

# ***Simplicity***<sup>®</sup>

## **OPERATOR'S MANUAL**

### **Sno-Away Models**

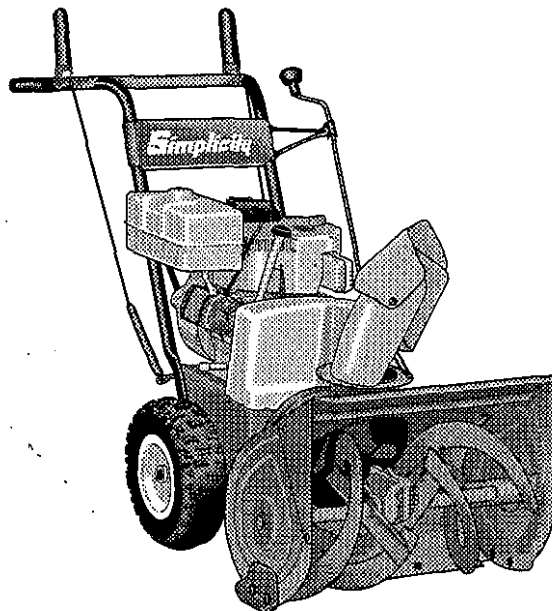
**5-55cm/22**

Mfg. No. 1691411

**7-55cm/22**

Mfg. No. 1691413

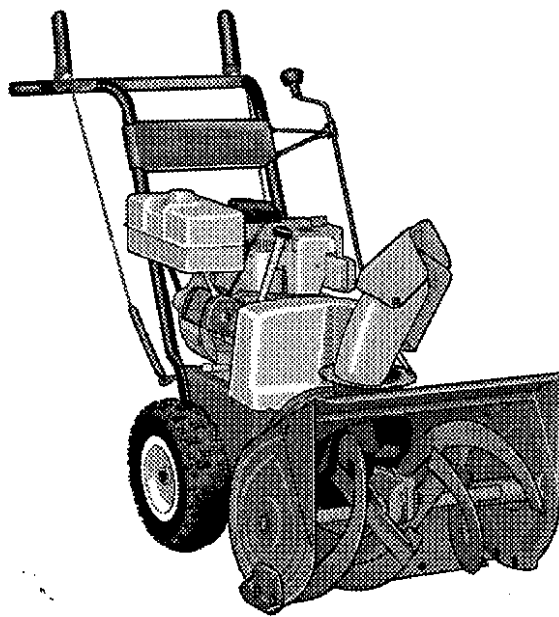
Mfg. No. 1691414



# **Baker™**

## **OPERATOR'S MANUAL**

### **Model 7/22E**



***Simplicity***

**Outdoor Power  
Equipment**

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Port Washington, WI 53074-0997

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**Baker**<sup>TM</sup>

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## SPECIFICATIONS.. .....

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This manual covers the following models:

Model	Mfg. No.
5-55cm	1691411
7-55cm	1691413 1691414
7/22E	1692615

Record your model number, manufacturer number and serial number in the space provided for easy reference. The snowthrower I.D. tag is located on the rear of the frame.

Refer to the Engine Owner's Manual for location of engine serial number.

MODEL REFERENCE
Model Number:
Manufacturer Number:
Engine I.D. Number:
Dealer Name/Date Purchased:

### **A** WARNING

You must read, understand and comply with all safety and operating instructions in this manual before attempting to set-up and operate your snowthrower.

Failure to comply with all safety and operating instructions can result in loss of machine control, serious personal injury to you and /or bystanders, and risk equipment and property damage. The triangle in the text signifies important cautions or warnings which must be followed.

### **A** WARNING

Engine exhaust from this product contains chemicals known, in certain quantities, to cause cancer, birth defects, or other reproductive harm.

# Safety Rules

---

## WARNING

This unit is a “two-stage” snowthrower. The first stage is the auger, which feeds the snow back into the impeller housing. The second stage is the impeller, which throws the snow out the discharge chute. If bodily contact is made with the auger or impeller when they are rotating, severe personal injury will occur. To avoid injury, keep others and yourself away from the auger and the discharge chute whenever the engine is running. Read and follow all of the safety rules and warnings in this manual.

## **A** WARNING

To avoid serious injury, do not put your hands into the auger housing or discharge spout. If auger stalls or spout becomes plugged, use the following procedure to remove objects or clear the spout:

1. Release both drive levers.
2. Shut off the engine.
3. Wait for moving parts to stop.
4. Use a narrow board to remove foreign objects and clear the spout or auger. Never put your hands into the auger or discharge spout.

## GENERAL

- Read the Operator’s Manual carefully. Be thoroughly familiar with all controls and proper equipment use.
- Never allow children to operate the machine. Do not allow adults to operate it without proper instruction.
- Keep the area of operation clear of all persons, particularly small children and pets.
- Never discharge material toward any person or pet.
- Make sure:
  - a. snowthrower is in good operating condition;
  - b. all safety devices and shields are in place and working;
  - c. all adjustments are correct.

## PREPARATION

- Never attempt to make any adjustment while engine is running.
- Thoroughly inspect the area where the snowthrower is to be used and remove all objects such as door mats, sleds, boards, wires and sticks.

- Disengage all clutches (release drive levers) before starting engine.
- Do not operate snowthrower without wearing proper winter clothing. Wear footwear which improves footing on slippery surfaces.
- Handle gasoline with care • it is highly flammable.
  - a. Use approved gasoline container.
  - b. Never remove the fuel tank cap or add gasoline to a running or hot engine.
  - c. Never fill the fuel tank indoors.
  - d. Wipe up spilled gasoline.
- Adjust skid shoe height to clear gravel or crushed rock surface.
- Do not run engine indoors. Exhaust fumes are deadly.

## OPERATION

- Keep hands and feet away from rotating parts. Keep clear of discharge opening at all times.
- Always clear snow up and down the face of slopes, never across the face. Use extreme caution when changing direction on slopes. Do not attempt to clear slopes over 17.7% (10°).
- Use extreme caution when operating on or crossing gravel drives, walks or roads. Stay alert for hidden hazards and traffic.
- Be especially careful not to touch snowthrower parts which might be hot from operation. Allow such parts to cool before attempting to maintain, adjust or service.
- If unit starts to vibrate abnormally, disengage drives and stop the engine. Check immediately for the cause. Vibration is generally a warning of trouble.
- Before leaving operator’s position for any reason:
  - shut off engine,
  - remove the key and
  - wait for all moving parts to stop.
- Before cleaning, repairing or inspecting the unit, make certain all moving parts have stopped. Remove the key and then disconnect the spark plug wire to prevent accidental starting.
- Always use a grounded, 3-wire plug receptacle for electric starting.
- Adjust snow discharge angle for safe flow when operating near glass enclosures, automobiles, window wells, dropoffs, etc.
- Do not overload machine capacity by clearing snow at too fast a ground speed.

# Safety Rules

- Never operate machine at high transport speeds on slippery surfaces. Use care when backing up.
- Disengage auger drive when transporting or not in use.
- Never operate the snowthrower without good visibility or light. Always be sure of your footing.
- Do not change the engine governor settings or over-speed the engine.
- Always refer to the Operator's Manual for important details if snowthrower is to be stored for an extended period.
- Run auger drive a few seconds after completion of throwing snow to help clear out snow and prevent freeze-up.

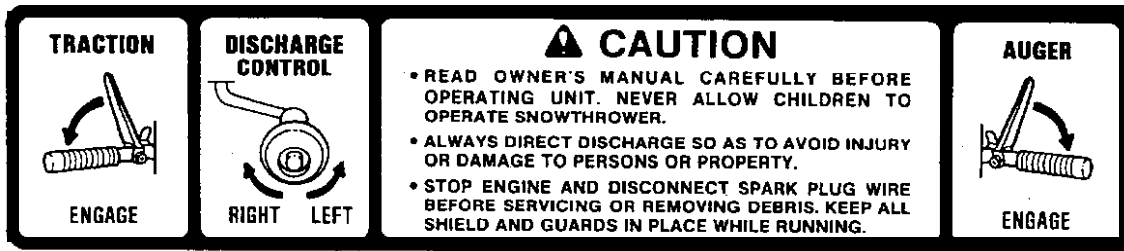
## MAINTENANCE & STORAGE

- Keep all nuts, bolts and screws tight to ensure that the equipment is in safe operating condition.
- Never store equipment with gasoline in the tank in a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.

## SAFETYDECALS

Safety warning decals are placed at strategic locations on the snowthrower as a constant reminder to the operator of the most important safety precautions. All warning, caution and instructional messages on your snowthrower should be carefully read and obeyed.

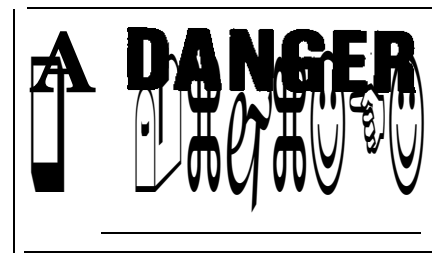
If any of these decals are lost or damaged, replace them at once. They can be purchased from your local dealer.



Part No. 1676937



Part No. 1677488



Part No. 1677485



Decal supplied by the engine manufacturer.  
See your local Tecumseh dealer.

# Controls

## SNOWTHROWER CONTROLS

(Figure 1)

Ref	Name	Function
A	Auger Control Clutch Lever	Engages auger/impeller when depressed; disengages when released.
B	Drive Control Clutch Lever	Engages drive to wheels when depressed; disengages when released.
C	Chute Control Rod	Controls direction snow is thrown.
D	Chute Deflector	Controls angle snow is thrown.
E	Skid Shoes	Controls height of scraper bar.

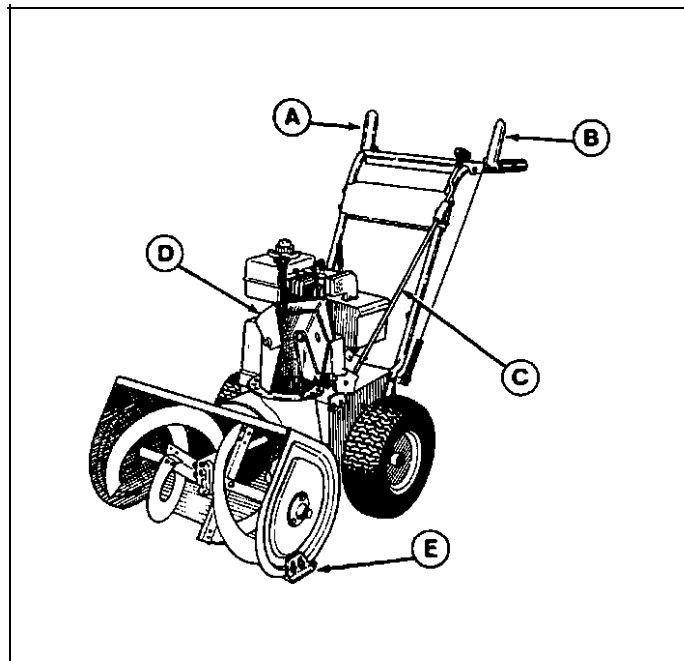


Figure 1. Snowthrower Controls

## ENGINE CONTROLS

(Figure 2)

Ref	Name	Function
A	Primer Button	Primes the carburetor.
B	Choke	Enriches fuel supply.
C	Ignition Switch	Allows starting and stopping of the engine.
D	Throttle Lever	Controls engine speed.
E	Shift Lever	Controls ground speed and direction.
F	Starter Handle	Used to start engine.
G	Fuel Valve	Turns fuel supply on or off.

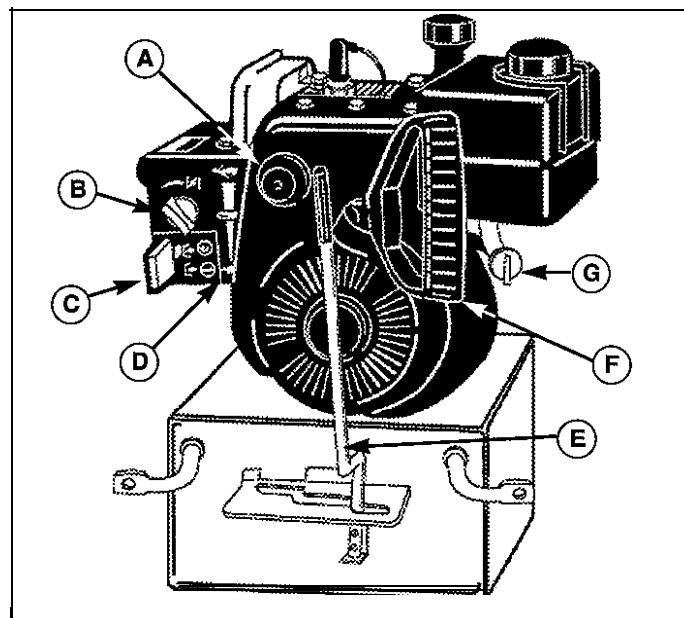


Figure 2. Engine Controls

The engine can be started with the rewind (rope) starter or optional 120V electric starter. The engine can be stopped by moving the throttle lever (D, figure 2) all the way down, or by pulling out on the ignition key.

Refer to the engine Owner's Manual for maintenance and service instructions, along with important safety information.

## ENGINE SPEED

For overall best performance, run the snowthrower at full operating engine speed. Use the engine throttle lever (D, figure 2) to set the engine speed.

## GROUND SPEED

Use the ground speed shift lever (E, figure 2) to control the drive speed of the snowthrower. There are three forward speeds and one reverse speed. Position 1 is for extra deep, wet, heavy snow. Position 2 is for deep, wet, heavy snow. Position 3 is for light, fluffy snow and to drive the snowthrower without blowing snow. To change speeds, first release the drive control clutch lever (B, figure 1), then move the ground speed shift lever to the desired speed setting.



## DEFLECTOR

The angle and distance of the discharged snow is controlled by the position of the deflector. Engine speed also affects distance of discharge.

The more the deflector is tilted back, the farther snow will be thrown. Loosen the knob (figure 3) to tilt the deflector back or forward, then retighten the knob.

## SCRAPER BAR & SKID SHOES

On smooth surfaces such as concrete or asphalt, the scraper bar should scrape the surface. On surfaces such as gravel, the scraper bar should be high enough so that it will not pick up gravel or debris.

The height of the scraper bar is controlled by raising or lowering the skid shoes as shown in figure 4.

1. To raise the scraper bar height, rest the scraper bar on a piece of wood, equal in thickness to the desired height.'
2. Make sure the scraper bar is parallel to the ground surface.
3. Loosen the skid shoe nuts and let the skid shoes drop to the surface.
4. Tighten the nuts, making sure the skid shoes are adjusted equally and are parallel to the surface.
5. To lower the height of the scraper bar, raise the skid shoes.
6. If the scraper bar becomes worn, it can be replaced by removing the hardware attaching it to the snowthrower, installing a new one and then tightening the hardware.

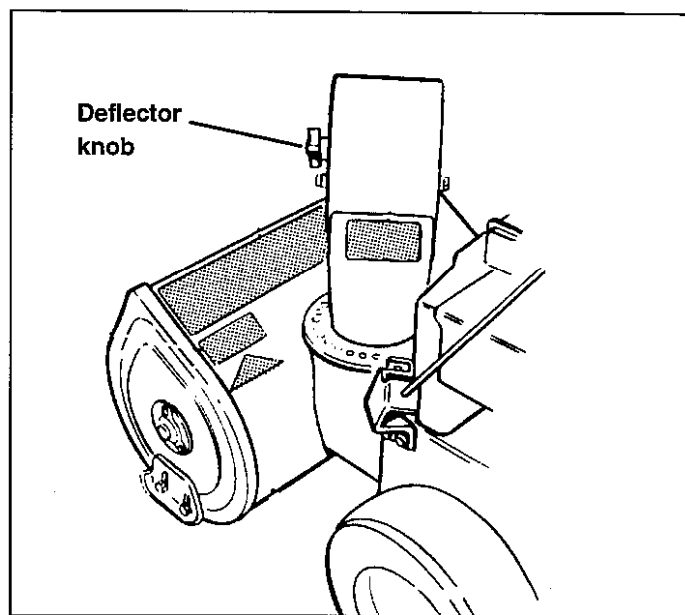


Figure 3. Deflector Adjustment

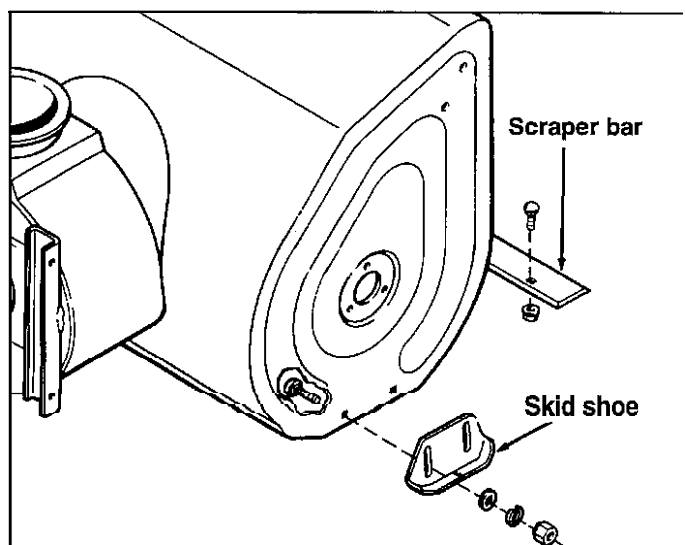


Figure 4. Skid Shoe Adjustment

## GENERAL

### **A** WARNING

Before leaving the operator's area for any reason, stop the engine and remove the key. Disconnect the spark plug wire and secure it away from the plug to prevent accidental start-up of the snowthrower.

### **A** WARNING

To avoid serious injury, do not put your hands into the auger housing or discharge spout. If auger stalls or spout becomes plugged, use the following procedure to remove objects or clear the spout:

1. Release both drive levers.
2. Shut off the engine.
3. Wait for moving parts to stop.
4. Use a narrow board to remove foreign objects and clear the spout or auger. Never put your hands into the auger or discharge spout.

## OPERATION ON SLOPES

### **A** WARNING

For your safety, operation on slopes should be in an up and down direction only. If it becomes necessary to move across the face of a slope, use caution and do not blow snow. Be very careful when changing direction on a slope.

Proper winter footwear is recommended for the operator to help prevent slipping.

Never attempt to clean snow from excessively steep slopes. The maximum slope for any operation is 17.7% (10°).

## CHECKS BEFORE EACH START-UP

1. Make sure all safety guards are in place, and all nuts, bolts and clips are secure.
2. Check the engine oil level. See your engine Owner's Manual for procedure and specifications.
3. Check the fuel supply. Fill the tank to within 1/4 to 1/2 inch of top of tank to provide space for expansion. See your engine Owner's Manual for fuel recommendations.

### **A** WARNING

Gasoline is highly flammable and must be handled with care. Never fill the tank when the engine is hot or running. Always move outdoors to fill the tank. Keep snowthrower and gasoline away from open flame or spark.

4. Position the deflector at the desired angle and the scraper bar at the desired height.
5. Check the auger control clutch lever (A, figure 1), drive control clutch lever (B, figure 1) and discharge chute deflector (D, figure 1) for proper operation. If adjustment is required, see the Service Section for procedures.
6. Check the discharge chute control rod (C, figure 1) for proper function. Check to make sure sprocket teeth on lower chute control rod fully engage holes in flange around bottom of discharge chute. The bracket that holds lower chute control rod is slotted and can be moved up or down to obtain full engagement of sprocket teeth.
7. Check shift lever (E, figure 5) for proper position. If adjustment is required, see SHIFT CONTROL ADJUSTMENT in the Service Section.
8. Check to make sure spark plug wire is attached and spark plug is tightened securely into engine. If necessary, torque spark plug to 15 ft. lbs.
9. After servicing engine and before beginning snow removal, check controls again with engine running.

## STARTING THE ENGINE

1. Move the ground speed shift lever (E, figure 5) to the Neutral position.
2. Turn the fuel valve (G, figure 5) to the ON position.
3. Insert the ignition key (C, figure 5) into the ignition switch and push fully in to the RUN position.
4. Move the throttle lever (D, figure 5) fully up to the FAST position.
4. Turn the choke knob (B, figure 5) fully counterclockwise if engine is cold. Do not choke a warm engine.
5. Push the primer button (A, figure 5) two times if engine is cold. Do not prime a warm engine.
6. Pull starter handle (F, figure 5) rapidly or push starter button if equipped with the electric start. Do not allow starter handle to snap back. Let the starter rope rewind slowly while keeping a firm hold of the starter handle.

- As the engine warms up and begins to operate evenly, turn the choke knob slowly counterclockwise to the OFF position. If engine falters, return to 1/2 choke position until it runs smoothly, then turn it to the choke OFF position.

*NOTE: Allow the engine to warm up for a few minutes before operating the snowthrower. Engine will not develop full power until it reaches operating temperature.*

- Run the engine at or near top speed during snowthrower operation.

## OPERATING THE SNOWTHROWER

- Position the discharge chute to the desired angle and direction.
- Set the ground speed control lever to the desired forward or reverse position.
- Press the auger clutch lever on the right-hand grip to begin auger rotation.
- Press the drive clutch lever on the left-hand grip to begin moving the snowthrower.
- To disengage the drive mechanism, release both clutch levers. Set the ground speed control lever to the NEUTRAL position.

*NOTE: After a normal break-in period of 2 - 4 hours of use, it may be necessary to adjust the drive belt. See DRIVE BELTS in the Service Section for the adjustment procedure,*

## AFTER EACH USE

- Before stopping engine, pull the starter rope twice and allow it to rewind slowly, then stop the engine by moving the throttle lever (D, figure 5) all the way down or by pulling out on the ignition key. This will prevent freeze-up.
- The engine Owner's Manual contains further information on preventing engine freeze-up.
- Always remove the key to prevent unauthorized use.

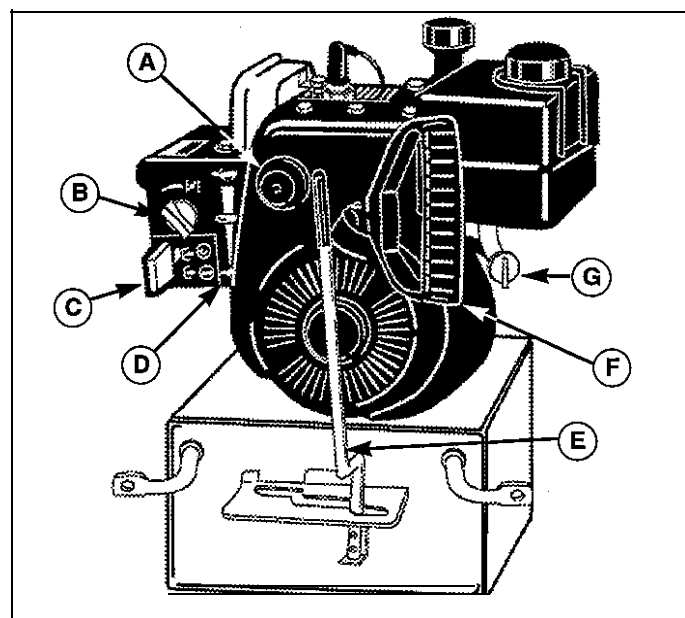


Figure 5. Engine Controls

- |                        |                   |
|------------------------|-------------------|
| A. Primer Button       | D. Throttle Lever |
| B. Choke Knob          | E. Shift Lever    |
| C. Ignition Key/Switch | F. Starter Handle |
|                        | G. Fuel Valve     |

- Clean snow and ice from the snowthrower.
- If the snowthrower is kept in a cold shelter, fill the fuel tank to prevent condensation. Do not store near sparks or flame.

### **A** WARNING

Never store snowthrower, with gasoline in engine or fuel tank, in a heated shelter or in enclosed, poorly ventilated enclosures. Gasoline fumes may reach an open flame, spark or pilot light (such as a furnace, water heater, clothes dryer, etc.) and cause an explosion.

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

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

# Regular Maintenance

## NORMAL CARE

Care Required	See Page	Every 25 Hours	Yearly
Check auger gear case lubrication.*	Page 8	.	
Lubricate snowthrower.	Page 9		
Check tire pressure.	Page 9		.
Change engine oil.**+		.	
Clean or replace spark plug.+			.
Check discharge control.	Page 14		*

\* The transmission and auger gear case have been factory lubricated for life. If lubricant should leak out, have transmission or auger gear case inspected by your dealer.

\*\*Change original oil after two hours of operation.

+ See your engine Owner's Manual.

## OFF-SEASON STORAGE

Before you store your snowthrower for the off-season, read the Maintenance and Storage instructions in the Safety Rules section and take the following precautions:

*NOTE: Gasoline, if permitted to stand unused for extended periods (30 days or more), may develop gummy deposits which can adversely affect the engine carburetor and cause engine malfunction. To avoid this condition, add a gasoline stabilizer to the fuel tank or drain all fuel from the system before placing unit in storage.*

1. Prepare your snowthrower engine for storage according to the instructions found in the engine Owner's Manual.
2. Lubricate the snowthrower as described in the LUBRICATION section.
3. Clean the snowthrower thoroughly. Coat all exposed bare metal parts with a good quality paint (available from you dealer) or a light film of grease, oil or automotive wax.

## STARTING AFTER STORAGE

1. Remove the spark plug and wipe dry. Crank engine a few times to blow excess oil out of plug hole. Then reinstall plug.
2. Fill fuel tank with fresh gasoline (unless a fuel stabilizer was used).
3. Check to be sure engine fins are clean and air flow is unobstructed.
4. Check engine oil and lubricate snowthrower.
5. Start the engine outdoors. Do not run engine at high speeds immediately after starting.

6. Check the operation of the controls. If necessary, lubricate the snowthrower to improve operation of the spout control.
7. Store snowthrower in the wheels down, operating position. If stored in any other position, oil from crankcase could enter cylinder head, causing a service problem. Store in a protected area and cover for additional protection.

## CHECK AUGER GEAR CASE LUBRICATION

1. Place the snowthrower on a level surface.
2. Remove the pipe plug (A, figure 6). The lubricant should be level with the hole. If not, add Simplicity Winter Weight Worm Gear Oil (available from your dealer).
3. Re-install pipe plug.

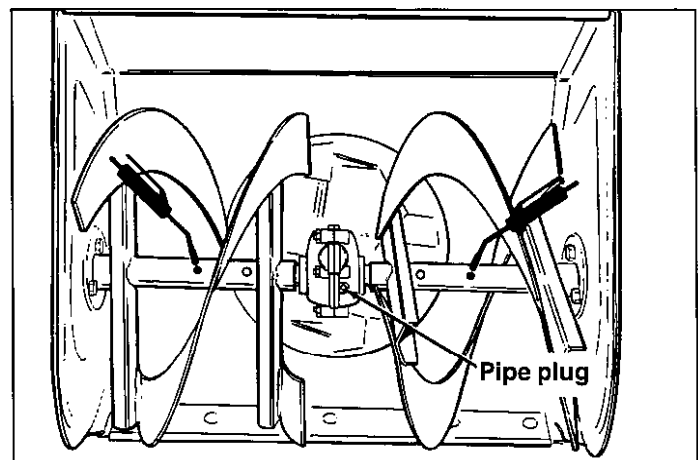


Figure 6. Checking Auger Gear Case Lubrication

## LUBRICATION

### **A** CAUTION

It is very important that grease fittings on auger shaft (figure 6) are lubricated regularly. If auger rusts to shaft, damage to worm gear may occur if shear pins do not break.

With an oil can, apply medium weight (10W) oil to points A & B shown in figure 7. There are two grease fittings in the auger shaft (figure 6). Wipe fittings clean and apply two or three shots of grease. Also, use grease on other points shown.

Generally, all moving metal parts should be oiled where contact is made with other parts. Keep oil and grease off belts and pulleys.

## CHECKING TIRE PRESSURE

The air pressure in each tire should be 20 psi (136 kPa) and should be equal for both tires for best performance. Be sure to keep caps on valves to prevent entry of moisture.

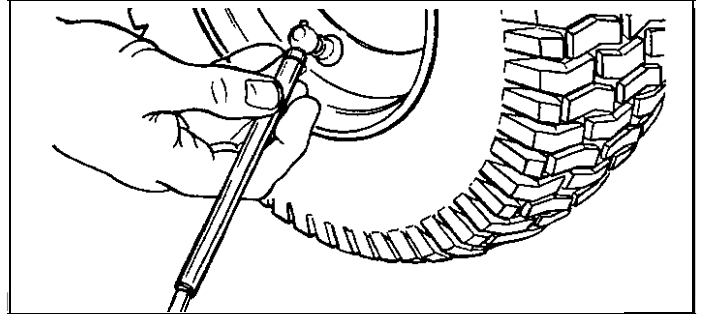


Figure 8. Checking Tire Pressure

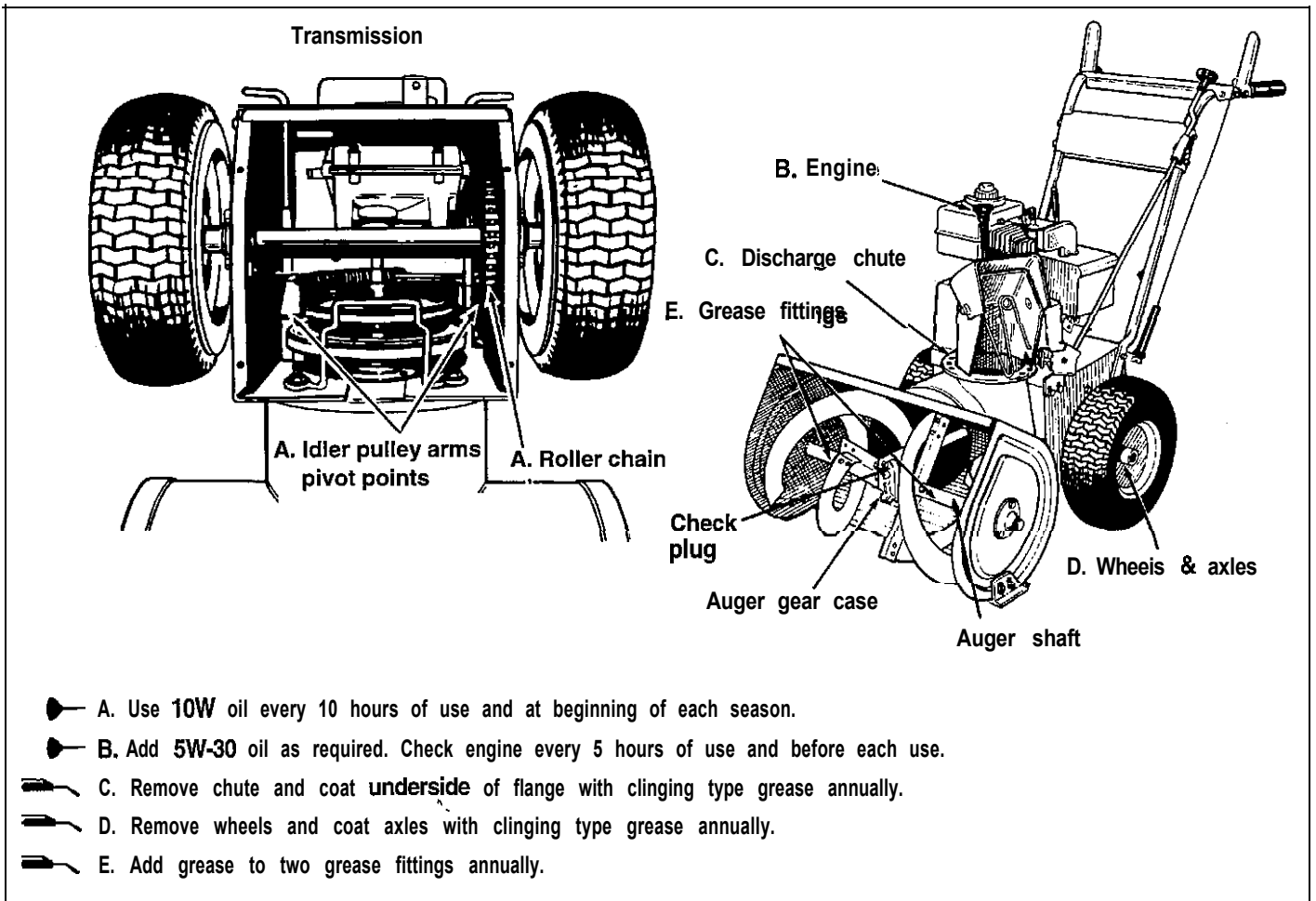


Figure 7. Lubrication Points

## **A WARNING**

**Before performing any adjustment or service to snowthrower, stop the engine and wait for moving parts to stop. Remove the key. To prevent accidental starting, disconnect the spark plug wire and fasten away from the plug.**

This section provides troubleshooting and service instructions. For problems not covered here, contact your dealer.

## **TROUBLESHOOTING**

Locate the problem and check the possible cause/remedy in the order listed. Also, refer to the engine manufacturer's Owner's Manual for other information. If problem cannot be remedied, see your dealer.

### **Engine fails to start.**

1. Key off. Push key in to the ON position.
2. Fuel valve closed. Turn valve to open position.
3. Out of fuel. Fill fuel tank.
4. Choke not on. Turn choke fully clockwise to ON position and set throttle up to FAST position.
5. Engine flooded. Move choke to counterclockwise to OFF position and try starting engine again.
6. Spark plug faulty, fouled or poorly gapped. Clean and gap or replace.
7. Water in fuel. Drain tank and refill with fresh fuel.
8. Old stale gas. Drain tank and refill with fresh fuel.

### **Engine starts hard or runs poorly.**

1. Fuel mixture too rich. Move choke to OFF position.
2. Carburetor adjusted incorrectly. See your dealer.
3. Spark plug faulty, fouled or poorly gapped. Clean and gap or replace.
4. Fuel cap vent blocked. Clear vent.

### **Auger does not rotate.**

1. Auger control clutch lever not engaged. Engage auger control lever.
2. Foreign matter blocking auger. STOP engine and REMOVE the key. DISCONNECT the spark plug wire. Clear auger using a narrow board. See warning in SAFETY RULES.
3. Auger drive belt slipping. Check auger drive belt adjustment.

4. Broken belt. Replace belt.
5. Shear pin broken. Replace pin.

### **Auger rotates, but snow not thrown far enough.**

1. Spout deflector too low. Adjust deflector as necessary.
2. Engine speed too slow. Set to full throttle.
3. Ground speed too fast. Use slower speed.
4. Snowthrower discharge spout clogged. STOP engine and REMOVE the key. DISCONNECT the spark plug wire. Clear auger using a narrow board. See warning in SAFETY RULES.

### **Scraper bar does not clean hard surface.**

1. Skid shoes improperly adjusted. Adjust.

### **Snowthrower picks up and throws stones on gravel drive.**

1. Skid shoes improperly adjusted. Adjust.

### **Poor traction.**

1. Tires slipping. Check tire pressure and tread.

### **Auger does not stop when auger lever is released.**

1. Auger drive belt out of adjustment. Adjust auger belt.

### **Snowthrower does not stop when drive lever is released.**

1. Unit drive belt out of adjustment. Adjust drive belt.

### **Snowthrower does not drive when drive lever is engaged.**

1. Drive belts loose, broken or stretched. Adjust or replace.
2. Drive roller chain damaged. Replace chain.

### **Discharge control is difficult to operate.**

1. Gears need lubrication. Oil as required.

### **Cannot shift into all speeds.**

1. See SHIFT CONTROL ADJUSTMENT.

### **Snowthrower veers to one side.**

1. Tire pressure not equal; should be 20 psi (136 kPa) each side.

### **Excessive vibration.**

1. Loose parts or damaged auger. STOP engine and REMOVE the key. DISCONNECT the spark plug wire. Tighten all hardware. Replace auger if necessary. If vibration continues, see your dealer.

## SHIFT CONTROL ADJUSTMENT

If any of the following conditions exist, it will be necessary to adjust the shift control.

- Snowthrower is not in neutral when shift lever is in NEUTRAL position.
- Reverse position cannot be fully reached.
- 3rd gear cannot be fully reached.

Adjust as follows:

1. Locate neutral position of shift lever by moving unit back and forth with traction lever engaged. Unit will move easily when in neutral.
2. Leave shift lever in position where neutral was obtained.
3. Loosen screws in shift control bracket (figure 9) at rear of snowthrower.
4. Slide shift control bracket left or right until shift lever is properly aligned in neutral position. Tighten screws in control bracket.
5. Check adjustment by moving lever to each position. Be sure to check to see that NEUTRAL is properly reached from both forward and reverse directions.
6. Check shift lever movement from reverse to 3rd and make sure lever does not contact handles. To adjust, loosen two screws indicated in figure 9, move lever slightly, then tighten the screws and check again.

## DRIVE BELTS

The snowthrower is equipped with two drive belts located just in front of the engine under the belt cover (figure 10). Figure 11 shows both belts and idler pulleys. The belt nearest the engine is the unit drive (wheels) belt. The belt farthest from the engine is the auger/impeller drive belt.

### **⚠ WARNING**

**Do not go near the discharge chute or auger when the engine is running. Do not run the engine with any cover or guard removed.**

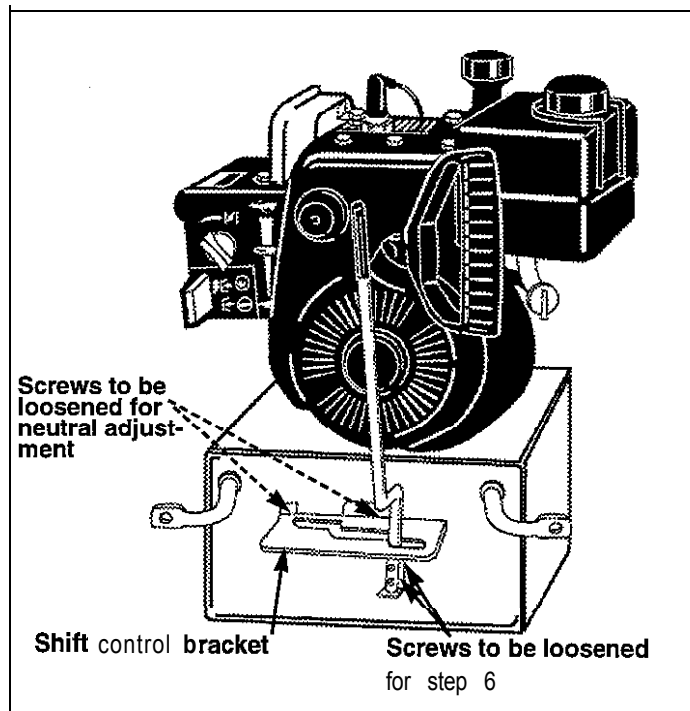


Figure 9. Shift Control Adjustment

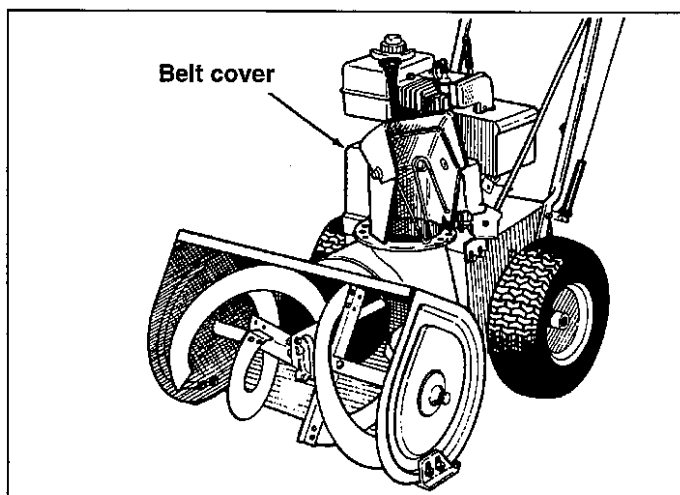


Figure 10. Drive Belt Cover

# Service

## Adjusting Drive Belts

If the auger or wheels slip under load, belts could be stretched or worn. Adjust as follows:

1. Remove the belt cover (figure 10). Determine which belt requires adjustment.
2. Loosen the locknut on the appropriate idler pulley and move the idler pulley  $1/4"$  toward the belt (figure 11). Tighten the locknut.
3. Re-install the belt cover.
4. Determine if additional adjustment is required by trying the unit. Repeat step 1 - 3 if necessary.

*NOTE: If auger or wheels continue to slip after adjusting the idler pulleys, the spring (figure 12) on either control rod might be stretched and worn and require replacement. Replace either the auger control rod spring or drive control rod spring as necessary, then repeat steps 1 - 4.*

## Adjusting Belt Guides

Check **each** belt guide for proper clearance using the following procedure.

*NOTE: Belt guides on 7 HP mode/s are slightly different than shown, but adjustment is the same.*

1. Remove the belt cover (figure 10).
2. Have someone hold both the auger and drive clutch levers tight against the handgrips (figure 12).
3. Loosen the screw securing the belt guide (figure 11). Adjust the guide so it clears the belt by  $1/16"$  -  $1/8"$ . The clearance should be equal on both side of the pulley. Tighten the screw securely.

*NOTE: When adjusting the right belt guide, make sure guide does not contact the pulley hub.*

4. Re-install the belt cover.

## Replacing Drive Belts

The drive belts on this snowthrower are of special construction and should be replaced with original equipment belts available from your dealer. See COMMON REPLACEMENT PARTS at the back of this manual for part numbers.

Use the following procedure to replace either drive belt.

1. Remove gas from fuel tank and run engine until it stops running from lack of fuel.
2. Disconnect spark plug wire and fasten it away from the spark plug.
3. Remove belt cover (figure 10).

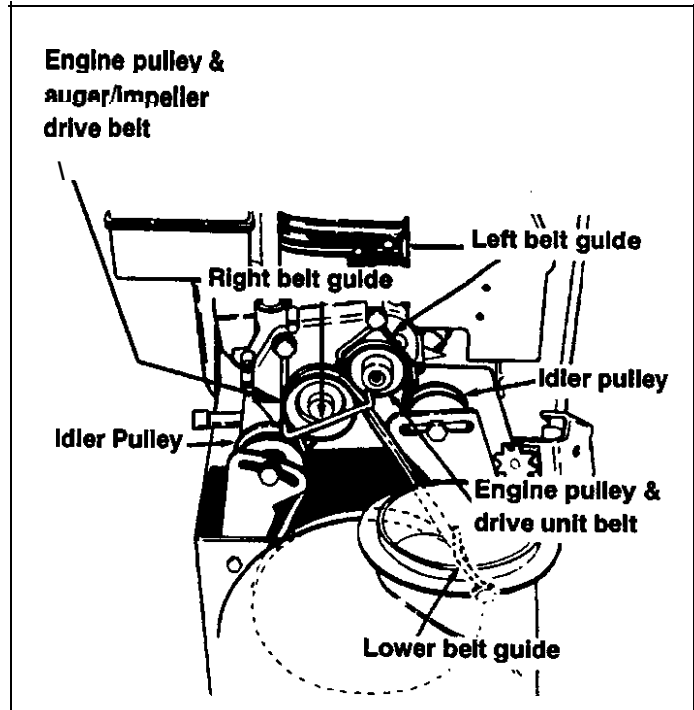


Figure 11. Drive Belts and Pulleys - Belt Cover Off



Figure 12. Drive Control Spring

4. Loosen the screw securing the belt guide (figure 11). Pivot the belt guide as necessary and remove the drive belt from the pulley.
5. Stand the snowthrower up onto the auger end.



## **A CAUTION**

Place a block (approximately 4" high) under front edge of auger housing or snowthrower will not stand on end.

6. See figure 13. Loosen nuts holding lower belt guard and slide guard away from belt.
7. Remove belt from between large pulleys.
13. Slide new belt onto pulley and position lower belt guard to within 1/16" - 1/8" of large drive pulley. Tighten nuts securing lower belt guard.
9. Return snowthrower to upright operating position.
10. Place new belt onto engine pulley.
11. Adjust guides as described under ADJUSTING BELT GUIDES.
12. Install belt cover.
13. Connect spark plug wire and fill fuel tank.

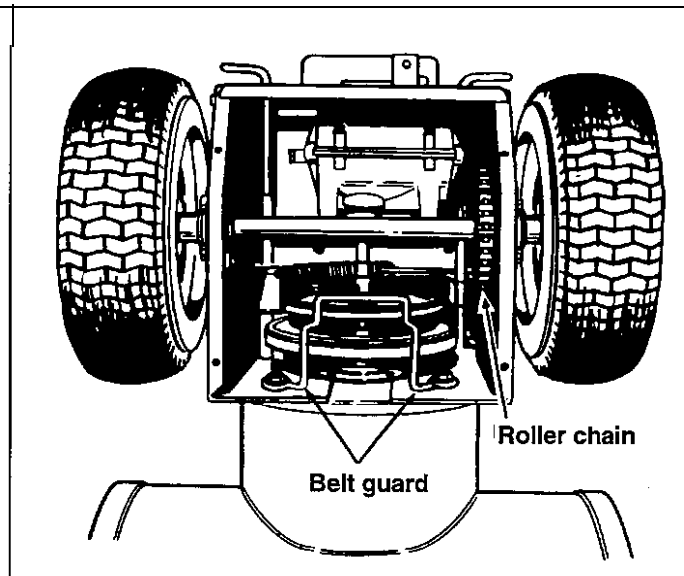


Figure 13. Lower Belt Guard

## ROLLER CHAIN REPLACEMENT

1. Remove gas from fuel tank and run engine until it stops running from lack of fuel.
2. Disconnect spark plug wire and fasten it away from the spark plug.
3. Stand the snowthrower up onto the auger end.

## **A CAUTION**

Place a block (approximately 4" high) under front edge of auger housing or snowthrower will not stand on end.

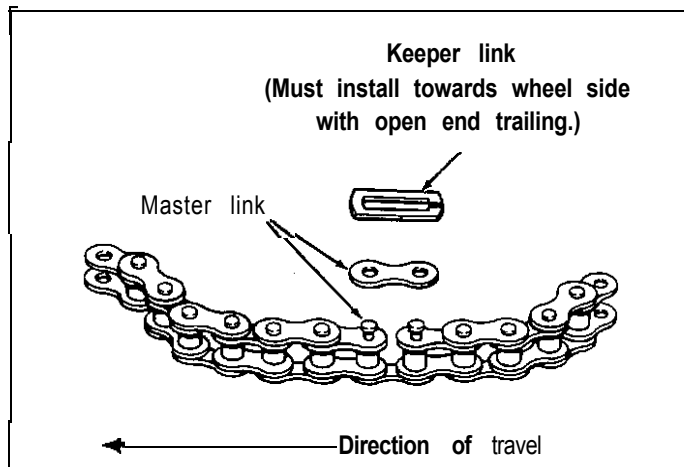


Figure 14. Roller Chain Master Link

4. Rotate the wheel (figure 13) to locate the roller chain master link (figure 14).
5. Remove the keeper link, master link and chain.
6. Install new chain and keeper link as shown in figure 14.
7. Return snowthrower to upright operating position.
8. Connect spark plug wire and fill fuel tank.

## SHEAR PIN REPLACEMENT,

If the auger strikes an object which could cause damage to the unit, the shear pin will break. This protects the gear box and other parts from damage. The shear pins are shown in figure 15. To replace, install a new shear pin and cotter pin. Spread the legs of the new cotter pin fully. Do not replace shear pins with bolts, screws or a harder shear pin.

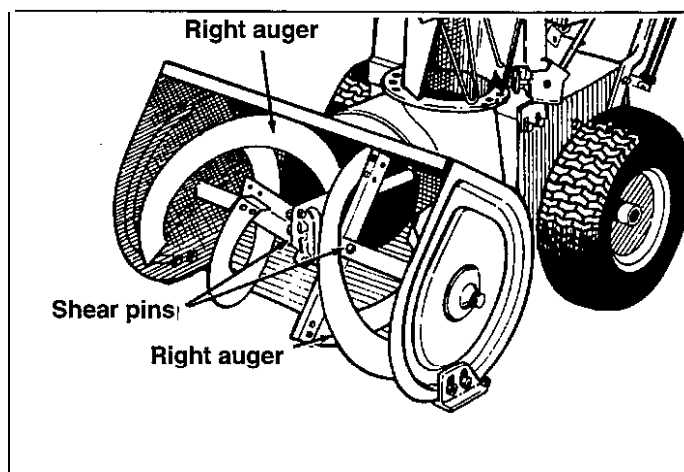


Figure 15. Shear Pin Replacement

# Service

## WHEEL AXLE BEARING REPLACEMENT

After approximately 100 hours of use (about 5 years), or if drive chain jumps off sprockets, wheel axle bearings may need to be replaced.

1. Disconnect spark plug wire and fasten it away from the spark plug.
2. Place a block under the snowthrower so the wheels are just off the ground.
3. See figure 16. Remove the ring pin and wheel from each axle.
4. Slide off the washers and long spacer.

### **A** CAUTION

Note the number and placement of washers used between wheel and long spacer, or between long spacer and bearing. An even number of washers must be used on each side of the shaft.

5. Pull bearing out of housing opening and off of the shaft.
6. Install new bearing by aligning bearing flat sides with flat sides in housing.
7. Install washers and long spacer.
8. Install wheel and ring pin.

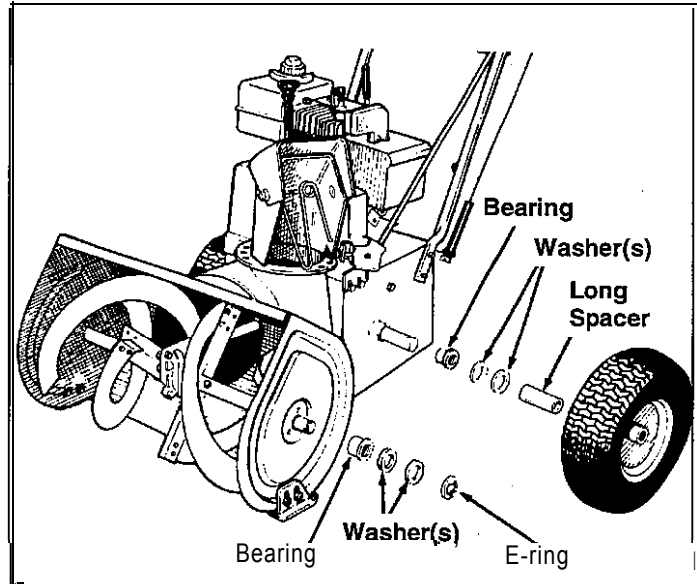


Figure 16. Wheel and Auger Bearings

## AUGER SHAFT BEARING REPLACEMENT

If auger shaft bearings need replacement, proceed as follows:

1. Pry off the E-ring (figure 16).
2. Remove the washers, then pull the bearing out of the housing and off the shaft.
3. Install new bearing by aligning bearing flat sides with flat sides in housing.
4. Install washers. Install a new E-ring securely in shaft groove.

# Specifications

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## ENGINE

Make ..... Tecumseh  
Cylinders..... 1  
Cycles..... 4  
Crankshaft ..... Horizontal

### 5HP

▪ Model No. .... See engine I.D. plate  
-Bore&Stroke..... 2-13/16 in. x 1-15/16 in.  
(71.44 mm X 49.23 mm)  
▪ Displacement..... 12.04 cu. in.  
(197.34 cc)

### 7HP

▪ Model No. .... See engine I.D. plate  
▪ Bore & Stroke ..... 2-3/4 in. x 2-17/32 in.  
(69.86 mm X 64.31 mm)  
▪ Displacement..... 15.04 cu. in.  
(246.5 cc)

Ignition ..... Magneto

Governor..... Mechanical

Choke ..... Manual

Lubrication..... Splash system

Oil Capacity ..... See engine manual

Fuel Capacity..... See engine manual

## DRIVE

Type ..... Gear drive transmission w/chain  
and speed selection

Speeds..... Three forward and one reverse

Axle..... Solid

Tire Inflation ..... 20 psi (136 kPa)

## AUGER HOUSING

Construction..... Welded steel stampings

Effective Width ..... 22 in. (55.88 cm)

Auger Opening Height  
with Extension..... 16.5 in. (42 cm)

Spout Rotation ..... 192°

Scraper Bar..... Wear resistant steel

Skid Shoes..... Adjustable, heat-treated steel

## AUGER

Construction..... Ribbon flite welded steel

Bearings..... Ultra high Molecular Weight Polyethylene

## IMPELLER

Construction..... 4 steel blades

Bearings..... Pre-lubricated and sealed ball bearing

Diameter..... 10 in. (25.4 cm)

## OVERALL DIMENSIONS & WEIGHT

Length ..... 51 in. (132 cm)

Width ..... 24 in. (60.96 cm)

Height ..... 43-1/2 in. (110 cm)

### Weight

▪ 5-55 ..... 158 lbs. (72 kg)

▪ 7-55 ..... 178 lbs. (80 kg)

SPECIFICATIONS ARE CORRECT AT TIME OF PRINTING AND ARE SUBJECT TO CHANGE WITHOUT NOTICE.
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# Replacement Parts & Accessories

## COMMON REPLACEMENT PARTS

Listed below are part numbers for the more common replacement parts. Use only genuine Simplicity replacement parts to assure optimum performance and safety.

- Special Worm Gear Oil for Auger Gear Case
- 8 oz. Container.. .1704636
  - Case of 8 oz. containers.. .1685406
- Simplicity Brand SAE 5W30 Cold Weather Engine Oil
- Case of 12 Qts.. .1685576
- Shear Pin, Auger .....1668344
- Cotter Pin (for shear pin) .....1918447
- Skid Shoes (set of 2) ..... 1685501
- Auger Drive Belt.. .....1674312
- Wheel Drive Belt - 5 HP ..... 1674308
- Wheel Drive Belt - 7 HP.. .....1678600
- Grease Gun Kit ..... 1685510
- 8 oz. Grease Tube.. .....103077
- Touch-Up Paint
- Deep Orange Spray Paint (13 oz. can) ..... .1685611
  - Deep Orange Paint (1 qt. can) ..... 1685612
  - Deep Orange Paint (1/2 oz. dauber) ..... .1685615
  - Gloss Black Spray Paint (13 oz. can). ..... .1685639
  - White Spray Paint (13 oz. can) ..... 103049

- Equipment Cleaner/Degreaser/Degrimer
- 32 oz. Spray Bottle ..... 1685619
  - 1 gallon bottle ..... 1685621
- Cleaner/Polish/Protectant
- 8 oz. bottle ..... 1685697
- Pneumatic Tire Seal - Stops & Prevents Leaks
- 11 oz. tube ..... 1685523
  - Case of 12 (11 oz. tubes) ..... 1685537
  - Case of 24 (11 oz. tubes) ..... 1685525

## ACCESSORIES

See your dealer to purchase any of the following accessories for your snowthrower.

### Light Kit

Light for late afternoon and early evening snowthrowing.

### Electric Start Kit (120V AC)

Offers operator the convenience of electric starting. Available for all models. Standard on some models.

### Drift Cutters

Part No.1685189. Helps break through drifts.

### Tire Chains

Increase traction on snowy surfaces (use with caution to avoid marking surfaces). Available for all models. Not for use with Snow Hog tires.

**USE ONLY GENUINE**  
**SIMPLICITY REPLACEMENT PARTS**  
 Available through your local  
 authorized **SIMPLICITY** dealer.

## TECHNICAL MANUAL AVAILABILITY

Parts and Repair Manuals are fully illustrated. All of the assemblies are shown in exploded views which show the relationship of the parts and how they go together. Important assembly notes and special torque values are included in the illustrations. Standard hardware and torque specification charts are also included.

For the manuals applicable for your model, contact the Simplicity Customer Publications Department at 414-284-8519. Have the following information available when phoning in your request.

**Model:** \_\_\_\_\_

**Mfg. No.:** \_\_\_\_\_

**Your Name:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**City, State, Zip:** \_\_\_\_\_

**Vise/Mastercard No.:** \_\_\_\_\_

**Card Expiration Date:** \_\_\_\_\_

