

24"/30" Snow Blower Wheel Drive



⚠ WARNING



Please read and understand the product manual completely before assembly

- Check the parts list to make sure all parts are received.
- Wear safety goggles or other protective gear while assembling.
- Do not return products to dealers, who are not equipped to handle returns.

Missing parts or questions about assembly?

Email: cs@tmgindustrial.com

Or visit: tmgindustrial.com



Table of Contents

1. Introduction..... 2

2. Recycling and Disposal 2

3. Symbols 3

4. Safety 4

5. Contents Supplied 8

6. Assembly..... 9

7. Know Your Machine 13

8. Operation..... 21

9. Maintenance..... 24

10. Service 26

11. Troubleshooting 33

12. Exploded View & Parts List..... 35

1. Introduction

Your new snow thrower will more than satisfy your expectations. It has been manufactured under stringent quality standards to meet superior performance criteria. You will find it easy and safe to operate, and with proper care, it will give you many years of dependable service.

Carefully read through this entire operator's manual before using your new snow thrower. Take special care to heed the cautions and warnings.

Your snow thrower has many features that will make your job faster and easier. Safety, performance, and dependability have been given top priority in the development of this machine, making it easy to maintain and operate.

The Engine manufacturer is responsible for all engine-related issues with regard to performance, power rating, specifications, warranty and service. Please refer to the Engine Manufacturer's owner's/operator's manual, packed separately with your unit, for more information.

Specification

Item	Parameter	
Model No.	TMG- GSBW24	TMG-GSBW30
Clearing Width	62 cm / 24 inch	77 cm / 30 inch
Intake Height	53.5 cm / 21 inch	
Auger Dia.	30.0 cm / 12 inch	
Impeller Dia.	30.0 cm / 12 inch	
Speed	6F + 2R	

2. Recycling and Disposal

This marking indicates that this product should not be disposed with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or check with your local authority or local stores for advice of environmentally safe recycling.



3. Symbols

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



Read these instructions for use carefully.



Wear eye protection.
Wear hearing protection.



Wear safety footwear.



Keep bystanders away.



Stop engine and remove ignition key prior to leaving the operator's position.



Only use clean-out tool to clear blockage. Never use your hands.



It is forbidden to remove or tamper with the protection devices and safety devices.



Do not smoke or have open flames.



Do not touch a hot muffler, gear housing or cylinder.



Stop engine, remove key, read manual before making any repairs or adjustments.



Keep hands out of the inlet and discharge openings while machine is running.



Stay away from rotating augers.



Never direct discharge towards persons or property.



Do not stare at the headlight. Risk of damage to eyesight.

4. Safety

4.1 General Safety Rules

Understand your machine

Allow operation only by a properly trained adult, never children.

Read and understand the operator's manual and labels affixed to the machine. Learn its application and limitations as well as the specific potential hazards peculiar to it.

Be thoroughly familiar with the controls and their proper operation. Know how to stop the machine and disengage the controls quickly.

Make sure to read and understand all the instructions and safety precautions as outlined in the Engine Manufacturer's Manual, packed separately with your unit. Do not attempt to operate the machine until you fully understand how to properly operate and maintain the Engine and how to avoid accidental injuries and/or property damage.

Work area

Never start or run the engine inside a closed area. The exhaust fumes are dangerous, containing carbon monoxide, an odorless and deadly gas. Operate this unit only in a well ventilated outdoor area.

Never operate the machine without good visibility or light.

Never operate the machine on a steep slope.

Personal safety

Do not operate the machine while under the influence of drugs, alcohol, or any medication that could affect your ability to use it properly.

Dress properly. Wear heavy long pants, boots and gloves. Do not wear loose clothing, short pants, and jewelry of any kind. Secure long hair so it is above shoulder level. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.

Use safety equipment. Always wear eye protection. Safety equipment such as a dust mask, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

Check your machine before starting it. Keep guards in place and in working order. Make sure all nuts, bolts, etc. are securely tightened. Disengage all clutches and shift into neutral before starting the engine.

Never operate the machine when it is in need of repair or is in poor mechanical condition. Replace damaged, missing or failed parts before using it. Check for fuel leaks. Keep the machine in safe working condition.

Never tamper with safety devices. Check their proper operation regularly.

Do not use the machine if the engine's throttle control does not turn it on or off. Any gasoline powered machine that can not be controlled with the engine throttle control is dangerous and must be replaced.

Form a habit of checking to see that keys and adjusting wrenches are removed from machine area before starting it. A wrench or a key that is left attached to a rotating part of the machine may result in personal injury.

Stay alert, watch what you are doing and use common sense when operating the machine.

Do not overreach. Do not operate the machine while barefoot or when wearing sandals or similar lightweight footwear. Wear protective footwear that will protect your feet and improve your footing on slippery surfaces. Keep proper footing and balance at all

times. This enables better control of the machine in unexpected situations.

Avoid accidental starting. Be sure the engine's throttle control is off before transporting the machine or performing any maintenance or service on the unit. Transporting or performing maintenance or service on a machine with its throttle control on invites accidents.

Fuel safety

Fuel is highly flammable, and its vapors can explode if ignited. Take precautions when using to reduce the chance of serious personal injury.

When refilling or draining the fuel tank, use an approved fuel storage container while in a clean, well-ventilated outdoor area. Do not smoke, or allow sparks, open flames or other sources of ignition near the area while adding fuel or operating the unit. Never fill fuel tank indoors.

Keep grounded conductive objects, such as tools, away from exposed, live electrical parts and connections to avoid sparking or arcing. These events could ignite fumes or vapors.

Always stop the engine and allow it to cool before filling the fuel tank. Never remove the cap of the fuel tank or add fuel while the engine is running or when the engine is hot. Do not operate the machine with known leaks in the fuel system.

When practical, remove the machine from the truck or trailer and refuel it on the ground. If this is not possible, then refuel the machine on a trailer with a portable container, rather than from a fuel dispenser nozzle.

Loosen the fuel tank cap slowly to relieve any pressure in the tank.

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.

Never overfill fuel tank. Fill tank to no more than 12.5mm (1/2") below the bottom of the filler neck to provide space for expansion as the heat of the engine and/or sun causes fuel to expand.

Replace all fuel tank and container caps securely and wipe up spilled fuel. Never operate the unit without the fuel cap securely in place.

Avoid creating a source of ignition for spilled fuel. If fuel is spilled, do not attempt to start the engine but move the machine away from the area of spillage and avoid creating any source of ignition until fuel vapors have dissipated. Serious personal injury can occur when fuel is spilled on yourself or your clothes which can ignite. Wash your skin and change clothes immediately.

Store fuel in containers specifically designed and approved for this purpose.

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.

Store fuel in a cool, well-ventilated area. Safely away from sparks, open flames or other sources of ignition.

Never store fuel or machine with fuel in the tank inside a building where fumes may reach a spark, open flame, or other sources of ignition, such as a water heater, furnace, clothes dryer and the like. Allow the engine to cool before storing in any enclosure.

Machine use and care

Never pick up or carry a machine while the engine is running.

Do not force the machine. Use the correct machine for your application. The correct machine will do the job better and safer at the rate for which it was designed.

Do not change the engine governor settings or over-speed the engine. The governor controls the maximum safe operating speed of the engine.

Do not put hands or feet near rotating parts. Avoid contact with hot fuel, oil, exhaust fumes and hot surfaces. Do not touch the engine or muffler. These parts get extremely hot from operation. They remain hot for a short time after you turn off the unit. Allow the engine to cool before doing maintenance or making adjustments.

After striking a foreign object, stop the engine, remove the wire from the spark plug, thoroughly inspect the machine for any damage, and repair the damage before restarting and operating the machine.

If the machine should start to make an unusual noise or vibration, immediately shut off the engine, disconnect the spark plug wire, and check for the cause. Unusual noise or vibration is generally warning of trouble.

Use only attachments and accessories approved by the manufacturer. Failure to do so can result in personal injury.

Maintain the machine. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the machine's operation. If damaged, have the machine repaired before use. Many accidents are caused by poorly maintained equipment.

Keep the engine and muffler free of grass, leaves, excessive grease or carbon build up to reduce the chance of a fire hazard.

Never douse or squirt the unit with water or any other liquid. Keep handles dry, clean and free from debris. Clean after each use.

Observe proper disposal laws and regulations for gas, oil, etc. to protect the environment.

Store idle machine out of the reach of children and do not allow persons unfamiliar with the machine or these instructions to operate it. Machine is dangerous in the hands of untrained users.

Service

Before cleaning, repairing, inspecting, or adjusting shut off the engine and make certain all moving parts have stopped. Always make sure the engine's throttle control is in its STOP position. Disconnect the spark plug wire, and keep the wire away from the plug to prevent accidental starting.

Have your machine serviced by qualified repair personnel using only identical replacement parts. This will ensure that the safety of the machine is maintained.

4.2 Specific Safety Rules

Do not operate without wearing adequate winter outer garments.

Do not use the machine on a roof.

Do not run the engine indoors, except when starting the engine and for transporting the snow thrower in or out of the building. Open the outside doors; exhaust fumes are dangerous.

Always check overhead and side clearances carefully before operation. Always be aware of traffic when operating along streets or curbs.

Thoroughly inspect the area to be worked. Keep the working area clean and free of toys, doormats, newspapers, sleds, boards, wires and other foreign objects, which could be tripped over or thrown by the auger/impeller. Check for weak spots on docks, ramps or floors.

Plan your snow-throwing pattern to avoid discharge toward people or areas where property damage can occur.

Do not operate near drop-offs, ditches, or embankments. The machine can suddenly turn over if a wheel is over the edge of a cliff or ditch, or if an edge caves in.

Keep all bystanders, children, and pets at least 23m (75 feet) away. If you are approached, stop the unit immediately.

Use a grounded three-wire extension cord and receptacle for all machines with electric start engines.

Check clutch and brake operation frequently. Adjust and service as required. All motion of drive wheels and auger/impeller must

stop quickly when control levers are released.

Let engine and machine adjust to outdoor temperature before starting to clear snow.

Stay alert for hidden hazards or traffic.

Do not overload machine capacity by attempting to clear snow at too fast of a rate.

Do not throw snow any higher than necessary.

Adjust auger housing height to clear gravel or crushed rock surfaces. Exercise extreme caution when operating.

Exercise caution to avoid slipping or falling, especially when operating in reverse. Never operate machine at high transport speeds on slippery surfaces. Always look down and behind before and while backing.

Do not operate on steep slopes. Do not clear snow across the face of slopes. Keep all movement on slopes slow and gradual. Do not make sudden changes in speed or direction. Use a slow speed to avoid stops or shifts on slopes. Avoid starting or stopping on a slope. Do not park machine on a slope unless absolutely necessary. When parking on a slope, always block the wheels.

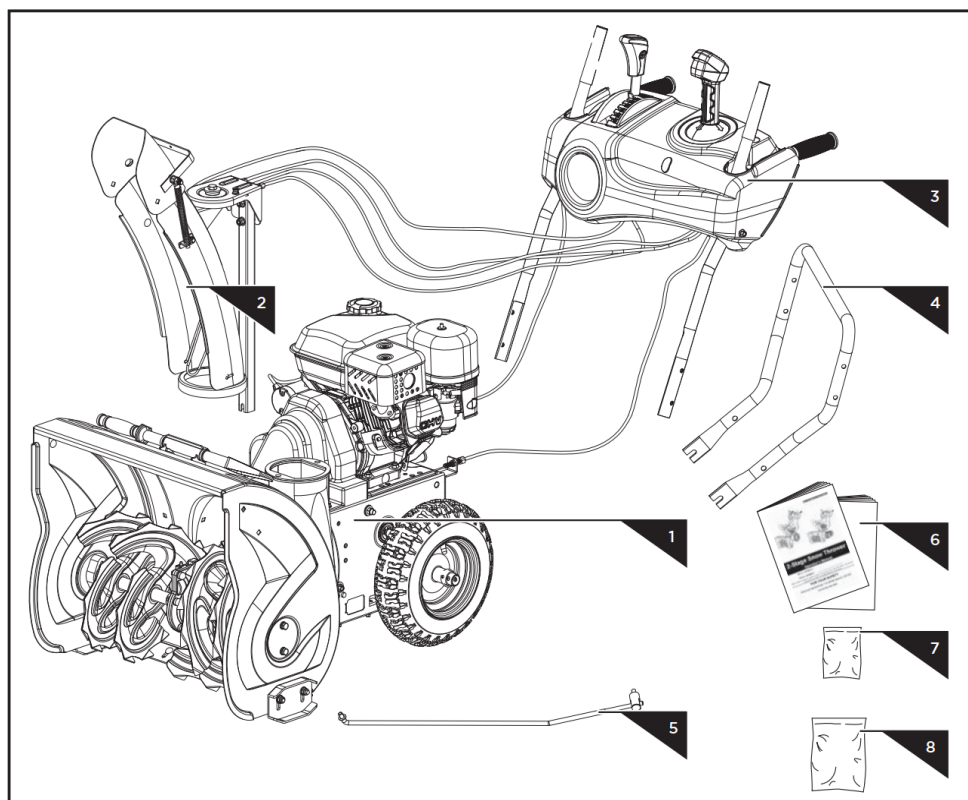
Disengage power to the auger/impeller when transporting or not in use.

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.

Hand contact with the rotating impeller inside the discharge chute is the most common cause of injury associated with snow throwers. Do not unclog chute assembly while engine is running. Shut off engine and remain behind handles until all moving parts have stopped before unclogging. Never put your hand in the discharge or collector openings. Always use the clean-out tool provided to unclog the discharge opening.

5. Contents Supplied

The snow thrower comes partially assembled and is shipped in carefully packed carton. After all the parts have been removed from the carton, you should have:



All references to the left or right side of the snow thrower are from the operator's position.

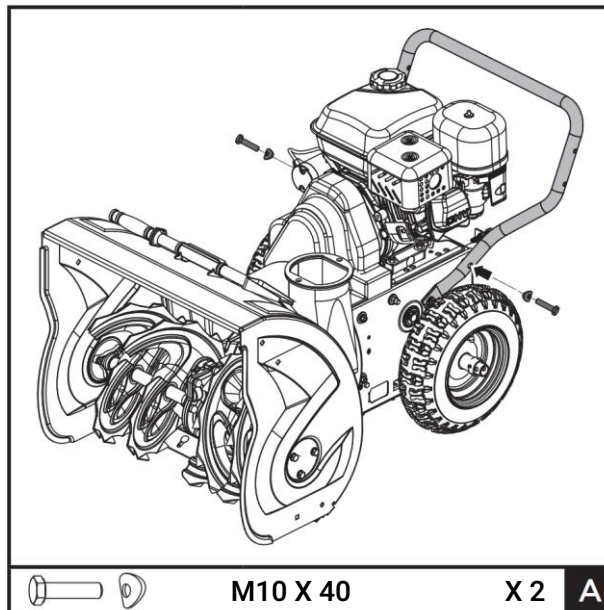
1. Snow Thrower Unit
2. Discharge Chute
3. Handlebars
4. Lower Handle
5. Shift Rod
6. Operator's Manual & Engine Manual
7. Engine Hardware Bag
8. Snow Thrower Hardware Bag, including

	M10 X 40	X 2	A
	M8 X 45	X 4	B
	M8 X 20	X 2	C
	M8 X 25	X 2	
		X 2	
	M8 X 35	X 2	D
		X 1	E
		X 1	F
	M8	X 1	G
		X 2	H
		X 2	
	6 X 37	X 2	I

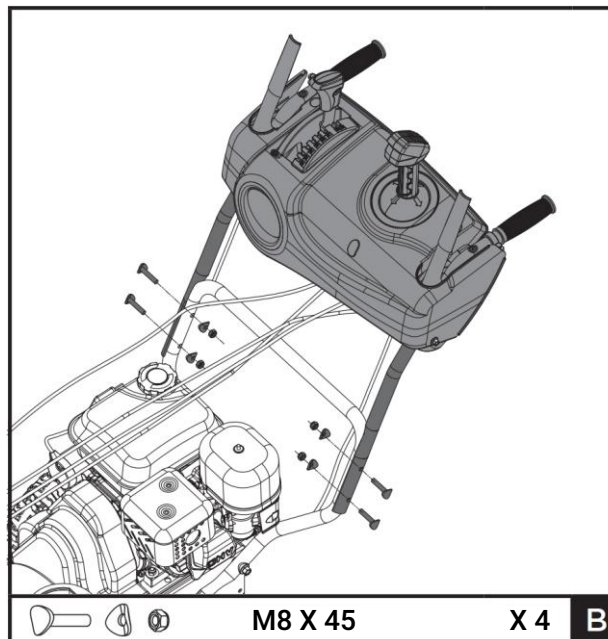
6. Assembly

Following the assembly directions below, you will assemble the snow thrower in a few minutes.

Handlebars



1. Align the holes in the handle with the side plates and secure lower handle with the screws and the washers until they are finger tight.
2. Keep the lower handle level and tighten all four screws.



3. Raise the handlebars into operation position and secure the handlebars with M8X45 screws, washers and nuts until they are finger tight.
4. Ensure that the handles are at the same height, and then tighten the fasteners securely.

Tires

The tires are over-inflated at factory for shipping purposes. Check the pressure in the tires. Reduce or increase pressure equally in both tires to the manufacturer's recommended pressure.

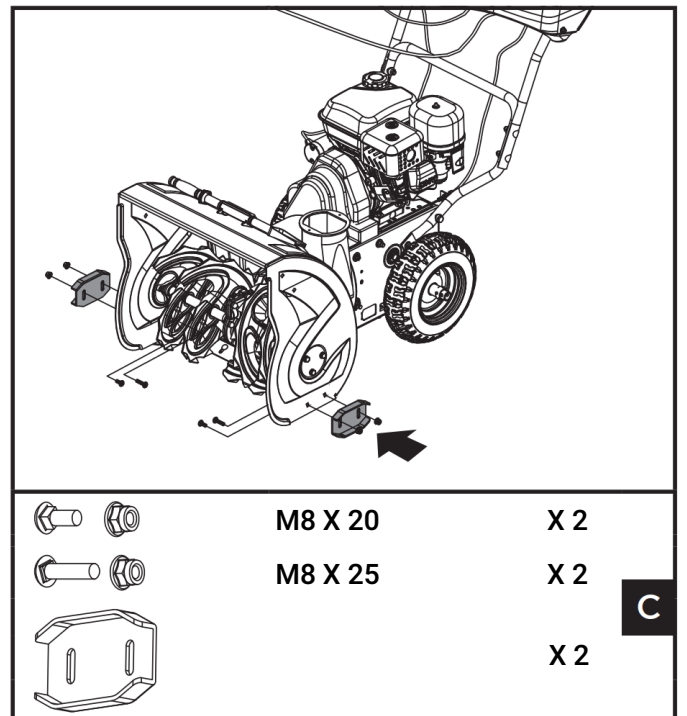
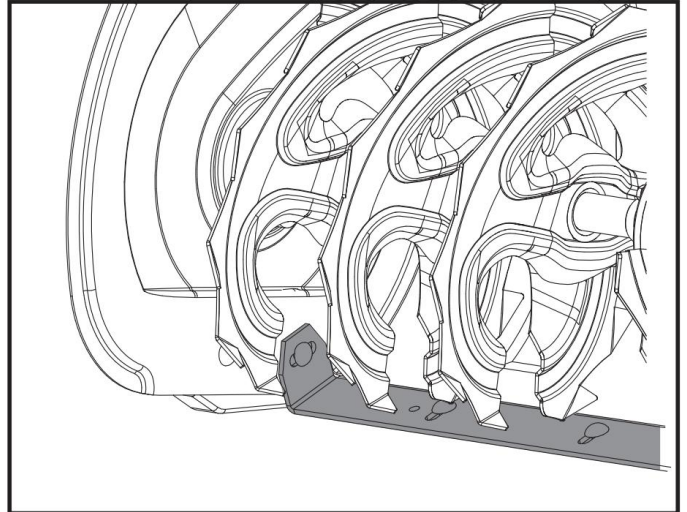
WARNING

Under any circumstance do not exceed manufacturer's recommended pressure. Excessive pressure when seating beads may cause tire/rim assembly to burst with force sufficient to cause serious injury. Refer to side wall of tire for recommended pressure. Equal tire pressure should be maintained at all times. If the tire pressure is not equal in both tires, the machine may not travel in a straight path and the scraper blade may wear unevenly. Keep tires free of gasoline and oil, which can harm rubber.

Add oil according to Engine Manual packed separately with your unit.

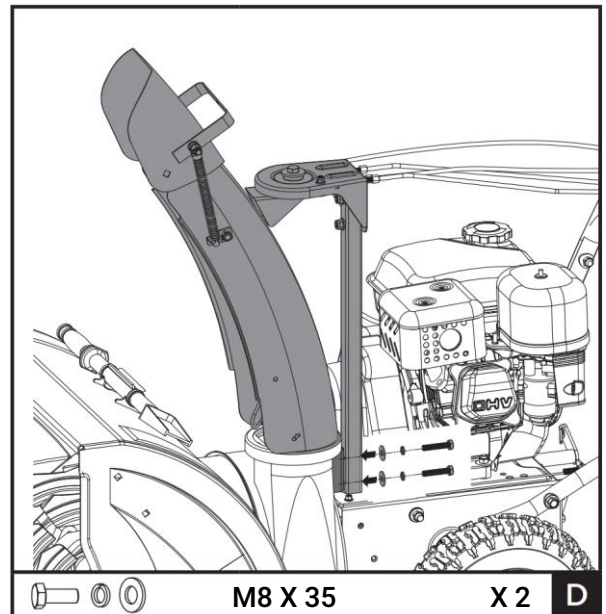
Skid Shoes

1. Move the machine to a level surface.
2. Support the auger blades so that they are 3mm (1/8") off the ground.
3. Check the scraper blade adjustment. The scraper blade should be 3mm (1/8") above and parallel to a level ground. To adjust the scraper blade, loosen the mounting screws, level the scraper blade, and tighten the mounting screws.
4. Attach both skid shoes to the auger side plates with the screws and nuts. Move the skid shoes down as far as possible. Be sure both skid shoes are adjusted evenly. Tighten securely.



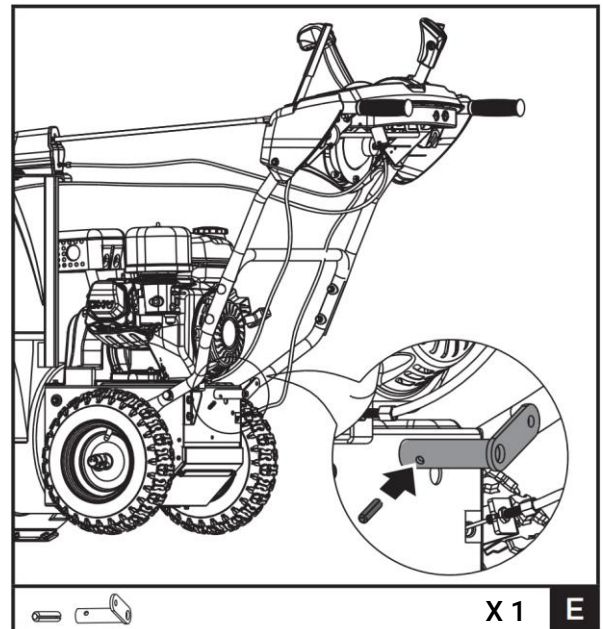
Discharge Chute

1. Grease underside of discharge chute ring (if not already greased).
2. Install discharge chute over opening in the auger housing. Orient the chute and pedestal to its most vertical position and tighten pedestal hardware.
3. Connect the deflector control cable eyelet to the chute deflector as shown. Tighten securely. Eyelet will be loose on shoulder bolt.
4. Insert the cable fitting into the cable bracket on discharge chute.
5. Adjust and tighten jam nut.

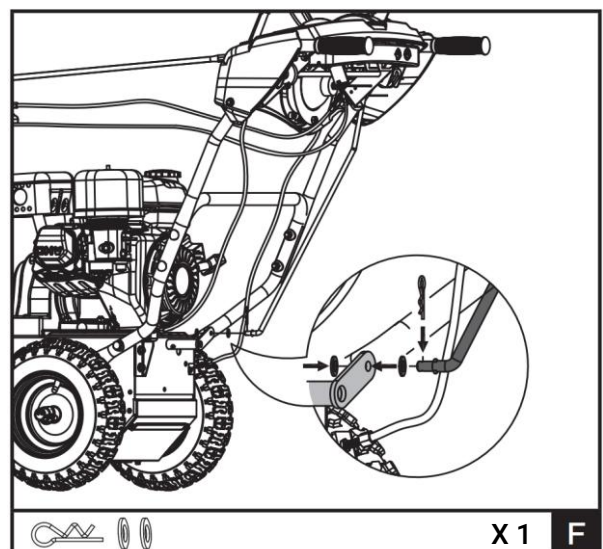


Speed Shift Linkage

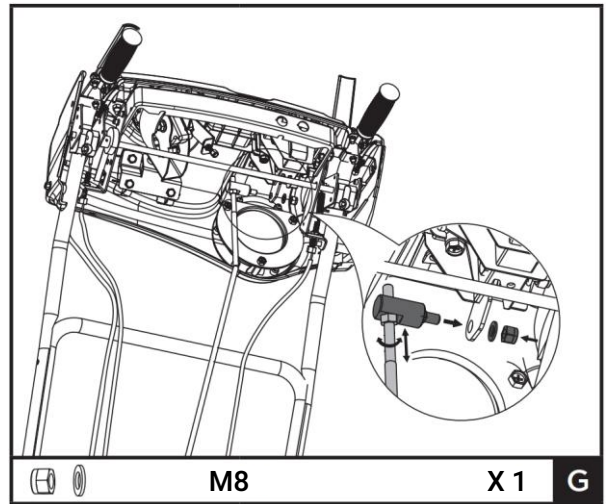
1. Place the shift arm on shift yoke. Line up the holes in the shift arm and shift yoke. Insert a roll pin through the holes.
If engine power is greater than 9HP, then no need to do this step because this part was already assembled in the unit at the factory.



2. After the shift rod with a flat washer has been inserted through the hole in the shift arm, add the other flat washer on the shift rod, and secure with a clevis pin



3. Lift up on the shift rod. Loosen the jam nut under the trunnion and thread the trunnion along the shift rod until it fits into the hole in the shift lever. Tighten the jam nut and Install washer and M8 nut. Tighten securely.



Replacement Shear Pins

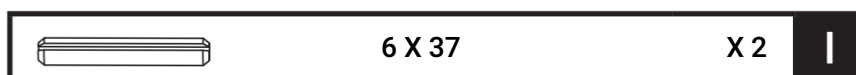
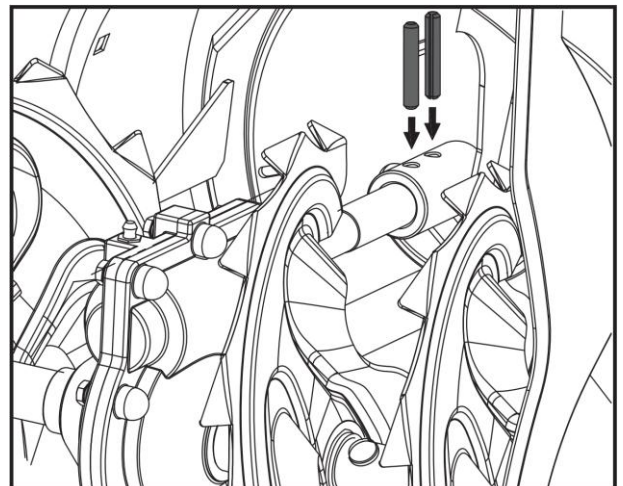
A pair of replacement auger shear pins and clevis pins are included with your snow thrower. Store them in a safe place until needed.



Spare Roll Pins

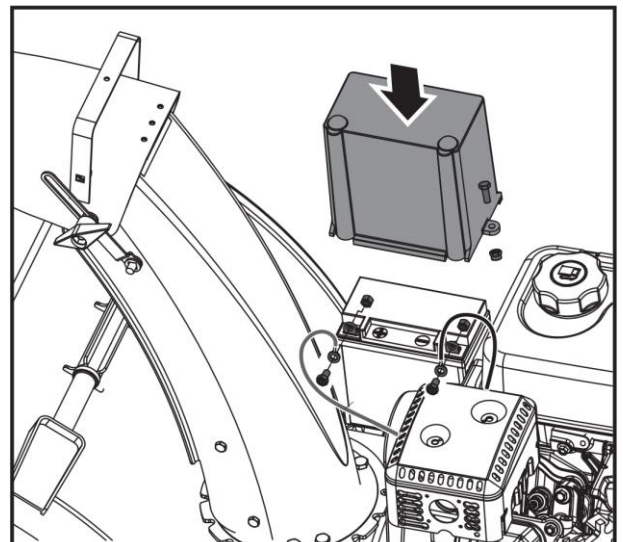
The impeller is secured to the impeller shaft with roll pins.

Three 6x37 roll pins for impeller are supplied as spare in the hardware bag. Store them in a safe place until needed.



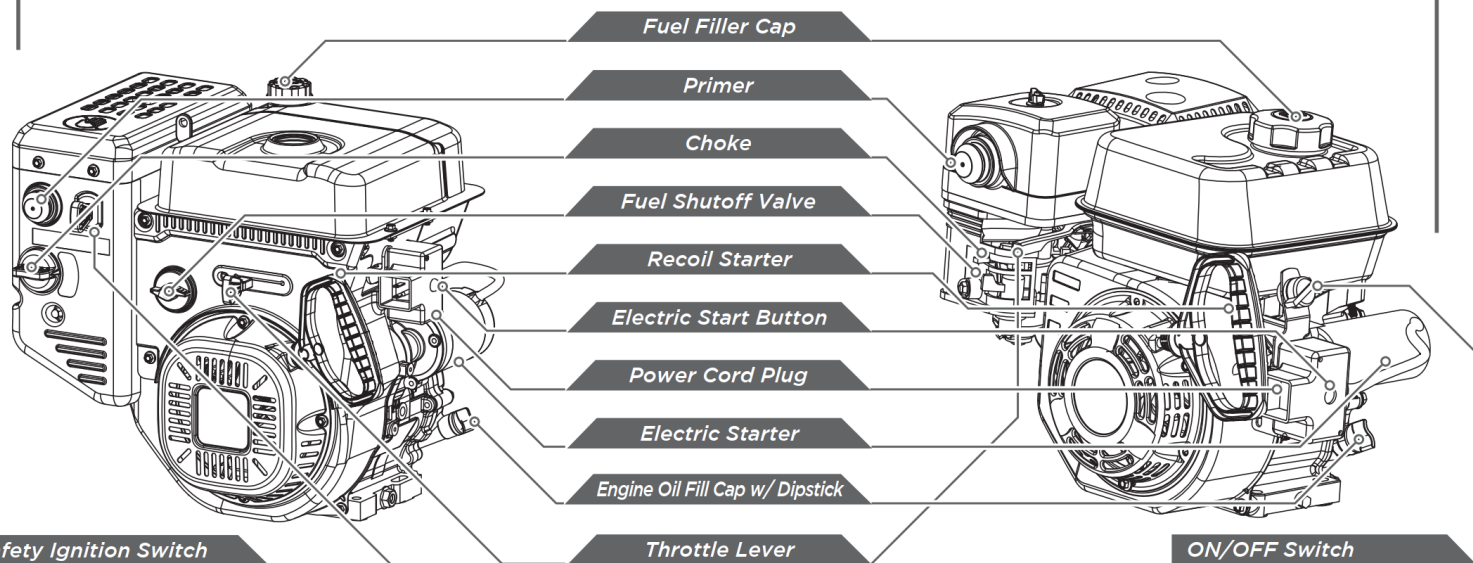
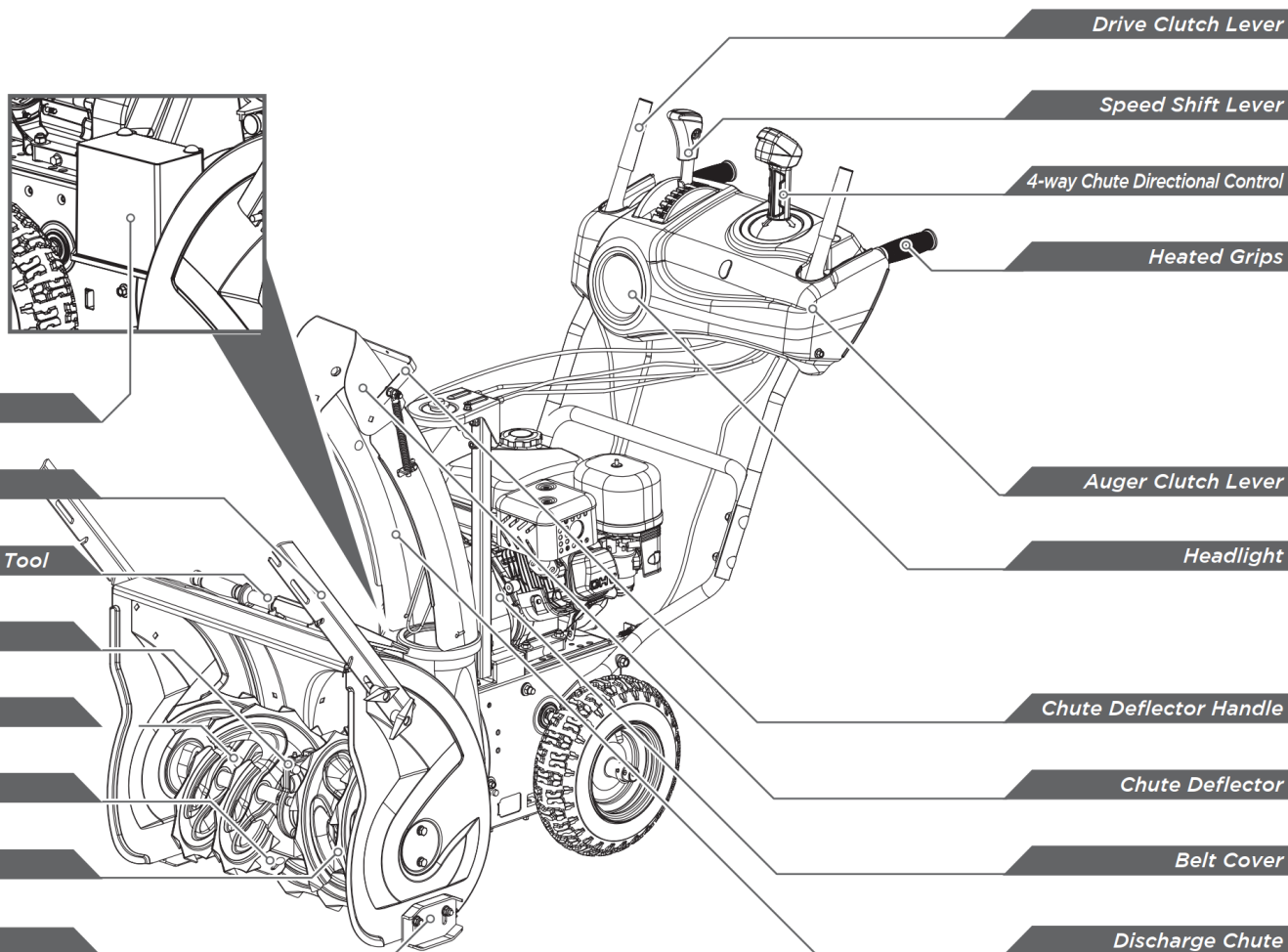
Battery (if so equipped)

1. Remove the battery cover by loosening the screw and nut.
2. Connect positive (red) battery cable to the battery terminal first, then negative (black) battery cable. Check that all cable connectors are tight.
3. Install battery cover and tighten the screw and nut.



7. Know Your Machine

7.1 Features and Controls



Speed Shift Lever

The speed shift lever has 8 positions: 6 forward speeds and 2 reverse. To change speeds, move the speed shift lever to the desired position. The lever locks in a notch at each speed selection.

WARNING

Always release the drive clutch lever before changing speeds. Failure to do so will result in damage to the snow thrower.

Slower speeds are for heavier snow and faster speeds are for light snow and transporting the snow thrower. It is recommended that you use a slower speed until you are familiar with the operation of the snow thrower.

If the engine slows down under a load or the wheels slip, shift the machine into a lower gear.

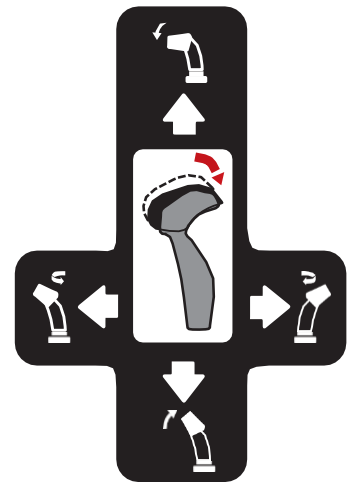
If the front of the machine rides up, shift the machine into a lower gear. If the front continues to ride up, lift up on the handles.

4-Way Chute Directional Control

Hold the trigger cap down to use the joystick to move the discharge chute and the chute deflector. Release the trigger cap to lock the discharge chute and chute deflector into position.

To change the chute position, hold the trigger cap down on the joystick and pivot the joystick to the right or to the left.

To change the angle/distance at which snow is thrown, hold the trigger cap down on the joystick and pivot the joystick forward or backward.



Drive Clutch Lever

Squeeze the clutch lever against the handgrip to engage the wheel drive. Release to disengage.

WARNING

Always release the drive clutch lever before changing speeds. Failure to do so will result in damage to the snow thrower.



Auger Clutch Lever

Squeeze the clutch lever against the handgrip to engage the auger and start snow throwing action. Release to disengage.



When both auger clutch lever and drive clutch lever are engaged, the drive clutch lever will lock the auger clutch lever in the engaged position. This allows you to release your left hand from the handle and adjust the discharge chute direction without interrupting the snow throwing process.

Scraper Blade & Skid Shoes

The scraper blade allows better contact with the surface being cleared. It also prevents damage to the housing from normal use.

The skid shoes are located on each side of the auger housing and control the distance between the scraper blade and the ground. Adjust skid shoes equally to keep the scraper blade level with the ground.

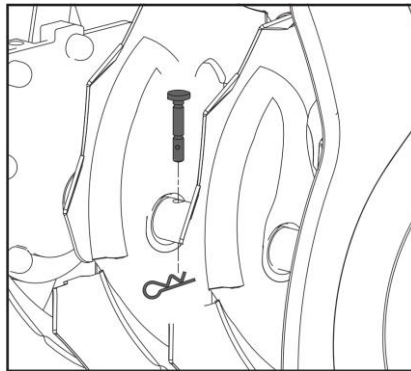
The scraper blade & skid shoes are subject to wear and damage. Both scraper blade and skid shoes are adjustable to compensate for wear. They should be checked and adjusted periodically. Replace when necessary.

WARNING

Damage to auger housing will result if scraper blade wears down too far.

Both scraper blade and skid shoes have two wear edges. When one side wears out, they can be rotated 180° to use the other edge.

Shear Pins



The augers are secured to the auger shaft with shear pins and clevis pins. If the auger should strike a foreign object or ice jam, the snow thrower is designed so that the pins may shear, preventing damage to any other components. If augers will not turn, check to see if the pins have sheared. Replace the shear pins if necessary.

WARNING

Do not substitute. Use only original equipment shear pins as supplied with your snow thrower.

Auger

When engaged, the augers rotate and draw snow into the auger housing.

Discharge Chute

Snow drawn into the auger housing is discharged out the discharge chute.

Chute Clean-Out Tool

WARNING

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

The chute clean-out tool is conveniently fastened to the rear of the auger housing with a mounting clip. Should snow and ice become lodged in the discharge chute during operation, proceed as follows to safely clean the discharge chute and chute opening:

1. Release the auger clutch lever and shut off the engine.
2. Remove the clean-out tool from the clip which secures it to the rear of the auger housing.
3. Grasp the tool firmly by the handle and push and twist the tool into the discharge chute to dislodge the blockage.

4. Refasten the clean-out tool to the mounting clip on the rear of the auger housing.
5. Make sure the discharge chute is pointed in a safe direction (no vehicles, buildings, people, or other objects are in the direction of discharge). Restart the engine. While standing in the operator's position (behind the snow thrower), engage the auger control for a few seconds to clear any remaining snow and ice from the auger housing and the discharge chute.

Headlight (if so equipped)

The headlight provides added safety in low-visibility conditions. Turn the headlight switch to the ON position to activate.



Heated Grips (if so equipped)

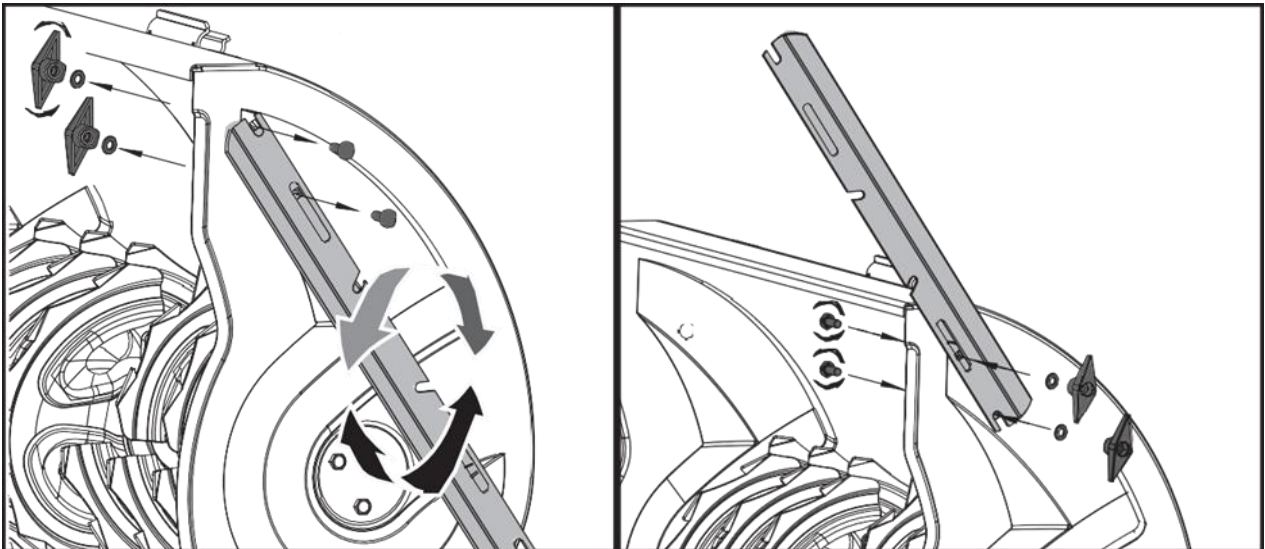


It is recommended that you wear gloves when using the heated grip. If the heated grip becomes too hot, turn it off.

To activate the heated grips, move the switch into ON position.



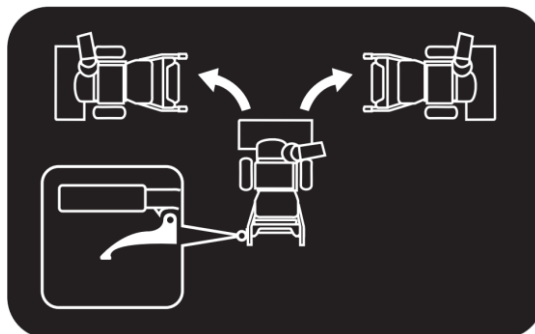
Drift Cutters (if so equipped)



Drift cutters break up snow drifts that are taller than the auger housing and direct the snow into the auger. Store the drift cutters on the auger housing when not in use. Reposition drift cutters so they face forward as shown. Wing nuts should be fastened on the outside of the auger housing.

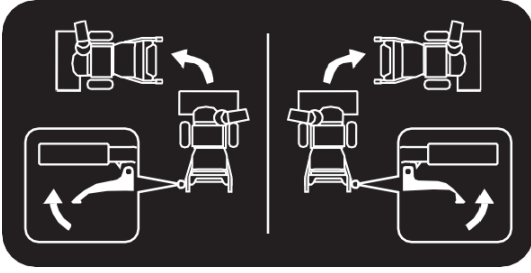
Differential Lock Trigger (if so equipped)

The differential is locked for maximum traction. With the differential locked, power is applied equally to both wheels/tracks.



The differential lock trigger is located on the underside of the left handle. Squeeze the trigger to release the differential lock for easier turning.

Steering Triggers (if so equipped)



Steering triggers are used to assist in steering the snow thrower. The triggers are located on the underside of each handlebar. When a trigger is squeezed, it disengages the drive wheel on that side and allows the snow thrower to turn in that direction. With the drive clutch engaged, squeeze the right trigger to turn right and squeeze the left trigger to turn left.

It is easier to maneuver a non-running snow thrower with both triggers held in simultaneously.

Fuel Shutoff Valve

Always operate the snow thrower with the fuel shut-off valve in the OPEN position. Close the valve when you do not use the machine.

Throttle Lever

Move the throttle lever to the right to increase the engine speed; move it to the left to decrease the engine speed. Move the throttle lever to the STOP position to stop the engine.

Choke

Engage choke by rotating lever to FULL position whenever you are starting a cold engine. As engine warms up, gradually rotate the choke to the OFF position.

Do not use choke to start a warm engine.



WARNING

Never use choke to stop engine.

Primer

Press the primer to pump additional fuel from the carburetor to the cylinder for improved cold weather starting.

Recoil Starter

The recoil starter is on the back side of the engine. Pull the recoil starter handle to start the engine.

Safety Ignition Switch (if so equipped)

Insert the safety ignition key for engine to start and run. To stop the engine, remove the key.

ON/OFF switch (if so equipped)

Used to stop the engine. Move switch to OFF position to stop engine. Place switch in ON position for engine to start and run.

Ignition Switch (12V DC electric start)

The ignition switch is operated by a removable key which has 3 positions of STOP, RUN and START.

Electric Starter & Start Button (if so equipped)

The electric starter will start a properly choked and cranked engine when the key is turned (12V DC) or start button (120V or 230V AC) is pushed.

To start the machine, connect the electric starter to an electric power source with an approved extension cord and press the start button.

! WARNING

Thoroughly inspect the electrical cord before using the machine. If the cord is damaged, do not operate the machine. Replace or repair the damaged cord immediately.

Connect extension cord to the electric starter plug-in first and then to a power outlet; disconnect the extension cord from the power outlet first and then from the machine.

To prevent damaging the electric starter, do not run it more than 5 continuous seconds each time you try to start. Wait 10 seconds between each attempt.

7.2 Adjustments

Skid Shoes

Position the skid shoes based on surface conditions. For removal of snow in normal conditions, such as a paved driveway or sidewalk, place skid shoes in the higher position to give a 3mm (1/8") clearance between the scraper blade and the ground. Use a middle or lower position when the area to be cleared is uneven, such as a gravel driveway.

! WARNING

It is not recommended to operate the snow thrower on gravel as it can easily be picked up and thrown by the impeller, causing personal injury or damage to the snow thrower and surrounding property.

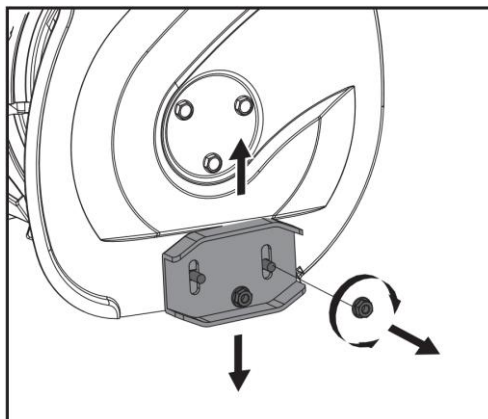
If you choose to operate the snow thrower on a gravel surface, use extra caution and keep the skid shoes in position for maximum clearance between the ground and the scraper blade.

! WARNING

Always adjust skid shoes after adjusting scraper blade to prevent premature wear to scraper blade or damage to auger housing.

To adjust the skid shoes:

1. Loosen the four hex nuts (two on each side) and carriage bolts. Move skid shoes to desired position.
2. Make sure the entire bottom surface of skid shoe is against the ground to avoid uneven wear on the skid shoes.
3. Retighten nuts and bolts securely.



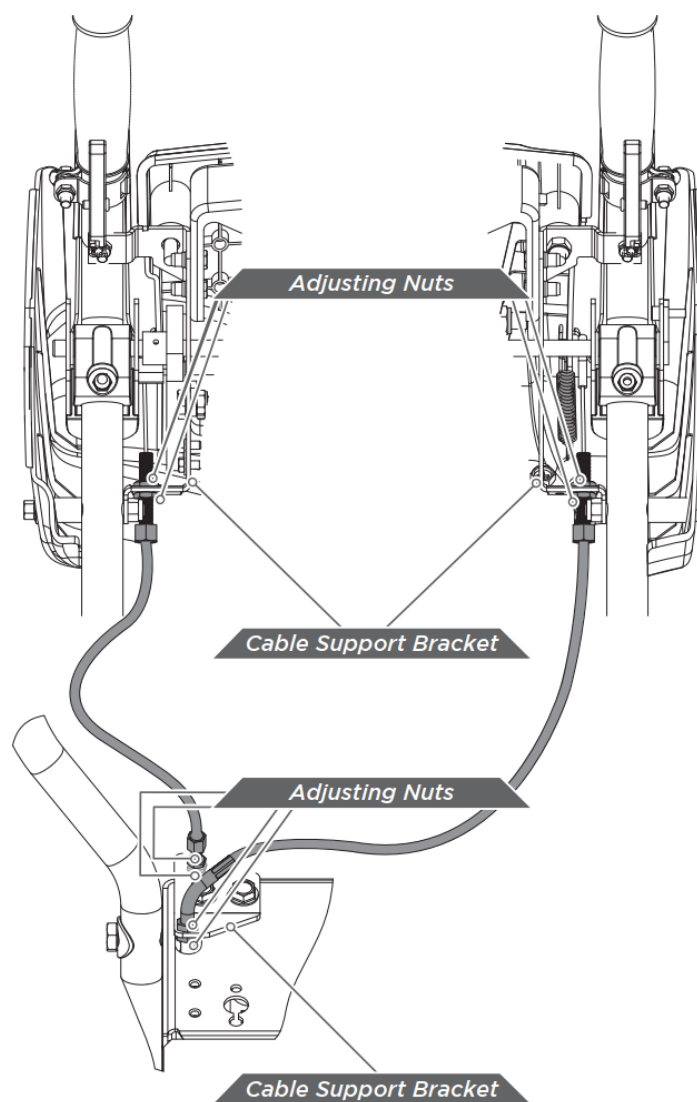
Auger Clutch and Drive Clutch

When auger clutch lever or drive clutch lever is released and in the disengaged position, the cable should have very little slack.

Auger must stop within 5 seconds when the auger clutch lever is released. If auger clutch does not engage or disengage properly, adjust auger clutch before operation.

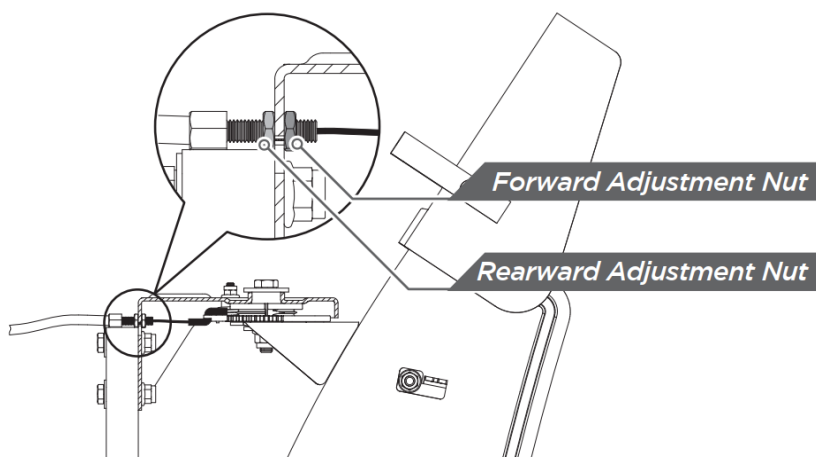
If the snow thrower's drive is disengaging intermittently during operation, or it drives when you release the drive clutch lever, adjust the drive clutch before operation.

Both auger clutch and drive clutch can be adjusted at either end of their control cables.



1. Loosen adjusting nuts on cable support bracket.
2. Slide the control cable up or down by threading adjusting nuts to increase cable tension or provide more slack.
3. Tighten nuts after proper adjustment is achieved.

Chute Lock Latch



If the discharge chute does not lock into the desired position or does not unlock so that chute rotates freely, adjust the chute lock latch.

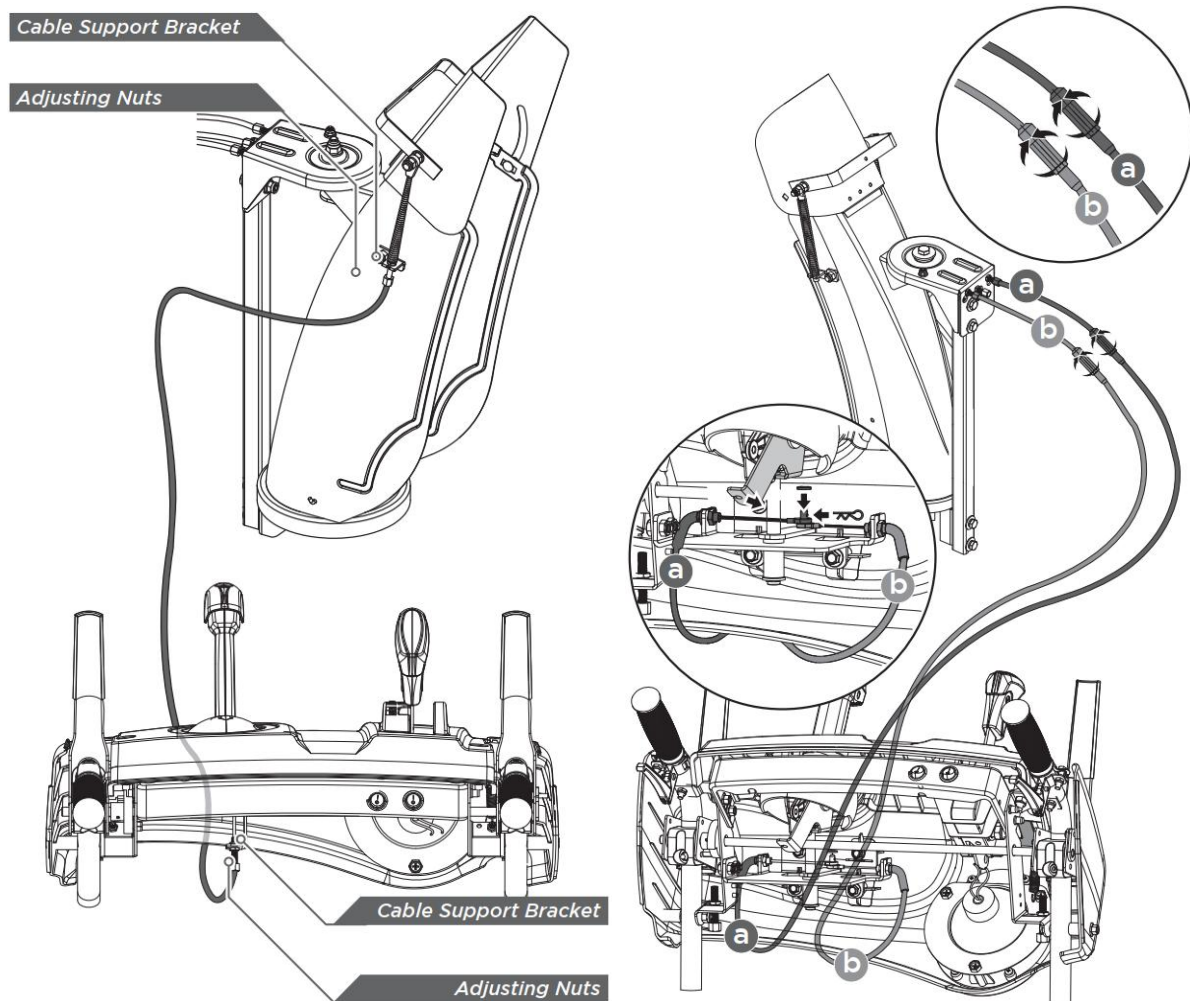
If the chute does not lock:

Loosen the cable by loosening the rearward adjustment nut, and tightening the forward adjustment nut against the bracket until the lock latch fully engages the gear teeth.

If the chute does not unlock:

Tighten the cable by loosening the forward adjustment nut, and then tightening the rear adjustment nut against the bracket until all cable slack is removed.

Deflector Control



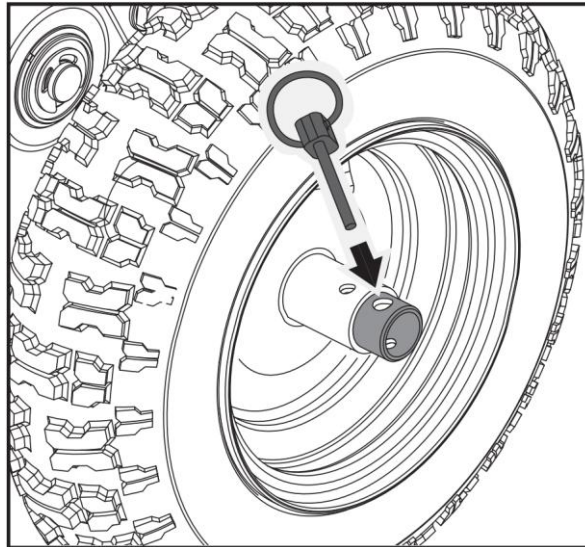
If deflector does not follow full range of travel, adjust the control cable at either end of it.

1. Hold the trigger cap down and push joystick all the way forward. Release the trigger cap.
2. Loosen adjusting nuts on cable support bracket either underneath the control panel or on the chute deflector.
3. To adjust the deflector lower, slide cable down. Tighten bottom nut.
4. To adjust deflector higher, slide cable up. Tighten top nut.
5. Check travel and repeat adjustment as necessary.

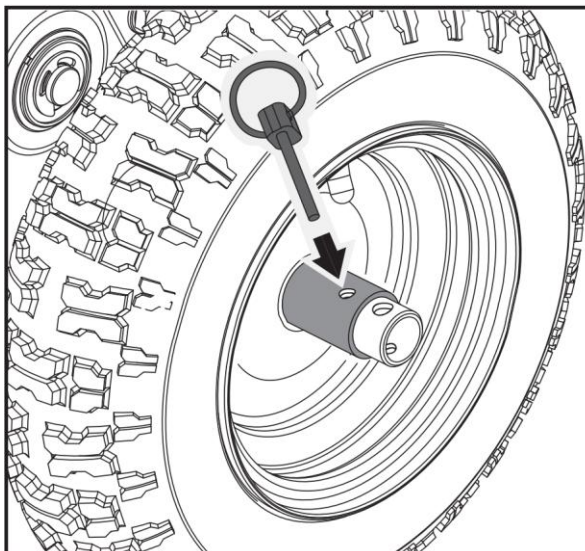
8. Operation

8.1 Freewheeling and Self-Propelling

Left wheel equipped with the axle lock pin can be completely released by removing the pin and installing it in the outer axle hole. Unlock the left wheel to allow for easier turning of the unit.



To unlock the left wheel, remove the pin from the inner hole and insert the axle pin through the outer axle hole, but not through the wheel hub.



To lock the left wheel, insert the pin through the wheel hub and the inner axle hole.

8.2 Starting and Stopping the Engine

WARNING

Before starting the engine, check engine oil level and ensure the engine is serviced as described in the Engine Manual with the snow blower.

Cold Start – Electric Starter (120V or 230 AC) (if so equipped)

The engine is equipped with both A.C. electric starter and a recoil starter. The electric starter is equipped with a three-wire power cord and plug and is designed to operate at the voltage shown in the label.

 WARNING

Do not use the electric starter if your household voltage is different from the one shown on the electric starter.

1. Insert safety ignition key into ignition slot until it clicks. Do not turn the key.
2. Be sure fuel shutoff valve is in the OPEN position.
3. Move choke control to FULL position.
4. Push the primer 2 or 3 times. When temperature is below -25°C (15°F), additional priming may be needed. When temperature is above 10°C (50°F), priming is not necessary.

Over priming may cause flooding, preventing the engine from starting.

If you do flood the engine, wait a few minutes before attempting to start and do not push the primer.

Some snow engine is not equipped with primer as priming is not needed for such engine.

5. Connect the extension cord to the engine.
6. Plug the other end of the extension cord into a three-wire grounded receptacle.
7. Push starter button until engine starts.

 WARNING

To prevent damaging the electric starter, do not run it more than 5 continuous seconds each time you try to start. Wait 10 seconds between each attempt.

8. When the engine starts, release the starter button and slowly move the choke control to the OFF position.
9. Disconnect the extension cord from the receptacle first, then from the engine.

Cold Start – Electric Starter (12V DC) (if so equipped)

1. Be sure fuel shutoff valve is in the OPEN position.
2. Move choke control to FULL position.
3. Push the primer 2 or 3 times. When temperature is below -25°C (15°F), additional priming may be needed. When temperature is above 10°C (50°F), priming is not necessary.

Over priming may cause flooding, preventing the engine from starting.

If you do flood the engine, wait a few minutes before attempting to start and do not push the primer.

Some snow engine is not equipped with primer as priming is not needed for such engine.

4. Turn ignition key to the START position until engine starts.

 WARNING

To prevent damaging the electric starter, do not run it more than 5 continuous seconds each time you try to start. Wait 10 seconds between each attempt.

5. When the engine starts, release the ignition key into RUN position and slowly move the choke control to the OFF position.

Cold Start - Recoil Starter

1. Be sure fuel shutoff valve is in the OPEN position.
2. Place ON / OFF switch in ON position.
3. Rotate choke control to FULL position.
4. Push the primer 2 or 3 times. When temperature is below -25 °C (15 °F), additional priming may be needed. When temperature is above 10°C (50°F), priming is not necessary.

Over priming may cause flooding, preventing the engine from starting.

If you do flood the engine, wait a few minutes before attempting to start and do not push the primer.

5. Grasp recoil starter handle and pull rope out slowly until it pulls harder. Let rope rewind slowly.
6. Pull rope with a rapid continuous full arm stroke. Do not allow starter rope to snap back.
7. Repeat steps 5 and 6 until engine starts.
8. When the engine starts, release the recoil starter handle and slowly move the choke control to the OFF position.

Warm Start

Follow the steps above, keeping the choke control in the OFF position and do not use primer.

Allow the engine to warm up for a few minutes, The engine will not develop.

Full power until it has reached normal operating temperature.

In snowy and cold conditions, some controls and moving parts may freeze. Do not use excessive force when trying to operate frozen controls. If you have difficulty operating any control or part, start the engine and let it run for a few minutes.

8.3 Snow Throwing Tips

It is easier and more efficient to remove snow immediately after it falls.

The best time to remove snow is the early morning. At this time the snow is usually dry and has not been exposed to the direct sun and warming temperatures.

Slightly overlap each successive path to ensure all snow will be removed.

For large areas, start in the middle and throw snow to each side, so snow is not cleared more than once.

For extremely heavy snow, reduce the width of snow removal by overlapping previous path and moving slowly.

Throw snow downwind whenever possible.

Keep engine clean and clear of snow during use. This will help air flow and extend engine life.

After snow-throwing is completed, let the engine run for a few minutes to help dry off the moisture on the engine and prevent moving parts from freezing. Engage the auger/impeller to clear any remaining snow from inside the housing. Rotate the discharge chute to prevent it from freezing. Stop the engine, wait for all moving parts to stop, and remove all ice and snow from the snow thrower. With the engine off, pull the recoil starter handle several times to prevent the recoil starter from freezing up.

8.4 Traveling

To travel from one work area to another:

1. Set throttle to slow or part-throttle position.
2. On wheeled model, press down on handle bars enough to raise front of unit slightly off surface; on tracked model, move the track lock lever into the transport position.
3. Engage drive clutch without engaging auger clutch.

8.5 Transport

WARNING

Always shut off engine, remove key, and close fuel shut-off valve when transporting unit on a truck or trailer. Do not transport machine while engine is running.

Use extra care when loading or unloading unit onto trailer or truck.

Secure unit chassis to transport vehicle. Never secure from rods or linkages that could be damaged.

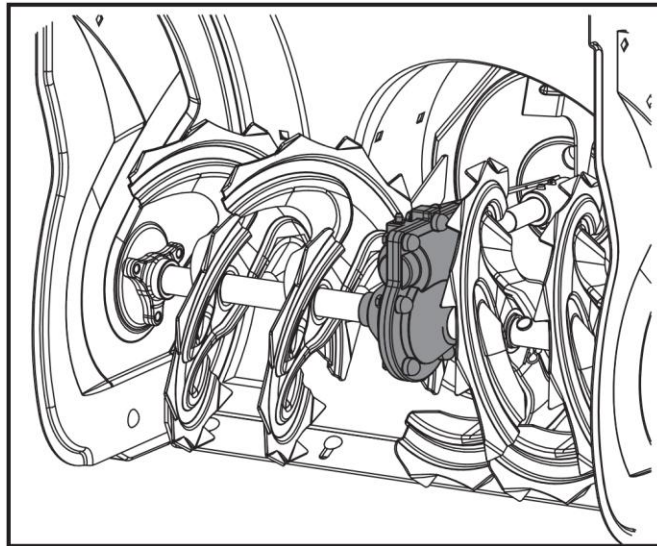
9. Maintenance

Engine

Refer to the Engine Operator's Manual.

Lubrication

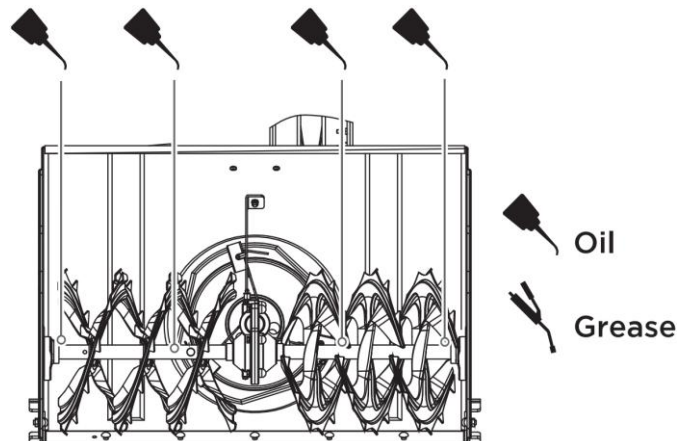
Auger Gearbox.

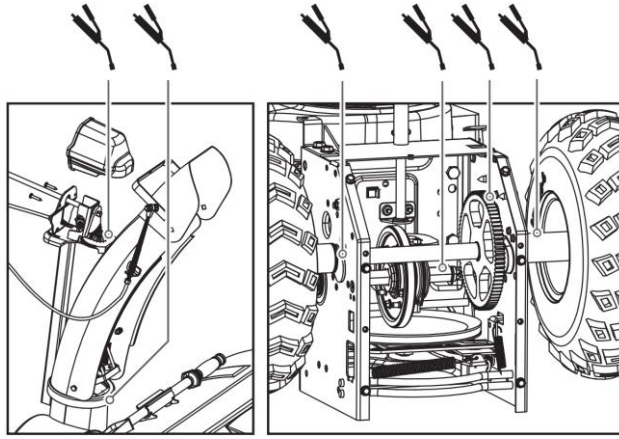


The gearbox was filled with lubricant to the proper level at the factory. Unless there is evidence of leakage or service has been performed on the gearbox, no additional lubricant should be required. If lubricant is required, use GL-5 or GL-6, SAE85-95, EP gear oil lubricant. Do not use synthetic oil.

General Lubrication

Lightly lubricate all moving parts of the machine at the end of the season or every 25 operating hours.





Do not allow grease or oil to get on friction disc, friction plate or belts. Do not excessively oil the machine; extra oil may enter the traction drive and cause the traction drive belt to slip.

When lubricating auger shaft, remove shear pins to apply oil inside the shaft and around spacers and flange bearings found at either end of the shaft.

Remove the wheels to apply grease to the wheel shaft.

Battery (if so equipped)



WARNING

Battery is maintenance-free. Do not tamper with or attempt to open battery.

Keep battery and its terminals clean

1. Remove battery cover.
2. Detach the negative (black) battery cable from the battery first to prevent a short circuit, then the positive (red) battery cable.
3. Take the battery out of the tray.
4. Remove corrosion from battery terminals and cable connections with a wire brush, then wash with weak baking soda solution.
5. Apply a thin coat of grease or petroleum jelly to terminals and cable ends to retard corrosion.
6. Attach and tighten the positive (red) battery cable first, then the negative (black) battery cable.
7. Place the battery on the tray and Install the cover.

Off-Season Storage



WARNING

Refer to the Engine Manual for information on storing your engine.

At the end of the season or if the snow thrower will not be used for 30 days or longer, follow the storage instructions below.

1. Run the engine until the fuel lines and carburetor are empty and it stops due to lack of fuel.
2. Remove the safety ignition key and allow the engine to cool.
3. Lubricate the machine as instructed.
4. Clean the exterior of the engine and the snow thrower thoroughly.
5. Touch up all rusted or chipped paint surfaces; sand affected areas before painting, and use a rust preventative to prevent the metal parts from rusting.
6. Tighten all loose screws, bolts, and locknuts. Repair or replace any damaged parts.
7. Cover the machine and store it in a clean, dry place out of the reach of children.

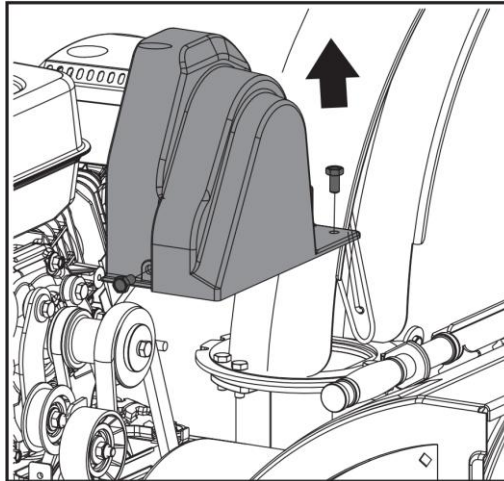
10. Service

10.1 Belt Replacement

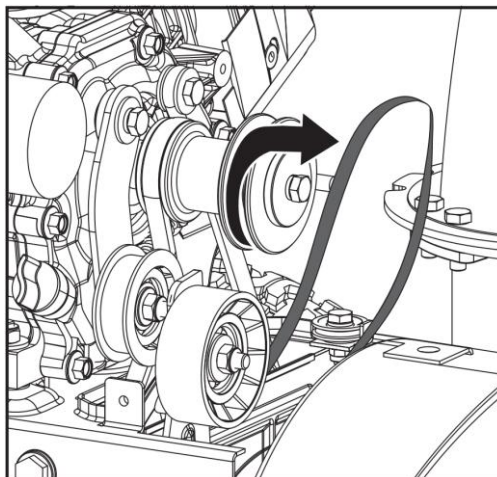
Auger Belt

If the auger belt becomes worn, oil-soaked, or otherwise damaged, proceed as follows to replace the belt.

1. To prevent spillage, remove all fuel from tank by running engine until it stops. Remove the key to avoid unintended starting and allow unit to cool completely.

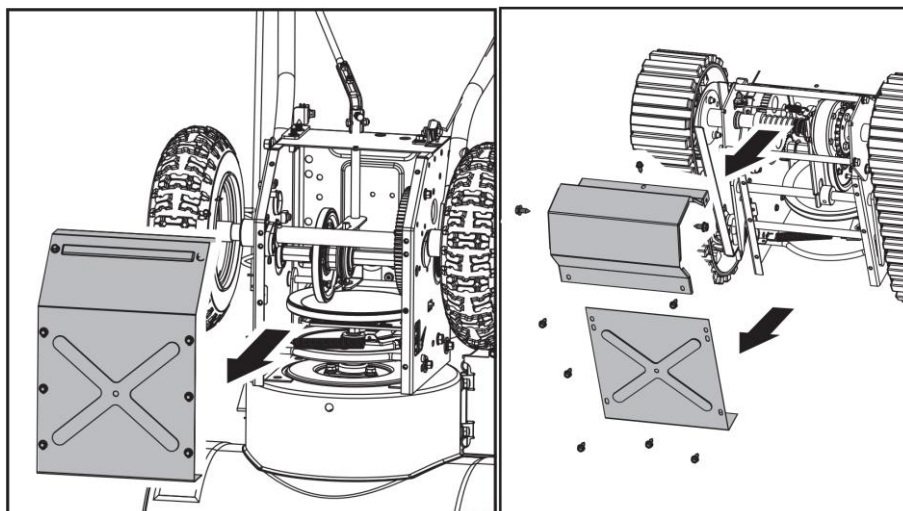


2. Remove the two screws that hold the belt cover in place and set the cover aside.

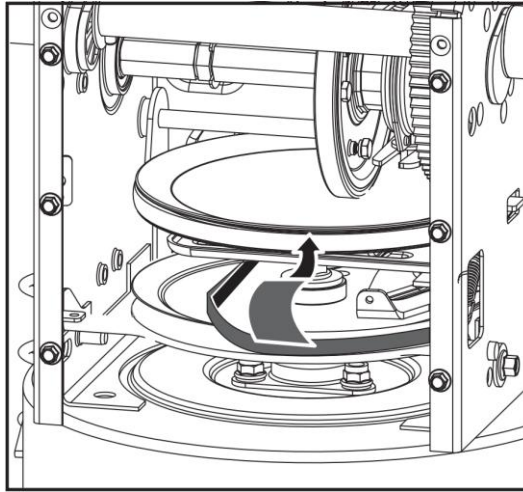


3. Roll the auger belt(s) off the engine pulley.

4. Carefully pivot the snow thrower up and forward so that it rests on the auger housing.



5. Remove the frame cover(s) from the underside of the snow thrower by removing the screws which secure the cover(s).



6. Remove the belt(s) from around the auger pulley, and slip the belt(s) between the support bracket and the auger pulley.

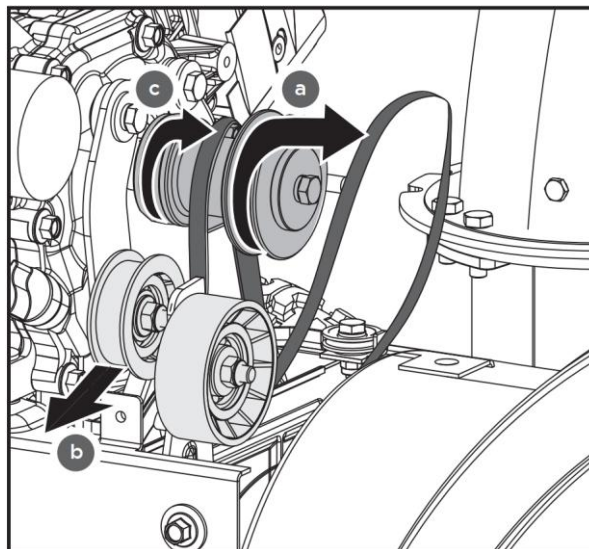
7. Replace the auger belt(s) by following instructions in reverse order.

Drive Belt

If the drive belt becomes worn, oil-soaked, or otherwise damaged, proceed as follows to replace the belt.

1. To prevent spillage, remove all fuel from tank by running engine until it stops. Remove the key to avoid unintended starting and allow unit to cool completely.

2. Remove the two screws that hold the belt cover in place and set the cover aside.

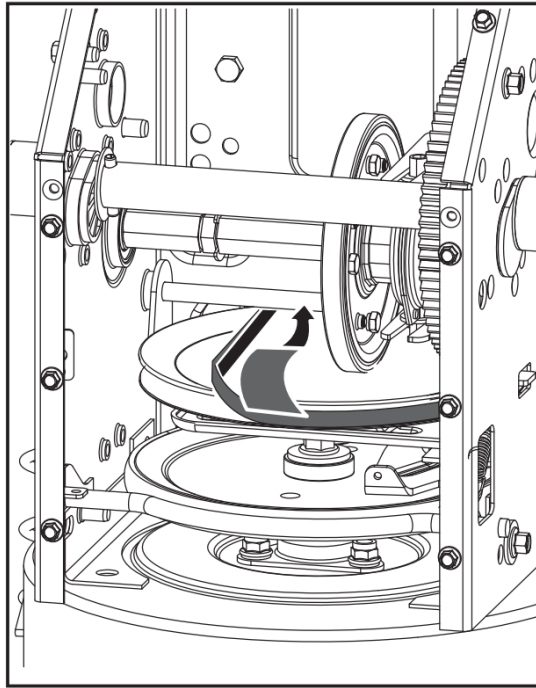


3. Remove the belt as follows.

- a. Roll the auger belt(s) off the engine pulley.
- b. Pivot the idler pulley toward the right to relieve tension.
- c. Lift the drive belt off engine pulley.

4. Carefully pivot the snow thrower up and forward so that it rests on the auger housing.

5. Remove the frame cover(s) from the underside of the snow thrower by removing the screws which secure the cover(s).

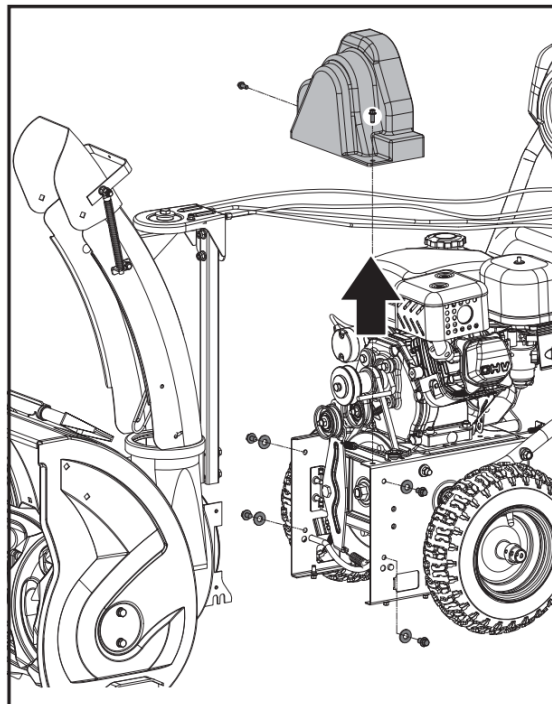


6. Slip the drive belt off the pulley and between friction wheel and friction wheel disc.

7. Remove and replace belt in the reverse order.

Holding down the drive clutch lever will ease reinstallation of the belt.

If an assistant is available, you can also separate the auger housing from the frame assembly to replace belts.



1. Shut off engine, remove key, disconnect spark plug wire and allow unit to cool completely.
2. Remove belt cover.
3. Remove chute gear cover and disconnect chute lock cable, deflector cable and chute rod.
4. Remove bottom cover to avoid bending it when tipping unit apart.
5. Remove the screws securing auger housing to the frame (two on each side). Tip auger housing and frame apart.
6. Replace auger belt or drive belt.

7. Tip auger housing and frame back together and secure with screws

Holding down the auger clutch lever will ease reconnection of the auger housing and frame.

8. Place belt(s) onto engine sheave(s).

9. Reconnect chute lock cable, deflector cable and chute rod.

10. Replace chute gear cover and belt cover.

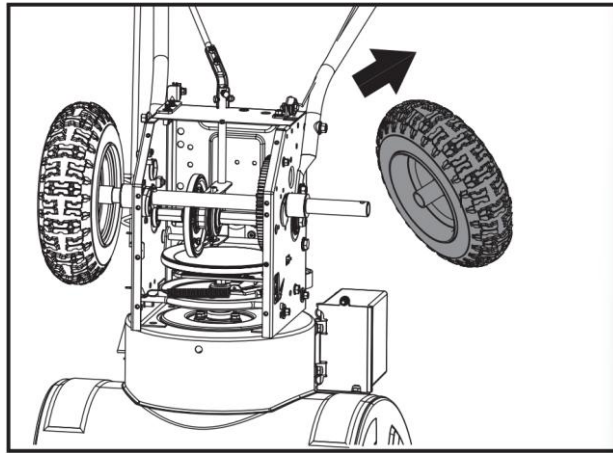
10.2 Friction Wheel Replacement

If the snow thrower fails to drive with the drive clutch engaged, and performing the clutch control cable adjustment fails to correct the problem, the friction wheel may need to be replaced.

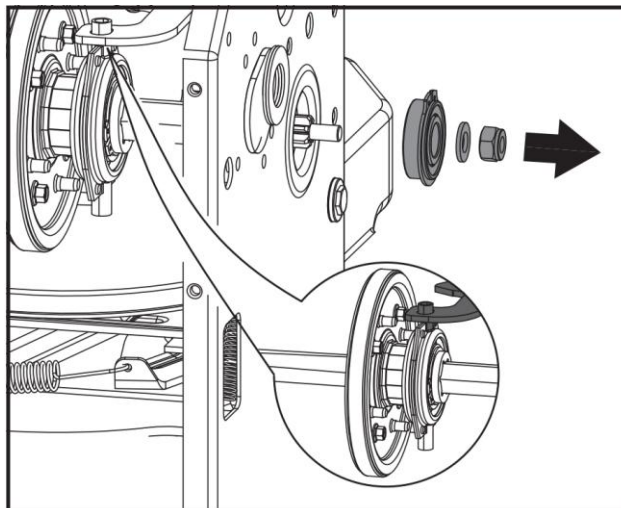
1. To prevent spillage, remove all fuel from tank by running engine until it stops. Remove the key to avoid unintended starting and allow unit to cool completely.

2. Carefully pivot the snow thrower up and forward so that it rests on the auger housing.

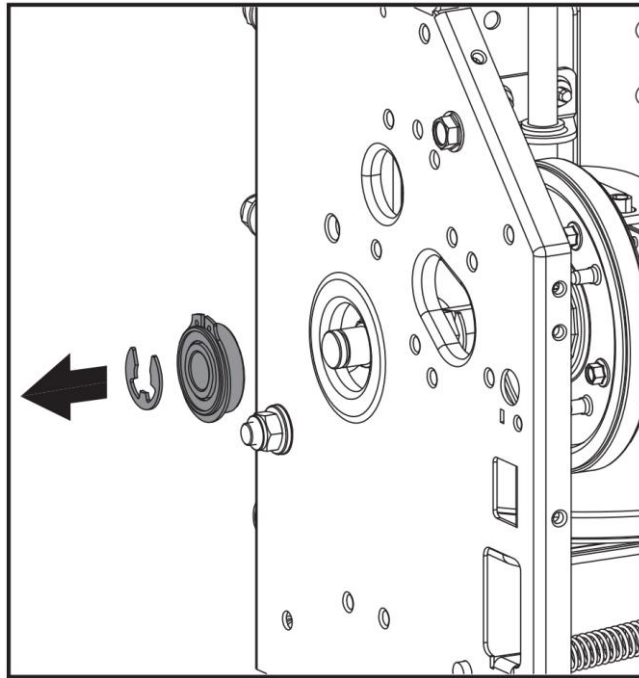
3. Remove the frame cover(s) from the underside of the snow thrower by removing the screws which secure the cover(s).



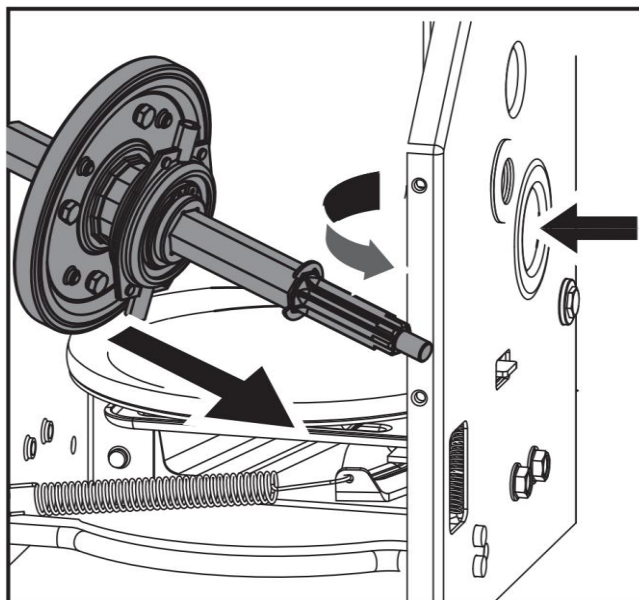
4. On wheeled model, remove the right-hand wheel by removing the axle lock pin.



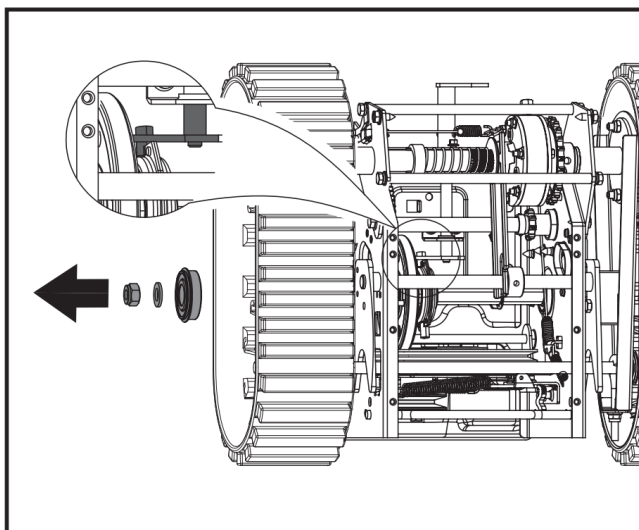
Carefully remove the hex nut which secures the hex shaft to the snow thrower frame and lightly tap the shaft's end to dislodge the ball bearing from the right side of the frame. Be careful not to damage the threads on the shaft.



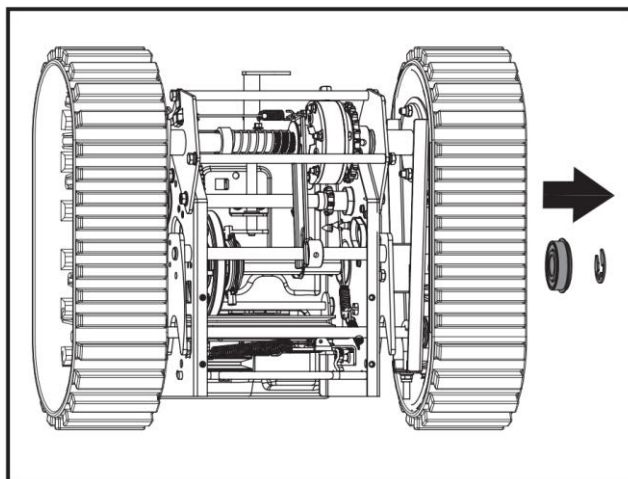
Remove the other bearing from the left side of the frame by removing the snap ring.



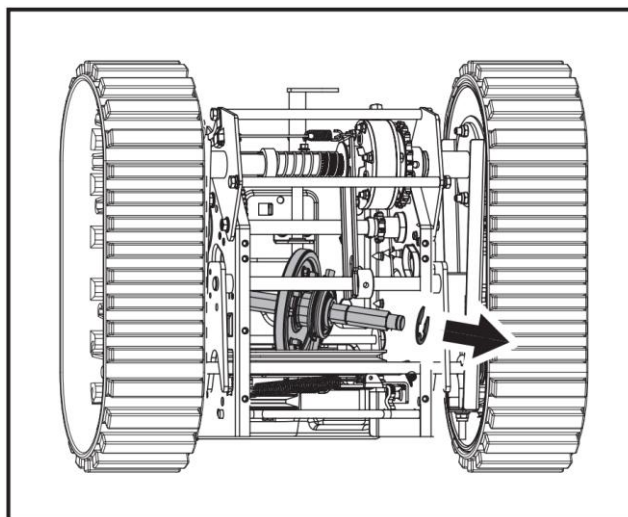
Carefully position the hex shaft downward and to the left before carefully sliding the friction wheel assembly off the shaft.



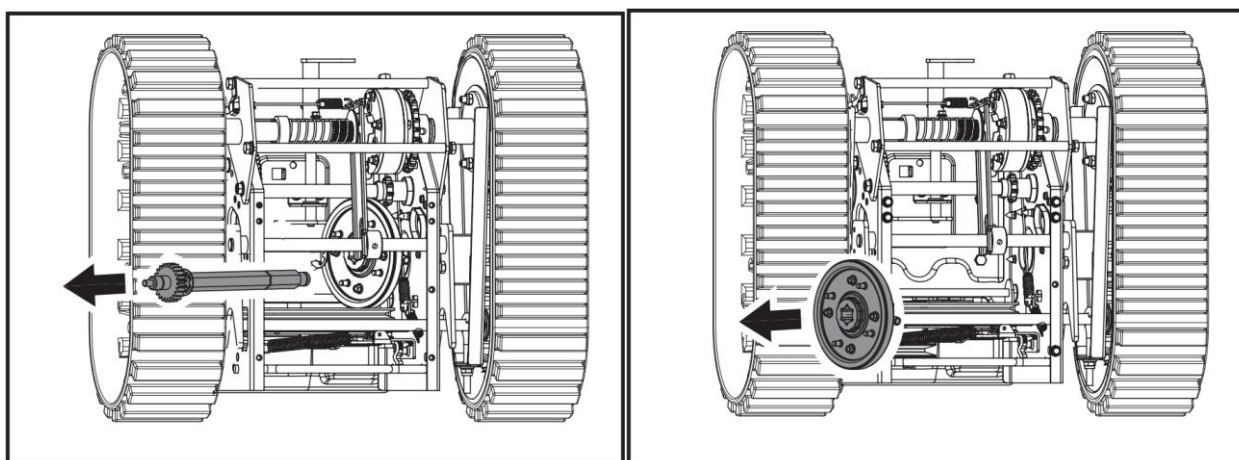
On tracked model, remove the hex nut and lightly tap the shaft's end to dislodge the ball bearing from the left-hand side of the frame. Be careful not to damage the threads on the shaft.



Remove the other bearing from the right-hand side of the frame by removing the snap ring.



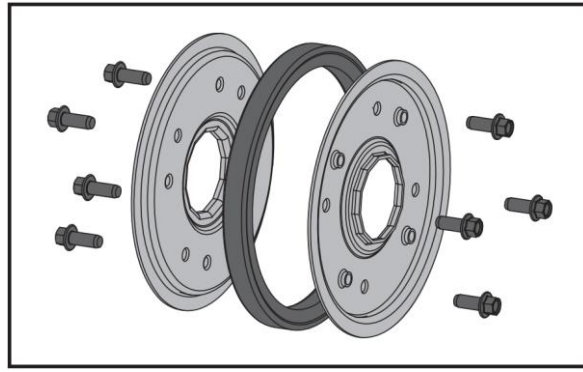
Remove the other snap ring from the right-hand side of the hex shaft.



Carefully position the hex shaft downward and to the right before carefully sliding the friction wheel assembly off the shaft.

5. Follow the previous steps in reverse order to reassemble.

If you only want to replace the rubber ring, proceed as follows:



1. Remove the eight screws which secure the friction wheel's side plates together.
2. Remove the rubber ring from between the plates.
3. Reassemble the side plates with a new rubber ring

When reassembling the friction wheel assembly, make sure that rubber ring is centered and seated properly between the side plates. Tighten each screw only one rotation before turning the wheel clockwise and proceeding with the next screw on the other side of the wheel. Repeat this process several times to ensure the plates are secured with equal force between 90N.m(66 ft-lbs) and 130N.m(96 ft-lbs).

4. Slide the friction wheel assembly back onto the hex shaft. Make sure the shift lever pin is in place in the bearing housing. Follow the steps above in reverse order to reassemble components.

10.3 Charging Battery (if so equipped)

Follow the instructions below to charge battery:

1. Remove battery cover.
2. Disconnect negative (black) battery cable first, then positive (red) battery cable.
3. Take battery out of the tray and place it on bench or other well-ventilated place.
4. Connect positive (+) lead of charger to positive (+) terminal, and negative (-) lead to negative (-) terminal.
5. Charge the battery at two and a half amps for ten hours.
6. Reinstall battery into unit.

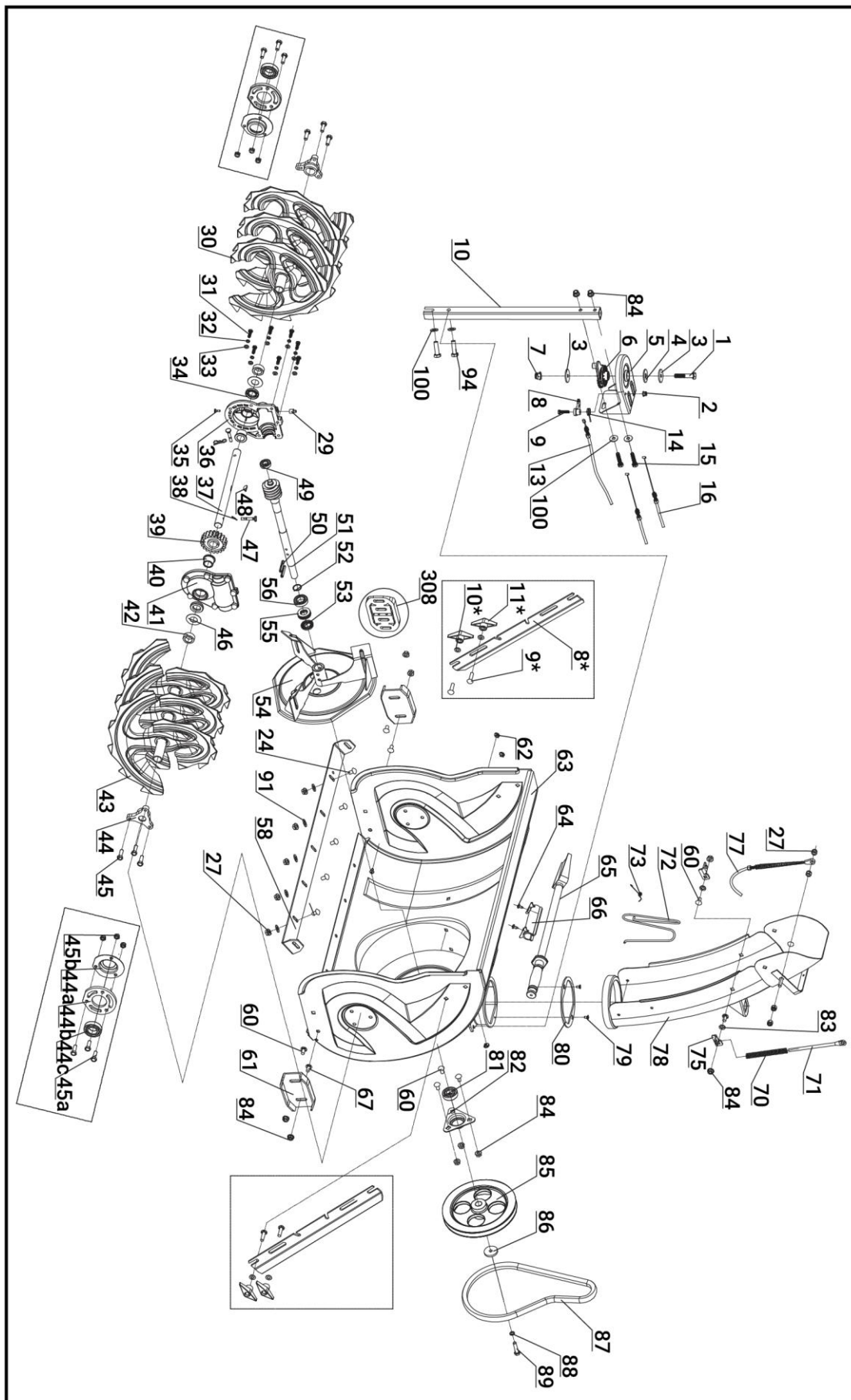
11. Troubleshooting

Problem	Cause	Remedy
Electric starter does not turn (on models so equipped)	1. Extension cord not connected. 2. The extension cord is worn, corroded, or damaged. 3. The power outlet is not energized.	1. Connect the extension cord to the outlet and/or the machine. 2. Replace the extension cord. 3. Have a qualified electrician energize the outlet.
Engine fails to start	1. Choke not in FULL position. 2. Engine not primed. 3. Engine is flooded. 4. Fuel shut-off valve closed. 5. Throttle in STOP position or ON/OFF switch is OFF. 6. Spark plug wire loose or disconnected. 7. Fuel tank empty or stale fuel. 8. Faulty spark plug. 9. Safety ignition key is not inserted. 10. The engine oil level in the engine crankcase is too low or too high	1. Move choke to FULL position. 2. Prime engine as instructed in this manual. 3. Wait a few minutes before restarting, do not prime. 4. Open fuel shut-off valve. 5. Move throttle to FAST position or ON/OFF switch to ON Position. 6. Connect or tighten spark plug wire. 7. Fill tank with clean, fresh gasoline. 8. Clean, adjust gap, or replace. 9. Insert safety ignition key. 10. Add or drain oil to adjust the oil level in the engine crankcase.
Engine idles or runs roughly	1. Engine running on CHOKE. 2. Fuel tank is nearly empty or stale fuel. 3. Contaminated fuel supply. 4. Carburetor out of adjustment. 5. Engine over-governed. 6. The fuel shutoff valve is not completely open or blockage in fuel line. 7. Spark plug wire loose. 8. Faulty spark plug. 9. The engine oil level in the engine crankcase is too low or too high.	1. Move choke lever to OFF position. 2. Fill tank with clean, fresh gasoline. 3. Replace with clean fuel. 4. Contact a qualified repair technician. 5. Contact a qualified repair technician. 6. Open the fuel shutoff valve or clean fuel line. 7. Tighten spark plug wire. 8. Clean, adjust gap, or replace. 9. Add or drain oil to adjust the oil level in the engine crankcase.
The engine overheats	Carburetor not adjusted properly.	Contact a qualified repair technician.
Excessive vibration	Loose parts or damaged parts.	Tighten all fasteners or replace damaged parts.
Loss of power	1. Spark plug wire loose. 2. Gas cap vent hole plugged. 3. Dirty or clogged muffler.	1. Tighten spark plug wire. 2. Clean or replace fuel cap. 3. Clean or replace muffler.
Loss of traction drive	1. Drive control cable not adjusted properly. 2. Drive belt loose or damaged.	1. Adjust drive control cable. 2. Replace drive belt. 3. Replace friction wheel.

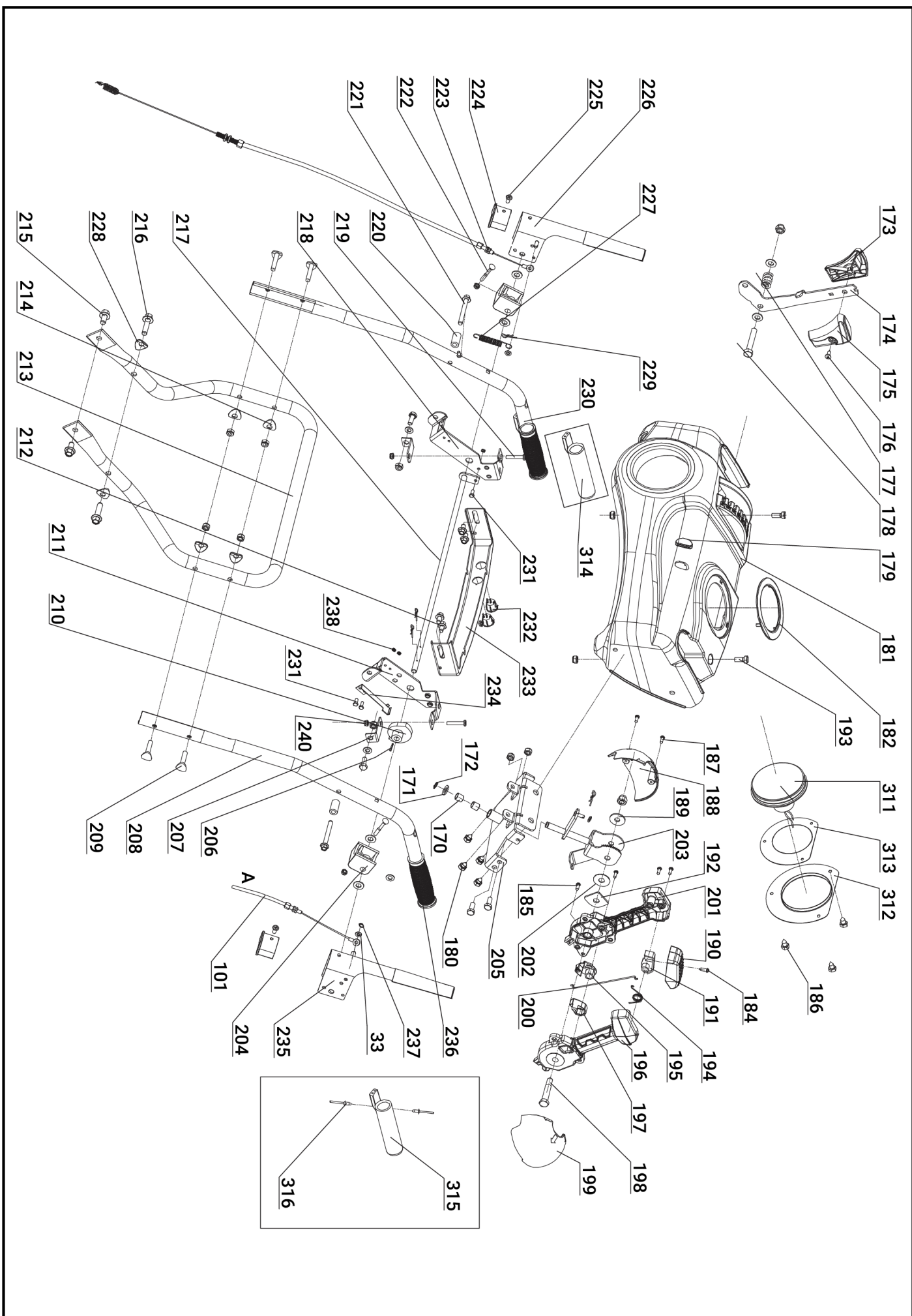
Problem	Cause	Remedy
	3. Friction wheel worn.	
Loss of snow discharge or slowing of snow discharge	1. Discharge chute clogged. 2. Augers or impeller jammed. 3. Auger control cable not adjusted properly. 4. Auger belt loose or damaged. 5. Shear pin(s) sheared. 6. Throttle not in FAST position when throwing snow. 7. Moving too fast to clear the snow. 8. Throwing too much snow. 9. Trying to remove extremely heavy or wet snow. 10. Auger is frozen in place.	1. Unclog discharge chute. 2. Remove debris or foreign object from augers or impeller. 3. Adjust auger control cable. 4. Replace auger belt. 5. Replace with new shear pin(s). 6. Move throttle to FAST position. 7. Shift into a lower gear. 8. Reduce speed and width of swath. 9. Do not overload with extremely heavy or wet snow. 10. Move unit to a warm place to thaw.
Discharge chute either does not lock into place or does not move	1. The discharge chute control is not adjusted properly. 2. Chute assembly incorrectly assembled.	1. Adjust the discharge chute control. 2. Disassemble chute control and reassemble as instructed in this manual.
Machine does not properly clear the snow off the surface	1. The skid shoes and/or scraper blade are not adjusted properly. 2. The pressure in the tires is not equal.	1. Adjust the skid shoes and/or the scraper blade. 2. Check and adjust the pressure in one or both tires.

12. Exploded View & Parts List

GSBW24 Exploded View







GSBW24 Parts List

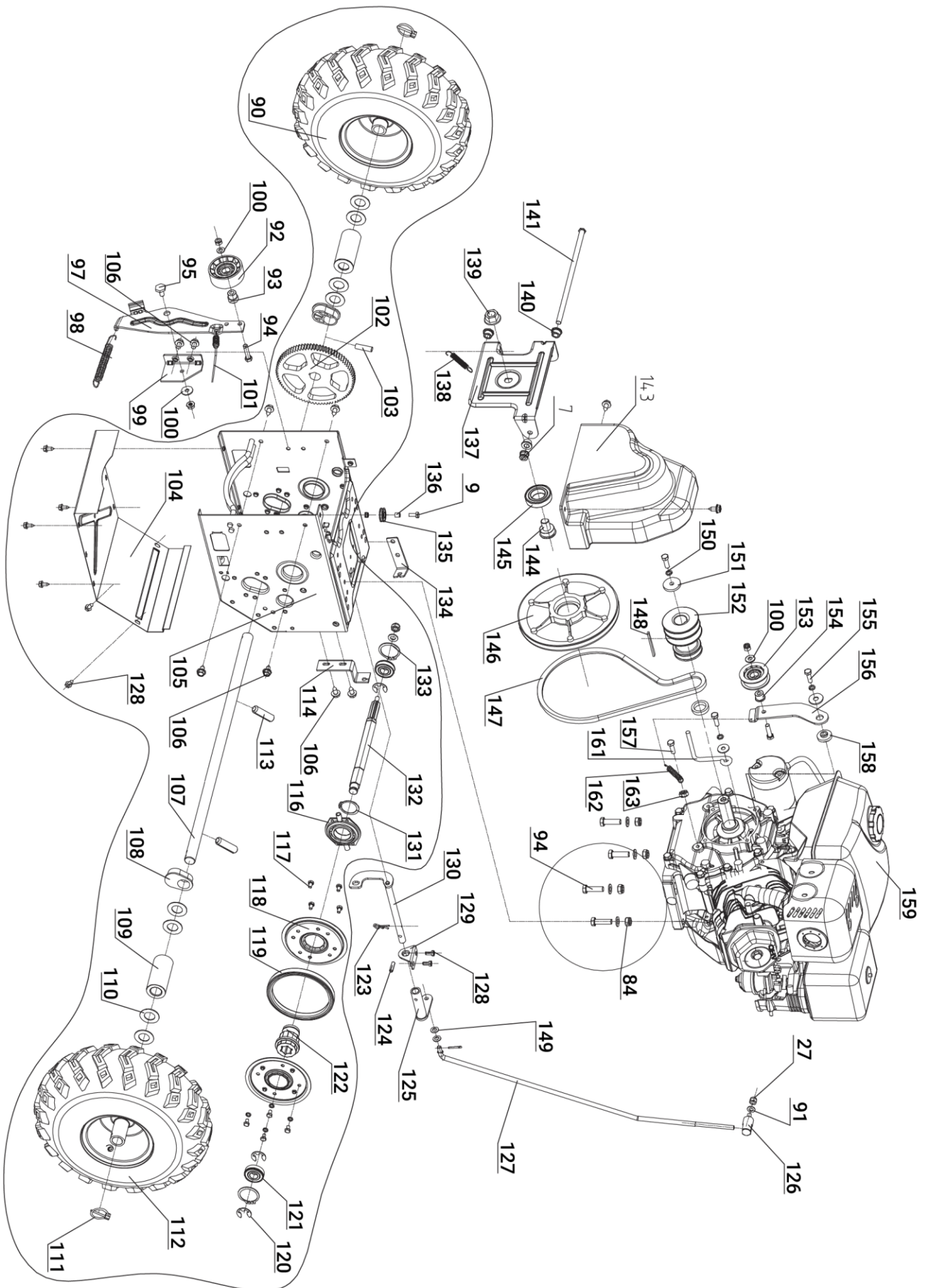
Part No.	Description	Qty	Part No.	Description	Qty
1	Bolt M10×50	1	129	Shift Fork Fixing Bracket	1
2	Flange Lock Nut (Non-standard) M6	1	130	Shift Fork Weldment	1
3	Extra Large Flat Washer 10	2	131	Shaft Circlip 35	1
4	Rotating Gasket	1	132	Friction Wheel Shaft	1
5	Chute Rotate Head	1	133	Shaft Circlip 40	2
6	Rotating Cable Bracket	1	134	Cable Bracket	1
7	Flange Lock Nut M10	2	135	Cable Roller	1
8	Rotating Claw	1	136	Roller Bushing	1
9	FT Bolt M6×25	1	137	Driven Pulley Bracket	1
10	Support Tube	1	138	Friction Wheel Return Spring	1
13	Steering Lock Cable B	1	139	Flange Lock Nut M16×1.5	1
14	Rotating Torsion Spring	1	140	Positioning Sleeve	2
15	FT Bolt M8×40	2	141	Locating Shaft	1
16	Steering Control Cable	2	143	Engine Belt Guard	1
24	Bolt M8×16	5	144	Driven Pulley Hub	1
27	Lock Nut M8	20	145	Ball Bearing 6006-2RS	1
29	Grease Nipple M10×1	1	146	Driven Pulley	1
30	Right Auger Weldment	1	147	Drive Belt W600 10×840	1
31	FT Bolt M6×20	6	148	Flat Key 6×6×45	1
32	Spring Washer 6	16	149	Flat Washer 10	2
33	Flat Washer 6	17	150	Spring Washer 10	1
34	Rotary Shaft Lip Seal B20×35×7	3	151	Engine Shaft Extension Washer	1
35	Screw M5×10	1	152	Belt Pulley	1
36	Right Gearbox Housing	1	153	Drive Belt Tensioner Assembly	1
37	Auger Shaft	1	154	Small Bushing Sleeve	1
38	Clevis Pin 1.8	4	155	FT Bolt M8×30	2
39	Worm Gear	1	156	Drive Belt Tensioner Assembly Bracket	1
40	Shaft Sleeve	2	157	FT Bolt M8×20	2
41	Left Gearbox Housing	1	158	Spacer	1
42	Spacer Sleeve	2	159	Gasoline Engine	1
43	Left Auger Weldment	1	161	Belt Blocker	1
44	Bearing Box	2	162	Extension Spring	1
45	Locking Screw ST8×16	6	163	Jam Nut M8	1
46	Large Flat Washer	2	170	Sliding Sleeve	2
47	Shear Pin	4	171	Flat Washer 12	1
48	Key 5×7.5×19	1	172	Snap Ring 9	1
49	Ball Bearing 6001-2RS	1	173	Right Gear Shift Lever Grip	1
50	Roll Pin 6×37	4	174	Gear Shift Lever	1
51	Impeller Shaft	1	175	Left Gear Shift Lever Grip	1
52	Washer	1	176	Screw M5×12	1
53	Rotary Shaft Lip Seal B20×35×7	1	177	Compression Spring	1
54	Impeller Assembly	1	178	FT Bolt M10×60	1
55	Thrust Ball Bearing 51104	1	179	Rubber Plug	1
56	Ball Bearing 61904-2RS	1	180	Screw ST8×16	4
58	Shave Plate	1	181	Dashboard	1

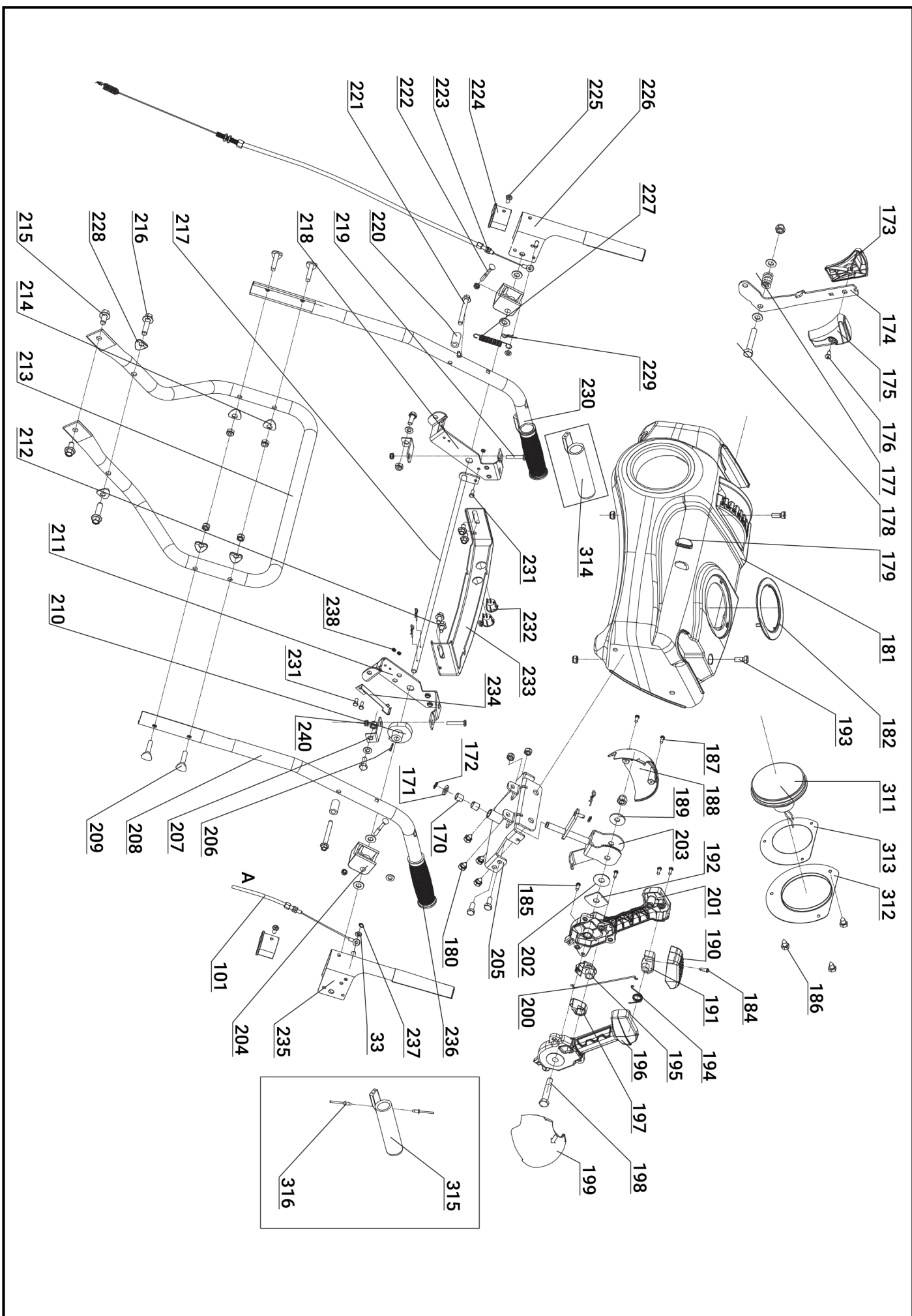
Part No.	Description	Qty	Part No.	Description	Qty
60	Bolt M8×20	7	182	Plastic Ring	1
61	Iron Skid Shoe	2	184	Screw ST4.2×16F	4
62	Plug	9	185	Screw ST4.2×13F	1
63	Auger Housing Weldment (Joystick Type)	1	186	Screw ST4.8×16	3
64	Screw ST5.5×13	2	187	Screw ST4.2×19F	2
65	Chute Clean-Out Tool	1	188	Right Joystick Housing	1
66	Clean-Out Tool Mounting Bracket	1	189	Large Flat Washer 10	1
67	Bolt M8×25	2	190	Joystick Head	1
70	Discharge Chute Return Spring	1	191	Joystick Torsional Spring Bracket	1
71	Spring Guide Rod	1	192	Underlay Plate	1
72	Stop Rod	1	193	Bolt M8×16	2
73	Stop Rod Torsion Spring	1	194	Torsion Spring	1
75	Cable Fixing Bracket	2	195	Drawbar Bracket	1
77	Deflector Adjusting Cable	1	196	Joystick, Left Half	1
78	Discharge Chute	1	197	Stop Pawl	1
79	Screw M5×6	2	198	Reamer Bolt M10×60	1
80	Discharge Chute Washer	1	199	Left Joystick Housing	1
81	Ball Bearing 6203-2RS	1	200	Drawbar	1
82	Bearing Housing	1	201	Joystick, Right Half	1
83	Lock Washer	4	202	Rotating Gasket	1
84	Lock Nut M8	15	203	Joystick Support Bracket	1
85	200 Auger Pulley	1	204	Lever Mounting Bracket	2
86	Extra Large Flat Washer 8	2	205	Rotating Fixing Frame Weldment B	1
87	Auger Belt W600 13×895	1	206	Pin 3×20	2
88	Spring Washer 8	1	207	Dashboard Side Bracket	2
89	FT Bolt M8×25	1	208	Left Operation Handle	1
90	Right Wheel 13"	1	209	Arc Cup Head Bolt M8×45	4
91	Flat Washer 8	13	210	Interlock Cam	1
92	Auger Tensioner Assembly	1	211	Left Lock Rod Bracket	1
93	Bushing Sleeve	1	212	Locking Screw ST 8×16	4
94	FT Bolt M8×35	7	213	Lower Support Frame	1
95	Pivot Bolt	1	214	Arc Washer M8	4
97	Auger Idler Bracket	1	215	FT Bolt M10×20	2
98	Auger Tensioner Spring	1	216	FT Bolt M10×40	2
99	Auger Idler Mounting Bracket	1	217	Interlock Rod Weldment	1
100	Large Flat Washer 8	9	218	Right Lock Rod Bracket	1
101	Chute Adjustable Cable	1	219	Furniture Screw M6×40	2
102	Large Gear (for 13" Wheel)	1	220	Plastic Sleeve	2
103	Cylindrical Pin A6×35	1	221	Flange Bolt M8×70	2
104	Base Plate	1	222	Bolt M6×40	2
105	Gearbox Housing Weldment	1	223	Drive Control Cable	1
106	Locking Screw ST 8×16	16	225	Screw ST6.3×16	2
107	Wheel Shaft	1	226	Drive Clutch Lever	1
108	Output Shaft Bushing	2	227	Drive Clutch Lever Return Spring	1
109	Output Shaft Spacer	2	228	Arc Washer 10	6
110	Output Shaft Gasket	9	229	Clip 1.8	5

Part No.	Description	Qty	Part No.	Description	Qty
111	Shaft Circlip 8	2	230	Right Operation Handle	1
112	Left Wheel 13"	1	231	FT Bolt M5×12	3
113	Pin 6×36	2	232	Switch	2
114	Auger Cable Bracket	1	233	Left & Right Operation Handles Connecting Plate	1
116	Swing Arm Assembly	2	234	Interlock Spring Plate	1
117	FT Bolt M6×10	8	235	Auger Clutch Lever	1
118	Friction Wheel Press Plate	2	236	Handle Grip	2
119	Friction Wheel	1	237	Shaft Circlip 6	1
120	Snap Ring 15	3	238	Thick Lock Nut M5	3
121	Ball Bearing 6203-2RSn	2	240	Thick Lock Nut M6	7
122	Friction Wheel Hub	1	311	Light	1
123	Clevis Pin 3	1	312	Light Holder	1
124	Pin 6×25	1	313	LED Light Shock-absorbing Rubber Pad	1
125	Shift Fork Connecting Sleeve	1	314	Right Heated Handle (160mm)	1
126	Rotating Shaft	1	315	Left Heated Handle (160mm)	1
127	Gear Shifting Lever	1	316	Blind Rivet 4×16	4
128	Locking Screw ST 6×16	10			

Spare Parts for Optional Components

Part No.	Description	Qty
44a	Stamped Bearing Housing 6005	2
44b	Bearing Housing Pad	2
44c	Ball Bearing 6001-2RS	2
45a	Bolt M8×20	6
45b	Lock Nut M8	6
8*	Drift Cutter	2
9*	Bolt M8×20	4
10*	Flat Washer 8	4
11*	Handle Knob Assembly	4
308	Poly Skid Shoe	2





GSBW30 Parts List

Part No.	Description	Qty	Part No.	Description	Qty
1	Bolt M10×50	1	128	Locking Screw ST 6×16	10
2	Flange Lock Nut (Non-standard) M6	1	129	Shift Fork Fixing Bracket	1
3	Extra Large Flat Washer 10	2	130	Shift Fork Weldment	1
4	Rotating Gasket	1	131	Shaft Circlip 35	1
5	Chute Rotate Head	1	132	Friction Wheel Shaft	1
6	Rotating Cable Bracket	1	133	Shaft Circlip 40	2
7	Flange Lock Nut M10	2	134	Cable Bracket	1
8	Rotating Claw	1	135	Cable Roller	1
9	FT Bolt M6×25	1	136	Roller Bushing	1
10	Support Tube	1	137	Driven Pulley Bracket	1
13	Steering Lock Cable B	1	138	Friction Wheel Return Spring	1
14	Rotating Torsion Spring	1	139	Flange Lock Nut M16×1.5	1
15	FT Bolt M8×40	2	140	Positioning Sleeve	2
16	Steering Control Cable	2	141	Locating Shaft	1
24	Bolt M8×16	6	143	Engine Belt Guard	1
27	Lock Nut M8	21	144	Driven Pulley Hub	1
28	Auger Support Plate	1	145	Ball Bearing 6006-2RS	1
29	Grease Nipple M10×1	1	146	Driven Pulley	1
30	Right Auger Weldment	1	147	Drive Belt W1000II 10×895	1
31	FT Bolt M6×20	6	148	Flat Key 6×6×45	1
32	Spring Washer 6	16	149	Flat Washer 10	2
33	Flat Washer 6	17	150	Spring Washer 10	1
34	Rotary Shaft Lip Seal B20×35×7	3	151	Engine Shaft Extension Washer	1
35	Screw M5×10	1	152	Belt Pulley	1
36	Right Gearbox Housing	1	153	Drive Belt Tensioner Assembly	1
37	Auger Shaft	1	154	Small Bushing Sleeve	1
38	Clevis Pin 1.8	4	155	FT Bolt M8×30	2
39	Worm Gear	1	156	Drive Belt Tensioner Assembly Bracket	1
40	Shaft Sleeve	2	157	FT Bolt M8×20	2
41	Left Gearbox Housing	1	158	Spacer	1
42	Spacer Sleeve	2	159	Gasoline Engine	1
43	Left Auger Weldment	1	161	Belt Blocker	1
44	Bearing Box	2	162	Extension Spring	1
45	Locking Screw ST8×16	6	163	Jam Nut M8	1
46	Large Flat Washer	2	170	Sliding Sleeve	2
47	Shear Pin	4	171	Flat Washer 12	1
48	Key 5×7.5×19	1	172	Snap Ring 9	1
49	Ball Bearing 6001-2RS	1	173	Right Gear Shift Lever Grip	1
50	Roll Pin 6×37	4	174	Gear Shift Lever	1
51	Impeller Shaft	1	175	Left Gear Shift Lever Grip	1
52	Washer	1	176	Screw M5×12	1
53	Rotary Shaft Lip Seal B20×35×7	1	177	Compression Spring	1
54	Impeller Assembly	1	178	FT Bolt M10×60	1
55	Thrust Ball Bearing 51104	1	179	Rubber Plug	1
56	Ball Bearing 61904-2RS	1	180	Screw ST8×16	4

Part No.	Description	Qty	Part No.	Description	Qty
58	Shave Plate	1	181	Dashboard	1
60	Bolt M8×20	7	182	Plastic Ring	1
61	Iron Skid Shoe	2	184	Screw ST4.2×16F	4
62	Plug	9	185	Screw ST4.2×13F	1
63	Auger Housing Weldment (Joystick Type)	1	186	Screw ST4.8×16	3
64	Screw ST5.5×13	2	187	Screw ST4.2×19F	2
65	Chute Clean-Out Tool	1	188	Right Joystick Housing	1
66	Clean-Out Tool Mounting Bracket	1	189	Large Flat Washer 10	1
67	Bolt M8×25	2	190	Joystick Head	1
70	Discharge Chute Return Spring	1	191	Joystick Torsional Spring Bracket	1
71	Spring Guide Rod	1	192	Underlay Plate	1
72	Stop Rod	1	193	Bolt M8×16	2
73	Stop Rod Torsion Spring	1	194	Torsion Spring	1
75	Cable Fixing Bracket	2	195	Drawbar Bracket	1
77	Deflector Adjusting Cable	1	196	Joystick, Left Half	1
78	Discharge Chute	1	197	Stop Pawl	1
79	Screw M5×6	2	198	Reamer Bolt M10×60	1
80	Discharge Chute Washer	1	199	Left Joystick Housing	1
81	Ball Bearing 6203-2RS	1	200	Drawbar	1
82	Bearing Housing	1	201	Joystick, Right Half	1
83	Lock Washer	4	202	Rotating Gasket	1
84	Lock Nut M8	15	203	Joystick Support Bracket	1
85	200 Auger Pulley	1	204	Lever Mounting Bracket	2
86	Extra Large Flat Washer 8	2	205	Rotating Fixing Frame Weldment B	1
87	Auger Belt W600 13×970	1	206	Pin 3×20	2
88	Spring Washer 8	1	207	Dashboard Side Bracket	2
89	FT Bolt M8×25	1	208	Left Operation Handle	1
90	Right Wheel 13"	1	209	Arc Cup Head Bolt M8×45	4
91	Flat Washer 8	13	210	Interlock Cam	1
92	Auger Tensioner Assembly	1	211	Left Lock Rod Bracket	1
93	Bushing Sleeve (Double A Belt)	1	212	Locking Screw ST 8×16	4
94	FT Bolt M8×35	7	213	Lower Support Frame	1
95	Pivot Bolt	1	214	Arc Washer M8	4
97	Auger Idler Bracket	1	215	FT Bolt M10×20	2
98	Auger Tensioner Spring	1	216	FT Bolt M10×40	2
99	Auger Idler Mounting Bracket	1	217	Interlock Rod Weldment	1
100	Large Flat Washer 8	9	218	Right Lock Rod Bracket	1
101	Chute Adjustable Cable	1	219	Furniture Screw M6×40	2
102	Large Gear (for 13" Wheel)	1	220	Plastic Sleeve	2
103	Cylindrical Pin A6×35	1	221	Flange Bolt M8×70	2
104	Base Plate	1	222	Bolt M6×40	2
105	Gearbox Housing Weldment	1	223	Drive Control Cable	1
106	Locking Screw ST 8×16	16	225	Screw ST6.3×16	2
107	Wheel Shaft	1	226	Drive Clutch Lever	1
108	Output Shaft Bushing	2	227	Drive Clutch Lever Return Spring	1
109	Output Shaft Spacer	2	228	Arc Washer 10	6

Part No.	Description	Qty	Part No.	Description	Qty
110	Output Shaft Gasket	9	229	Clip 1.8	5
111	Shaft Circlip 8	2	230	Right Operation Handle	1
112	Left Wheel 13"	1	231	FT Bolt M5×12	3
113	Pin 6×36	2	232	Switch	2
114	Auger Cable Bracket	1	233	Left & Right Operation Handles Connecting Plate	1
116	Swing Arm Assembly	2	234	Interlock Spring Plate	1
117	FT Bolt M6×10	8	235	Auger Clutch Lever	1
118	Friction Wheel Press Plate	2	236	Handle Grip	2
119	Friction Wheel	1	237	Shaft Circlip 6	1
120	Snap Ring 15	3	238	Thick Lock Nut M5	3
121	Ball Bearing 6203-2RSn	2	240	Thick Lock Nut M6	7
122	Friction Wheel Hub	1	311	Light	1
123	Clevis Pin 3	1	312	Light Holder	1
124	Pin 6×25	1	313	LED Light Shock-absorbing Rubber Pad	1
125	Shift Fork Connecting Sleeve	1	314	Right Heated Handle (160mm)	1
126	Rotating Shaft	1	315	Left Heated Handle (160mm)	1
127	Gear Shifting Lever	1	316	Blind Rivet 4×16	4

Spare Parts for Optional Components

Part No.	Description	Qty
44a	Stamped Bearing Housing 6005	2
44b	Bearing Housing Pad	2
44c	Ball Bearing 6001-2RS	2
45a	Bolt M8×20	6
45b	Lock Nut M8	6
8*	Drift Cutter	2
9*	Bolt M8×20	4
10*	Flat Washer 8	4
11*	Handle Knob Assembly	4
308	Poly Skid Shoe	2

WARRANTY INFORMATION:

Please refer to our website for detailed warranty conditions and coverage.
For the most up-to-date and comprehensive warranty information, visit www.tmgindustrial.com