

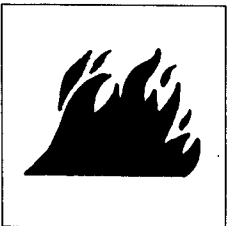
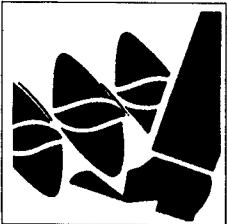
# OPERATOR'S MANUAL

## 5 HP 20 INCH SINGLE STAGE AUGER PROPELLED SNOW THROWER

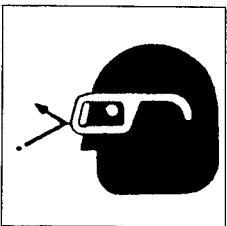
### DANGER



Your snow thrower is a powerful machine which is capable of amputating hands and fingers, feet and toes, and throwing objects that can cause serious injury.



Gasoline is highly flammable, capable of burning and exploding if not properly handled.



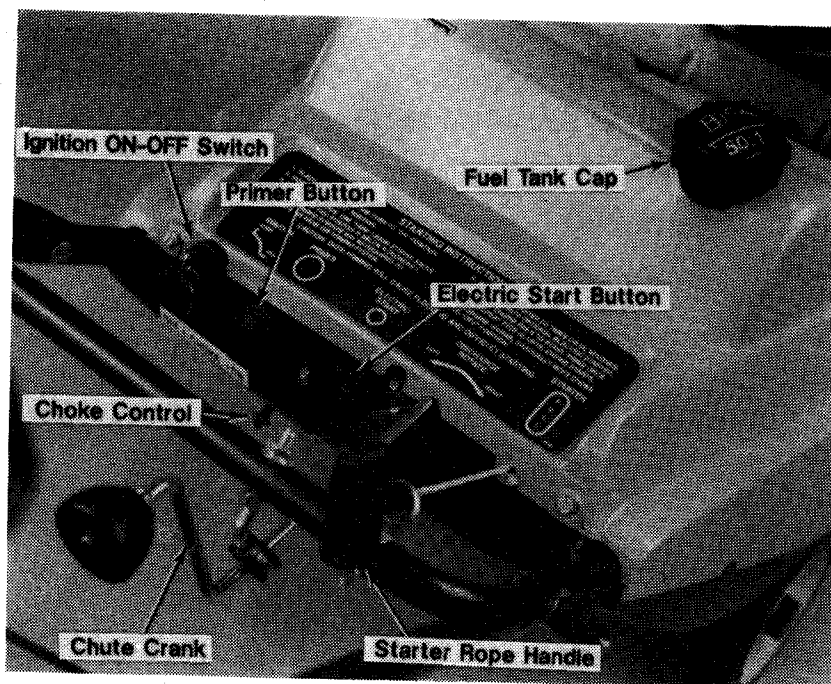
Those who use and maintain the machine must be properly trained in its proper use, know of its dangers, and read this entire manual before attempting to set-up, operate, or service the machine. Failure to observe all instructions, as well as those in the engine manual can result in serious injury.

Manufactured by  
General Power Equipment Company • 201 E. Brink St. • P.O. Box 70 • Harvard, Illinois 60033

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## Know Your Snow Thrower



# Rules for Safe Operation

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These safety instructions must be followed for the safe use and operation of this snow thrower. Read them carefully.

## TRAINING

1. Read this operator's manual carefully. Be thoroughly familiar with the controls and proper use of the equipment. Know how to stop the unit and disengage the controls quickly.
2. Never allow children to operate equipment. Never allow adults to operate equipment without proper instruction.
3. Keep the area of operation clear of all persons, especially when moving in the reverse direction.
4. Exercise caution to avoid slipping or falling, especially when moving in the reverse direction.

## PREPARATION

1. Thoroughly inspect the area where the equipment is to be used and remove all door mats, sleds, boards, wires and other foreign objects.
2. Disengage all clutches before starting engine.
3. Do not operate equipment without wearing adequate winter outer garments. Wear footwear which will improve footing on slippery surfaces. Do not wear loose clothing or jewelry.
4. Handle fuel with care, it is highly flammable.
  - (a) Use approved fuel container.
  - (b) Never add fuel to a running engine or hot engine.
  - (c) Fill fuel tank outdoors with extreme care. Never fill fuel tank indoors.
  - (d) Replace gasoline cap securely and wipe up spilled fuel.
  - (e) Always keep the gasoline can capped and store gasoline out of the house and away from ignition sources.
5. Use only extension cord supplied for operating electric starting motors on units so equipped.
6. Let engine (motor) and machine adjust to outdoor temperatures before starting to clear snow.
7. Never attempt to make any adjustment while engine is running.
8. The operation of any powered machine can result in foreign objects being thrown into the eyes. Always wear safety glasses or eye shields during operation or while performing an adjustment or repair.

## OPERATION


1. Do not put hands or feet near moving parts. Keep clear of discharge opening at all times.
2. Exercise extreme caution when operating on or crossing a gravel drive, walks, or roads. Stay alert for hidden hazards or traffic.
3. After striking a foreign object, stop the engine and remove key from switch. Thoroughly inspect the snow thrower for any damage and repair the damage before restarting the snow thrower.
4. If the unit should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.
5. Stop engine whenever you leave the operating position, before unclogging the collector/impeller housing or discharge guide, and making any repairs, adjustment or inspections. Remove snow with a push stick or similar instrument, not with your hands.

6. Never leave the machine unattended if the engine is operating; shut down the engine and remove key if you must leave the machine for any length of time.
7. When cleaning, repairing, or inspecting, make certain collector/impeller and all moving parts have stopped.
8. Do not run engine indoors, except when starting engine and for transporting snow thrower in or out of building. Open outside doors. Exhaust fumes are dangerous.
9. Do not clear snow across the face of slopes. Exercise extreme caution when changing direction of slopes. Do not attempt to clear steep slopes.
10. Never operate snow thrower without proper guards, plates, or other safety protective devices in place and in operating condition.
11. Never operate snow thrower near glass enclosure, automobiles, window wells, drop-off, etc. without proper adjustment of snow discharge angle. Keep children and pets away.
12. Do not overload machine capacity by attempting to clear snow at too fast a rate. The machine will operate better and safer at the rate for which it was designed.
13. Never direct discharge at bystanders or allow anyone in front of unit. Look behind and use care when backing.
14. Disengage power to collector/impeller when transporting or not in use.
15. Use only attachments and accessories approved by manufacturer of the snow thrower.
16. Never operate the snow thrower without good visibility or light. Always be sure of your footing and keep a firm hold on the handles, and walk, never run.
17. Operation of the snow thrower in the hand held position is unsafe, and is not recommended.
18. Do not over-reach. Keep proper footing and balance at all times.
19. Never operate the machine at high transport speeds on slippery surfaces. Look behind and use care when backing.

## MAINTENANCE AND STORAGE

1. Check all bolts, engine mounting bolts, etc. at frequent intervals for proper tightness to be sure equipment is in safe working condition.
2. Never store machine with fuel in the fuel tank inside a building where open flame or spark are present. Allow engine to cool before storing in any enclosure.
3. Always refer to operator's manual instructions for important details if snow thrower is to be stored for an extended period.
4. Maintain or replace safety and instruction labels, as necessary.
5. Run machine a few minutes after throwing snow to prevent freeze-up of collector/auger.
6. Maintain snow thrower with care. Follow instructions for lubricating wheel bearings.

# Safety Definitions and Decals

A signal word—**DANGER, WARNING, CAUTION**—is used with the safety-alert symbol  and identifies the level of hazard. The level of hazard intensity is determined by the following definitions:

## **DANGER**

The signal word “**DANGER**” indicates extreme danger to a person on or near a machine exists as a result of the very nature of the machine itself which **WILL** result in death or serious injury if the recommended precautions are not taken.

## **WARNING**

The signal word “**WARNING**” indicates danger to a person on or near a machine exists which **COULD** result in death or serious injury if the recommended precautions are not taken.

## **CAUTION**

The signal word “**CAUTION**” indicates danger to a person on or near a machine exists which **MAY** result in minor or moderate injury if the recommended precautions are not taken.

### REGARDLESS OF THE LEVEL OF HAZARD BE CAREFUL


Safety decals and instructions are easily visible to the operator and are located near any area of potential danger. Replace any decal that is damaged.

**STARTING INSTRUCTIONS**


1. PLACE KEY IN IGNITION AND TURN TO "ON" POSITION.
2. MOVE CHOKE TO "ON" POSITION.
3. PRIME AS FOLLOWS: ONE "FIRM" LIQUID STROKE ABOVE 0 DEGREES F. TWO STROKES IF BELOW 0 DEGREES F. "SOFT" PRIMING STROKES MAY BE REQUIRED TO REMOVE AIR FROM THE PRIMING SYSTEM.
4. PULL ROPE STARTER (4) TIMES OR (5) SECONDS, CRANKING WITH OPTIONAL ELECTRIC STARTER. NOTE: IF ENGINE FAILS TO START, PRIME ONCE AND REPEAT STEP (4) UNTIL ENGINE STARTS.
5. AS ENGINE WARMS, GRADUALLY MOVE CHOKE TO "OFF" POSITION.

**CAUTION: OVER PRIMING WILL CAUSE FLOODING AND DIFFICULT STARTING.**


IGNITION  
STOP




PRIMER




ELECTRIC  
START



DISCHARGE  
ROTATE



STARTER



610029

Part No. 1714592 Manual Start — Part No. 1714616 Electric Start (shown)



Part No. 1677485



Part No. 1714590

# Assembly

Reference to right or left side of snow thrower is from operator's position behind the handle facing forward.

## Tools Required

1-1/2" wrench or socket

## Preparation for Operation

Assemble discharge chute to rotating ring on auger housing, using three 5/16 inch carriage bolts, flat washers and nylok nuts found in the parts bag. Bolt heads go to inside of ring with washers and nuts on the outside. Tighten bolts securely, using a 1/2 inch wrench. Lift up folding handle to align it with lower handle and tighten wing knobs securely

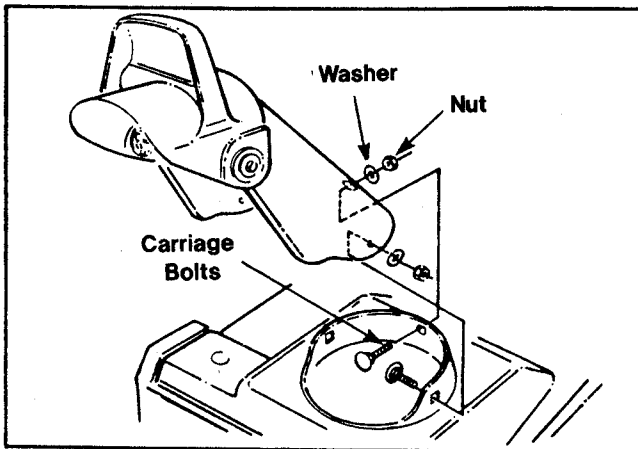


Fig. 1

The snow thrower is now ready for operation once the fuel tank has been filled with the properly mixed gasoline and two cycle oil.

## Gasoline and Oil Mixture

The snow thrower uses a two cycle engine that requires a mixture of gasoline and oil for lubrication of bearings and other moving parts. The correct fuel/oil mixture ratio for the five horsepower engine is 50 to 1. Use fuel/oil mixture chart shown below.

**CAUTION:** Observe recommended gasoline to oil mixing ratio to prevent engine damage.

Fuel/Oil Mixture Chart (50:1)

U.S.		Imperial		Metric	
Gasoline Gallons	2 Cycle Oil Ounces	Gasoline Gallons	2 Cycle Oil Ounces	Gasoline Liters	2 Cycle Oil
1	2.5	1	2.8	4	80 ml
2	5	2	5.6	8	160 ml
5	13	5	14.1	20	400 ml

### **⚠ DANGER**

Handle gasoline carefully. It is highly flammable and careless use could result in serious fire damage to your person and/or property.

**NOTE:** DO NOT USE GASOLINE CONTAINING METHANOL (WOOD ALCOHOL). Gasoline containing up to 10% ethanol or grain alcohol ("Gasohol") may be used but requires special care when engine is unused for extended periods. See "STORAGE" instructions in engine manual.

Gasoline and oil must be pre-mixed in a clean gasoline container. Always use fresh, unleaded, winter grade gasoline. Never use "stale" gasoline left over from last season or stored for long periods.

1. Fill approved clean container one quarter full with fresh unleaded gasoline - one quart in a one gallon container.
2. Pour recommended amount of high quality two cycle oil - 2.5 oz. into gasoline container for one gallon of gas.

**NOTE:** DO NOT USE MULTIVISCOSITY OILS, SUCH AS 10W-30 or 10W-40.

3. Reinstall cap on gasoline container and shake container vigorously so oil mixes with gasoline.

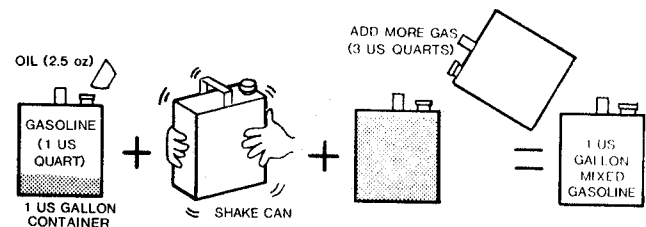


Fig. 2

4. Unscrew cap and fill container with gasoline. Shake container again.

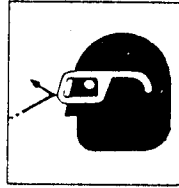
### **⚠ DANGER**

Always fill fuel tank outdoors and use a funnel or spout to prevent spilling. Never fill the gas tank while the engine is running or is hot. Immediately wipe off any spilled gasoline before attempting to start engine. DO NOT SMOKE while filling the fuel tank.

5. Remove fuel tank cap and carefully pour mixed gasoline into fuel tank, filling to 1/2 inch below filler neck to allow room for expansion. Never put plain, unmixed gasoline into fuel tank. Shake gasoline container each time before filling fuel tank.

# Operation

The operation of any snow thrower can result in foreign objects being thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields before beginning snow thrower operation. We recommend standard safety glasses or Wide Vision Safety Mask for over spectacles.



Get to know your snow thrower and its controls. Be sure you (or any other operator) have read and understood the **Rules for Safe Operations** on page 3 of this manual.

## **⚠ DANGER**

**Read Operator's Manual before operating machine.**

**This machine can be dangerous if used carelessly.**

**Never operate the snow thrower without all guards, covers, and shields in place.**

**Never direct discharge towards windows or allow bystanders near machine while engine is running.**

**Stop the engine whenever leaving the operating position and remove key before unclogging auger housing or discharge chute and before making repairs or adjustments.**

**To reduce risk of fire, keep machine clean and free from spilled gas, oil and other debris.**

## Operating Controls

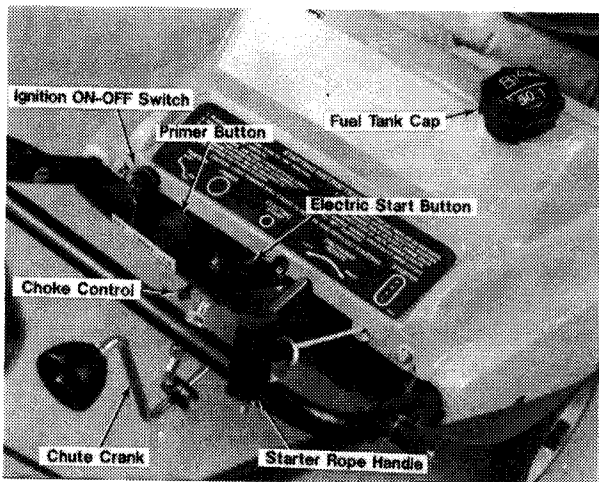


Fig. 3

**Throttle** - The snow thrower does not have a remote throttle for controlling operating speed of engine. Engine governor maintains operating speed for varying snow removal conditions.

**Ignition ON-OFF Switch** - Insert key in switch and turn key to ON position when starting engine. To stop engine, turn key to OFF position.

**Choke Control** - Use the choke control to enrich fuel mixture when starting a cold engine. Choke may have to be partially closed to permit a cold engine to run smoothly until it warms up. A warm engine will normally not require choking to start. Operating positions for choke control are shown on the decal.

**Primer Button** - The primer button, when depressed, will squirt extra fuel mixture into fuel intake for starting engine. Always cover "vent hole" with finger when depressing primer button. Do not use primer when starting a warm engine since it will cause flooding of engine and difficult starting.

**Electric Start Button** - On electric start models, depressing starter button will activate starting motor to crank engine provided cord for electric starter switch is plugged into a 120V, AC household receptacle.

Snow thrower engines with electric start may be started manually with starter rope.

**NOTE:** See next page for instructions on how to use electric starter.

**Auger Clutch Control** - This control starts and stops the auger. Pull control back against handle to start auger, which will pull snow thrower forward if auger is in contact with the ground. Release control to stop rotation of auger.

## **⚠ WARNING**

**Always wear safety glasses while operating machine. Never direct snow discharge chute at bystanders or allow anyone in front of unit.**

**Discharge Chute Control** - Use crank to rotate discharge chute to direct thrown snow in the desired direction. Turn crank clockwise to rotate chute to the right, counterclockwise to rotate chute to the left.

**Snow Discharge Deflector** - Use deflector to control distance that snow will be thrown. Move the deflector up to throw snow the farthest. Move deflector down to deposit snow close by.

## Operation (cont'd)

### **⚠ DANGER**

Never run engine indoors or in enclosed, poorly ventilated areas. Engine exhaust contains **CARBON MONOXIDE**, an **ODORLESS** and **DEADLY GAS**.

**NOTE:** The snow thrower engine is designed to operate at cold temperatures. Avoid operating the snow thrower if air temperature is 40° C or warmer since engine may vapor lock and stop running after a short time. Engine will be difficult to start in warm weather.

### **Starting Engine (Recoil Starter)**

1. Insert key in ignition switch and turn key to the ON position.
2. Move choke control lever to the ON position. If engine is warm from operation, choking engine to start may not be necessary.
3. Depress primer button two or three times, holding finger over vent hole. Allow a couple of seconds between each push of button for air to enter bulb through vent hole.

**NOTE:** Additional priming may be required, for initial start, if temperature is below 15°F/-10°C.

4. Grasp starter rope handle and slowly pull out rope until resistance is felt. Allow rope to rewind slowly, then pull rope out rapidly to start engine. Let rope return slowly to starter.

**NOTE:** If engine does not start after three pulls, push primer bulb once and again pull starter rope.

5. After engine starts and gradually warms up, move choke lever to the OFF position. Be prepared to move choke lever to the ON position if engine falters during warm up.
6. Allow engine to warm up before beginning snow thrower operations. The engine will operate at full throttle when thoroughly warmed up.
7. To stop engine, turn key to the OFF position.

### **Starting Engine (Electric Starter)**

The electric starter is designed to operate on 120V AC household current, using power cord supplied with electric start snowthrower. When using power cord, match wide blade of plug to wide slot of receptacle.

### **⚠ CAUTION**

Be sure there is no moisture present on cord ends or receptacles when plugging in cord.

Follow steps 1, 2 and 3 under Starting Engine (Recoil Start), then proceed as follows:

1. Plug power cord for starter into receptacle on starter switch, then plug other end into a 120V, AC household receptacle. **DO NOT** use an extension cord with the electric start power cord supplied.

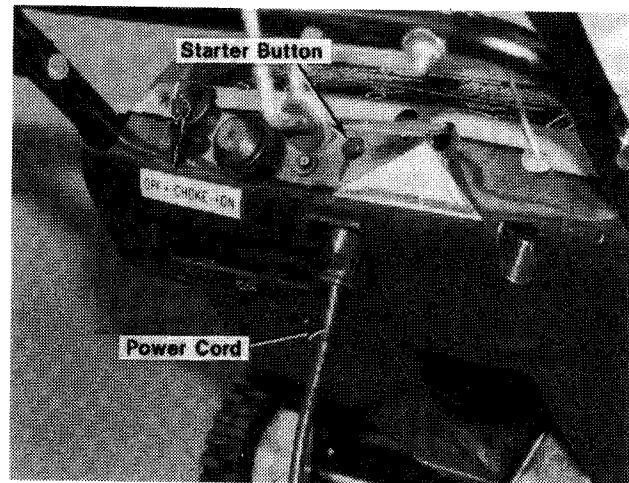


Fig. 4

2. Push starter button to crank engine. **DO NOT** crank engine for more than a total of 15 seconds without allowing electric starter to cool for 10 minutes before additional cranking is attempted. Electric starter can be severely damaged if recommended starter operating limitations are not observed.

### **⚠ CAUTION**

**Do not push primer button while engine is being cranked.**

3. Release starter button when engine starts and gradually move choke lever to the OFF position.

### **⚠ CAUTION**

**Always disconnect power cord from household receptacle first, then unplug from starter switch.**

4. Disconnect power cord from household receptacle and then from starter switch on snow thrower. Store cord in a dry, convenient place.
5. To stop engine, turn key to the OFF position.

## Operation (cont'd)

### Clearing Snow

The snow thrower will be pulled forward by the auger when the auger contacts the ground as the handle is raised. Auger contact with the snow to be thrown will also produce a forward propelling motion.

Before entering snow to be cleared, adjust the position of discharge chute with the crank so snow will not be thrown against buildings, automobiles or on people. Always try to throw snow down wind.

Control distance that snow is thrown by adjusting the deflector on top of discharge chute up or down.

#### **▲ WARNING**

Disengage auger drive before adjusting discharge deflector.

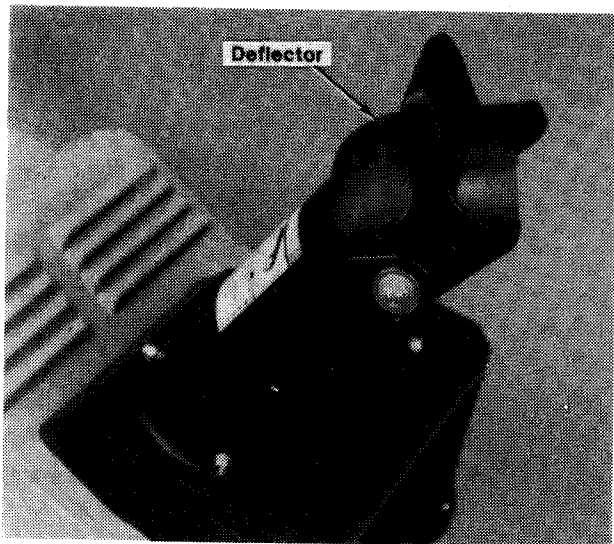


Fig. 5

Review area to be cleared of snow and establish a pattern that will provide the most expedient removal of snow. Inspect area for possible obstructions.

Begin snow removal by clearing a path down the center of walk or driveway, then gradually widen path, throwing snow off to both sides.

Varying snow conditions will affect performance of snow thrower. The snow thrower should be allowed to move into the snow at its own pace.

When clearing wet, heavy snow, the forward movement of the snow thrower may have to be slowed by pushing down on handle while allowing engine to operate at full throttle.

When operating on gravel or crushed rock surfaces, push down on handle just enough to clear stones and rocks. Avoid picking up this type of material with auger since damage to unit could result and particles can be discharged with considerable force that could cause serious injury.

#### **▲ DANGER**

Stay away from front of snow thrower when auger is turning.

#### **▲ WARNING**

Do not use snow thrower on surfaces above ground level, such as the roof of a building.

Always be alert to hidden hazards that might be struck by the auger. Should a foreign object be struck by the auger, immediately stop the engine and inspect machine for any damage. Repair damage before continuing operation.

Allow snow thrower to run a few minutes after clearing snow to reduce the likelihood of parts freezing while machine is not in use.



# Adjustments

## ⚠ WARNING

To avoid the possibility of serious bodily injury when performing adjustments, maintenance or lubrication, stop engine and remove key from switch.

## ⚠ WARNING

Use extreme care when making adjustments that require engine to be running. Keep hands, feet, hair and loose clothing away from any moving parts.

### Auger Clutch Cable

The length of the auger clutch cable is adjustable, however, it will seldom be necessary to change the cable length since the operating tension on the drive belt is maintained by the clutch engaging spring on the end of the cable.

If the auger turns slowly under heavy load or momentary squealing of drive belt is heard when entering heavy snow, pressure applied to drive belt by idler pulley must be increased by reducing length of cable.

The engine cover and cowling must be removed to gain access to the cable adjusting nuts. See heading "Engine Cover/Cowling" on page 10.

To determine that proper pressure is being applied to the drive belt by the clutch idler pulley, measure the spring while the clutch control on the handle is in the disengaged position. RECORD THIS MEASUREMENT.

Pull the clutch control against the handle and again measure the spring. The measurement obtained with the spring extended should be 7/16 inch greater than with the spring unextended.

If cable adjustment becomes necessary, use the adjusting nuts on the cable to alter the length. Reducing the cable length will increase idler pulley pressure on the belt.

Start the snow thrower engine and pull back on clutch control to operate auger. Release clutch control and check to be sure auger stops turning.

If auger continues to turn after clutch control is released, cable is too tight and will have to be adjusted to make it longer. Cable must be slightly slack when clutch control is released (away from handle).

Reinstall the engine cover/cowling.

### Carburetor Adjustment

The carburetor is properly calibrated and pre-set at the factory for efficient cold weather operation. There are no adjusting screws on the carburetor.

If it is apparent that the carburetor is not providing satisfactory fuel supply to engine, contact your nearest Authorized Tecumseh Service Outlet for service.

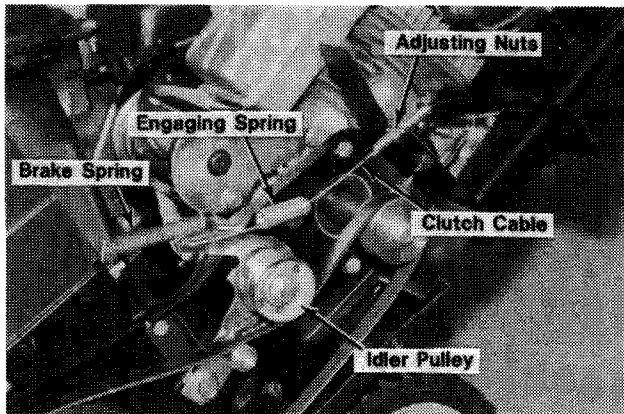


Fig. 6

# Maintenance/Service

## ⚠ CAUTION

To prevent accidental starting of engine during maintenance or service, always remove ignition key from switch.

### Lubrication

A few drops of oil should be placed on wheel hubs occasionally to keep wheels turning freely.

Apply oil to pivot points of auger clutch control periodically, wiping off any excess oil.

A couple of drops of light machine oil applied to upper end of clutch control cable will assure free movement of cable through outside casing. Wipe off any excess oil.

Drive pulley end of auger shaft is supported by a sealed ball bearing and requires no lubrication. Bearing on other end of auger shaft is nylon and will normally not require lubrication when snow thrower is operated in cold snow conditions. Light grease may be applied to nylon bearing at the beginning of each season. Remove two bolts holding bearing to auger housing and apply grease to bearing bore and auger shaft.

At the beginning of each snow throwing season, remove discharge chute and generously lubricate steel flange at back of rotating ring with light grease such as Lubriplate. Rotate ring with crank to distribute grease.

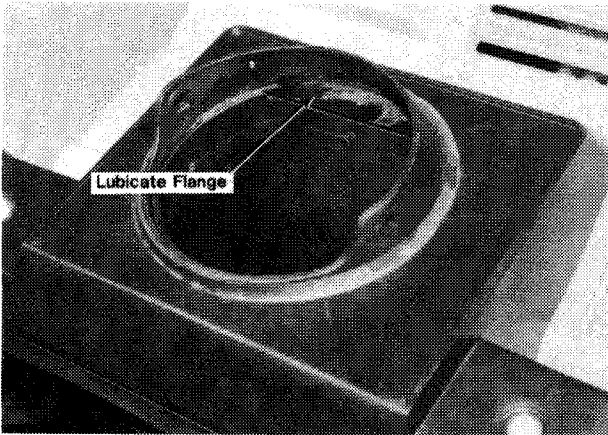


Fig. 8

Remove belt cover and lightly apply oil to pivot point for idler pulley arm. BE CAREFUL NOT TO GET OIL ON BELT OR PULLEYS.

The drive belt idler pulley has a sealed bearing that requires no lubrication.

The two cycle engine used in this snowthrower is lubricated by the gasoline/oil mixture. Observe recommended gasoline to oil mixture ratio shown on page 5.

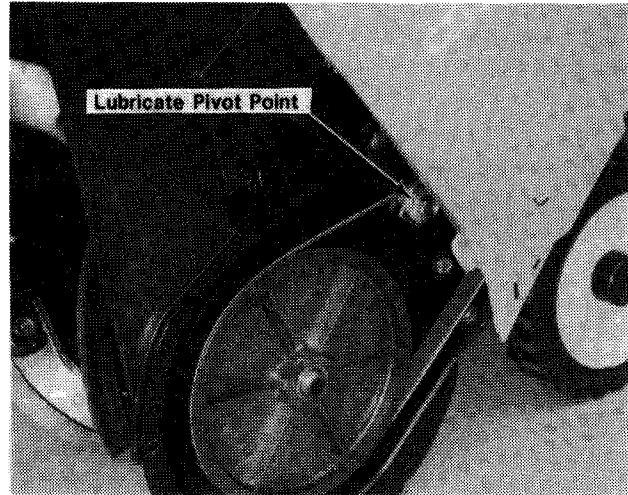


Fig. 9

### Engine Cover/Cowling

1. Remove key from ignition switch.
2. Remove three screws holding discharge chute to rotating ring.
3. Remove two hex bolts and screws holding the engine cover and cowling—hex bolts on top of front, two screws inside of auger housing, two at rear of cover and one from each side of cover.
4. Remove the fuel tank cap and carefully lift the cover and cowling up and away from the engine exhaust pipes. Reinstall cap on fuel tank while cover is removed.
5. During reassembly of cover and cowling, be sure metal grommet for engine starter rope is in position between cowlings. The tabs at lower front of cover must be positioned to the inside of belt cover on the left side and inside the lower cowling on the right side.
6. Leave retaining screws loose until all are in place, then tighten them securely. Reinstall fuel tank cap.

### Belt Cover

1. Remove key from ignition switch.
2. Remove four screws from side cover.
3. Remove cover.
4. Reinstall cover in reverse order.

# Maintenance/Service (cont'd)

## Replacing Drive Belt

1. Remove key from ignition switch.
2. Remove belt cover as explained under "Belt Cover".
3. Remove engine cover/cowling as explained on page 10.
4. Move the auger control bail on the handle and slip the belt out from between the brake lever and roller and away from the idler pulley.
5. Remove the belt from the engine and auger pulleys.
6. Install new belt around engine and auger pulleys and underneath idler pulley. The ribbed side of the belt must be to the inside, against auger and engine pulleys. Slip belt into place between brake lever and roller.

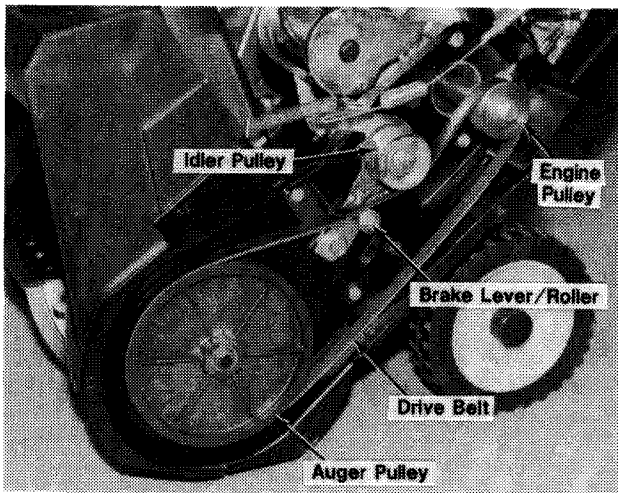


Fig. 10

### **▲ WARNING**

Use extreme care when making adjustments that require engine to be running. Keep hands, feet, hair and loose clothing away from any moving parts.

7. Start engine and engage and disengage auger clutch control to be sure that auger stops turning when clutch control is released.
8. If auger does not stop turning when control is released, tension of clutch control cable must be adjusted as explained under "Auger Clutch Cable" on page 9.
9. Reinstall belt cover and engine cover/cowling.

## Replacing Scraper Blade

1. Remove key from ignition switch.
2. Remove three screws, nuts and worn blade.
3. Install new blade, securing with three screws and nuts.

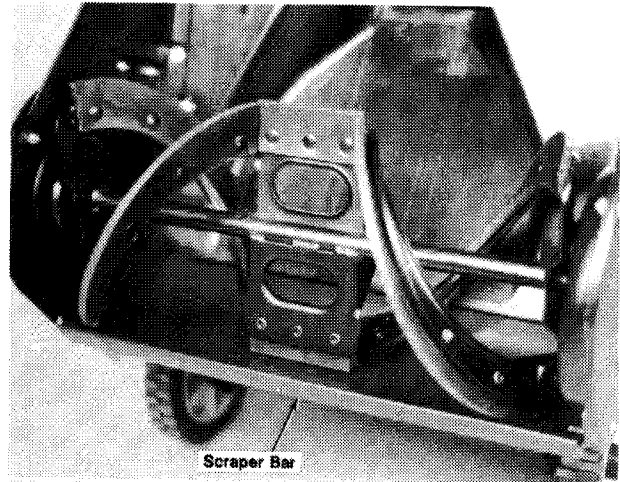


Fig. 11

## Servicing Spark Plug

1. Remove key from ignition switch.
2. Remove engine cover as explained under "Engine Cover/Cowling".
3. Disconnect wire from spark plug and remove plug.
4. Inspect plug and clean carbon from electrodes with a wire brush. If plug is burned or pitted, replace it with a new plug as recommended in engine manual.
5. Adjust gap between electrodes to .030 inch, using a wire feeler gauge.
6. Install plug and tighten firmly. Reconnect plug wire.
7. Reinstall engine cover/cowling.

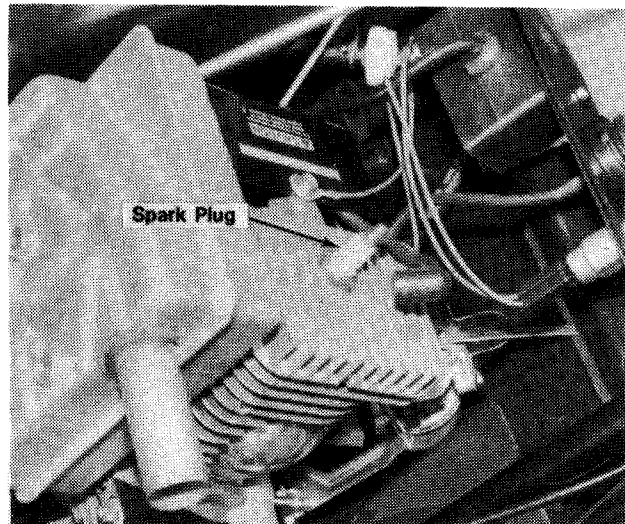


Fig. 12

## Maintenance/Service (cont'd)

### Replacing Fuel Filter

**⚠ DANGER**

Since gasoline is highly flammable, do not smoke or create any source of spark while changing fuel filter.

Fuel filter should be changed while fuel tank is empty of fuel.

1. Remove key from ignition switch.
2. Remove engine cover/cowling.
3. Use pliers to open and slide clamps away from each end of filter and remove filter from fuel line.
4. Install new filter in fuel line. Fuel will flow through filter in either direction.
5. Squeeze clamps and slide them back to original position. Reinstall engine cover/cowling.

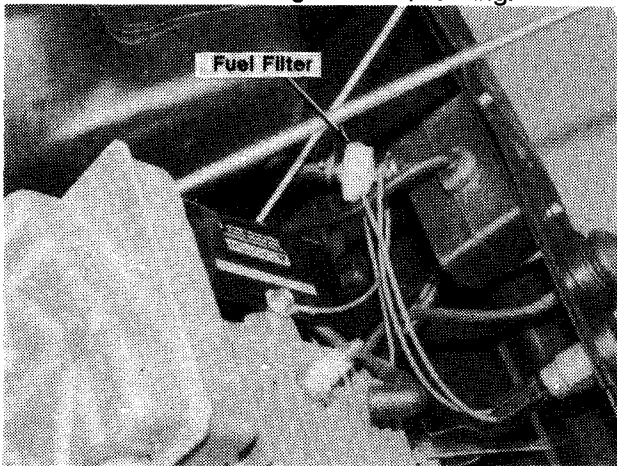


Fig. 13

### Storage

Prepare snow thrower engine for off-season storage by following instructions given in the engine manual.

**⚠ CAUTION**

Never store engine with fuel in tank indoors or in enclosed, poorly ventilated enclosures, where fuel fumes may reach an open flame, spark or pilot light as on furnace, water heater, clothes dryer, etc.

Handle gasoline carefully. It is highly flammable and careless use could result in serious fire damage to your person and/or property.

Drain fuel into an approved container outdoors, away from open flame.

Clean snow thrower by wiping surfaces with a rag.

Lubricate wheel hubs and auger clutch control bar with oil. Apply lubricant to discharge chute flange as specified in Maintenance/Service.

Inspect unit for worn, damaged or missing parts and replace as necessary.

**⚠ WARNING**

Do not make modifications to snow thrower which could impair its function and create a safety hazard.

Store the snow thrower indoors, if possible, and cover with a suitable cover to keep off dust and dirt.

# Troubleshooting

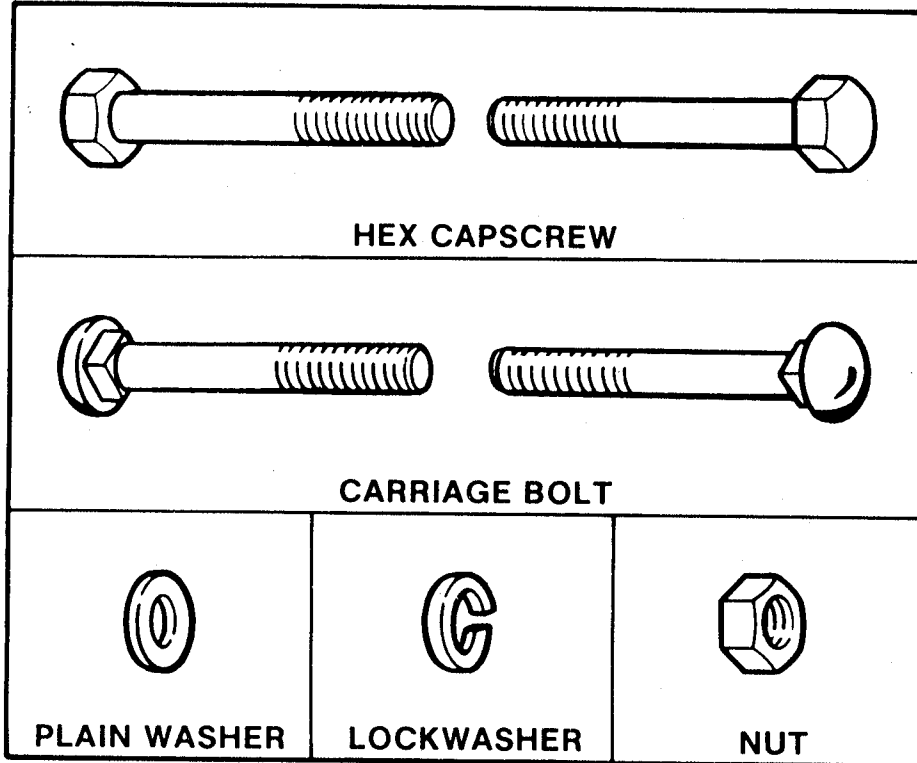


To prevent accidental starting, always remove the ignition switch key before taking any corrective action.

Problem	Cause	Remedy
Engine will not start	Key not in ON position	Turn Key ON
	Choke in OFF position	Move choke to ON
	Fuel tank empty	Fill fuel tank
	Old stale fuel mixture	Drain and refill with fresh gas/oil mixture
	Faulty spark plug	Replace spark plug
Engine runs faulty, falters	Incorrect spark plug gap	Adjust gap to .030"
	Choke in ON position	Move choke to OFF position
	Fuel contaminated with water, dirt	Drain and refill with fresh gas/oil mixture
	Fuel filter clogged	Replace fuel filter
Unit does not throw snow	Gas cap vent hole plugged	Clean vent hole or replace cap
	Loose or broken drive belt	Adjust or replace belt
	Incorrect control cable adjustment	Adjust cable length
	Discharge chute clogged, foreign object lodged in auger	Stop engine, remove key and clean out discharge chute
Auger does not stop turning when control is released	Broken control cable	Replace cable
	Incorrect control cable adjustment	Adjust cable length
Excessive vibration	Loose parts, damaged auger	Stop engine, remove key and make necessary repairs Tighten bolts.

**Note:** For repairs beyond the minor adjustments listed above, please contact the factory or authorized service dealer

# STANDARD FASTENER IDENTIFICATION CHART



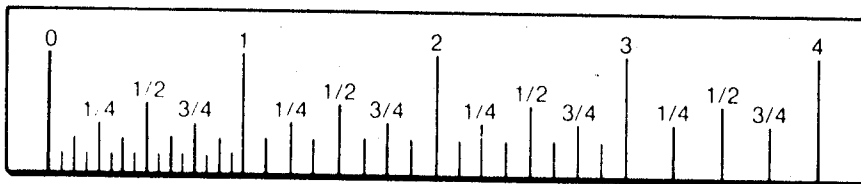
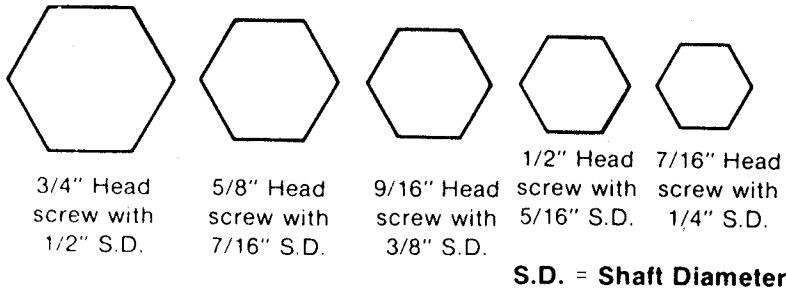
Hardware sizes are given in the illustrations throughout this manual.

If a washer or nut is identified as "washer, 1/2" or "nut, 1/2", this means the inside diameter is 1/2 inch.

If a screw is identified as "screw, 1/2 x 2", this means the shaft diameter is 1/2 inch and the shaft of the screw is 2 inches long. If a screw is identified as "screw, 1/2-16 x 2", the number "16" means that the screw has 16 threads per inch.

## HEX CAPSCREW IDENTIFICATION

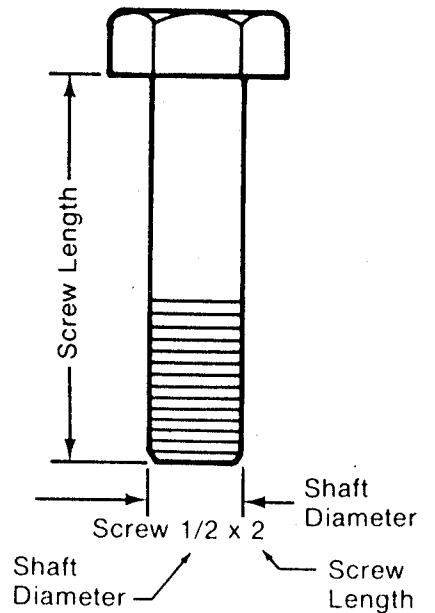
Shown below are actual size hex heads for standard screw sizes. Example: a 1/4" screw has a 7/16" head and thus requires a 7/16" wrench. To measure length, use the scale below.



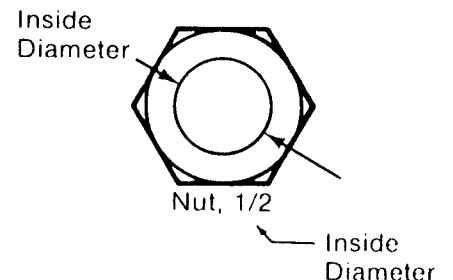
## WASHER AND NUT IDENTIFICATION

Place the washer or nut on the above scale to determine the inside diameter. The actual inside diameter can vary 1/16 inch. Use the scale for comparison.

## SAMPLE: SCREW IDENTIFICATION



## SAMPLE: NUT IDENTIFICATION





Note: General Power was bought out By MTD 1-800-800-7315

## TWO YEAR LIMITED WARRANTY

GENERAL POWER EQUIPMENT COMPANY, P.O. Box 70, 201 E. Brink St., Harvard, Illinois 60033 extends this warranty to the original consumer purchaser for ordinary home use, not to commercial, nor to industrial users nor to those who use the product under abnormal conditions.

For a two year period from the date of purchase we will provide free replacement of snow thrower parts which, upon examination by a factory authorized service center or by this manufacturer, are determined to have failed as a result of a defect in material or workmanship. The cost of parts and labor are included, but the purchaser pays all transportation costs. To obtain service under warranty, contact the nearest factory authorized service center or the manufacturer immediately. The manufacturer will direct you to an authorized service station or the factory's service center. Do not attempt to return the machine to the factory without prior contact and receipt of written permission to do so.

General Power Equipment Company will not be responsible for any damage to or malfunction of this product caused by any of the following: commercial use, abuse, misuse, negligence, accident, corrosive atmosphere, improper repair or maintenance of the machine nor damages sustained while the machine or component parts are in transit. This warranty does not cover normal maintenance and/or replacement of maintenance items such as oil and air filters, spark plugs, belts, or blades, brake pads or linings; transportation charges to and from a servicing dealer; damage caused by negligence, accident or misuse or operation of product in excess of recommended capacities; or unauthorized or improper repairs or modifications made to equipment.

Any warranty that may be implied from this purchase is limited to the duration of this written warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. General Power Equipment Company shall not be liable for any incidental or consequential damages resulting from breach of any warranty. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

No warranty registration card is necessary to obtain warranty on the machine. However, a product registration card has been included so we may track the product to the user. This will aid us in the event we must contact you and may aid you in proving the date the product was purchased.

## ENGINE WARRANTY

The engine is covered under a separate warranty by the engine manufacturer. Engine warranty service and parts are obtainable from the manufacturer's authorized service stations which are listed in the Yellow Pages of your telephone directory. If you encounter difficulty, do not attempt to dismantle or alter the engine as tampering with the engine will void the engine warranty.

For future reference, record below the name of the dealer from whom you purchased this equipment and date of purchase.

PLACE OF PURCHASE _____	DATE OF PURCHASE _____	
SNOW THROWER MODEL # _____	SERVICE # _____	SEQ. # _____
ENGINE MODEL # _____	ENGINE SERIAL # _____	
FILL IN THE ABOVE AND KEEP OPERATOR'S MANUAL HANDY FOR READY REFERENCE. ALONG WITH ENGINE OPERATING AND MAINTENANCE INSTRUCTION.		



GPE snow throwers are engineered and built to meet ANSI B71.3 American National Standard Institute. Safety Specifications for snow movers.