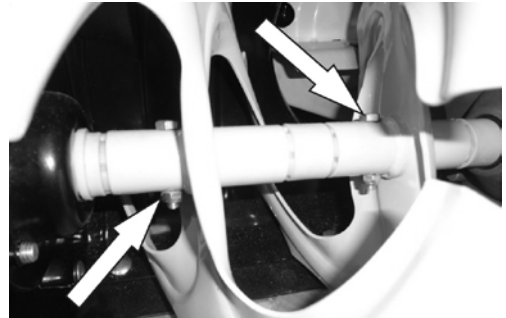
4. Wait until the auger and impeller have come to a full stop.
5. Clear any visible jams using the clean out tool attached to your machine.

WARNING! DO NOT try to clear jams with your hands or feet.

AUGER SHEAR PINS REPLACEMENT

Shear pins are used to attach the auger shaft to the auger blades. A clog or jam in the augers may cause one or multiple shear pins to break. The shear pins are a safety mechanism and designed to break under high load or impact and protect the auger drive system from damage.

Replacement shear pins and nylon locknuts are provided with your snow thrower.



For additional replacement shear pins, please call the customer service department at (800)791 9458.

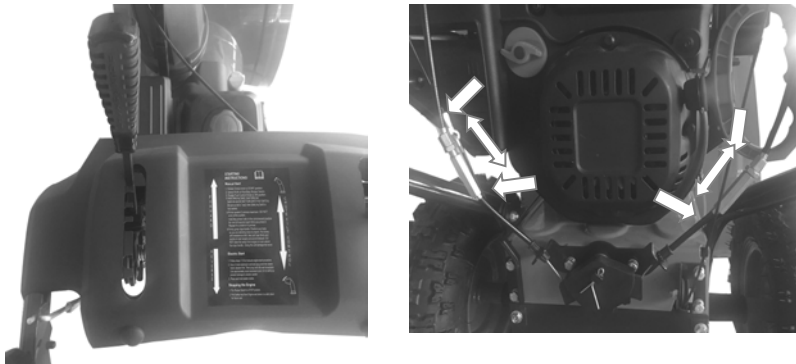
1. Turn off the engine and wait for all moving parts to come to a complete stop. Remove any remnants of the broken shear pin. It may be necessary to unscrew the nut from the broken shear pin and drive out the broken pin.
2. Insert a new shear pin through the hole in the auger shaft and tighten using the shear pin nylon locknut. Do not over-tighten the nylon locknut.

NOTICE: Never replace the shear pins with standard pins or fasteners. Damage may occur to the snow blower and drive systems.

DRIVE SPEED CONTROL CABLE ADJUSTMENT

WARNING! Entanglement Hazard – Use caution when performing the speed control cable adjustment.

The speed/gear control lever is connected to two cables that work in tandem to control machine speed and direction. As the speed/gear control lever is moved from forward to reverse gears (up to down) one cable is pulled and one is pushed.



Depending on if the cable setting towards forward or reverse, adjustment of the cables will vary.

To adjust the cables, one cable should be moved up and the other down equally in their respective brackets until there is a positive direction change when the lever is shifted between F1 and R1. The

middle position between these two settings is neutral (there is no actual neutral "notched" position on the control panel).

1. With the engine running engage the drive control handle and move the speed control lever between 1 and R1 to determine which way the cables need to be adjusted. Release the drive control handle when shifting between gears.
2. Loosen the jam nuts on each cable (only one or two threads) and move each cable up and down as required until a positive direction change is achieved when the lever is shifted between F1 and R1. This may take multiple attempts to find the exact setting.
3. Tighten the cable jam nuts once the proper setting has been achieved.

AUGER BELT REMOVAL

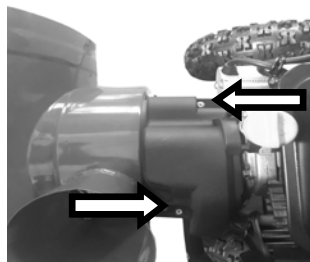
WARNING! Entanglement Hazard – Before performing any service procedures, make sure the engine is off and remove the spark plug wire from the spark plug to ensure the engine cannot accidentally start.

Note: Record component position before disassembly, to assist in reassembly.

1. Disconnect the upper cable from the auger control handle.
2. Remove (Qty. 2) hex screws and remove belt cover.
3. Loosen the belt guide pin hex screw (installed on engine crankcase) and rotate the pin away from the pulley.



Step 1



Step 2

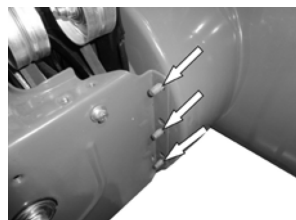


Step 3

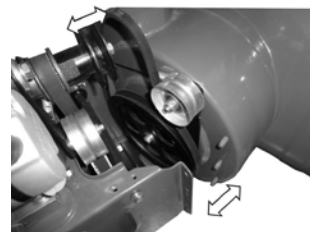
4. Left Side - Loosen the hex nuts attaching the auger housing to the main frame.
5. Right Side - Remove the hex nuts, lock washers and flat washers attaching the auger housing to the main frame.
6. Remove the belt from the drive pulley while pulling the right side of the auger housing away from the main frame just enough to access the belt and auger pulley.
7. Push the auger tension pulley arm to move the auger brake, away from the belt to allow removal of the belt.
8. Remove the auger belt.



Step 4



Step 5



Step 6



Step 7

AUGER BELT INSTALLATION

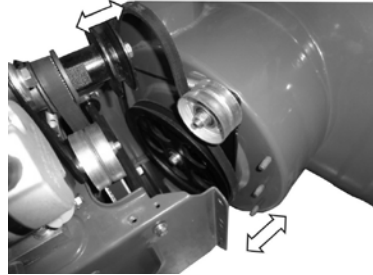
WARNING! Entanglement Hazard – Before performing any service procedures, make sure the engine is off and remove the spark plug wire from the spark plug to ensure the engine cannot accidentally start.

1. Push the auger tension pulley arm to move the auger brake to allow access for installation of the belt into the auger pulley.
2. Route the belt to the inside of the tension pulley, auger brake and install the auger belt onto the drive pulley while pulling the auger housing into position with the main frame.
3. Install and/or tighten the hex nuts attaching the auger housing to the main frame. Tighten all fasteners securely, do not over tighten.
4. With the belt installed on both pulleys and tension pulley in position, move the belt guide pin to within 3/16 to 3/8 in. from the belt seated in the pulley and tighten the pin in position.

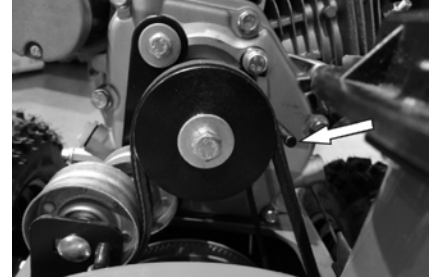


Auger Brake

Step 1



Step 2



Step 4

Note: The belt guide pin helps keep the belt in the pulley when the belt is disengaged. The pin should not be tight to the belt. The pin should be loose enough to allow the belt to spin freely but not allow the belt to jump off the pulley.

5. Connect the upper cable to the auger control handle.
6. Install belt cover using (Qty. 2) hex screws.

WARNING! Ensure the belt cover is installed and all safety guards are in place before the engine is started and at all times when the engine or machine are operating.

AUGER BELT AND RELATED COMPONENT INSPECTION

When replacing your snow blower auger belt, it is important to determine the cause of the failure (if applicable) and take corrective action to avoid repeated failure.

Inspect the belt:

- Correct size and type
- Missing pieces
- Burning
- General damage
- Fraying or peeling apart
- Cracks and tears
- Uneven wear patterns
- Foreign material on belt, oil, grease, dirt etc.

Inspect the auger pulleys:

- Broken sheave or hub
- Loose or missing mounting bolts
- Bent or "out-of-round" condition (pulley doesn't spin true)
- Misaligned pulleys
- Foreign material on pulleys, oil, grease, dirt, etc.
- Misaligned tension pulley
- Tension pulley loose or damaged
- Tension pulley and arm assembly operation
- Does the tension arm move freely both engaged and disengaged directions without binding?

- Misaligned tension pulley, the pulley should move parallel to the belt centered to the belt
- Check return spring operation and tension

Inspect the auger control lever (handle) and cable:

- Cable and connection damage
- Free movement (from engage to disengaged positions)
- Binding or improperly routed cable
- Cable pulley(s) damage, misalignment and binding
- Cable adjustment plate damaged or improper installation
- Handle damaged or binding at pivot

STORAGE & CLEANING

PROPER STORAGE PROCEDURES

WARNING! Never store your snow shrower for extended periods of time with fuel in the tank or carburetor. Fuel stabilizer can be added to the fuel in can to extend its shelf life for storage.

Store the unit 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.

CLEANING

1. To clean your Snow Thrower, use a damp cloth and mild detergent on the surfaces only. Never get soap or water inside the working mechanisms of your Snow Thrower.

Note: Do not clean with water. Water will freeze due to low temperature and damage the machine.

2. Clean the Snow Thrower of snow and ice buildup before storing or transporting. Be sure to secure the unit while transporting.
3. Inspect the Snow Thrower carefully for worn, loose, or damaged parts. Check connections and screws and tighten if necessary.

TROUBLESHOOTING

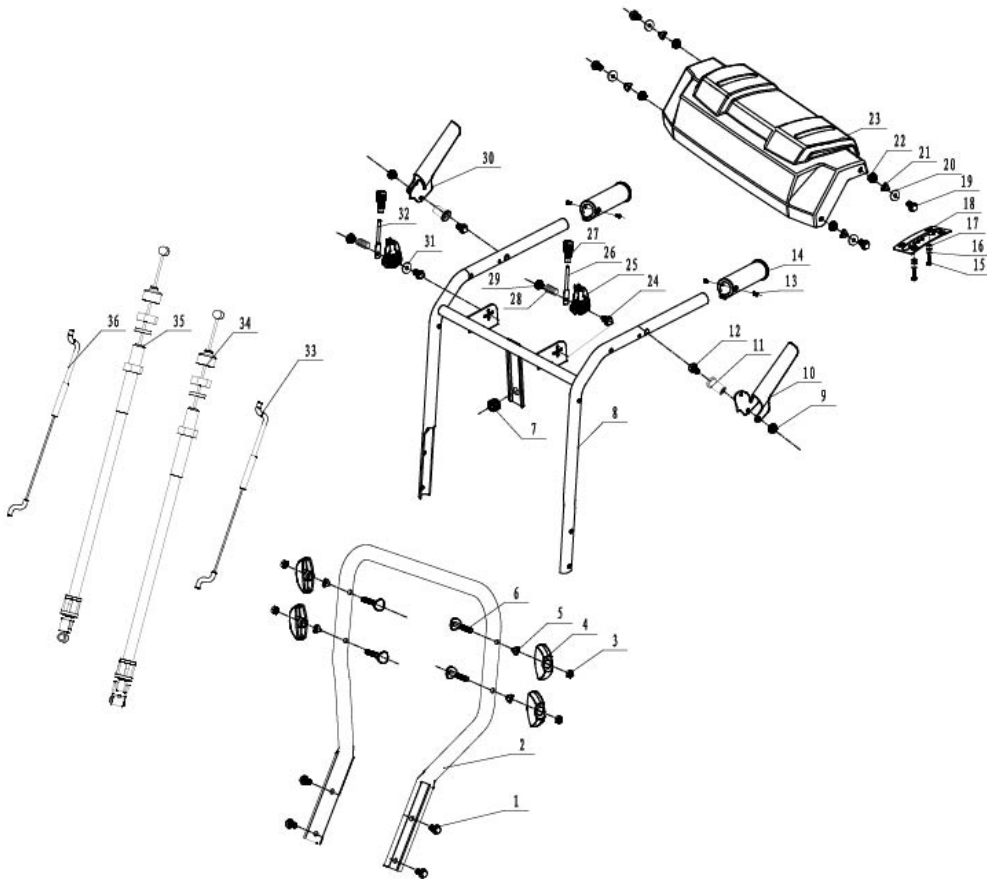
Problem	Causes	Remedy
<p>WARNING - Before attempting to make any inspections, repairs or adjustments, stop the engine, wait for all moving parts to stop moving and carefully disconnect the engine spark plug wire. If tipping or turning the snow blower is required for any inspection or repair, first wait until the engine is cool to the touch and then drain the engine of all fuel and oil into suitable containers and store or dispose of in a proper manner.</p>		
<p>Engine Systems - Note: For all engine problems, see the Engine Operator's manual for additional troubleshooting information and engine manufacturer contact information.</p>		
Engine Fails to Start (Engine cranks over)	Spark plug wire disconnected	Connect wire to spark plug
	Faulty spark plug	Clean, adjust gap, or replace spark plug, see Engine Operator's manual
	Engine flooded with fuel	Discontinue choke or primer use, clean or replace spark plug.
	Safety key not inserted in engine ignition	Insert key fully into the switch
	Choke not in START position	Move choke to START position, after engine starts slowly move to RUN position as engine speed and operation stabilizes at the set rpm. If engine still does not start move to half choke and crank engine.
	Engine not primed with fuel	Prime engine, see Engine Operator's manual
	Fuel incorrect, old or stale, will not ignite	Empty and clean fuel tank & carburetor, refill with fresh, clean gasoline. (Note: Fuel may become stale after 30 days in some cases)
	Blocked or clogged fuel system or line	Clean fuel system or line
	Fuel shut-off valve in OFF position	Turn fuel shut-off valve to ON position
	Extension cord is not properly attached to electric starter terminal	Re-insert extension cord into electric starter terminal.
Engine electric starter will not crank engine	No power from power supply, tripped breaker	Check power supply extension cord is attached to.
	Extension cord wire gauge is too small or cord is too long	Use proper rated and length extension cord, see Engine Operator's manual
	CHOKE in ON or partial ON position	Move CHOKE lever to RUN
Engine runs erratic, stalls or seems low on power	Fuel incorrect, old or stale	Empty and clean fuel tank & carburetor, refill with fresh, clean gasoline. (Note: Fuel may become stale after 30 days in some cases)
	Blocked or clogged fuel system or line	Clean fuel system or line
	Carburetor is in need of cleaning	Clean fuel system and carburetor
	Spark plug wire loose	Connect and tighten spark plug wire
	Faulty spark plug	Clean, adjust gap, or replace spark plug, see Engine Operator's manual
	Engine oil over filled	Drain oil to proper level. Oil should not be above the top 2 threads of LOWER fill plug.
	Engine oil level low or empty	Add oil

Problem	Causes	Remedy
Drive system		
No forward or reverse drive movement when drive handle engaged	Drive belt loose or damaged	Check drive belt tension pulley for damage or incorrect tension, repair as necessary. Replace drive belt.
	Friction drive wheel is worn or damaged	Replace friction drive wheel
	Friction drive wheel wet or slipping	Allow snow blower to dry and or warm up or adjust drive cable tension as necessary
	Wheel to axle pins broken or missing	Replace pins attaching wheels to axle
Drive speed control stuck in gear or won't change gears	Speed control lever loose or damaged, not moving speed control cables	Check speed control lever and cables for damage or loose or missing parts. Repair or replace parts as needed, ensure pivot stud spring tension is correct, adjust pivot nut spring tension as needed.
	Speed control cables loose, damaged or binding	Repair, adjust or replace as necessary
Drive speed control allows only 1 direction	Speed control cables misadjusted, loose, damaged or binding	Check speed control lever and cables for damage or loose or missing parts. Repair or replace parts as needed. Adjust drive speed control cables, see Drive Speed Control Cables Adjustment
Drive engaged when drive control handle released	Drive control cable binding, won't release	Repair, replace cable as necessary
	Friction drive wheel return spring broke or missing	Replace spring, adjust cable as necessary
Auger System		
Auger not rotating when auger control handle engaged or Not blowing snow or Poor snow blowing performance	Chute assembly clogged	Clean chute and inside of auger housing with clean-out tool
	Auger shear pins broken	Replace shear pins. Check each auger blade shear pin.
	Foreign object in auger or impeller causing auger to stop without shearing pins	Remove object from auger or impeller areas
	Auger belt loose, slipping, worn or damaged	Replace auger belt
	Auger belt tension cable loose, damaged or binding	Repair, adjust or replace as necessary
	Auger blade(s) damaged or bent	Replace auger blade(s)
	Auger gearbox mechanical damage, auger drive system not rotating freely (binding)	Check bearings, bushings and all system parts for damage or mechanical binding. Repair or replace as necessary using proper lubrication
	Impeller damaged	Replace impeller
	Impeller not connected to impeller shaft, impeller or shear pins broken	Replace shear pins or impeller as necessary
	Forward speed too fast while blowing snow, overload	Allow engine to maintain its speed.

Problem	Causes	Remedy
Auger System		
Auger belt broken, or repeated failure	Auger tension pulley arm return spring broken or missing	Replace tension arm return spring
	Auger tension pulley arm stuck or binding	Repair or replace tension arm as necessary
	Auger tension pulley arm or pulley misaligned or damaged	Repair, replace or align tension arm and or pulley as necessary
	Foreign material on pulleys and belt, oil, grease, dirt etc.	Clean belt and pulleys as necessary, replace belt if necessary
	Auger pulleys misaligned, loose, damaged or bent	Replace or align pulleys as necessary
	Incorrect or damaged auger belt	Replace with correct size and type belt
	Auger belt guide pin not adjusted	Adjust belt guide pin to within 1/8 to 3/16 in. from pulley. (Guide pin keeps belt in pulley when disengaged)
Auger rotating when auger control handle released	Auger tension pulley arm return spring broken or missing	Replace tension arm return spring

EXPLODED VIEW AND PARTS LIST

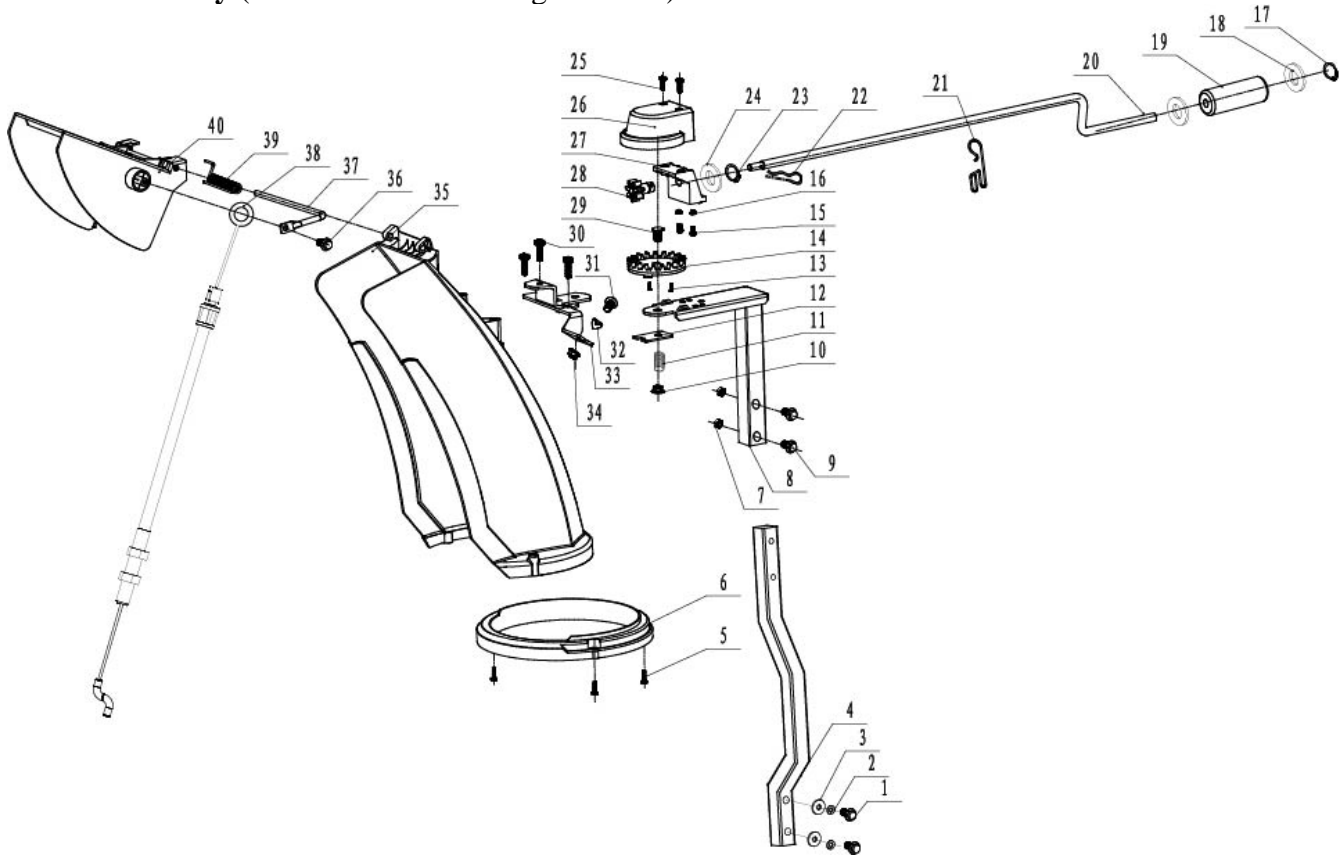
Panel Assembly (All Parts Number Begin with P)



Item	Stock #	Description	Qty
1	303020240	Flange Screw M8×20	4
2	303080530	Lower Handle	1
3	303030026	Nut M8	4
4	203020865	Knob	4
5	303043010	Saddle Washer 8	4
6	303020139	T-screw M8X55	4
7	203020881	Rubber Washer	1
8	303180951	Upper handle	1
9	303030025	Cap Nut M6	2
10	303070273B	Auger Control	1
11	303160235	Spacer	2
12	303020297	Flange Screw M6×4	2
13	303010237	Screw ST4x10	4
14	203070007	handle Grip	2
15	303010176	Screw M6x16	2
16	303042042	Flat Washer 6	2
17	303160746	Cushion Cover	2
18	303071057	Shift Plate	1

Item	Stock #	Description	Qty
19	303020275	Flange Screw M8x40	4
20	303042013	Flat Washer 8	4
21	303043010	Saddle Washer 8	4
22	303030036	locknut M8	4
23	203050373	Operation Panel	1
24	303020312	Flange Screw M8×55	2
25	203021099	Cable Holder	2
26	303071016	Control Rod	1
27	203070079	Knob	2
28	303130074	Press Spring	2
29	303020380	Locknut M8	2
30	303070272B	Drive Control	1
31	203020380	Tooth Washer	1
32	303160748	Shift Control Rod	1
33	303200103	Upper Auger Cable	1
34	303200104	Shift Control Cable Right	1
35	303200105	Shift Control Cable Left	1
36	303200106	Upper Drive Cable	1

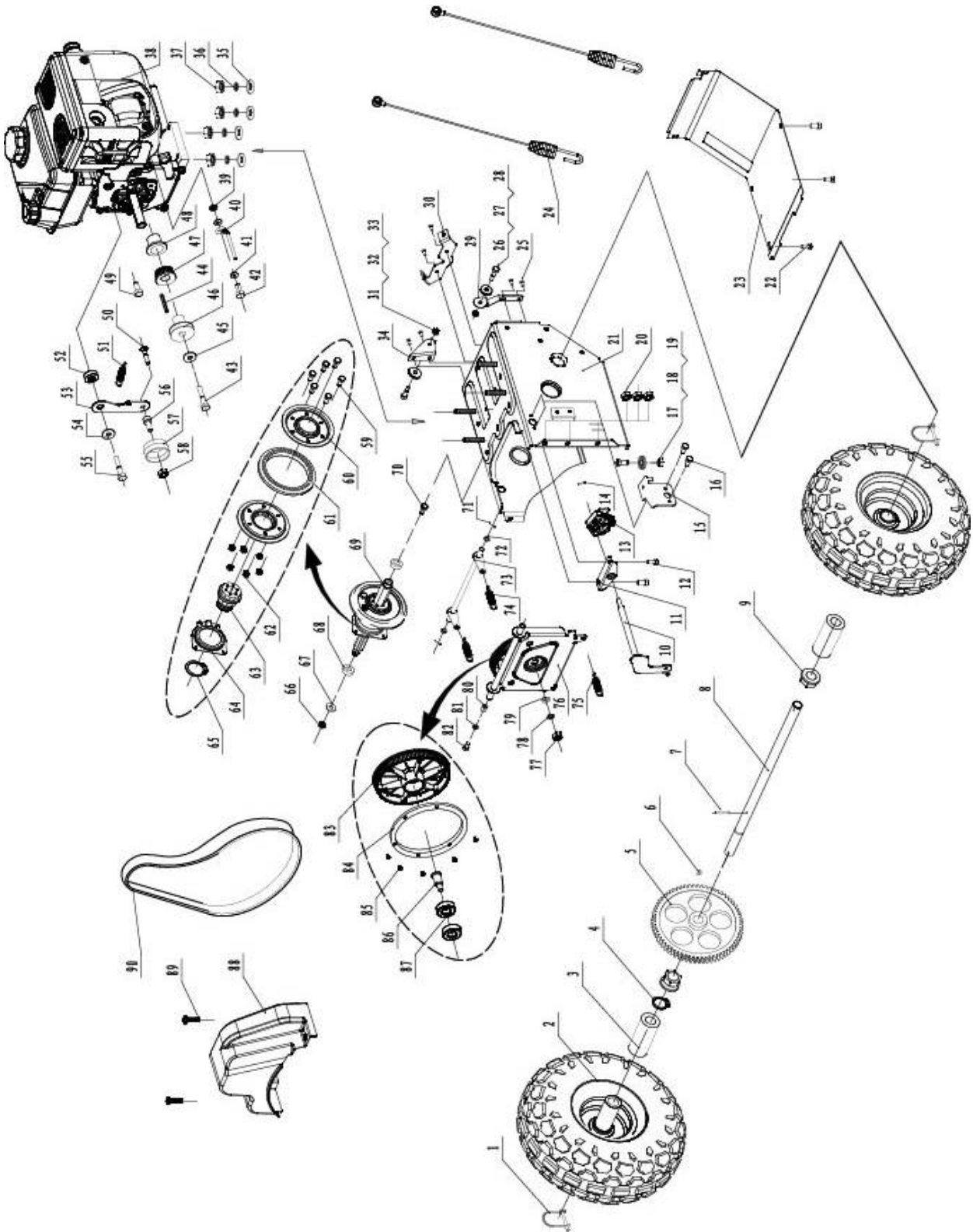
Chute Assembly (All Parts Numbers Begin with C)



Item	Stock #	Description	Qty
1	303020275	Bolt M8x40	2
2	303041022	Spring Washer 8	2
3	303042023	Flat washer 8	2
4	303080523	Support Tube	1
5	303010176	Screw	3
6	203010820	Discharge Chute Seat	1
7	303030087	locknut M6	2
8	303180953	Chute Direction Base	1
9	303020546	Flange Bolt M6x40	2
10	303030077	Locknut M8	1
11	303130325	Spring	1
12	303071021	Bracket	1
13	303010270	Screw 4x14	2
14	203021301	Steering Gear	1
15	303020246	Flange Bolt M6x16	2
16	303030032	Locknut M6	2
17	303050029	Snap Ring 10	1
18	303042004	Flat Washer 10	2
19	203020371	Chute Direction Knob	1
20	303160662	Z-lever	1

Item	Stock #	Description	Qty
21	303130339	Clip	1
22	303160737	Cutter Pin	1
23	303050032	Snap Ring 13	1
24	303042130	Flat Washer 13	1
25	303010270	Screw 4x14	2
26	203010825	Steering Gear Cover	1
27	203010818	Gear Holder	1
28	303060131	Steering Pinion Gear	1
29	303020165	Square Neck Bolt M8x55	1
30	303010176	Screw 6x16	3
31	303020246	Flange Bolt M6x16	1
32	303071025	Tension Bracket	1
33	303071017A	Gear Bracket	1
34	303030032	Locknut M6	1
35	203050376	Discharge Chute	1
36	303010176	Screw 6x16	1
37	303160657	Fixed Link	1
38	302080047	Chute Deflector Cable	1
39	303130324	Tension Spring	1
40	203050377	Chute Deflector	1

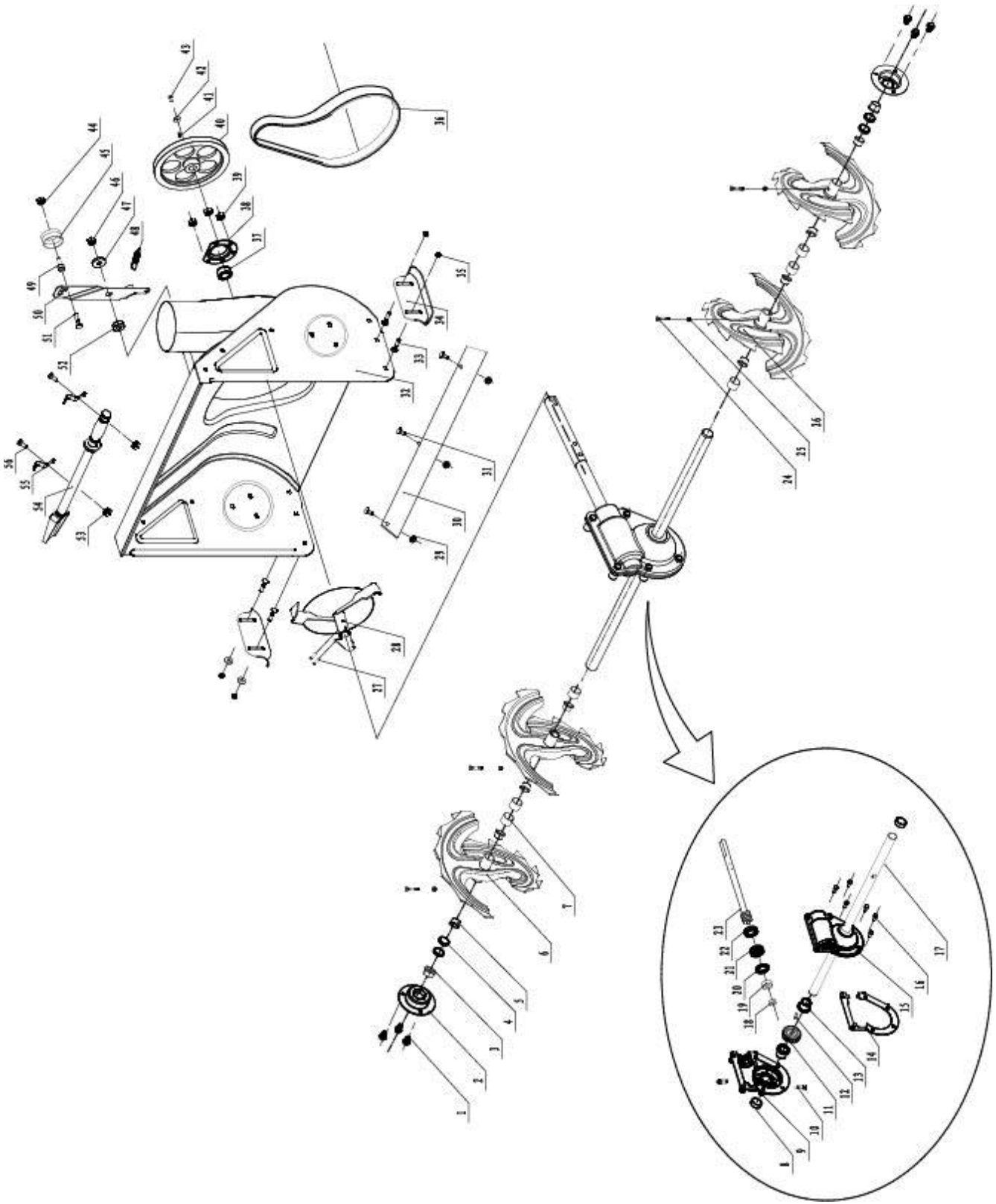
Frame Assembly (All Parts Number Begin with F)



Item	Stock #	Description	Qty
1	303122002	Dowel Pin	2
2	302090217	Wheel Assembly	2
3	203050140	Spacer Bush	2
4	303050028	Closing Ring	1
5	303160140	Big Gear	1
6	303110022	Woodruff Key	1
7	303123008	Elastic Cylindrical Pin	1
8	303170016	Wheel Shaft	1
9	303060030	Hex Flange Bearing	2
10	303180027	Track Shift Rod Assembly	1
11	303180028	Shift Frame Bracket	1
12	303020492	Flange Screw M6×10	2
13	203020362A	Lower Shift Cable Control	1
14	303121004	Cotter Pin	1
15	303070133A	Guide Roller Bracket	1
16	303020444	Hex Flange Washer Bolt	2
17	303030032	Locknut M6	1
18	203020364	Guide Roller	1
19	303160177	Screw	1
20	303030077	Nut M8	6
21	303180950	Frame Assembly	1
22	303020444	Hex Washer Screw M6×12	6
23	203070078	Big Frame Cover	1
24	303200012	Lower Auger Cable	2
25	303020444	Flange Screw M6×12	6
26	303160177	Screw	1
27	203020364	Guide Roller	1
28	303030032	Locknut	1
29	303070134A	Guide Roller Bracket	1
30	303070206	Cable Bracket	1
31	303030032	Locknut	1
32	303070418A	Guide Roller	1
33	303160177	Screw	1
34	303070418A	Guide Roller Bracket	1
35	303042023	Flat Washer	4
36	303041022	Spring Washer	4
37	303030066	Nut	4
38	202010104	Engine	1
39	303043016	Lock Washer	1
40	303080144	Belt Keeper	1
41	303042023	Flat Washer	2
42	303020265	Flange Bolt	1
43	303020124	Flange Bolt	1
44	303042005	Flat Washer	1
45	303160151	Small Pulley	1

Item	Stock #	Description	Qty
46	303110014	Flat Key	1
47	303060041	Small Synchronous Pulley	1
48	303060060	Bush	1
49	303160432	Screw	1
50	303020154	Square Neck Bolt M8x40	1
51	303130094	Small Tension Spring	1
52	303160191	Spacer	1
53	303070202	Small Flat Idler	1
54	303042005	Flat Washer	1
55	303020265	Flange Bolt	1
56	303160195A	Sleeve	1
57	203100003	Tension Wheel	1
58	303030077	Flange Screw	1
59	303020444	Flange Bolt	6
60	303070168A	Friction Wheel Clamp	2
61	302100001	Rubber Ring	1
62	303030087	Locknut	6
63	303060032	Wheel Shaft	1
64	303210003	Fork Riveting	1
65	303050021	shaft Ring	1
66	303030059	Locknut	1
67	303042004	Flat Washer	1
68	303100051	6203ZN Ball Bearing	2
69	303160445B	Wheel Drive Shaft	1
70	303020494	Flange Bolt	1
71	303121011	Cotter Pin	2
72	303042004	Flat Washer	2
73	303180037	Drive Bracket	1
74	303130073	Extension Spring	2
75	303130072	Extension Spring	1
76	303180274A	Friction Disk Bracket	1
77	303030068	Nut M10x1	1
78	303041015	Washer 10	1
79	303042004	Flat Washer 10	1
80	303160308	Support Shaft Tube	1
81	303042001	Flat Washer	1
82	303020444	Flange Bolt	1
83	303090029	Large Synchronous Belt Wheel	1
84	303090030A	Rim Section	1
85	303020175	Bolt	6
86	303160144	Axle	1
87	303100034	Ball Bearing	2
88	203050051	Belt Cover	1
89	303020248	Flange Screw M6×12	2
90	302040026	Synchronous Belt	1

Auger Housing Assembly (All Parts Number Begin with H)



Item	Stock #	Description	Qty
1	303020245	Flange Screw M8x14	6
2	303070234	Bearing Housing	2
3	203060013	Plastic Bearings	2
4	203050109	Spacer	4
5	203060012	Flange Bushing	8
6	303180424	Auger Assembly R	2
7	203050108	Spacer	6
8	302130005	Reinforced Seal	2
9	303090032	Worn Gear Case L	1
10	303020142	Bolt M8x10	2
11	303090033	Worm Gear	1
12	303110022	woodruff Key 5x7.5x19	1
13	303060055	Flange Bushing	2
14	303070260	Seal	1
15	303090031	Worn Gear Case R	1
16	303020489	Screw M6x18	6
17	303160447	24-inch Auger Axle	1
18	303100030	6001Z Bearing	1
19	303100035	6904Z Bearing	1
20	303070179	Washer	1
21	303100039	51104 Bearing	1
22	302130002	Reinforced Seal	1
23	303160204	Worm Shaft	1
24	303160355	Shear Pin	4
25	303030032	Locknut	4
26	303180425	Auger Assembly L	2
27	303123006	Elastic Cylindrical Pin 6x35	2
28	303180709A	Impeller	1

Item	Stock #	Description	Qty
29	303030076	Nut M8	3
30	303070929A	24-inch Shave Plate	1
31	303020542	Square Neck Bolt M8X18	3
32	303180952	Auger Housing Assembly	1
33	303020166	Square Neck Bolt M8x18	4
34	303070197	Skid Shoe	2
35	303030077	Flange Nut M8	4
36	302040065	Auger Belt	1
37	303100040	UC204 Ball Bearing	1
38	303070233	Keeper	1
39	303030077	Flange Nut M8	3
40	303160143	Big Pulley	1
41	303110014	Flat Key	1
42	303042005	Flat Washer	1
43	303020279	Flange Bolt M8x20	1
44	303030077	Flange Nut M8	1
45	203100003	Tension Pully Assembly	1
46	303030059	Locknut M10	1
47	303043019	Butterfly Washer	1
48	303160175	Extension Spring	1
49	303160195A	Bushing	1
50	303070126	Idler Arm	1
51	303020166	Square Neck Bolt M8x18	4
52	303160172	Bushing	1
53	303030087	Locknut M6	2
54	203050057	Clean-out Tool	1
55	303070170	Clean-out Tool Bracket	2
56	303020213	Screw	2

TWO (2) YEARS LIMITED WARRANTY

PowerSmart is committed to building tools that are dependable for years. Our warranties are consistent with our commitment and dedication to quality.

TWO (2) YEARS LIMITED WARRANTY OF POWER SMART PRODUCTS FOR HOME USE.

PowerSmart ("Seller") warrants to the original purchaser only, that all PowerSmart consumer power tools will be free from defects in material or workmanship for a period of two (2) years from date of purchase. Ninety (90) days for all PowerSmart Products, if the tool is used for professional or commercial use.

SELLER'S SOLE OBLIGATION AND YOUR EXCLUSIVE REMEDY under this Two (2) Years Limited Warranty and, to the extent permitted by law, any warranty or condition implied by law, shall be the repair or replacement of parts, without charge, which are defective in material or workmanship and which have not been misused, carelessly handled, or misrepaired by persons other than Seller or Authorized Service Center. To make a claim under this Limited Warranty, you must return the entire power tool product; transportation prepaid, to PowerSmart Include a legible copy of the original receipt, which lists the date of purchase (month and year) and the name of the company purchased from.

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