



OPERATOR'S MANUAL

MODEL #201327
24 IN. 2-STAGE SNOWBLOWER



ACTIVATE YOUR WARRANTY

by registering your product:
championpowerequipment.com

SERIAL NO.



 **1-877-338-0999**

or visit **championpowerequipment.com**

READ AND SAVE THIS MANUAL. This manual contains important safety precautions which should be read and understood before operating the product. Failure to do so could result in serious injury. This manual should remain with the product.

Specifications, descriptions and illustrations in this manual are as accurate as known at the time of publication, but are subject to change without notice.

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FOR PARTS BREAKDOWN

Search by model number at
championpowerequipment.com

INTRODUCTION

Congratulations on your purchase of a Champion Power Equipment (CPE) product. CPE designs, builds, and supports all of our products to strict specifications and guidelines. With proper product knowledge, safe use, and regular maintenance, this product should bring years of satisfying service.

Every effort has been made to ensure the accuracy and completeness of the information in this manual at the time of publication, and we reserve the right to change, alter and/or improve the product and this document at any time without prior notice.

Since CPE highly values how our products are designed, manufactured, operated and are serviced, and also highly value your safety and the safety of others, we would like you to take the time to review this product manual and other product materials thoroughly and be fully aware and knowledgeable of the assembly, operation, dangers and maintenance of the product before use. Fully familiarize yourself, and make sure others who plan on operating the product fully familiarize themselves too, with the proper safety and operation procedures before each use. Please always exercise common sense and always err on the side of caution when operating the product to ensure no accident, property damage, or injury occurs. We want you to continue to use and be satisfied with your CPE product for years to come.

When contacting CPE about parts and/or service, you will need to supply the complete model and serial numbers of your product. Transcribe the information found on your product's nameplate label to the table below

CPE TECHNICAL SUPPORT TEAM
1-877-338-0999
MODEL NUMBER
201327
SERIAL NUMBER
DATE OF PURCHASE
PURCHASE LOCATION

SAFETY DEFINITIONS

The purpose of safety symbols is to attract your attention to possible dangers. The safety symbols, and their explanations, deserve your careful attention and understanding. The safety warnings do not by themselves eliminate any danger. The instructions or warnings they give are not substitutes for proper accident prevention measures.

DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE indicates information considered important, but not hazard-related (e.g., messages relating to property damage).

IMPORTANT SAFETY INSTRUCTIONS

⚠ WARNING

Cancer and Reproductive Harm – www.P65Warnings.ca.gov

⚠ DANGER

Engine exhaust contains carbon monoxide, a colorless, odorless, poison gas. Breathing carbon monoxide will cause nausea, dizziness, fainting or death. If you start to feel dizzy or weak, get to fresh air immediately.

Operate product outdoors only in a well ventilated area.

DO NOT operate the product inside any building, including garages or sheds.

DO NOT allow exhaust fumes to enter a confined area through windows, doors, vents or other openings.

⚠ DANGER

Using an engine indoors **CAN KILL YOU IN MINUTES**. Engine exhaust contains carbon monoxide. This is a poison you cannot see or smell.

NEVER use inside a home or garage, **EVEN IF** doors and windows are open.

ONLY use **OUTSIDE** and far away from windows, doors, and vents.



Install battery-operated carbon monoxide alarms or plug-in carbon monoxide alarms with battery back-up according to the manufacturer's instructions.

⚠ DANGER

Rotating parts can entangle hands, feet, hair, clothing and/or accessories. Traumatic amputation or severe laceration can result.

Keep hands and feet away from rotating parts.

Tie up long hair and remove jewelry.

Operate equipment with guards in place.

DO NOT wear loose-fitting clothing, dangling drawstrings or items that could become caught.

⚠ WARNING

Sparks can result in fire or electrical shock.

When servicing the engine:

Disconnect the spark plug wire and place it where it cannot contact the plug.

DO NOT check for spark with the plug removed.

Use only approved spark plug testers.

⚠ WARNING

Running engines produce heat. Severe burns can occur on contact. Combustible material can catch fire on contact.

DO NOT touch hot surfaces.

Avoid contact with hot exhaust gases.

Allow equipment to cool before touching.

Fuel Safety

⚠ DANGER

GASOLINE AND GASOLINE VAPORS ARE HIGHLY FLAMMABLE AND EXPLOSIVE.

Fire or explosion can cause severe burns or death.

Gasoline and gasoline vapors:

- Gasoline vapors are highly flammable and explosive.
- Gasoline vapors can cause a fire or explosion if ignited.
- Gasoline is a liquid fuel and the resulting gasoline vapors can ignite and cause a fire or explosion.
- Gasoline is a skin irritant and needs to be cleaned up immediately if spilled on skin or clothes.
- Gasoline has a distinctive odor, this will help detect potential leaks quickly.
- In any petroleum gas fire, flames should not be extinguished unless by doing so the fuel supply valve can be turned OFF. This is because if a fire is extinguished and a supply of fuel is not turned OFF, then an explosion hazard could be created.
- Gasoline vapors expand and contract with ambient temperatures. Never fill the gasoline tank past the red FULL indicator on the fuel filter, as gasoline vapors need room to expand if temperatures rise.

⚠ WARNING**When adding or removing gasoline:**

Do not light or smoke cigarettes.

Always stop the engine and allow to cool for a minimum of two minutes before refueling.

Always loosen gasoline cap slowly to release vapor pressure and to keep fuel from escaping around the gasoline cap.

Always replace and tighten the gasoline cap securely after fueling.

Never remove the gasoline cap or add gasoline while the engine is running or when the engine is hot.

Only fill or drain gasoline outdoors in a well-ventilated area.

Do not pump gasoline directly into the snowblower at the gas station.

Always store gasoline in an EPA/CARB compliant container or to transfer the gasoline to the snowblower.

Do not overfill the gasoline tank.

Always keep gasoline away from sparks, open flames, pilot lights, heat and other sources of ignition.

⚠ WARNING**When starting the engine:**

Do not attempt to start a damaged snowblower.

Always check that the gasoline cap, air filter, spark plug, fuel lines and exhaust system are properly in place.

Always allow spilled gasoline to evaporate fully before attempting to start the engine.

Always be certain that the snowblower is resting firmly on level ground.

⚠ WARNING**When operating the snowblower:**

Do not move or tip the snowblower during operation.

⚠ WARNING**When transporting or servicing the snowblower:**

Always check that the fuel valve is in the OFF position and the gasoline tank is empty.

Disconnect the spark plug wire.

⚠ WARNING**When storing the snowblower:**

Always store away from sparks, open flames, pilot lights, heat and other sources of ignition.

Never store snowblower or gasoline near furnaces, water heaters, or any other appliances that produce heat or have automatic ignitions.

⚠ DANGER

Never place a gasoline container, gasoline tank, LPG cylinder or any combustible material in the path of the exhaust stream during operation of the engine.

⚠ WARNING

Never use a gasoline container, gasoline tank, or any other fuel item that is broken, cut, torn or damaged.

Training

1. Read the Operator's Manual completely before attempting to use the snowblower. Be thoroughly familiar with the controls and the proper use of the equipment. Know how to stop the engine and disengage the controls quickly.
2. Never allow children under 16 years old to operate the equipment. Never allow adults to operate the equipment without proper instruction.
3. Thrown objects can cause serious injury. Keep the area of operation clear of all persons, particularly small children, and pets. Plan your snow discharge pattern to prevent throwing material toward cars, structures, roads and people.
4. Exercise caution to avoid slipping or falling, especially when operating in reverse.
5. Be aware that the operator or user is responsible for accidents or hazards occurring to other people or their property.
6. Never use the snowblower under the influence of alcohol or medication, or if you are tired or ill.

Preparation For Use

1. Be thoroughly familiar with the controls and the proper use of the equipment. Understand and know how to stop the engine and disengage the controls quickly.
2. Thoroughly inspect the area where the equipment is to be used and remove all doormats, sleds, boards, wires, and other foreign objects.
3. Disengage all clutch handles before starting the motor.

4. Do not operate the equipment without wearing adequate winter garments. Wear footwear which will improve footing on slippery surfaces.
5. Adjust the auger housing height to clear gravel or crushed rock surface.
6. Never attempt to make any adjustments while the engine is running (except where specifically recommended in the manual).
7. Let engine and machine adjust to outdoor temperatures before starting to clear snow.
8. The operation of any powered machine can result in foreign objects being thrown into the eyes. Always wear eye protection with side shields marked to comply with ANSI Z87.1 during operation, or while performing an adjustment or repair.
9. Inspect the auger and impeller before starting to ensure that there is no ice build up.

Operation

1. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
2. Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.
3. In the event of striking a foreign object, stop the engine, remove the spark plug, thoroughly inspect the snowblower for any damage, and repair the damage before restarting and operating the snowblower.
4. If the snowblower should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble. Vibration typically indicates a mechanical problem has occurred.
5. Always stop the engine whenever you leave the operating position, before unclogging the auger housing or discharge guide, and when making any repairs, adjustments, or inspections.
6. Before cleaning, inspecting or repairing any parts of the snowblower, always ensure the auger has stopped moving. Disconnect the spark plug wire and keep it away from the plug to prevent accidental starting.
7. Before leaving the machine unattended, disengage all control levers, stop the engine and remove the safety key.
8. Do not run the engine indoors. Exhaust fumes are dangerous and can kill you.
9. Do not clear snow across the face of slopes. Exercise extreme caution when changing direction on slopes. Never attempt to clear steep slopes.
10. Never operate the snowblower without proper guards, plates or other safety protective devices in place.
11. Never operate the snowblower near glass enclosures, automobiles, window wells, etc., without proper adjustment of the snow discharge angle. Keep children and pets away.
12. Do not overload the machine capacity by attempting to clear snow at too fast a rate.
13. Never operate the machine at high transport speeds on slippery surfaces. Use care when reversing.
14. Never direct discharge at bystanders or allow anyone in front of the unit.
15. Disengage power to the impeller when snowblower is transported or not in use.
16. Use only attachments and accessories approved by the manufacturer of snowblower (such as wheel weights, counterweights, cabs, etc.).
17. Never operate the snowblower without good visibility or light. Always be sure of your footing, and keep a firm hold on the handles. Walk; never run.
18. Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition prior to operation.
19. Replace worn or damaged parts for safety; Use only genuine replacement parts and accessories.
20. This snowblower is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge of mechanical equipment.
21. Be careful while working on the machine or clearing a blockage in the auger or impeller to ensure that fingers and hands do not become crushed or cut.
22. Do not touch hot engine components like the muffler, muffler guard or engine block during operation of the snowblower as they will cause burns.
23. Should the unit stop discharging snow for any reason, release the controls to stop the auger and the engine before inspecting for any lodged items or damaged parts in the auger housing.

Clearing a Clogged Discharge Chute

DANGER

DO NOT use your hands to clean out the discharge chute.

To clear the chute:

1. SHUT THE ENGINE OFF!
2. Wait 10 seconds to be sure the auger blades have stopped rotating.
3. Always use the provided clean-out tool to clear out the discharge chute.

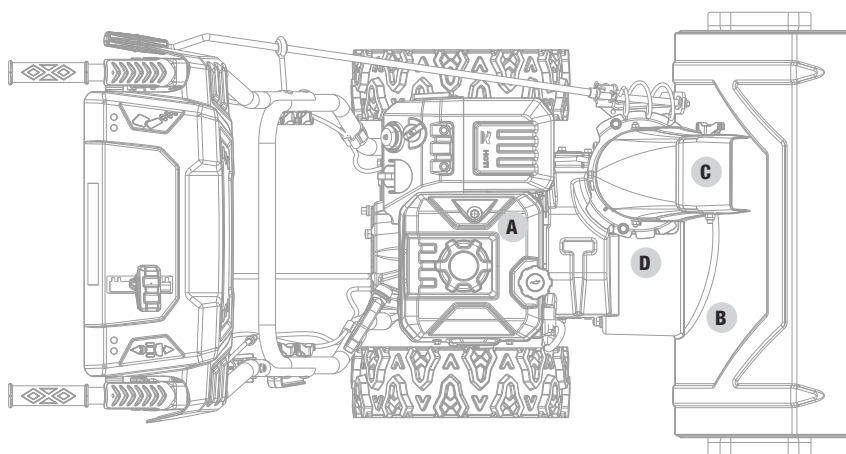
Maintenance and Storage

1. Check shear pins, engine mounted bolts, etc., at frequent intervals for proper tightness to ensure the equipment is in safe, working condition.
2. Never store the machine with gasoline in the fuel tank inside a building where automatic ignition sources are present such as hot water heaters, space heaters, clothes dryers or any open flame sources.
3. Run the snowblower for one minute to clear out packed snow and ice to prevent freeze-up prior to storage.
4. Always allow the engine to cool before storing in any enclosure.
5. Always refer to Operator's Manual for important details when the snowblower is to be stored for extended periods of time.
6. Maintain or replace safety and instructions labels, as necessary.

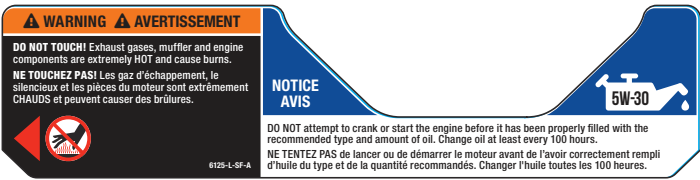
Safety Labels

These labels warn you of potential hazards that can cause serious injury. Read them carefully.

If a label comes off or becomes hard to read, contact Technical Support Team for possible replacement.



Top

	LABEL	DESCRIPTION
A		Hot Surface / Oil Fill
B		Safety Icons
C		Safety Icons
D		Dataplate

Safety Symbols

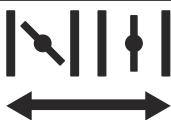
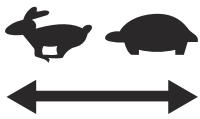
Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to more safely operate the product.

SYMBOL	MEANING
	Read Operator's Manual. To reduce the risk of injury, user must read and understand operator's manual before using this product.
	Eye and Ear Protection. Always wear safety goggles or safety glasses with side shields, and as necessary a full face-shield as well as full ear protection when operating this product. Always wear eye protection with side shields marked to comply with ANSI Z87.1.
	Safety Alert. 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 safety instructions could result in serious injury or death.
	Electric Shock. Failure to use in dry conditions and to observe safe practices can result in electric shock. Improper connections to a building can allow current to backfeed into utility lines, creating an electrocution hazard. A transfer switch must be used when connecting to a building.
	Fire/Explosion. Fuel and its vapors are extremely flammable and explosive. Fire or explosion can cause severe burns or death. Operation of this equipment may create sparks that can start fires around dry vegetation. A spark arrestor may be required. The operator should contact local fire agencies for laws or regulations relating to fire prevention requirements.
	Toxic Fumes. The engine exhaust from this product contains chemicals known to cause cancer, birth defects and other reproductive harm. Risk of Asphyxiation. This engine emits carbon monoxide, an odorless, colorless poison gas. Breathing carbon monoxide can cause nausea, fainting or death. Use only in a well-ventilated area.
	Thrown Objects. This machine may pick up and throw objects which can cause serious personal injury.
	Always Use Chute Tool. 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.

SYMBOL	MEANING
	Hot Surface. To reduce the risk of injury or damage, avoid contact with any hot surface.
	Open Flame Alert. Fuel and its vapors are extremely flammable and explosive. Keep fuel away from smoking, open flames, sparks, pilot lights, heat, and other ignition sources.
	Rotating Auger. DANGER: Avoid injury from rotating auger - keep feet away.
	Rotating Blades. Never put your hand in the chute. Contact with rotating parts can amputate fingers and hands.

Operation Symbols

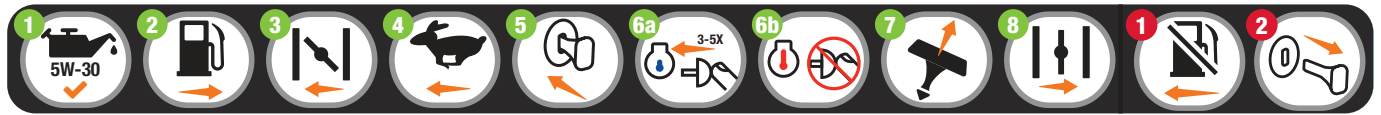
Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to more safely operate the product.

SYMBOL	MEANING
	Check Oil Level
	Maximum Ethanol
	Choke / Run
	Throttle: Full Speed / Low Speed
	Insert Engine Key

SYMBOL	MEANING
	Remove Engine Key
	Cold Prime
	Warm Prime
	Fuel Valve: OFF / ON

Quickstart Label Symbols

Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to more safely operate the product.



Starting the Engine

1. **Check oil level.**
Recommended oil is 5W-30.
2. Turn **fuel valve** "ON" position.
3. Move **choke lever** to "CHOKE" position.
4. Move the **throttle lever** to full speed.
5. Make sure the engine safety key is inserted into the key hole.
6. **Priming the Engine**
 - 6a. To start the COLD engine: Prime 3-5 times.
 - 6b. To start a WARM engine: DO NOT prime.
7. Pull the **recoil rope** to start the engine.
8. Move the **choke lever** to "RUN" position.

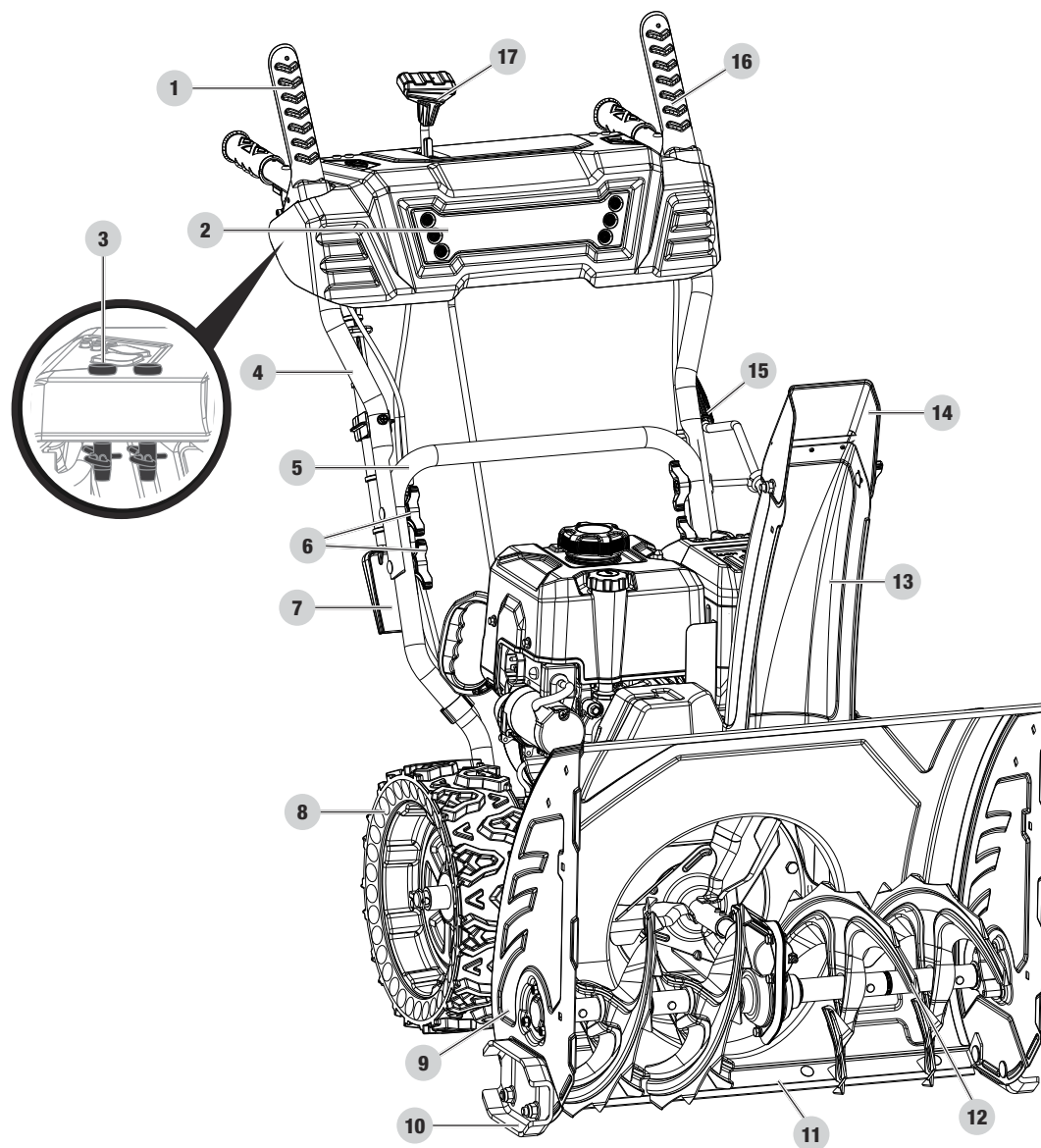
Stopping the Engine

1. Turn **fuel valve** "OFF" position.
2. Remove the engine key.

CONTROLS AND FEATURES

Read this operator's manual before operating your snowblower. Familiarize yourself with the location and function of the controls and features. Save this manual for future reference.

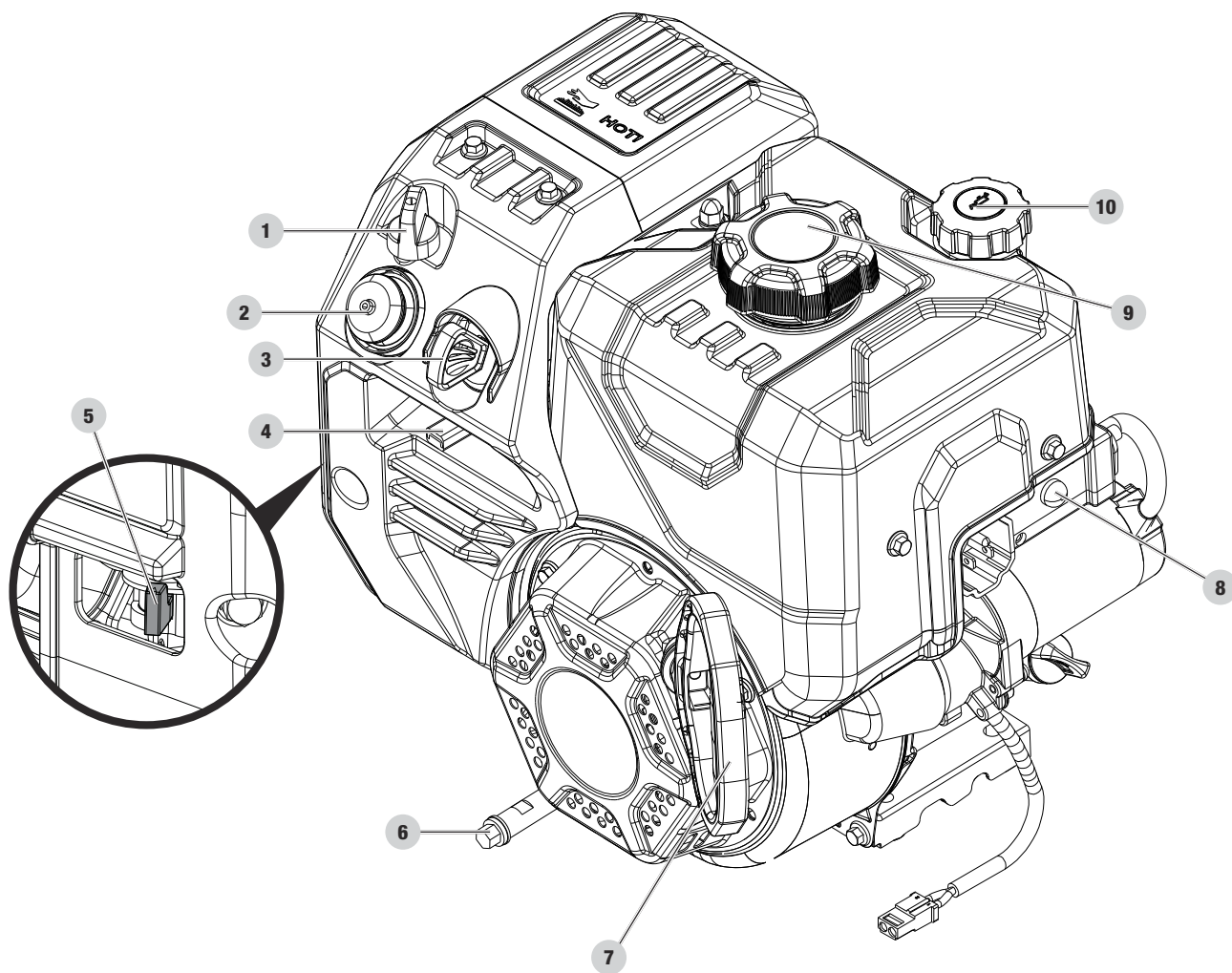
Snowblower



1. Drive Control Lever
2. Lights
3. B Clip and Shear Pins (4)
4. Upper Handles
5. Lower Handle
6. Handle Locking Knobs
7. Clean Out Tool
8. Wheels
9. Auger Housing
10. Adjustable Skid Shoes

11. Shave Plate
12. Auger
13. Discharge Chute
14. Discharge Deflector
15. Discharge Chute Rotation Lever
16. Auger Control Lever
17. Speed Control Lever

Engine



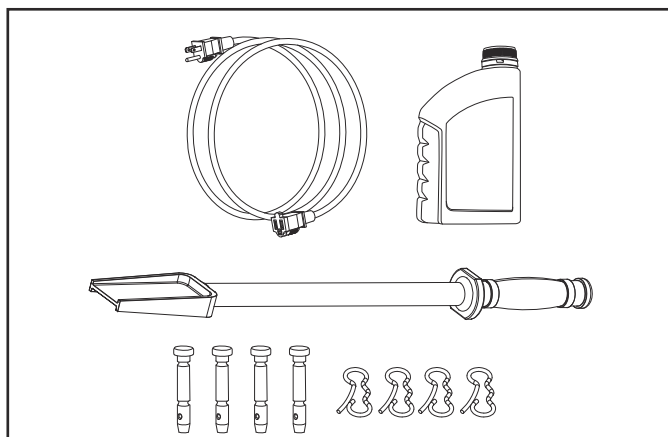
1. Choke Lever
2. Primer Bulb
3. Key (safety lock out)
4. Throttle Lever
5. Fuel Valve (On/Off)
6. Oil Drain Plug

7. Recoil Starter Grip
8. Electric Start Button
9. Fuel Cap
10. Oil Fill and Level Check Cap

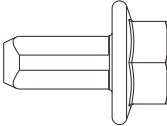
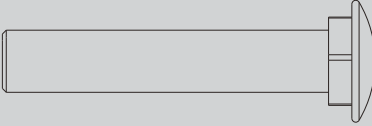
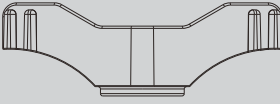
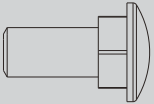
Parts Included

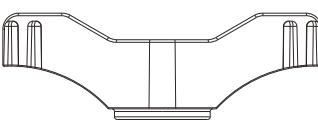
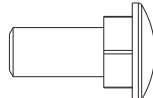
Accessories

6 ft. (1.8 m) Electric Start Power Cord	1
Engine Oil	0.5 US qt. (500 mL)
Chute Clearing Tool	1
B Clip and Shear Pins (on the control panel)	4



Assembly Parts

Part	Part Qty.	Hardware Needed	Hardware Qty.	Hardware Reference	Part Location	Tool Needed
Lower Handle	1	M8 x 16 Hex Flange Bolt	4		Blister Pack	13 mm Wrench
Upper Handle	1	M8 x 45 Square Neck Carriage Bolt	3		Blister Pack	N/A
		Locking Knob	3		Blister Pack	
Drive Control Rod	1	Clip	1		Pre-assembled	N/A
Discharge Chute	1	M6 x 16 Square Neck Carriage Bolt	3		Blister Pack	N/A
	1	M6 Nylon Lock Nut	3			10 mm Wrench

Part	Part Qty.	Hardware Needed	Hardware Qty.	Hardware Reference	Part Location	Tool Needed
Chute Crank	1	Chute crank eye bolt	1		Pre-assembled	N/A
		Clip	1		Pre-assembled	N/A
		Locking Knob	1		Blister Pack	N/A
Auger, Drive, Cables, Wire Harness	2	Cable Clamp	2		Blister Pack	N/A
Skid Shoes	2	M10 × 25 Square Neck Carriage Bolt	4		Blister Pack	N/A
		M10 Nylon Lock Nut	4			15mm deep well socket

ASSEMBLY

Your snowblower requires some assembly. This unit ships from our factory with oil. It must be properly serviced with fuel and oil before operation.

If you have any questions regarding the assembly of your snowblower, call our Technical Support Team at 1-877-338-0999. Please have your serial number and model number available.

Unpacking

1. Set the shipping carton on a solid, flat surface.
2. Remove everything from the carton that is loose. Make sure all the assembly parts are included before you start.
3. Cut down the carton to allow a flat surface area to install the assembly parts without scratching parts or cutting tires. Alternatively, with team lift help, lift the base of the snowblower out of the carton and place it on a flattened carton to start assembly. Another option is to tip the box on the auger end and slide the snowblower out.

Remove the Wheels

To make the lower handle easier to assemble, remove the wheels from both sides. Tip the snowblower onto the front of the auger housing to put the wheels up at convenient working height. Next steps of handle assembly and speed control connecting rod assembly are easier to perform with snowblower sitting on front of auger housing. For each wheel, locate the pin (A) holding the wheel on. Take note of the orientation of the pin, with short side of beveled end toward the end of shaft, to facilitate the lift ring to swing closed. Lift the ring (B) around the axle (C) and then pull the pin (A) out holding the wheel on (Fig.1). Repeat on the other side. Remove the wheels.

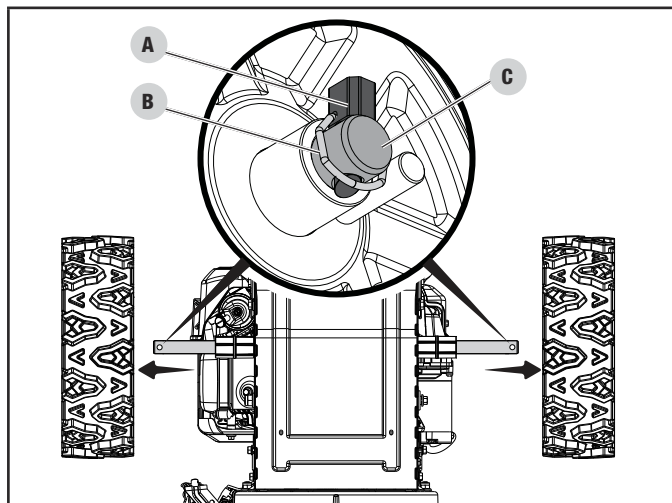


Figure 1

Handle

1. Lay the upper handle and control panel toward the bottom of the snowblower to align the cables and wire harness. Route the left side auger cable through the lower handle to keep the cable away from the left wheel. Attach the lower handle (A) onto the unit body with 4 bolts (B), using a 13 mm wrench (Fig. 2). Torque until snug. Do not overtighten.

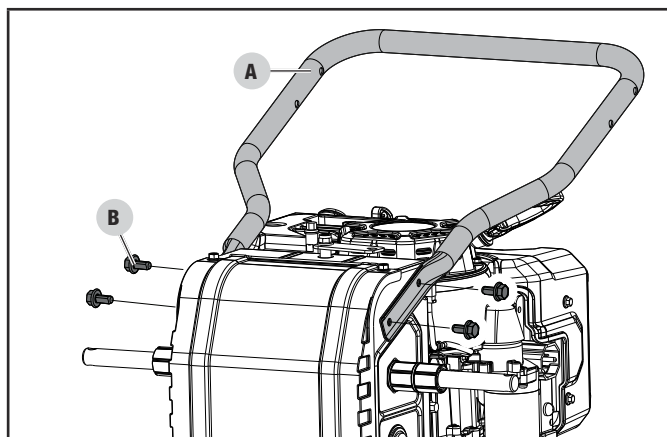


Figure 2

2. Remove cable ties off of the hand levers. Hold hand lever down against hand grip to take the pressure off of the zip tie. Use a side cutters, pliers, or scissors, to cut the cable tie or just slide the zip ties off (Fig. 3). Release the hand lever and it will spring upward at a 45° angle.

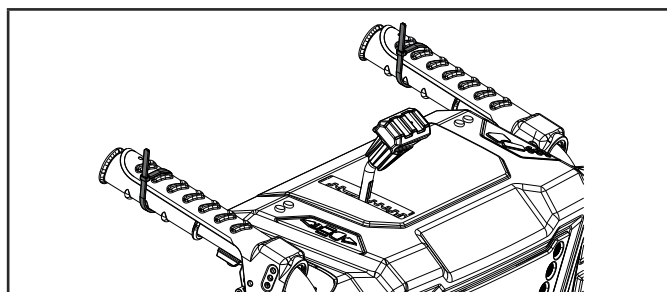


Figure 3

3. Connect the upper and lower handle with bolts (F), and locking knobs (H) (Fig. 4). Torque until snug. Do not overtighten.

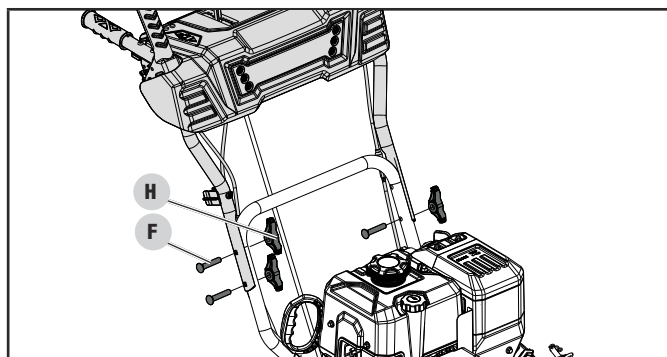


Figure 4

Grease and Install the Wheels

Apply anti-seize grease onto the wheel axle. Apply anti-seize grease into the inside diameter of the wheel hub. Slide the wheel (A) onto axle (B). Place axle pin (C) into the axle. Once inserted, fold ring (D) around axle to hold in place (Fig. 5).

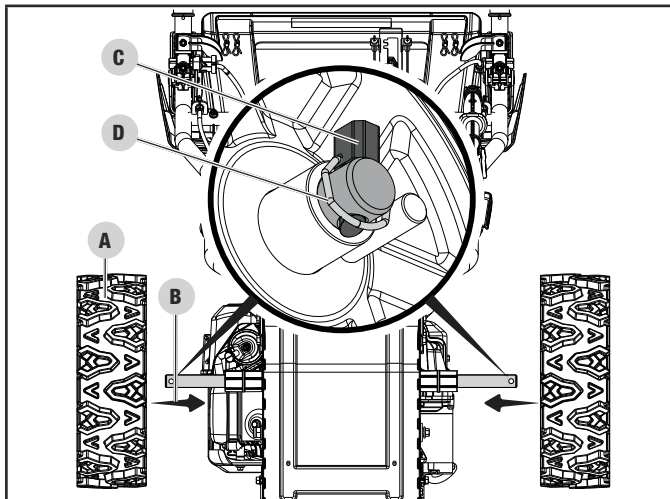


Figure 5

Speed Control Connecting Rod

Bottom

Attach the bottom end of speed control connecting rod (A) at about 10 o'clock orientation and slide rod end into key hole in speed select lever (B). Rotate the rod up toward 12 o'clock up toward speed selection lever. (Fig. 6)

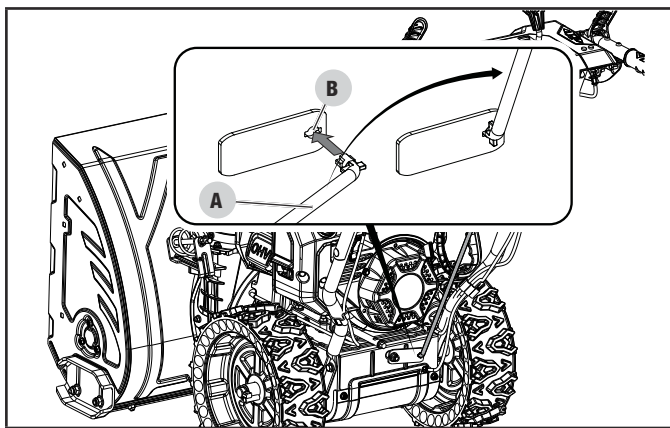


Figure 6

Top

Move the speed selection lever until the connecting pin (C) lines up with the hole in the speed selection lever (D). Push pin (C) into the hole in the speed selection lever (D). Move speed select lever to R2 to give more room to insert the R-pin. Push the R-pin (E) through the hole in pin (C) (Fig. 7).

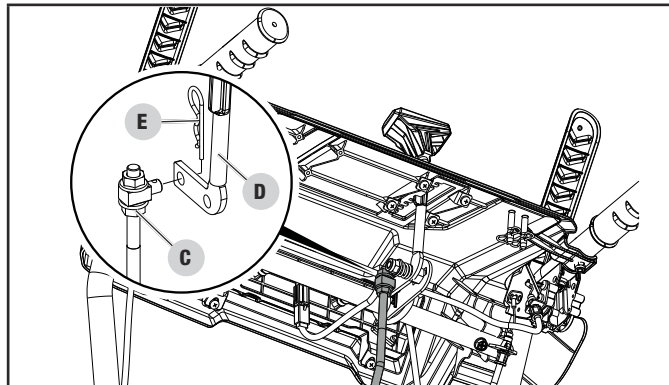


Figure 7

Chute Crank

1. Slide the eye bolt (A) through the upper handle and lower handle connection hole. Thread the locking knob (B) onto the eye bolt (A) (Fig. 8A). Torque until snug. Do not overtighten.

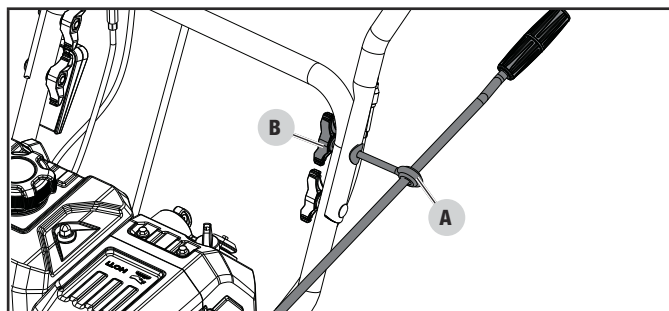


Figure 8A

2. Slide the chute crank (C) coupler over the shaft of the spiral worm gear at the chute gear. Turn the chute crank (C) until the connecting hole lines up. Push the B-clip (D) through the connecting hole (Fig. 8B magnified circle view).

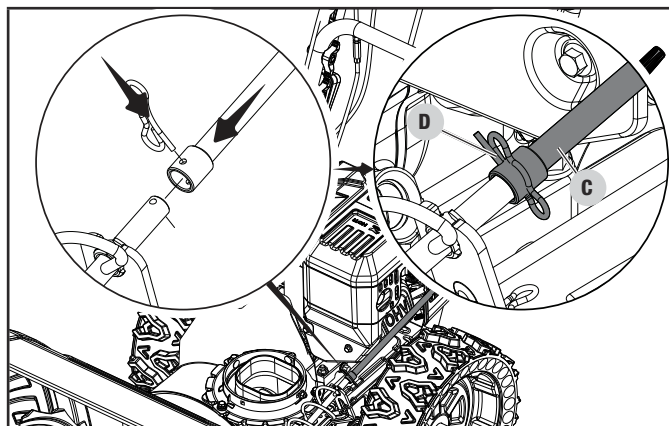


Figure 8B

- Once the chute crank is assembled, tip the snowblower back on the wheels.

Chute

Tip the snowblower back on the wheels. Remove the chute (A) from the bubble wrap. Attach the chute to the chute gear (B). Connect the chute with 3 carriage bolts (C) and 3 locking nuts (D) as shown (Fig. 9). Torque until snug. Do not overtighten.

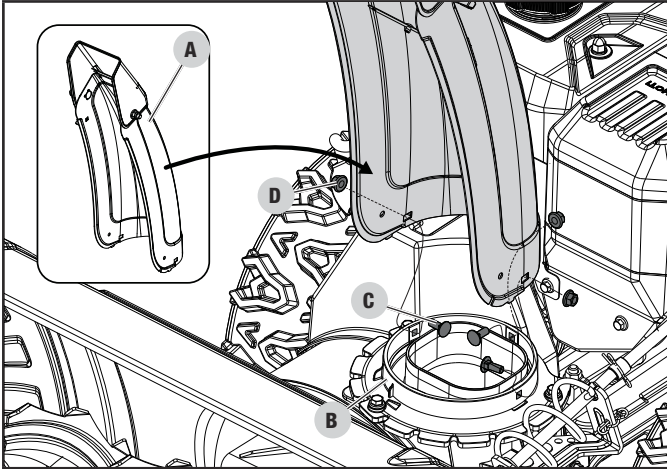


Figure 9

Skid Shoes

- Mount skid shoes (A) onto sides of auger housing (B) with two (2) M10 x 25 square neck carriage bolts (C). Use 15mm deep well socket to install two (2) M10 nylon lock nuts (D) but keep loose (Fig. 10). Repeat on the other side.
- Use desired thickness shims to set the height of shave plate above pavement. For most concrete and asphalt pavement 1/8" (3.2 mm) is recommended to prevent the shave plate from getting stuck against uneven steps and cracks in the pavement and causing premature shave plate wear. 1-gallon wood paint stir sticks are 1/8" (3.2 mm) thick and work well to use as shims. Or you may use cardboard from the packaging.
- If you have uneven pavement, or gravel or stone pavement, then you may need 1/4" (6.4 mm) shims to clear uneven steps or to prevent excessive stone ingestion. Wood pencils are close to 1/4" (6.4 mm) and can be used as shims. The skid shoes can be set to provide up to 2.0" (50.8 mm) of shave plate clearance over the pavement.
- Slide two shims under the shave plate (E) to set the desired height of shave plate over the pavement. Push each skid shoe (A) down against the pavement and use 15mm deep well socket to tighten the flange washer lock nut (D). Torque until snug. Do not overtighten (Fig 10.)

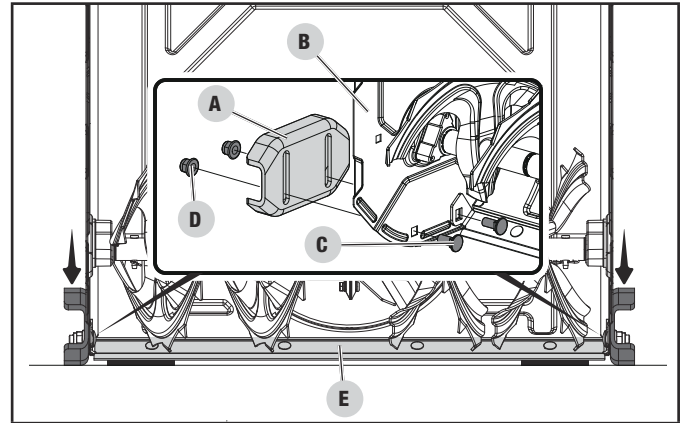


Figure 10

Clean Out Tool & Cable Clamps

- Attach clean out tool (A) into clip (B) on right side handle bar (Fig. 11).
- Attach two clamps (C) on lower handle to hold cables coming from hand levers and to hold the LED light power cable. The clamps have an interlocking shape. Spread the clamps out axially into a spiral shape to slide the interlocking shapes into each other from the opposite edge (Fig. 11).

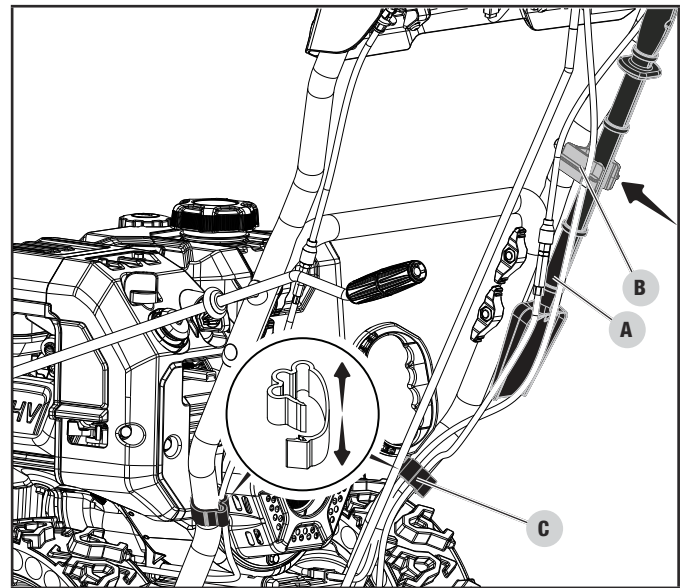


Figure 11

- The LED light power cable should already be plugged in to connector below the electric starter motor behind the right wheel. Verify the connector is plugged together all the way.

Add Engine Oil

⚠ WARNING

DO NOT attempt to crank or start the engine before it has been properly filled with the recommended type and amount of oil. Damage to the snowblower as a result of failing to follow these instructions will void your warranty.

NOTICE

The snowblower pulley has a sealed, pre-lubricated ball bearing that requires no additional lubrication for the life of the bearing.

NOTICE

The recommended oil type for typical use is **5W-30 automotive oil**.

If running snowblower in extreme temperatures, refer to the following chart for recommended engine oil type.

		Recommended Engine Oil Type							
		10W-30 5W-30 10W-40 5W-30 Full Synthetic							
°F		-22	-5	23	41	59	77	104	122
°C		-30	-15	-5	5	15	25	40	50
		Ambient temperature							

1. Place the snowblower on a flat, level surface.
2. Remove the oil cap/dipstick and wipe it clean (Fig. 12A).

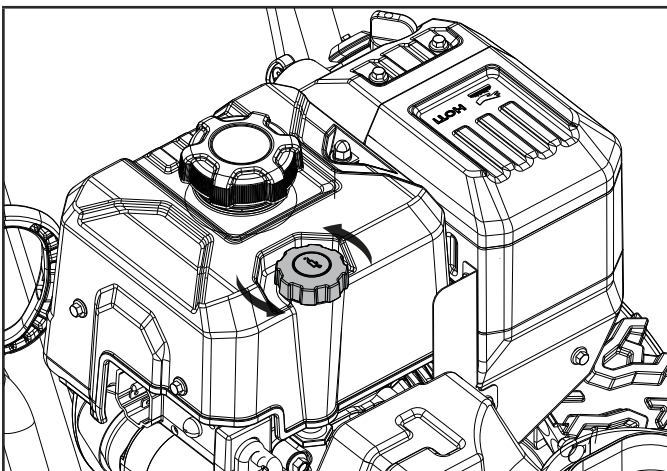


Figure 12A

3. Fully insert the oil cap/dipstick into the filler neck until it seats completely (note the detent). Turn it ¼ turn clockwise to secure it. Remove the dipstick, wipe it clean with a lint-free cloth, reinsert it fully and secure it again with a ¼ turn, then remove it once more to check the oil level (see Figure 12B).

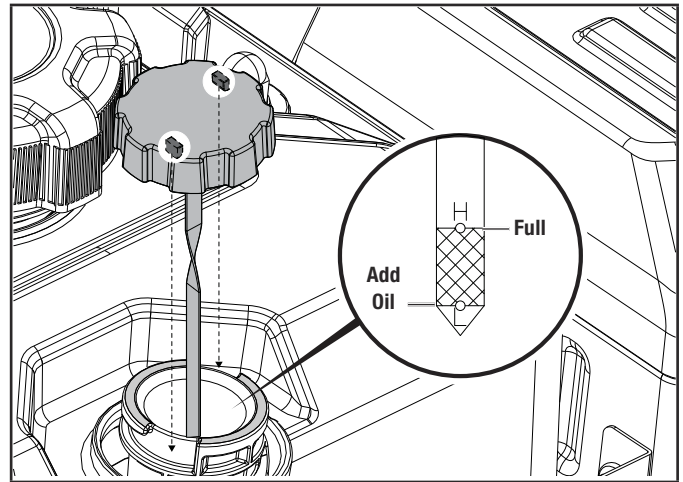


Figure 12B

4. If the oil level is near or below the lower limit mark on the dipstick, remove the oil cap/dipstick, and fill with the recommended oil to the upper limit mark. Do not overfill (Fig. 12B).
5. Reinstall the oil cap/dipstick.

NOTICE

Check oil level often during the initial 20 hour engine run period. Refer to the *Maintenance* section for recommended service intervals.

NOTICE

Synthetic oil may be used after the first oil change. Using synthetic oil does not decrease the recommended oil change interval. Full synthetic 5W-30 oil will aid in starting in cold ambient < 41° F (5° C) temperatures.

Add Fuel

Use clean, fresh, regular unleaded gasoline with a minimum octane rating of 87 and an ethanol content of 10% or less by volume.   

DO NOT mix oil with gasoline.

1. Remove the fuel tank cap.
2. Add fuel to the bottom of the fuel level limit in the neck of the fuel tank. Do not overfill. Wipe up spilled fuel before starting the snowblower. (Fig. 13).

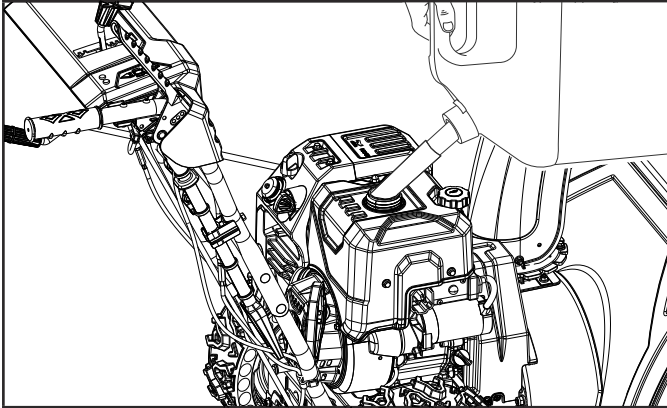


Figure 13

CAUTION

Use unleaded gasoline with a minimum octane rating of 87 and an ethanol content of 10% or less by volume.

DO NOT light cigarettes or smoke when filling the tank.

DO NOT mix oil and gasoline.

DO NOT overfill the tank. Fill tank to approximately ¼ in. (6.4 mm) below the top of the tank to allow for gasoline expansion.

DO NOT pump gasoline directly into the snowblower at the pump. Use an approved fuel container to transfer the gasoline to the snowblower.

DO NOT fill tank indoors.

DO NOT fill tank when the engine is running or hot.

WARNING

Pouring gasoline too fast through the fuel screen may result in gasoline splashing over the snowblower and operator while filling.

NOTICE

The snowblower engine works well with 10% or less ethanol blend gasoline. When using ethanol-gasoline blends there are some issues worth noting:

- Ethanol-gasoline blends can absorb more water than gasoline alone.
- These blends can eventually separate, leaving water or a watery goo in the tank, fuel valve and carburetor. The compromised gasoline can be drawn into the carburetor and cause damage to the engine and/or potential hazards.
- If a fuel stabilizer is used, confirm that it is formulated to work with ethanol-gasoline blends.
- Any damages or hazards caused by using improper gasoline, improperly stored gasoline, and/or improperly formulated stabilizers, are not covered by manufacturer's warranty.

It is advisable to always shut off the gasoline supply and run the engine to starvation after each use. See Storage instructions for extended non-use.

OPERATION

WARNING

Never use the snowblower without first reading and understanding the operating instructions, warnings and instruction labels located on the machine.

Before Operation

- Check the general condition.
- Look around and underneath the engine for signs of oil or gasoline leaks.
- Remove any excessive dirt or debris, especially around the muffler and recoil starter.
- Look for signs of damage.
- Check that all shields and covers are in place, and all nuts, bolts, and screws are tightened.

Check the Engine

1. There is no fuel or oil in the engine. Fill with fuel and add 5W-30 oil prior to first use.
2. Check the fuel level (see *Add Fuel* under *Assembly* section).
3. Check the oil level (see *Add Engine Oil* under *Assembly* section).

⚠ WARNING

Always check the engine oil level before operation. Using the snowblower without oil can seriously damage the engine and void your warranty. The machine must stand on level ground when checking.

Engine key needs to be inserted before first use. These parts may be attached to the recoil starter grip. Please remove the key from the recoil starter grip and insert properly.

⚠ WARNING

Always wear eye protection with side shields marked to comply with ANSI Z87.1. Failure to do so could result in objects being thrown into your eyes and other possible serious injuries.

Operating Suggestions

Preparing For Snow Removal

IMPORTANT! Before the first snowfall, the area in which snow removal is to take place should be cleared of all door mats, stones, sticks, etc., which might be picked up by the auger and damage the snow thrower. Any obstacles should be marked to prevent the auger from being driven into them.

To become familiar with the controls and machine, operate the snow thrower in a clear area before removing snow. The more familiar you become with the snow thrower the better results you will have in its use.

A light coat of wax may be applied to the inside surface of the auger housing, discharge chute and deflector to prevent snow and ice from sticking. Be certain all controls are disengaged, and engine is not running.

Allow 2 to 4 minutes of engine warm-up time before starting snow removal.

The best results are obtained when snow is removed as soon as possible after it falls, and before it is packed down by driving or walking on snow.

Snow Conditions

Snow removal conditions vary so greatly from the first fluffy snowfall to the heavy wet snow that operating instructions must be flexible to fit the type of snow removal encountered. The operator must adapt the operation of the snow thrower to depth of snow, wind direction, temperature, and snow conditions.

Operating Tips

🗨 NOTICE

The engine can be seriously damaged without oil. Always check the oil level before using. The machine must stand on level ground when checking.

Engine key may be attached to the recoil starter grip. Please remove the key from the recoil starter grip and attach/install properly.

⚠ WARNING

Never start the engine until all the above measures under assembly have been carried out.

Never use the snowblower without first reading and understanding the instructions and all the warning and instruction stickers on the machine.

Always use protective goggles or a visor during use, maintenance and service.

1. Pay attention to your body to avoid over exertion and to avoid frost bite. Take breaks indoors to rest & warm up.
2. Whenever possible discharge snow downwind.
3. Do not attempt to remove ice or hard packed frozen snow.
4. Always overlap each pass slightly to assure complete snow removal.
5. Remove snow one auger width beyond the pavement, to provide area for wind-blown drifts to form to keep your pavement drift-free.
6. Remove snow one auger width beyond street edge by 20-33 feet (6-10 meters) to the snowplow approach side of your driveway entrance. This will give an area for the snowplow exit flow to spill off, which will keep the entrance to your driveway free of a snowplow ridge.
7. Remove snow from around your mailbox to prevent the snow exiting the snowplow from pushing your mailbox over.
8. Be considerate. Watch your throwing distance and direction to avoid blowing snow on your neighbor's house or driveway, and the street.

Operating Speed

When throwing snow, it is important that the auger and impeller are kept at a maximum speed for the best results. This is accomplished by having the throttle control set at fast (Rabbit position). Ground speed is controlled by selecting 1, 2, 3, 4, 5 or 6 with the self-drive speed control lever.

Operate in position 1 or 2 (low speed) for heavy snow removal.

Operate in position 3 or 4 (medium speed) for moderate snow removal.

Operate in position 5 or 6 (high speed) for light snow removal and transport.

A definite pattern of operation is required to thoroughly clean the snow area. This pattern will avoid a second removal of snow and will avoid throwing snow in unwanted places. Where it is possible to throw snow to the right and left, as on a long driveway, it is advantageous to start in the middle. Plow from one end to the opposite end throwing snow to both sides without changing direction of the discharge chute (Fig.14).

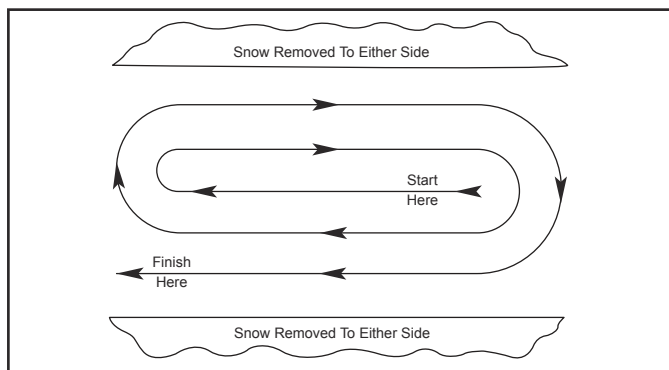


Figure 14

If snow can only be thrown to one side of the driveway or sidewalk, start at one end on the far side. At the end of the first pass, rotate the discharge chute 180° for the return pass. At the end of each succeeding pass, rotate the discharge chute 180° to maintain direction of throw in the same area (Fig. 15).

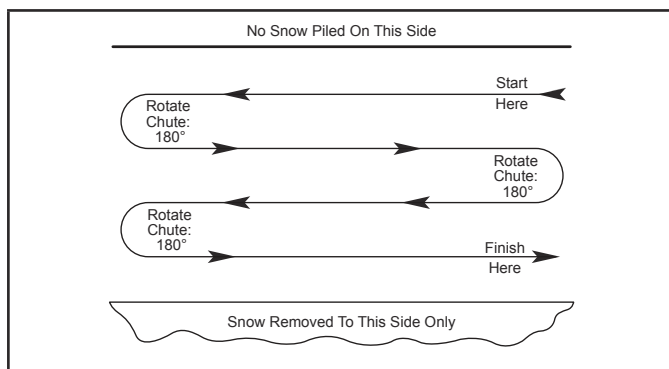


Figure 15

Starting the Engine

CAUTION

To prevent damaging the electric starter, do not run it more than 10 times at intervals of 5 seconds on, then 5 seconds off. If the engine does not start after this series of attempts, allow the starter to cool for at least 40 minutes before trying to start it again. If the engine still does not start, contact customer service center for assistance 1-877-338-0999. Once started, disconnect the plug from the power supply and the starter.

1. Make sure the engine key (safety lock out) is inserted into the key hole.
2. To start a warm engine: (Fig. 16).
 - 2a. Move the fuel valve lever to the ON position.
 - 2b. Move the choke lever to the RUN position.
 - 2c. Move the throttle lever to full speed.
 - 2d. Do not prime.

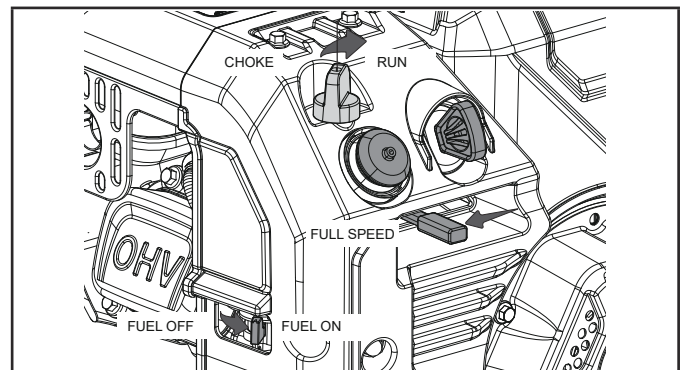


Figure 16

3. To start a cold engine: (Fig. 17).
 - 3a. Move the fuel valve lever to the ON position.
 - 3b. Move the choke lever to the CHOKE position.
 - 3c. Move the throttle lever to full speed.
 - 3d. Prime 3-5 times.

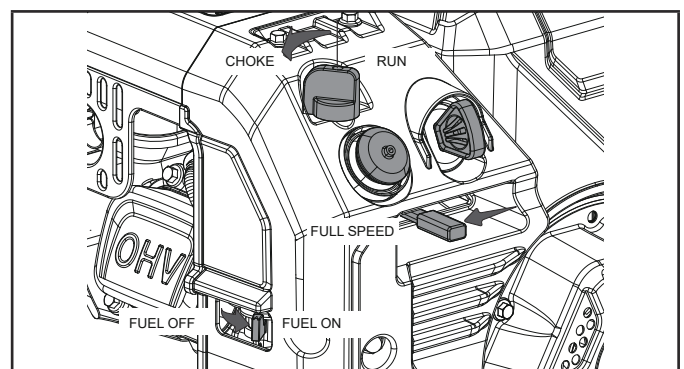


Figure 17

- Stand back and to the right of the unit, pull the starter grip lightly until you feel resistance then pull briskly. Return the starter grip gently (Fig. 18).

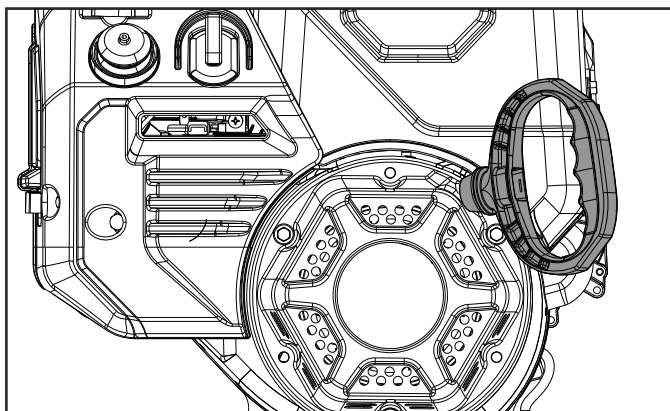


Figure 18

- Alternatively, for electric start, plug in the supplied electrical cord into the starter. Press the electric start button and make sure that the mains supply voltage is 120 V~ 60 Hz (Fig. 19).

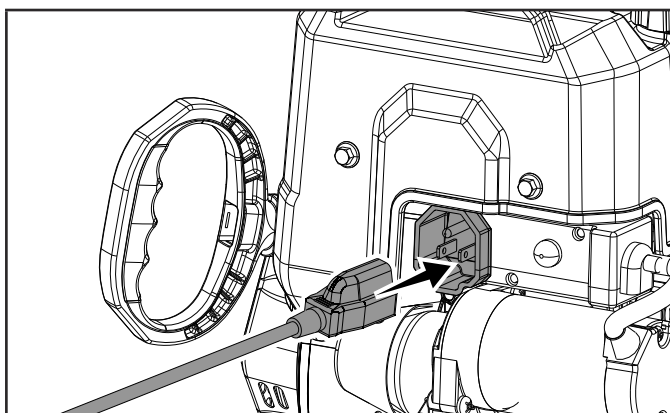


Figure 19

- To start a cold engine: When the engine starts, move the choke to RUN position.

Stopping the Engine

To stop the engine, turn the fuel valve off and let the carburetor run out of fuel until the engine stops. This is the best way to stop the engine before putting the snowblower away to prevent fuel from sitting in the carburetor. Fuel left in the carburetor will go bad and create gum that will clog the carburetor jets.

To stop the engine in an emergency situation or during normal operation, simply remove the engine key.

Operation at High Altitude

The density of air at high altitudes is lower than at sea level. Engine power is reduced as the air mass and air-fuel ratio decrease. Engine power and snowblower output will be reduced approximately 3½% for every 1000 ft. of elevation above sea level. At high altitudes increased exhaust emissions can also result due to the increased enrichment of the air fuel ratio. Other high altitude issues can include hard starting, increased fuel consumption and spark plug fouling.

To alleviate high altitude issues other than the natural power loss, CPE can provide a high altitude carburetor main jet. The alternative main jet and installation instructions can be obtained by contacting our Technical Support Team. Installation instructions are also available in the Technical Bulletin area of the CPE website.

The part number and recommended altitude range for the application of the high altitude carburetor main jet is listed in the following table.

In order to select the correct high altitude main jet it is necessary to identify the carburetor model. For this purpose, a code is stamped on the side of the carburetor. Select the correct high altitude jet part number corresponding to the carburetor code found on your particular carburetor.

Carb. Code	High Alt. Jet Part Number	Altitude Range
16100-000108	16161-000125	0' - 3,000' (0 - 914 m)
	16161-000029	3,000' - 6,000' (914 - 1,828 m)
	16161-000026	6,000' - 8,000' (1,828 - 2,438 m)

⚠ WARNING

Operation using the alternative main jet at elevations lower than the recommended minimum altitude can damage the engine. For operation at lower elevations, the originally supplied standard main jet must be used. Operating the engine with the wrong engine configuration at a given altitude may increase its emissions and decrease fuel efficiency and performance.

Control Levers

Drive Control Lever	
	Located on the right-side handle
	When the snowblower has been put into gear, pushing this lever towards the handle engages the wheels. Releasing the drive control lever causes the snowblower to stop moving.

Auger Control Lever	
	Located on the left-side handle
	Pushing this lever towards the handle causes the auger and impeller to activate. Releasing the auger control lever causes the auger to stop moving.

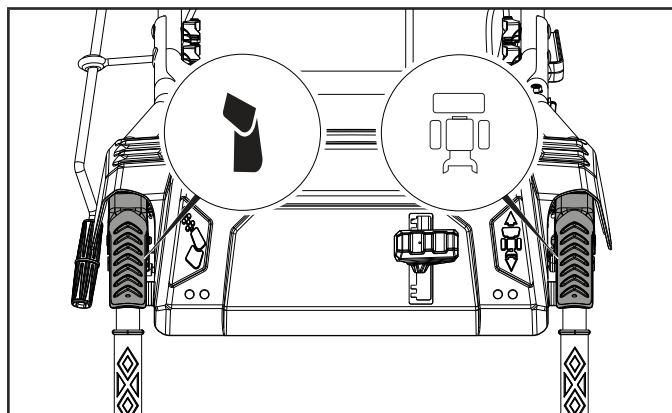


Figure 20

Speed Control Lever

Your snowblower has 6 forward speeds and 2 reverse to regulate forward and backward motion (Fig. 21).

	Forward speeds range from slowest position 1 to fastest position 6.
---	---

	Reverse speeds range from slowest position R1 to fastest position R2.
---	---

Adjusting the drive system:

1. Release the drive control handle to bring the snowblower to a stop.
2. Move the speed control lever to the speed (either forward or reverse) that you require.
3. Press the drive control handle to engage the drive system.

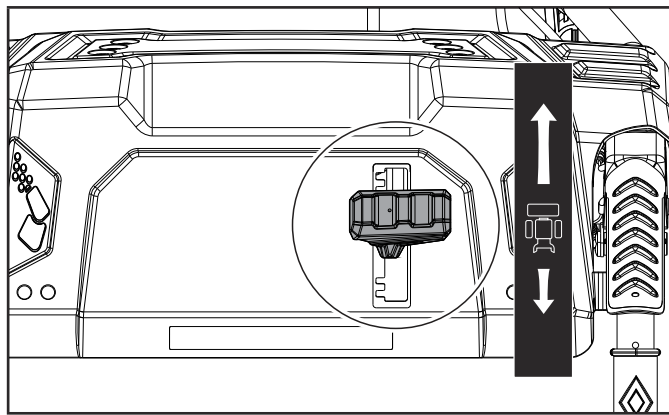


Figure 21

Clutch Lock

This snowblower offers a clutch lock feature that will enable the operator to keep the snowblower moving forward while you adjust the chute.

While both the drive and auger control levers are fully depressed, release the auger control lever while keeping the drive control lever fully depressed.

The clutch lock feature will automatically keep the auger control lever engaged as long as the drive control lever is depressed.

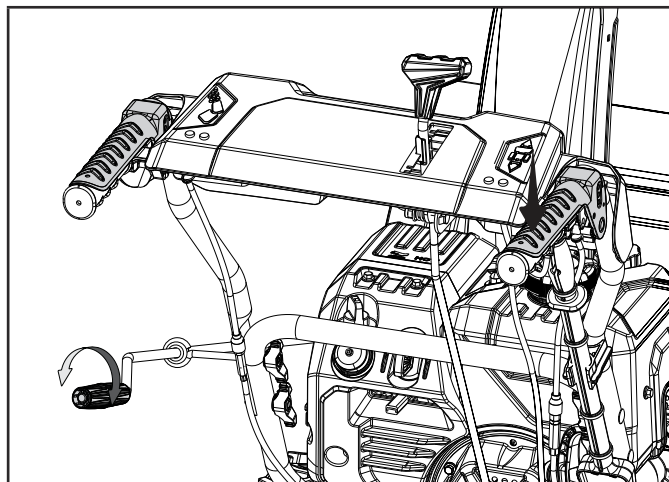


Figure 22

Adjusting the Snow Discharge Direction and Height

A: Change discharge direction: Discharge chute rotation handle controls the chute either left or right.

B: Change discharge height: Loosen the locking knob located on the side of the chute discharge deflector. Move the discharge deflector up or down by hand to the desired discharge angle. Then tighten the locking knob.

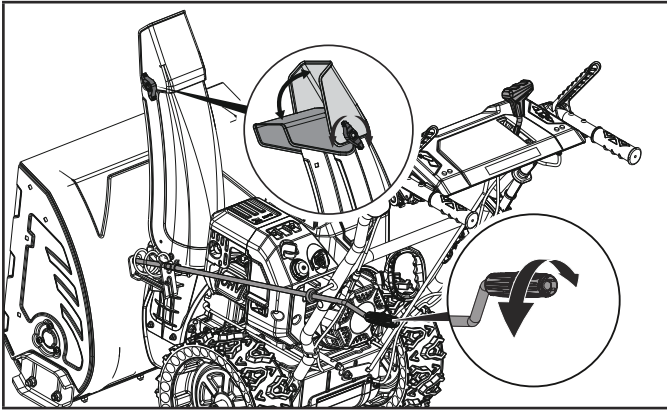


Figure 23

Clearing a Clogged Discharge Chute

⚠ DANGER

DO NOT use your hands to clean out the discharge chute.

To clear the chute:

1. SHUT THE ENGINE OFF!
2. Wait 10 seconds to be sure the auger blades have stopped rotating.
3. Always use the provided clean-out tool to clear out the discharge chute.

Adjusting the Skid Shoes

Set the height of the auger housing above the ground using the shoes.

Adjust the shoes to suit the ground conditions:

- On flat ground, e.g. asphalt, the shoes should be adjusted to about 1/8 in. (5 mm) (the distance from the auger to the ground) (Fig. 24).
- On uneven ground, e.g. gravel paths, the shoes should be adjusted to about 1 1/8 in. (30 mm) (the distance from the auger to the ground) (Fig. 24).

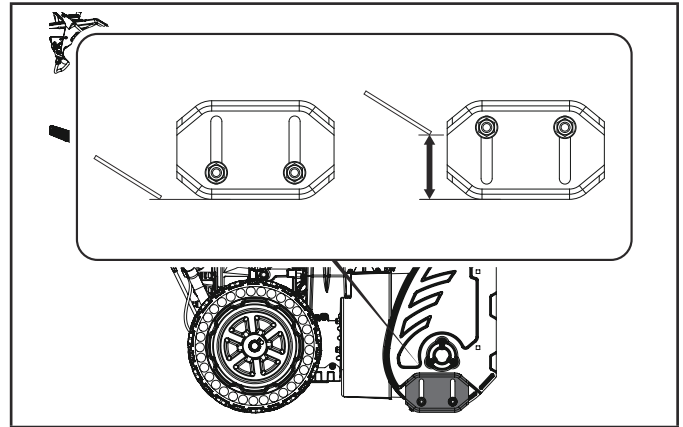


Figure 24

To adjust the shoes

1. Loosen the nuts.
2. Move the shoes upward or downward to adjust height.
3. Tighten the nuts.

⚠ WARNING

Always adjust the shoes so that gravel and stones are not fed into the snowblower. There is a risk for personal injury if these are thrown out at high speed.

Ensure the shoes are adjusted the same on both sides.

⚠ WARNING

Do not at any time make any adjustment to machine without first stopping the engine and disconnecting the spark plug wire.

⚠ WARNING

Before changing height, stop engine and disconnect spark plug cable.

After Use

1. Check for loose or damaged parts. If required, change damaged parts.
2. Tighten loose screws and nuts.
3. Brush all the snow from the machine.
4. Move all the controls backwards and forwards a few times.

MAINTENANCE

⚠ WARNING

Always disconnect the spark plug wire during times of inactivity, cleaning and maintenance. This will prevent any accidental start up that may cause damage or injury.

⚠ WARNING

Never operate a damaged or defective snowblower

⚠ WARNING

Improper maintenance will void your warranty.

🗨 NOTICE

For Emission control devices and systems, read and understand your responsibilities for service as stated in the Emission Control Warranty Statement of this manual.

Engine Maintenance

Safety Precautions

Make sure the engine is off before you begin any maintenance or repair. This will eliminate several potential hazards:

- Carbon monoxide poisoning from engine exhaust — never run the machine indoors. The exhaust fumes contain carbon monoxide, a very toxic gas.
- Burns from hot parts — let the engine cool for 30 minutes before touching hot parts.
- Injury from moving parts — read the instructions before you begin, and make sure you have the tools and skills required.

To reduce the possibility of fire or explosion, be careful when working around gasoline. Use only a nonflammable solvent, not gasoline, to clean parts. Keep cigarettes, sparks and flames away from all fuel-related parts.

⚠ WARNING

Do not cover the machine while the engine and muffler are still hot.

Regular Service Periods

Perform at every indicated month or operating hour interval, whichever comes first.

EACH USE

- ☐ Check oil level

EVERY MONTH OR 20 HOURS

- ☐ Change oil

EVERY 6 MONTHS OR 100 HOURS

- ☐ Change oil
- ☐ Check/clean spark plug
- ☐ Clean spark arrester

EVERY YEAR OR 150 HOURS

- ☐ Replace spark plug
- ☐ Check/adjust idle speed*
- ☐ Check/adjust valve clearance*
- ☐ Clean fuel tank and strainer*

EVERY 2 YEARS (REPLACE IF NECESSARY)

- ☐ Check fuel line

**These items should be serviced by your servicing dealer unless you have the proper tools and are mechanically proficient. Refer to manual for service procedures.*

Oil Change

Drain the engine oil when the engine is warm. Warm oil drains quickly and completely.

1. Turn the fuel valve lever to the OFF position to reduce the possibility of fuel spillage.
2. Place a suitable container below the snowblower to catch the used oil.
3. Remove the drain bolt and drain the oil into the container by slightly tipping the engine to facilitate draining (Fig. 25).

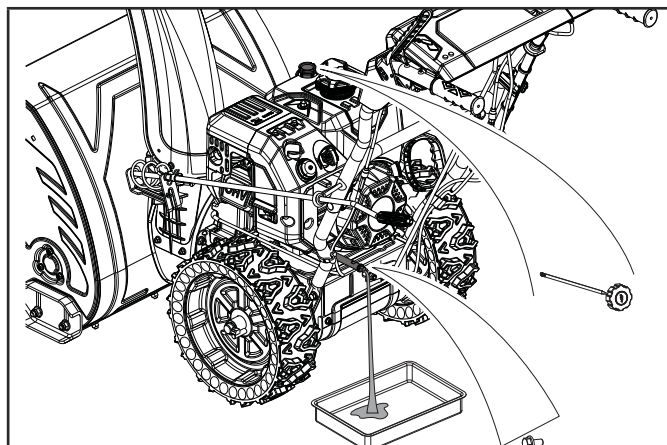


Figure 25

4. With the engine in a level position, fill to the upper limit mark on the dipstick with the recommended oil (5W-30) (Fig. 26).
5. Reinstall the oil cap/dipstick securely. See specifications for exact oil type and amount.

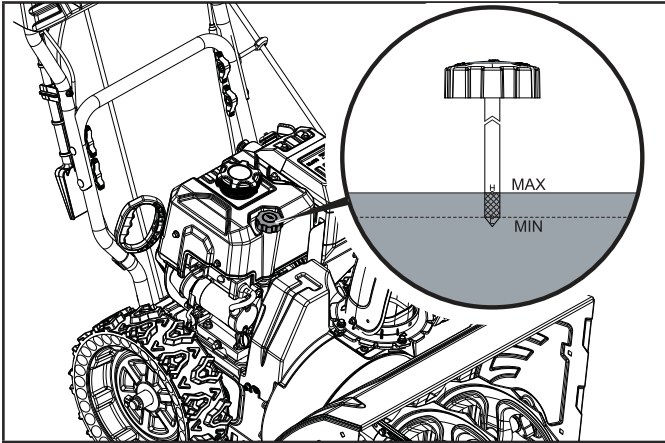


Figure 26

⚠ WARNING

- Running the engine with a low oil level can cause engine damage.
- With engine off but still warm, disconnect the spark plug wire and keep it away from the spark plug.

⚠ WARNING

Used oil is a hazardous waste product and must be disposed of properly. Do not discard with household waste. Check with your local regulations, service center, or dealer for safe disposal/recycling facilities.

Cleaning and Adjusting the Spark Plug(s)

1. Remove the spark plug cable from the spark plug.
2. Use a spark plug socket (not included) to remove the plug.
3. Inspect the electrode on the plug. It must be clean and not worn to produce the spark required for ignition.
4. Make certain the spark plug gap is 0.7 - 0.8 mm (0.028 - 0.031 in.).

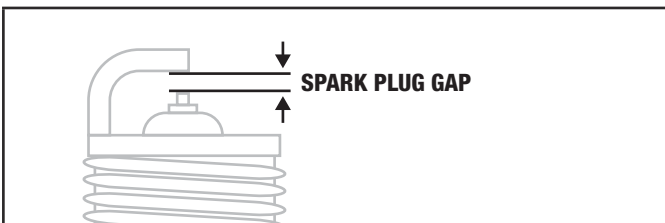


Figure 27

5. Refer to the spark plug section on the *Specifications* page when replacing the plug.
6. Carefully thread the plug into the engine.
7. Use a spark plug socket (not included) to firmly install the plug.
8. Attach the spark plug wire to the plug.

Replacing Shear Pins

The auger housing is shown as Fig. 28A. The augers are secured to the auger drive with shear pins (A) and clips (B). If the auger should strike a foreign object or ice jam, the snowblower is designed so that the lock pins may shear.

If the augers will not turn, check to see if the lock pins have sheared. Replacement shear pin(s) and clip(s) are found on the chute gear bracket (Fig. 28B).

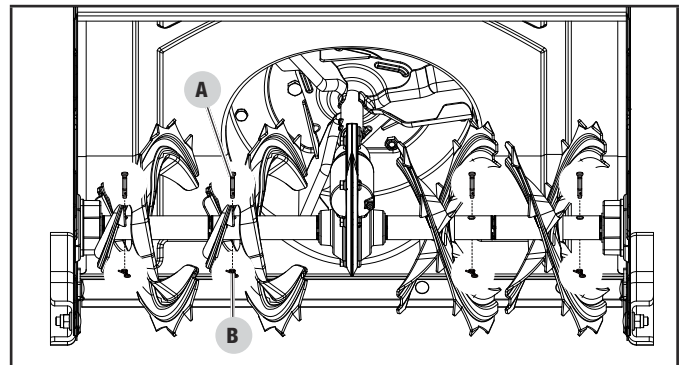


Figure 28A

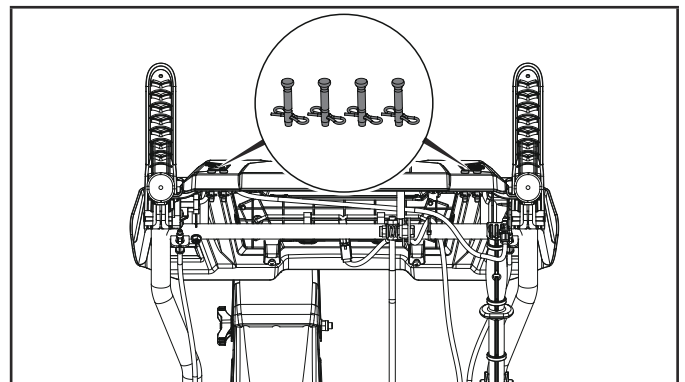


Figure 28B

⚠ WARNING

No service must be carried out before:

- The engine has stopped.
- The spark plug cable has been disconnected from the spark plug.

Adjusting Drive Control Handle Cable

Check the slack of the tension and adjust accordingly. Make sure that the tension on the drive cable is adjusted so it has between $\frac{1}{4}$ – $\frac{3}{8}$ in. (6.4–9.5 mm) of movement. This movement can be acquired by measuring the distance the engagement lever moves from its starting position and the point it becomes taut and starts to move the transmission adjustment lever. If the slack is greater than $\frac{5}{8}$ in. (16 mm), please adjust. Proper tension is important because you will want your snowblower to move forward properly in heavy snowfalls (Fig. 29).

While operating the snowblower, if the wheels stop turning—especially in heavy snow—the drive control lever may be too loose. Lengthen the drive cable sheath by sliding back the rubber boot, loosening the thin lock nut, and turning the top bolt counterclockwise. Tighten the lock nut and slide the rubber boot back into place (Fig. 30).

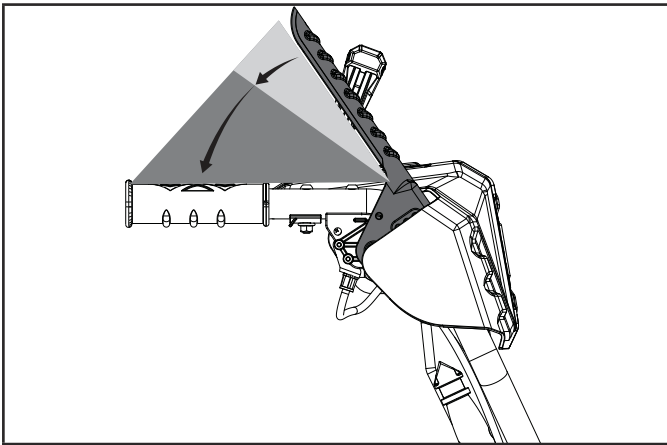


Figure 29

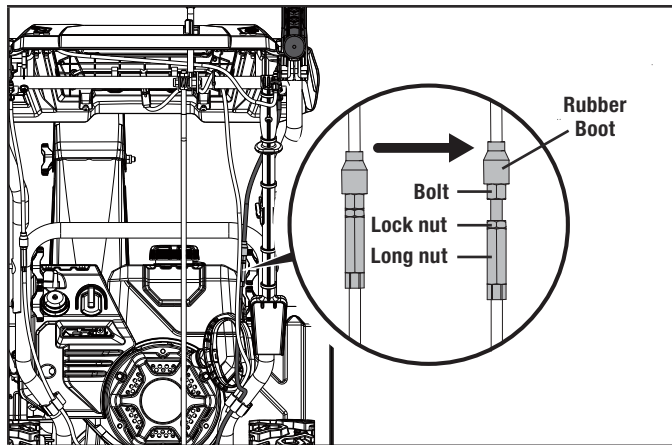


Figure 30

Adjusting Auger Control Cable

Check the slack of the tension and adjust accordingly. Make sure that the tension on the auger control cable is adjusted so it has between $\frac{1}{4}$ – $\frac{3}{8}$ in. (6.4–9.5 mm) of movement. This movement can be acquired by measuring the distance the engagement lever moves from its starting position and the point it becomes taut and starts to engage the auger. If the slack is greater than $\frac{5}{8}$ in. (16 mm), please adjust. Proper tension is important because you will want your snowblower to maximize belt life in heavy snowfalls.

While operating the snowblower, if the auger stops turning - especially in heavy snow - the auger control lever may be too loose. Lengthen the auger cable sheath by sliding back the rubber boot, loosening the thin lock nut, and turning the top bolt counterclockwise. Tighten the lock nut and slide the rubber boot back into place (Fig. 31).

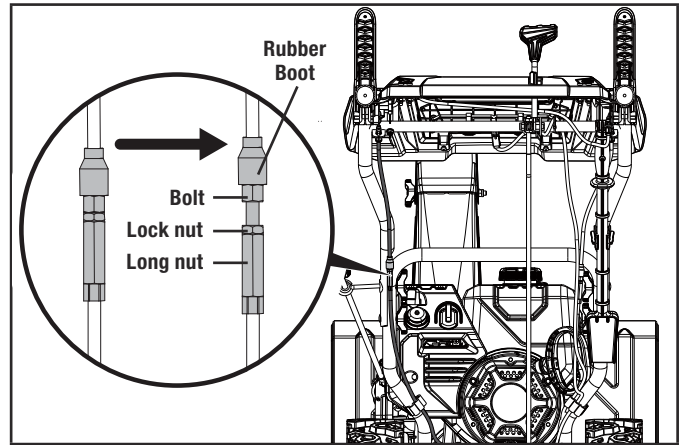


Figure 31

Replace Auger Belt

Tools required:

- Size 10 wrench/socket (not included)
 - Size 13 wrench/socket (not included)
1. Locate the auger control cable, connected to the auger control lever on the left side (from behind the snowblower).
 - 1a. Slide back the rubber boot.
 - 1b. Remove the cable from the bracket by squeezing the strain relief on the cable.
 - 1c. Slide the cable out from the bracket.
 - 1d. Remove the connector from the auger control lever.

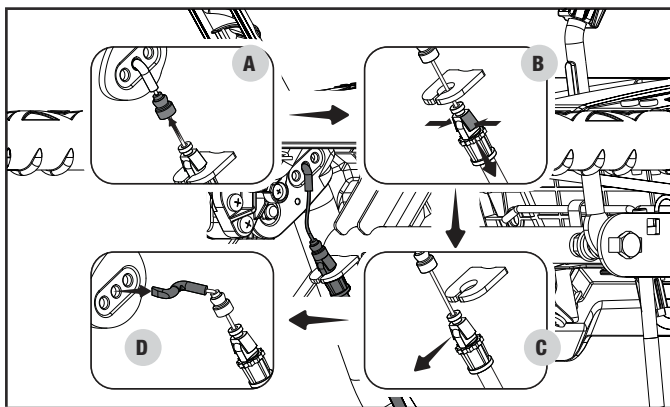


Figure 32

2. Turn chute crank to location with clearance in the gear to allow easier belt cover removal. Remove the chute crank from the shaft of the spiral worm gear at the chute gear by removing the B-clip.

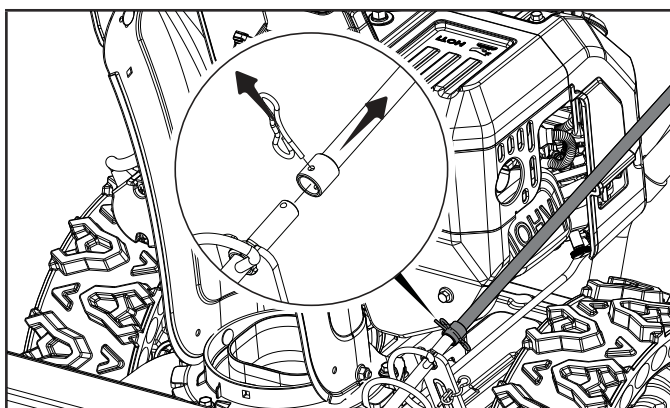


Figure 33

3. Remove the belt cover using a 10 mm socket to remove 3 bolts.

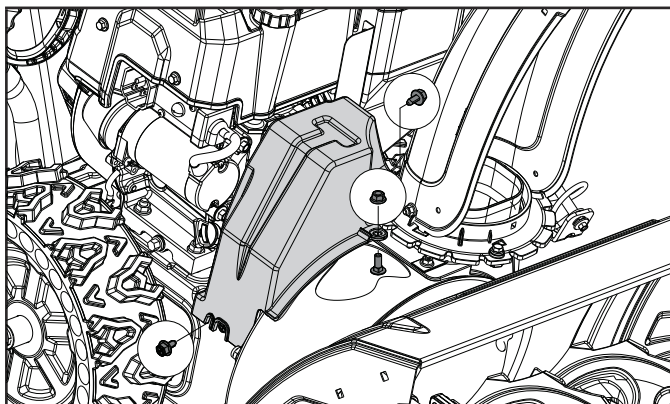


Figure 34

4. Disassemble belt guide. Use 10 mm socket to remove belt guide. Slide belt off from engine pulley.

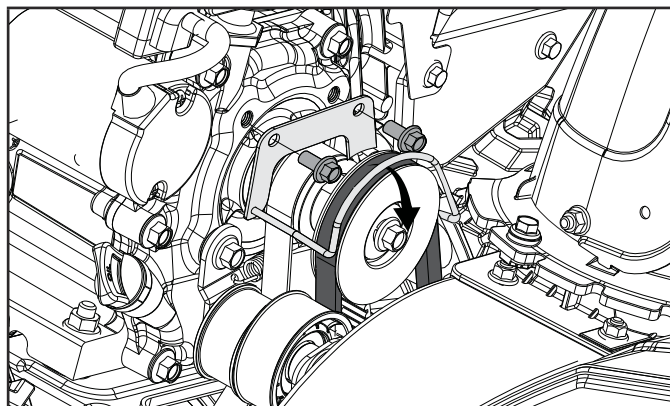


Figure 35

5. Remove auger housing from engine base. Use 13 mm socket to remove 4 hex flange nuts.

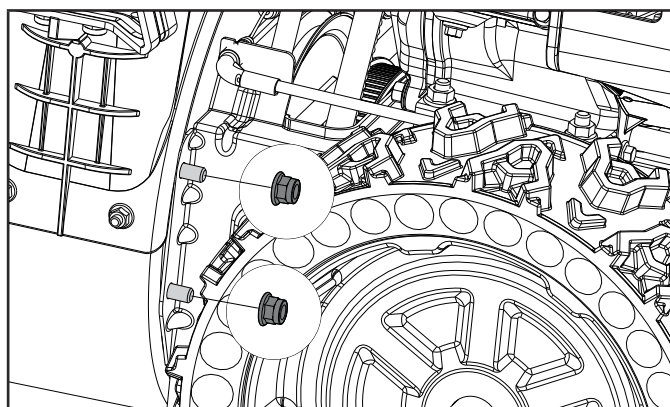


Figure 36

6. Locate the auger cable connected to the metal bracket. Remove the auger cable from the bracket by squeezing and sliding the cable from the bracket.

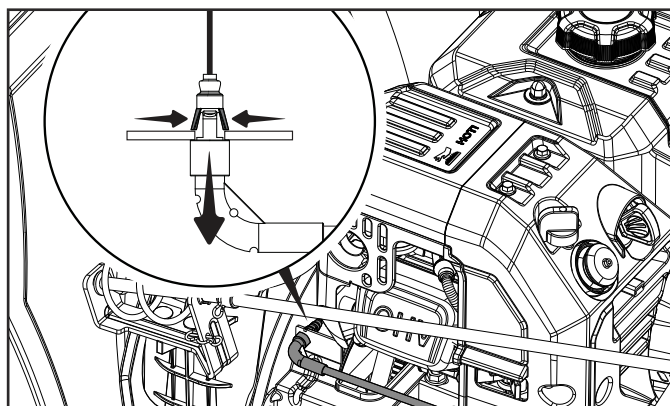


Figure 37

7. Use 10 mm socket to remove guide bolt. Press the side pulley and move the brake away from the belt.

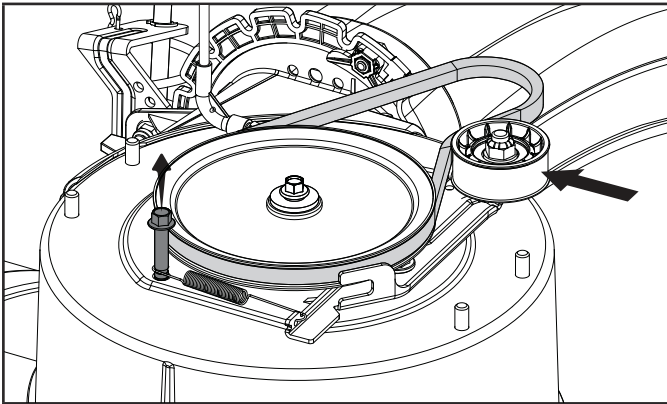


Figure 38

8. Remove the old belt off auger pulley.

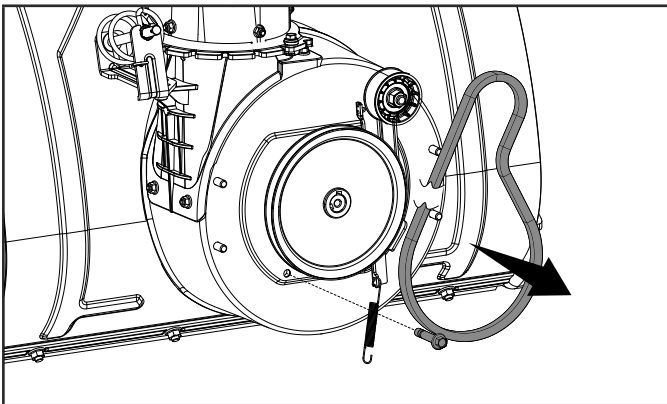


Figure 39

9. Slide on new belt. Reassemble in reverse order.

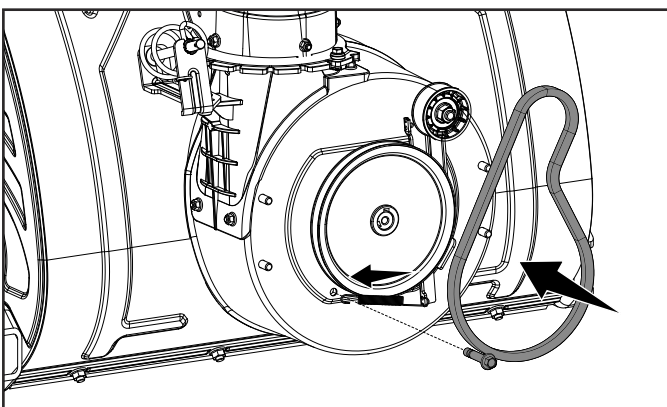


Figure 40

Repair or Replace Friction Disc

NOTICE

If the snowblower fails to drive with the drive control engaged, and after performing the drive control cable adjustment fails to correct the problem, the friction disc may need to be replaced.

NOTICE

To prevent spillage, remove all fuel from tank by running the engine until it stops. Do not attempt to pour out fuel from the engine. Disconnect the spark plug before performing any service.

Tools required:

- Size 15 wrench/socket (not included)
- Size 19 wrench (not included)

To remove and replace your snowblower's friction disc, proceed as follows:

1. Carefully pivot the snowblower up and forward so that it rests on the auger housing. Place a piece of cardboard or moving blanket on the ground before tipping forward. Make sure all fluids are removed and spark plug is disconnected.
2. To make the access to servicing or replacing the friction disc, remove the wheels from both sides. For each wheel, locate the pin (A) holding the wheel on. Take note of the orientation of the pin, with short side of beveled end toward the end of shaft, to facilitate the lift ring to swing closed. Lift the ring (B) around the axle (C) and then pull the pin (A) out holding the wheel on (Fig. 41). Repeat on the other side. Remove the wheels.

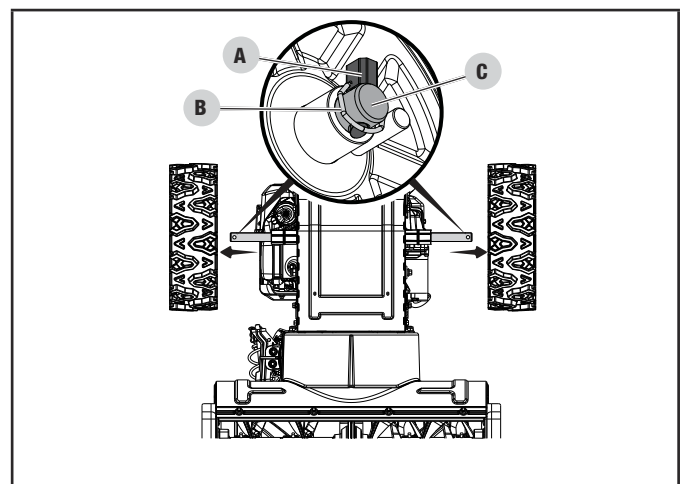


Figure 41

3. Remove the base frame cover from the underside of the snowblower by removing the four M6 x 16 screws which secure it (Fig. 42).

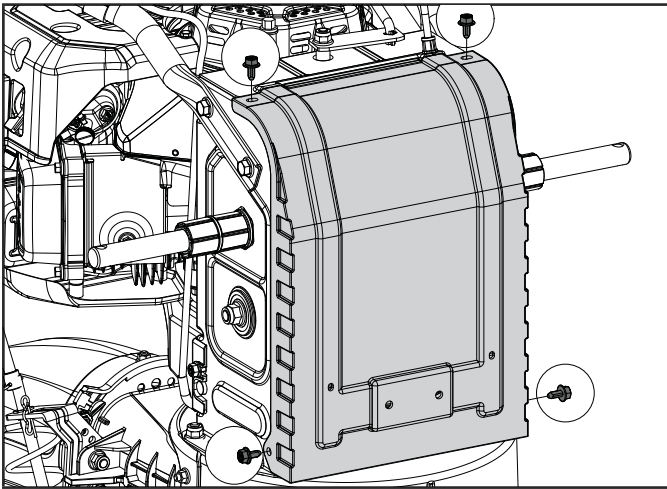


Figure 42

4. Carefully remove the M10 hex nut which secures the hex shaft to the snowblower frame (Fig. 43).

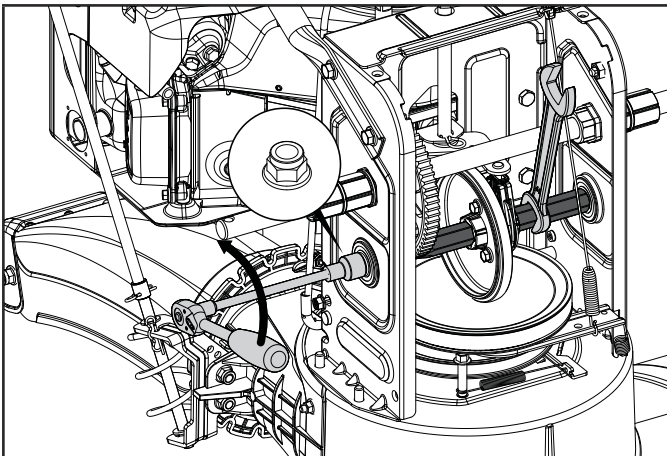


Figure 43

5. Tap the shaft end to dislodge the ball bearing from the right side of the frame. Slide out the hex shaft. Make sure all pieces shown are accounted for (Fig. 44).

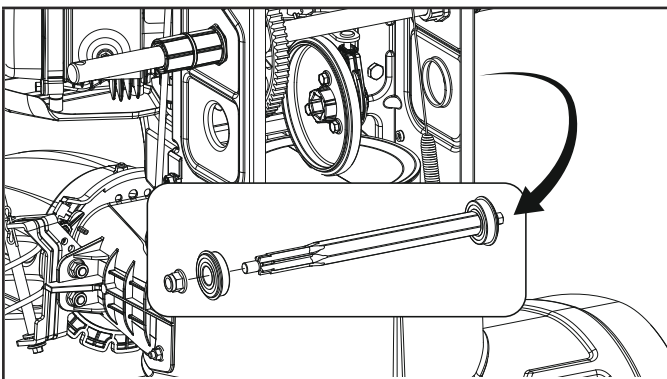


Figure 44

6. Remove the friction disc (Fig. 45).

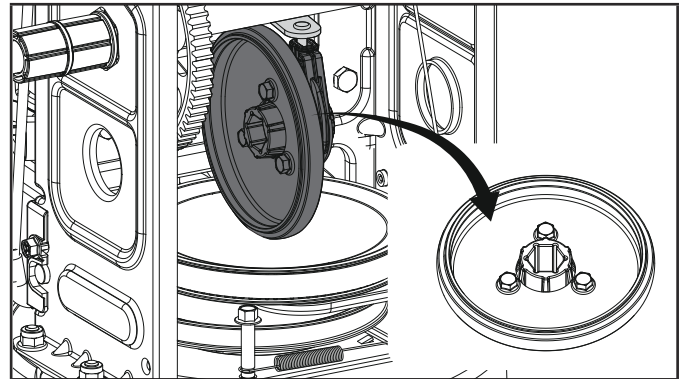


Figure 45

7. Unscrew the three M6 x 16 bolts of the friction disc assembly to discard the worn friction wheel rubber ring and replace with a new one (Fig. 46).

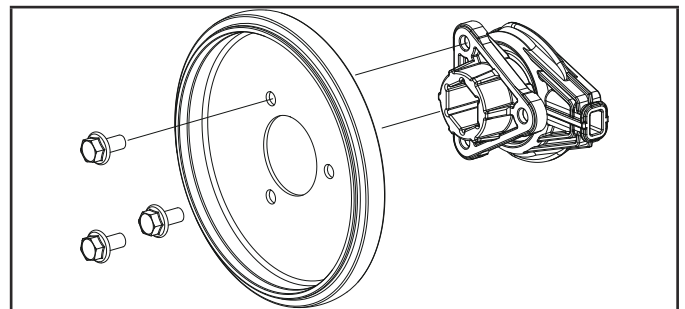


Figure 46

8. Clean the aluminum friction disc by wiping down with a clean cloth and follow the previous steps in reverse order to reassemble hexagon shaft parts. Make sure the parts are aligned as shown when finally assembled (Fig. 47).

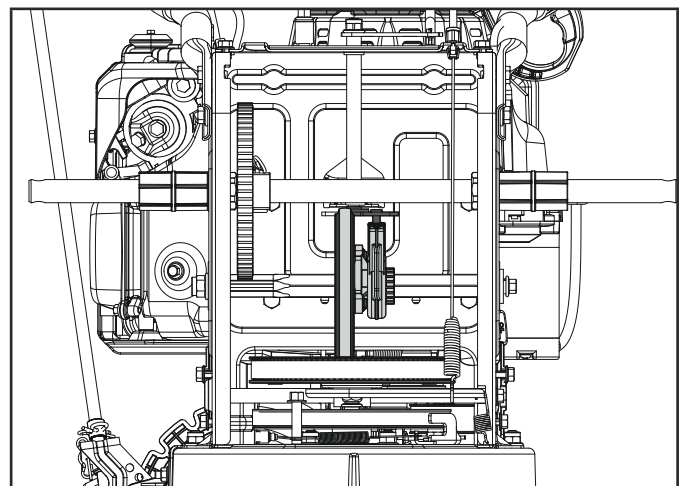


Figure 47

9. Follow the remaining steps in reverse to fully reassemble the snowblower.
10. Perform an drive test to confirm everything is in working order.

Lubrication

Lubricate the linkage every 10 hours of use and before long-term storage. Use 5W-30 oil.

No parts inside the gearbox are to be lubricated. All bearings and bushings are permanently lubricated and require no maintenance. Lubricating these parts will only result in the grease getting on to the friction wheel and disc drive plate, which could damage the rubber clad friction wheel.

STORAGE

Never store the machine with gasoline in the fuel tank in a confined area with bad ventilation. Gasoline fumes could reach open flames, sparks and cigarettes etc.

To avoid the engine freezing and problems starting the engine, leave the engine running outdoors for 5-10 minutes after your work has been completed, then shut the engine off. This will ensure all moisture will disappear that would otherwise cause starting problems. After engine shut down, allow the engine to cool before storing in any enclosure.

If the machine is to be stored for a longer period than 30 days, the following procedures are recommended.

1. Start the engine and let it run until it stops due to lack of fuel.
2. Change the engine oil if it has not been done for 3 months.
3. Remove the spark plug and add about 1oz.(30ml) of engine oil in the spark plug hole. Pull recoil handle manually and crank the engine a couple of times to disperse the oil within the cylinder. Replace spark plug.
4. Clean the whole machine thoroughly.
5. Lubricate all the parts as shown in LUBRICATION section above.
6. Inspect the machine for damage, and repair if necessary.
7. Touch up any paint damage.
8. Apply rust protection to the metal surfaces.
9. Store the machine in a garage or shed when possible.

Transporting

If the engine has been running, allow it to cool for at least 15 minutes before loading the machine on the transport vehicle. A hot engine and exhaust system can burn you and can ignite some materials.

Move the fuel valve lever to the OFF position and keep the engine level when transporting to reduce the possibility of fuel leakage.

SPECIFICATIONS

Snowblower Specifications

Model	201327
Speed Control (forward/reverse)	6 / 2
Auger Diameter	10 in. (25.5 cm)
Clearing Width	24 in. (60.5 cm)
Wheel Diameter	13 in. (33 cm)
Net Weight	135.6 lb. (61.5 kg)
Length	49.2 in. (125 cm)
Width	26 in. (66 cm)
Height	42.9 in. (109 cm)

Engine Specifications

Model	R210S-S
Displacement	209 cc
Type	4-Stroke OHV

Spark Plug

OEM Type	F6RTC
Replacement Type	NGK BPR6ES or equivalent
Gap	0.028-0.031 in. (0.7-0.8 mm)

Valve

Intake Clearance	0.002-0.004 in. (0.05-0.1 mm)
Exhaust Clearance	0.002-0.004 in. (0.05-0.1 mm)

NOTICE

A technical bulletin regarding valve adjustment procedures is available at www.championpowerequipment.com.

Oil Specifications

DO NOT OVERFILL.

Type	5W-30
Capacity	0.5 US qt. (500 mL)

Recommended Engine Oil Type								
°F	-22	-5	23	41	59	77	104	122
°C	-30	-15	-5	5	15	25	40	50
Ambient temperature								

NOTICE

Temperature will affect engine oil and engine performance. Change the type of engine oil used based on temperature shown in the "Recommended Engine Oil Type" table.

Fuel Specifications

Use regular unleaded gasoline with a minimum octane rating of 87 and an ethanol content of less than 10% by volume. DO NOT USE E15 or E85. DO NOT OVERFILL.

Gasoline Capacity	0.6 gal. (2.3 L)
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TROUBLESHOOTING

Problem	Cause	Solution
Engine fails to start.	Engine flooded.	Repeat start attempts with the choke OFF.
	Water in fuel.	Drain tank and refill with fresh fuel.
	Other.	Check carefully the start procedure according to this manual.
Engine starts hard or runs poorly.	Spark plug issues.	Replace the spark plug.
	Fuel cap ventilation is blocked.	Clear the ventilation.
Auger does not rotate.	Foreign material caught in system.	Clean.
	Auger belt slipping.	Adjust the belt and cable.
	Auger belt broken.	Replace the belt.
	Auger control cable is out of adjustment.	See ADJUSTING AUGER CONTROL CABLE section.
Auger does not stop when the lever is released.	Auger drive guide is out of adjustment.	Adjust the guide.
	Auger control cable is out of adjustment.	See ADJUSTING AUGER CONTROL CABLE section.
Snowblower veers to one side.	Wheel spring lock pin is inserted on one side.	Check the wheel locks.
	Shoes are mounted unevenly.	Adjust shoes.
	Shave plate uneven.	Adjust shave plate and shoes.
Snowblower does not drive.	Drive cable out of adjustment.	Adjust drive cable. See ADJUSTING DRIVE CONTROL HANDLE CABLE section.
	Drive belt worn/broken.	Replace drive belt.
	Friction disc worn out.	Repair or replace friction disc. See REPAIR OR REPLACE FRICTION DISC section.

For further technical support:

Technical Support Team
 Mon-Fri 8:30 AM-5:00 PM (PST/PDT)
 Toll Free 1-877-338-0999
support@championpowerequipment.com

WARRANTY*

CHAMPION POWER EQUIPMENT
3 YEAR LIMITED WARRANTY

Warranty Qualifications

To register your product for warranty and FREE lifetime call center technical support please visit:

<https://www.championpowerequipment.com/register>

To complete registration you will need to include a copy of the purchase receipt as proof of original purchase. Proof of purchase is required for warranty service. Please register within ten (10) days from date of purchase.

Repair/Replacement Warranty

CPE warrants to the original purchaser that the mechanical and electrical components will be free of defects in material and workmanship for a period of three years (parts and labor) from the original date of purchase and 270 days (parts and labor) for commercial and industrial use. Transportation charges on product submitted for repair or replacement under this warranty are the sole responsibility of the purchaser. This warranty only applies to the original purchaser and is not transferable.

Do Not Return The Unit To The Place Of Purchase

Contact CPE's Technical Service and CPE will troubleshoot any issue via phone or e-mail. If the problem is not corrected by this method, CPE will, at its option, authorize evaluation, repair or replacement of the defective part or component at a CPE Service Center. CPE will provide you with a case number for warranty service. Please keep it for future reference. Repairs or replacements without prior authorization, or at an unauthorized repair facility, will not be covered by this warranty.

Warranty Exclusions

This warranty does not cover the following repairs and equipment:

Normal Wear

Products with mechanical and electrical components need periodic parts and service to perform well. This warranty does not cover repair when normal use has exhausted the life of a part or the equipment as a whole.

Installation, Use and Maintenance

This warranty will not apply to parts and/or labor if the product is deemed to have been misused, neglected, involved in an accident, abused, loaded beyond the product's limits, modified, installed improperly or connected incorrectly to any electrical component. Normal maintenance is not covered by this warranty and is not required to be performed at a facility or by a person authorized by CPE.

Other Exclusions

This warranty excludes:

- Cosmetic defects such as paint, decals, etc.
- Wear items such as belts, cables, shear pins, etc.
- Failures due to acts of God and other force majeure events beyond the manufacturer's control.
- Problems caused by parts that are not original Champion Power Equipment parts.

Limits of Implied Warranty and Consequential Damage

Champion Power Equipment disclaims any obligation to cover any loss of time, use of this product, freight, or any incidental or consequential claim by anyone from using this product. THIS WARRANTY AND THE ATTACHED U.S. EPA and/or CARB EMISSION CONTROL SYSTEM WARRANTIES (WHEN APPLICABLE) ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

A unit provided as an exchange will be subject to the warranty of the original unit. The length of the warranty governing the exchanged unit will remain calculated by reference to the purchase date of the original unit.

This warranty gives you certain legal rights which may change from state to state or province to province. Your state or province may also have other rights you may be entitled to that are not listed within this warranty.

Contact Information

Address

Champion Power Equipment, Inc.
6370 S Pioneer Way, Unit 101
Las Vegas, NV 89113 USA
www.championpowerequipment.com

Customer Service

Toll Free: 1-877-338-0999
info@championpowerequipment.com
Fax no.: 1-562-236-9429

Technical Service

Toll Free: 1-877-338-0999
tech@championpowerequipment.com
📞 EMERGENCY 24 HOUR SUPPORT: 1-562-204-1188

*Except as otherwise stipulated in any of the following enclosed Emission Control System Warranties (when applicable) for the Emission Control System: U.S. Environment Protection Agency (EPA) and/or California Air Resources Board (CARB).

**CHAMPION POWER EQUIPMENT, INC. (CPE)
AND THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (U.S. EPA)
EMISSION CONTROL SYSTEM WARRANTY**

Your Champion Power Equipment (CPE) engine complies with U.S. EPA emissions regulations.

YOUR WARRANTY RIGHTS AND OBLIGATIONS:

The US EPA and CPE are pleased to explain the Federal Emission Control Systems Warranty on your 2026 small off-road engine and engine powered equipment. New engines and equipment must be designed, built and equipped, at the time of sale, to meet U.S. EPA regulations for small off-road engines. CPE warrants the emission control system on your small off-road engine and equipment for the period of time listed below, provided there has been no abuse, neglect, unapproved modification, or improper maintenance of your equipment.

Your emission control system may include parts such as the carburetor, fuel-injection system, the ignition system, catalytic converter and fuel lines. Also included may be hoses, belts, connectors and other emission related assemblies. Where a warrantable condition exists, CPE will repair your small off-road engine at no cost to you including diagnosis, parts and labor.

MANUFACTURER'S EMISSION CONTROL SYSTEM WARRANTY COVERAGE:

This emission control system is warranted for two years, subject to provisions set forth below. If, during the warranty period, an emission related part on your engine is defective in materials or workmanship, the part will be repaired or replaced by CPE.

OWNER'S WARRANTY RESPONSIBILITIES:

As the small off-road engine owner, you are responsible for the performance of the required maintenance listed in your Owner's Manual. CPE recommends that you retain all your receipts covering maintenance on your small off-road engine, but CPE cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

As the small off-road engine owner, you should however be aware that CPE may deny you warranty coverage if your small, off-road engine or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

You are responsible for presenting your small off-road engine to an Authorized CPE service outlet or alternate service outlet as described in (3)(f.) below, CPE dealer or CPE, Las Vegas, NV. as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

If you have any questions regarding your warranty rights and responsibilities, you should contact:

Champion Power Equipment, Inc.
Customer Service
6370 S Pioneer Way, Unit 101
Las Vegas, NV 89113
1-877-338-0999
tech@championpowerequipment.com

EMISSION CONTROL SYSTEM WARRANTY

The following are specific provisions relative to your Emission Control System (ECS) Warranty Coverage.

- 1. APPLICABILITY:** This warranty shall apply to 1997 and later model year small off-road engines. The ECS Warranty Period shall begin on the date the new engine or equipment is delivered to its original, end-use purchaser, and shall continue for 24 consecutive months thereafter.
- 2. GENERAL EMISSIONS WARRANTY COVERAGE**

CPE warrants to the original, end-use purchaser of the new engine or equipment and to each subsequent purchaser that the ECS when installed is:

 - 2a. Designed, built and equipped so as to conform to U.S. EPA emissions standards for spark-ignited engines at or below 19 kilowatts.
 - 2b. Free from defects in materials and workmanship that cause the failure of a warranted part to be identical in all material respects to the part as described in the engine manufacturer's application for certification for a period of two years.
- 3. THE WARRANTY ON EMISSION-RELATED PARTS WILL BE INTERPRETED AS FOLLOWS:**
 - 3a. Any warranted part that is not scheduled for replacement as required maintenance in the Operator's Manual shall be warranted for the ECS Warranty Period. If any such part fails during the ECS Warranty Period, it shall be repaired or replaced by CPE according to Subsection "d" below. Any such part repaired or replaced under the ECS Warranty shall be warranted for any remainder of the ECS Warranty Period.
 - 3b. Any warranted, emissions-related part which is scheduled only for regular inspection as specified in the Operator's Manual shall be warranted for the ECS Warranty Period. A statement in such written instructions to the effect of "repair or replace as necessary", shall not reduce the ECS Warranty Period. Any such part repaired or replaced under the ECS Warranty shall be warranted for the remainder of the ECS Warranty Period.
 - 3c. Any warranted, emissions-related part which is scheduled for replacement as required maintenance in the Operator's Manual shall be warranted for the period of time prior to the first scheduled replacement point for that part. If the part fails prior to the first scheduled replacement, the part shall be repaired or replaced by CPE according to Subsection "d" below. Any such emissions-related part repaired or replaced under the ECS Warranty, shall be warranted for the remainder of the ECS Warranty Period prior to the first scheduled replacement point for such emissions-related part.
 - 3d. Repair or replacement of any warranted, emissions-related part under this ECS Warranty shall be performed at no charge to the owner at a CPE Authorized Service Outlet.
 - 3e. The owner shall not be charged for diagnostic labor which leads to the determination that a part covered by the ECS Warranty is in fact defective, provided that such diagnostic work is performed at a CPE Authorized Service Outlet.
 - 3f. CPE shall pay for covered emissions warranty repairs at non-authorized service outlets under the following circumstances:
 - i. The service is required in a population center with a population over 100,000 according to U.S. Census 2000 without a CPE Authorized Service Outlet AND
 - ii. The service is required more than 100 miles from a CPE Authorized Service Outlet. The 100 mile limitation does not apply in the following states: Alaska, Arizona, Colorado, Hawaii, Idaho, Montana, Nebraska, Nevada, New Mexico, Oregon, Texas, Utah and Wyoming.
 - 3g. CPE shall be liable for damages to other original engine components or approved modifications proximately caused by a failure under warranty of an emission-related part covered by the ECS Warranty.
 - 3h. Throughout the ECS Warranty Period, CPE shall maintain a supply of warranted emission-related parts sufficient to meet the expected demand for such emission-related parts.
 - 3i. Any CPE Authorized and approved emission-related replacement part may be used in the performance of any ECS Warranty maintenance or repair and will be provided without charge to the owner. Such use shall not reduce CPE's warranty obligation.
 - 3j. Unapproved add-on or modified parts may not be used to modify or repair a CPE engine. Such use voids this ECS Warranty and shall be sufficient grounds for disallowing an ECS Warranty claim. CPE shall not be liable hereunder for failures of any warranted parts of a CPE engine caused by the use of such an unapproved add-on or modified part.

EMISSION-RELATED PARTS INCLUDE THE FOLLOWING: (using those portions of the list applicable to the engine)

Systems covered by this warranty	Parts Description
Fuel Metering System	Fuel regulator, Carburetor and internal parts
Air Induction System	Air cleaner, Intake manifold
Ignition System	Spark plug and parts, Magneto ignition system
Exhaust System	Exhaust manifold, catalytic converter
Miscellaneous Parts	Tubing, Fittings, Seals, Gaskets, and Clamps associated with these listed systems.
Evaporative Emissions	Fuel Tank, Fuel Cap, Fuel Lines (for liquid fuel and fuel vapors), Fuel Line Fittings, Clamps, Pressure Relief Valves, Control Valves, Control Solenoids, Electronic Controls, Vacuum Control Diaphragms, Control Cables, Control Linkages, Purge Valves, Gaskets, Liquid/Vapor Separator, Carbon Canister, Canister Mounting Brackets, Carburetor Purge Port Connector

TO OBTAIN WARRANTY SERVICE:

You must take your CPE engine or the product on which it is installed, along with your warranty registration card or other proof of original purchase date, at your expense, to any Champion Power Equipment dealer who is authorized by Champion Power Equipment, Inc. to sell and service that CPE product during his normal business hours. Alternate service locations defined in Section (3)(f.) above must be approved by CPE prior to service. Claims for repair or adjustment found to be caused solely by defects in material or workmanship will not be denied because the engine was not properly maintained and used.

If you have any questions regarding your warranty rights and responsibilities, or to obtain warranty service, please write or call Customer Service at Champion Power Equipment, Inc.

Champion Power Equipment, Inc.
6370 S Pioneer Way, Unit 101
Las Vegas, NV 89113
1-877-338-0999
Attn.: Customer Service
tech@championpowerequipment.com