

**TORO**<sup>®</sup>

MODEL: 38232-1000001  
THRU 2000001 & UP

**OPERATOR'S  
MANUAL**

**TORO S200 SNOWTHROWER**  
(RECOIL)



# FOREWORD

The S200 is an outstanding product for throwing snow. It has advanced concepts in engineering, design and safety, and if maintained properly, the S200 will be reliable.

Since the S200 is a quality product, Toro is concerned about its future use and the safety of the user. Therefore, read this manual to familiarize yourself with correct set-up, operation, and maintenance. The five major sections of the manual are:

1. Safety Instructions
2. Setting Up Instructions
3. Preparation Before Starting
4. Operating Instructions
5. Maintenance

Some information in this manual needs emphasizing. The words CAUTION, IMPORTANT, and NOTE are used to classify the information. "Caution" identifies personal safety related information. "Important" identifies mechanical information demanding special attention. Be sure to read the directive because it has to do with the possibility of damaging a part or parts of the snowblower. "Note" identifies general information worthy of special attention.

If help — concerning the snowblower — is ever needed, contact the local Authorized TORO Service Dealer or TORO Distributor. Refer to the yellow pages for assistance. In addition to genuine TORO replacement parts, the dealer and distributor have other TORO products and many accessories for these products.

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# SAFETY INSTRUCTIONS



This safety alert symbol means CAUTION — PERSONAL SAFETY INSTRUCTION. Read the instruction because it has to do with safety. Failure to comply with the instruction may result in personal injury.

The snowblower is designed and tested to offer reasonably safe service, provided it is operated in strict accordance with the following Safety Instructions. Failure to comply with the following instructions MAY RESULT IN PERSONAL INJURY.

## BEFORE OPERATING

1. Never allow children, under the age of 16, to operate the snowblower. Adults should operate the snowblower only after READING THIS MANUAL and receiving proper instructions.
2. Familiarize yourself with the controls. Know how to stop the engine and disengage controls quickly.
3. Keep everyone, especially children and pets, away from the area of operation.
4. Wear adequate winter clothing and footwear that will improve footing on slippery surfaces.
5. Since fuel is highly flammable, handle it with care. Fill fuel tank with mixture of gasoline and oil before trying to start the engine.
  - A. Use an approved fuel container for storing the gasoline/oil mixture.
  - B. Fill fuel tank outdoors, not indoors. Fuel tank must not be filled when engine is running or when engine is hot.
  - C. Install gasoline container cap and fuel tank cap, and wipe up any spilled gasoline before starting the engine.
6. Thoroughly inspect the area where snowblower will be used. Remove all door mats, sleds, boards, wires, and any other foreign objects.
7. Keep all shields and safety devices in place. If a shield or safety device is defective, make all repairs before operating snowblower. Also tighten loose nuts, bolts, and screws.
8. Start engine and let it warm up outdoors for about two minutes to adjust to outdoor temperature before clearing snow.

## WHILE OPERATING

9. Never operate snowblower without good visibility or light. Always maintain secure footing and keep a firm grip on the handle when clearing snow; walk never run. DO NOT USE SNOWBLOWER ON A ROOF.
10. Do not run engine indoors.
11. Keep face, hands, feet, and any other part of your body or clothing away from concealed, moving, or rotating parts. Stay behind the handle while operating the snowblower. STAY CLEAR OF DISCHARGE OPENING AT ALL TIMES.
12. Do not attempt to make adjustments while engine is running.
13. Use extreme caution when clearing snow from a walk, road or a gravel drive. Push down on handle to raise skid and impeller blades so rocks are not picked up and thrown. Stay alert for hidden hazards and traffic on roads.
14. Never direct discharge or operate snowblower near bystanders, glass enclosures, automobiles and trucks, window wells, or a drop-off without proper adjustment of the snow discharge angle. Keep children and pets away.
15. Never direct snow discharge at bystanders, and do not allow anyone in front of the snowblower.
16. Never clear snow from steep slopes. Exercise extreme caution when changing direction on slopes.
17. Do not overload the snowblower by clearing snow at too fast a rate.
18. If a solid object is hit or if the snowblower vibrates abnormally, turn key to OFF and wait for engine and all moving parts to stop. Next, check snowblower for possible damage, an obstruction, or loose parts. Repair damage before starting and operating the snowblower.
19. Before leaving the operator's position — behind handle — shut engine off and wait for all moving parts to stop. Remove key from switch if snowblower will be left unattended.
20. Before adjusting, cleaning, repairing and inspecting the snowblower, and before unclogging the discharge guide, shut engine off and wait for all moving parts to stop.
21. Let engine run for a few minutes after clearing snow so moving parts do not freeze.

# SAFETY INSTRUCTIONS

## MAINTENANCE AND STORAGE

22. When storing the snowblower, REMOVE KEY FROM SWITCH. Store key in a memorable place.

23. Never leave fuel in the snowblower fuel tank when snowblower is stored in a building where there is flame or spark present. Allow engine to cool before storing. Never store snowblower in house or basement, as gasoline and fumes are highly flammable, explosive and dangerous if inhaled.

24. Before performing any maintenance or servicing the snowblower, turn key to OFF and wait for engine and all moving parts to stop. Remove key from switch.

25. Reinstall fuel cap when top cover is removed for maintenance procedures. Perform maintenance and use storage instructions described in this manual.

26. Keep all nuts, bolts, and screws tight to assure snowblower is in safe working condition. Be sure to check the rotor and engine mounting bolts.

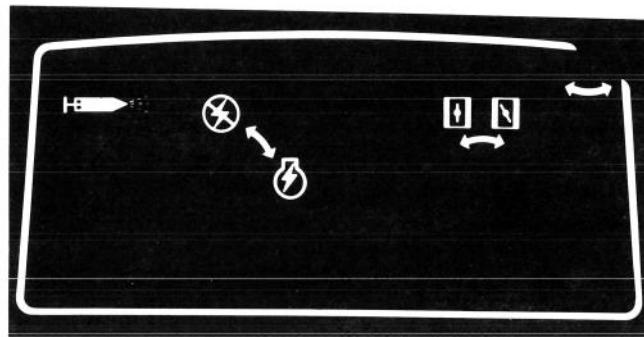
27. ALWAYS USE TORO REPLACEMENT PARTS AND ACCESSORIES TO ASSURE SAFETY AND OPTIMUM PERFORMANCE. NEVER USE "WILL-FIT" REPLACEMENT PARTS AND ACCESSORIES.



## SAFETY DECALS

Safety and instruction decals are located on the impeller housing and control panel. Replace any decal that is damaged.

### ON CONTROL PANEL



RECOIL START

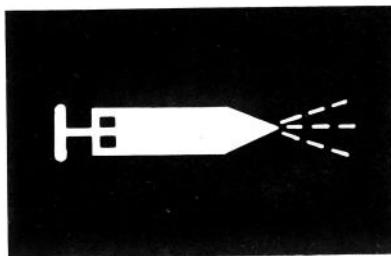


CHOKE  
OFF



CHOKE  
ON

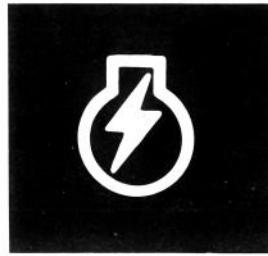
# SAFETY DECALS



PRIMER  
PUMP



ALL POWER  
OFF



IGNITION  
ON

## WARNING

DO NOT DIRECT DISCHARGE AT BYSTANDERS OR WINDOWS. KEEP HANDS OUT OF DISCHARGE GUIDE AND KEEP CLEAR OF IMPELLER WHILE ENGINE IS RUNNING.

## ACHTUNG!

BEI LAUFENDEM MOTOR KEINE EINSTELL- UND PFLEGE ARBEITEN AUSFÜHREN UND NICHT IN DEN BEREICH DER RÄUMSCHNECKE KOMMEN. AUSWURFOFFNUNG NICHT AUF PERSONEN, FAHRZEUGE, FENSTER, USW. RICHTEN. IM SCHNEE KÖNNEN FREMDKÖRPER LIEGEN.

## ATTENTION!

NE PAS DIRIGER L'ÉJECTION VERS DES PERSONNES OU DES FENETRES. NE PAS APPROCHER LES MAINS DE L'ÉJECTEUR ET DU TAMBOURVIS SANS FIN QUAND LE MOTEUR EST EN MARCHE.

## LOOSE PARTS

Note: Using care, remove snowblower and other parts from carton. Use chart below to assure all parts have been shipped.

Description	Qty.	Use
Wheel	2	Install wheels on axle.
Axle	1	Slide axle through mounting brackets.
Washer	2	Slide washers onto axle.
Push Nut	2	Use nuts to hold wheels on axle.
Upper Handle	1	Mount upper handle against outside of lower handle.
Machine Screw	4	Screws are used to mount upper handle.
Key	2	Use key in ignition switch.
Operator's Manual	1	Read operator's manual before operating snowblower.

# SETTING UP INSTRUCTIONS

**Note:** Stand behind the snowthrower and face forward to determine left and right sides.

## INSTALL WHEELS

Tools Required: Hammer

1. Install one push nut onto end of axle (Fig. 1) by placing nut on flat surface, inserting end of axle shaft and striking opposite end of shaft lightly with a hammer.

2. Slide wheel onto axle and against push nut (Fig. 1). Make sure hub side of wheel with six spokes is toward center of axle.

3. Slide flatwasher onto end of axle and against side of wheel hub (Fig. 1).

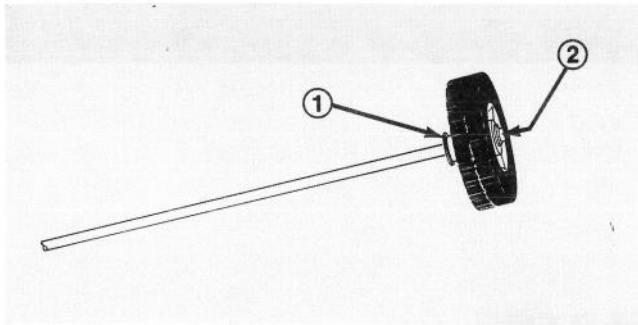


Figure 1

1. Flatwasher
2. Push nut

4. Slide axle through both mounting brackets (Fig. 2). Note position of flatwasher (Fig. 2).

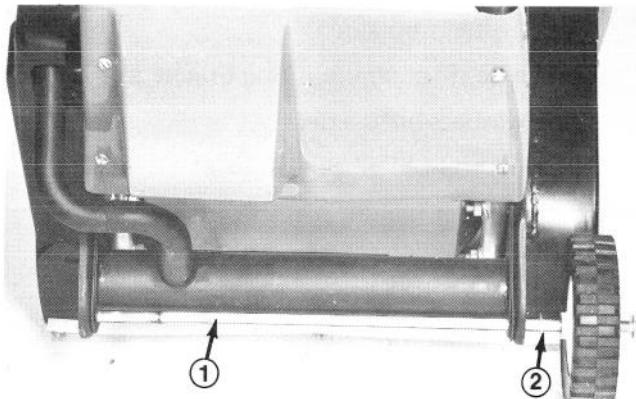


Figure 2

1. Axle
2. Washer

5. Tip snowthrower onto side that has wheel mounted; then put a wooden block under the wheel so push nut contacts block. Next, slide flat washer and wheel onto axle assuring that hub side of wheel is toward center of axle. Drive push nut onto end of axle to retain wheel in place.

## INSTALL UPPER HANDLE

Tools Required: Screwdriver

1. Set snowthrower upright on its wheels.

2. Slide upper handle down between lower handle and shroud (Fig. 3). Line up holes in shroud, upper handle, and lower handle (Fig. 3).



Figure 3

1. Upper handle
2. Line up holes
3. Lower handle

3. Secure both sides of handle in place with four machine screws (Fig. 4). Tighten screws securely.



Figure 4

1. Handle
2. Screws

## CONTROLS

1. Primer (Fig. 5) — Push primer to pump a small amount of fuel into the carburetor, which allows the engine to be started easier in cold temperatures. **DO NOT USE PRIMER WHEN ENGINE IS HOT.**
2. Choke (Fig. 5) — Rotate choke clockwise to start engine. Because air intake into carburetor is restricted, engine receives a rich fuel mixture for easy starting.
3. Ignition Switch (Fig. 5) — Switch has ON and OFF position. Rotate key to ON to open the switch; then engine can be started by pulling recoil starter. Rotate key to OFF to stop the engine.
4. Recoil Starter (Fig. 5) — Pull recoil starter to start the engine.
5. Vane Direction Control (Fig. 5) — Rotate vane control to direct discharge of snow to either side or straight forward.

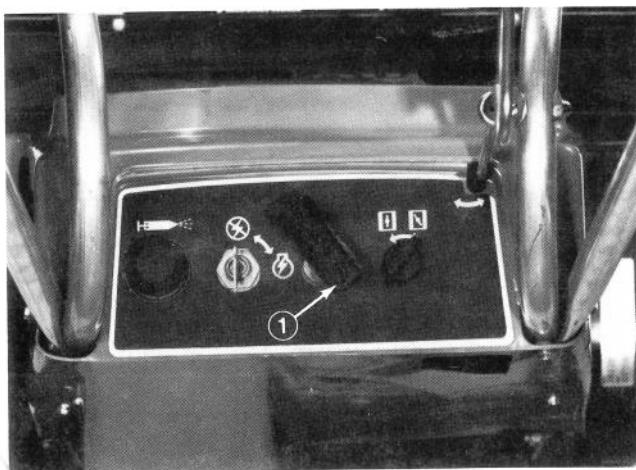


Figure 5  
1. *Recoil starter*



Recoil Start

# PREPARATION BEFORE STARTING



## CAUTION

Gasoline is flammable and caution must be used when handling or storing it. Do not fill fuel tank while snowblower is running, hot, or when snowblower is in an enclosed area. Keep away from open flame, electrical spark, and DO NOT SMOKE while mixing fuel or filling the fuel tank. Fill fuel tank to within 6.3 – 12.7 mm from top of tank to provide space for expansion of fuel. Never fill fuel tank to top of filler neck. Always fill fuel tank outdoors and use a funnel or spout to prevent spilling. Make sure to wipe up any spilled fuel before starting the engine.

Store gasoline in a clean, approved container, and keep the cap in place on the container. Keep gasoline in a cool, well ventilated place; never in the house. Never buy more than a 30 day supply of gasoline to assure volatility. Gasoline is intended to be used as a fuel for internal combustion engines; therefore, do not use gasoline for any other purpose. Since many children like the smell of gasoline, keep it out of their reach because the fumes are dangerous to inhale, as well as being explosive.

## MIX GASOLINE AND OIL

Tools Required: Gas Can, Funnel, and Clean Rag

The two cycle engine used in the S200 requires a mixture of GASOLINE and OIL for lubrication of bearings and other moving parts. The correct fuel mixture ratio is 32:1

**Note:** Gasoline and oil must be premixed in a clean gasoline container. Never mix gasoline and oil indoors or in the snowblower fuel tank. Always use fresh gasoline.

Store the oil indoors, so it will be at room temperature (above 10° C) and more readily mix with the gasoline.

**Note:** The Toro Company recommends the use of TORO 2 cycle engine oil for optimum performance and engine longevity. This oil has been specially formulated for use in the S-200 snowblower and may be obtained from your local TORO dealer.



## CAUTION

Do not store the oil near open flame or in an extremely warm environment as the oil is flammable.

1. Add 250 milliliters of leaded or unleaded REGULAR gasoline to a gasoline container (Fig. 6)..
2. Pour 32 milliliters of two cycle engine oil into the gasoline container (Fig. 6). DO NOT use multi-viscosity oils.
3. Shake the gasoline container vigorously so oil mixes with gasoline (Fig. 6). Remember to install cap on gasoline container before shaking.
4. Add an additional 750 milliliters of gasoline to the gasoline container (Fig. 6).

## LITERS

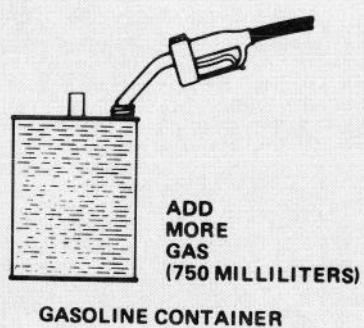
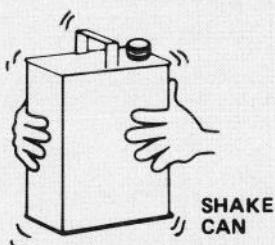
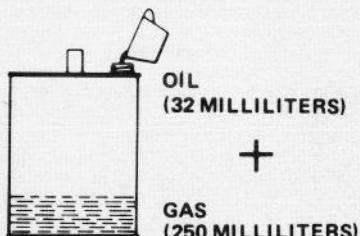


Figure 6

# PREPARATION BEFORE STARTING

## FILL FUEL TANK

Tools Required: Funnel and Clean Rag

**IMPORTANT:** Do not fill fuel tank with gasoline that does not have oil mixed in it. Do not use gasoline additives because the engine could be damaged.

1. Mix gasoline and oil; refer to Mix Gasoline and Oil, page 8.
2. Clean area around snowblower fuel tank cap

so foreign matter does not get into fuel tank. Remove cap from fuel tank.

3. Shake fuel mixture in gasoline container; then fill snowblower fuel tank to within 6.3–12.7 mm from the top of the tank, not the filler neck.

**Note:** When filling fuel tank with gasoline/oil mixture that has been sitting for some time, shake the mixture first because the oil may have settled.

4. Install cap securely on snowblower fuel tank.

# STARTING AND STOPPING INSTRUCTIONS

## TO START ENGINE:

1. Check the impeller and blades. There must not be an obstruction; impeller must be free to rotate.
2. Rotate choke clockwise (Fig. 7).

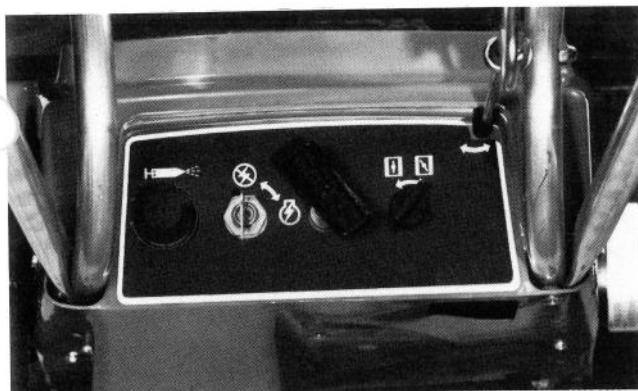


Figure 7

3. Put thumb on center of primer so hole is covered and sealed (Fig. 7). Depending upon temperature at which the machine is stored, push the primer one to four times. For temperatures above -7° C, use one or two primes; below -7° C, use three or four primes; for extremely cold temperatures below -23° C, use five to six primes.

**Note:** If engine is hot, do not use primer. Only use primer when engine is cold. However, rotate choke to start a hot engine.

4. Turn ignition key to ON (Fig. 7).
5. To start S200 Recoil Start, put one hand on the lower handle to steady the snowblower. Next grasp recoil starter handle (Fig. 7) and pull vigorously to start engine. If engine does not start after four pulls, prime engine again as described and pull recoil starter handle four more times. Repeat this procedure until engine starts.
6. When engine starts, rotate choke counter-clockwise.

If engine does not start, starts hard or operates erratically, a carburetor adjustment may be required: refer to Adjusting Carburetor, page 13. If engine will not start or runs erratically after adjustment, contact your local Authorized Toro Service Dealer.

## TO STOP ENGINE:

1. Turn ignition key to OFF (Fig. 7).
2. Wait for all moving parts to stop before leaving the operator's position – behind the handles.

# OPERATING INSTRUCTIONS

## ADJUSTING VANES

Rotate vane direction control (Fig. 8) to direct discharge of snow to either side or to the front. After clearing snow, rotate vane control so vanes are in vertical position, not to either side. If vanes are allowed to remain in a side position, the vanes may distort and take a somewhat permanent set. The set affects the normal and efficient discharge of snow.

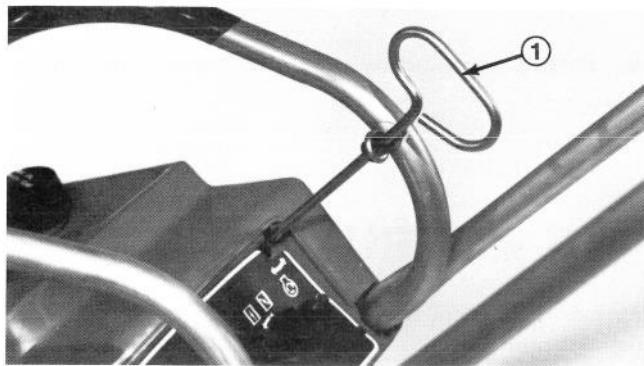


Figure 8  
1. Vane control

## OPERATING TIPS

1. Use only a 32:1 gasoline/oil mixture ratio for running the engine.
2. The snowblower is designed to operate at temperatures not to exceed +45° F (7° C). When unit is operated in temperatures above +45° F (7° C), engine may overheat.
3. Thoroughly inspect area where snowblower will be used. Remove door mats, sleds, toys, boards, wires, and anything else that may have been covered by the snow. While clearing snow, objects such as the preceding ones could be picked up and thrown by the impeller blades.
4. For most efficient snow throwing, keep vanes vertical, discharge snow downwind, and overlap each swath slightly (Fig. 9).



Figure 9  
1. Overlap in heavy snow

5. When clearing snow from steps or cutting through deep drifts, hold snowblower by the upper and lower handles and use a sweeping side to side motion (Fig. 10).

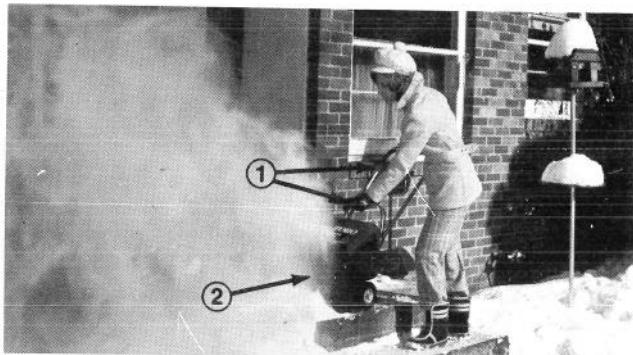


Figure 10

1. Hold both handles
2. Use swinging or sweeping motion



## CAUTION

Use caution when operating snowblower as exhaust tube is hot and could cause damage to clothing or personal injury.

6. The snowblower will self propel itself when it is tilted forward so impeller blades contact the ground. However, the depth and weight of the snow govern the forward speed of the snowblower.
7. Before storing the snowblower, let engine run for a few minutes so ice does not form on moving parts. Wipe ice and snow off control panel and top of upper shroud so control linkages do not freeze.
8. Move vanes to vertical position when storing snowblower. Hang snowblower by upper handle for convenient storage (Fig. 11).



Figure 11

# MAINTENANCE



## CAUTION

To prevent accidental starting of the engine while performing maintenance, turn ignition key to OFF and remove it from switch.

## LUBRICATING SNOWTHROWER

Tools Required: None

The snowthrower does not have to be lubricated because all bearings are lubricated for the life of the product; therefore no other lubrication is required.

## REPLACING NYLON SCRAPER

Tools Required: 3/8 Inch Wrench

1. If fuel tank is not empty, drain fuel from tank.
2. Tip snowthrower on its right side.
3. Remove three locknuts and carriage bolts holding scraper against bottom of impeller housing (Fig. 12).

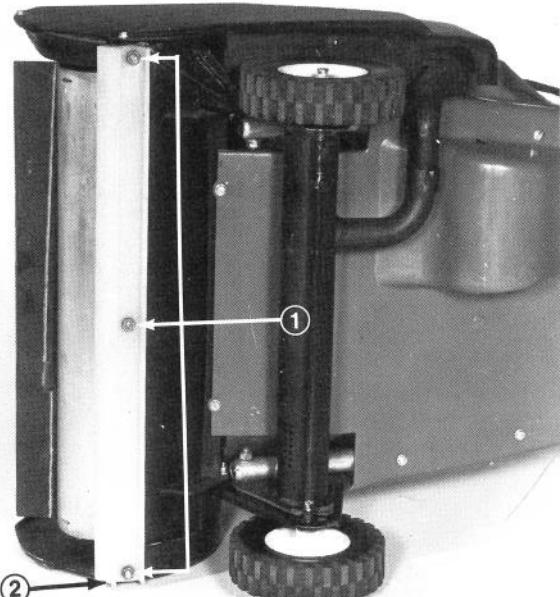


Figure 12

1. Locknuts and carriage bolts
2. Scraper

4. Install new scraper with three carriage bolts and locknuts (Fig. 12).

## REPLACING DRIVE BELT

Tools Required: 7/16 Wrench, 5/16-Inch Wrench and 3/8-Inch Wrench

The belt that drives the impeller is tensioned by a spring loaded idler pulley which compensates for belt wear. However, after many hours of use, the belt may be worn severely, causing the impeller to slip. If impeller slips, check and replace the belt if it is worn.

1. Turn key to OFF; then remove it from switch.
2. Remove washer faced capscrew, four screws, and locknuts holding drive cover in place (Fig. 13). Remove cover and set it aside.

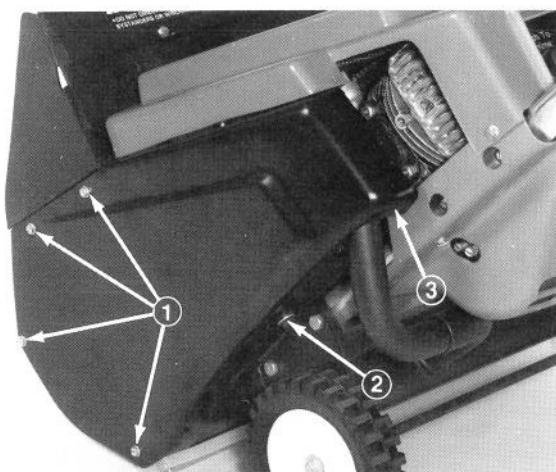


Figure 13

1. Screws
2. Washer faced capscrew
3. Cover

3. Move idler pulley up and pull drive belt out (Fig. 14) so it is free; then allow spring loaded idler to release, but do not let idler pulley snap.

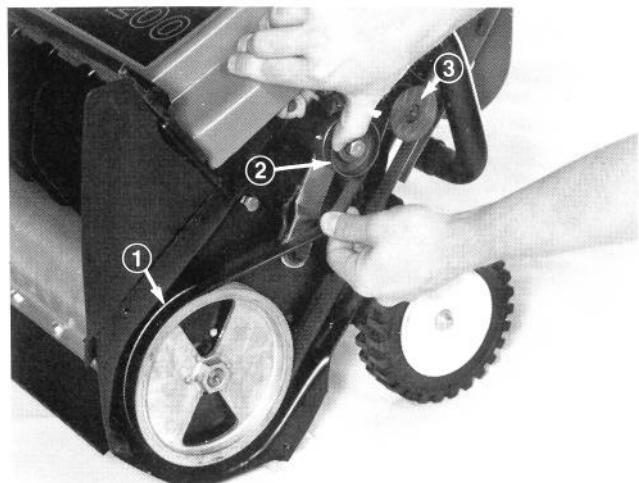


Figure 14

1. Impeller pulley
2. Idler pulley
3. Engine pulley

# MAINTENANCE

4. Remove drive belt from impeller pulley and engine pulley (Fig. 14).

5. To install new belt, loop belt around engine pulley, under the idler pulley, and start the belt around the impeller pulley (Fig. 15).



Figure 15

1. Impeller pulley
2. Idler pulley
3. Engine pulley

6. Pull idler pulley up and rotate impeller pulley forward so belt rolls onto it (Fig. 16).



Figure 16

7. Install drive cover with washer face capscrew, four screws, and locknuts (Fig. 13).

## ADJUSTING CARBURETOR

Tools Required: Screwdriver

The carburetor has been adjusted at the factory, but an adjustment may be required to compensate for differences in fuel, temperature and altitude.

**IMPORTANT:** Do not close power adjusting screw too tight because the screw and seat will likely be damaged.

1. Power Adjusting Screw (Fig. 17) — Close screw by gently rotating it clockwise until a slight seating resistance is felt. Next, rotate power adjusting screw  $\frac{7}{8}$  of a turn counterclockwise.

**IMPORTANT:** Do not close idle adjusting screw too tight because the screw and seat will likely be damaged.

2. Idle Adjusting Screw (Fig. 17) — Close screw by gently rotating it clockwise until a slight seating resistance is felt. Next, rotate idle adjusting screw 1 full turn —  $360^\circ$  — counterclockwise.

**Note:** The setting for the power adjusting screw is approximate; however, this setting will allow engine to be started so carburetor can be fine tuned — steps 3-4.



Figure 17

1. Power Adjusting Screw
2. Idle Adjusting Screw

3. Start the engine and let it warm up for approximately 3 - 5 minutes. Do not adjust carburetor when engine is cold. Be sure to perform carburetor adjustments while at a temperature that will be the average outdoor temperature at which the machine will be used.

# MAINTENANCE



## CAUTION

Engine must be running so final adjustment of the carburetor can be performed. Stay away from rotor because it turns while engine is running. To guard against possible personal injury, keep hands, feet, and face away from concealed, moving, or rotating parts.

4. Power adjusting screw can be fine tuned only while engine is under load; that is, actually throwing snow. If engine does not produce enough power while throwing snow, cease snow throwing operation and rotate power adjusting screw counterclockwise — out — 1/8 turn at a time until enough power is produced. Repeat "loading" by throwing snow to confirm the adjustment.

**Note:** If engine smokes significantly, the carburetor setting is too rich. To correct this condition, rotate power adjusting screw clockwise.

## REPLACING SPARK PLUG

Tools Required: 13/16-Inch Spark Plug Socket, Spark Plug Gapping Tool, Clean Rag, and Screwdriver

Correct spark plug to use is a Champion RJ18Y or equivalent, and correct air gap is 0.889 mm. Since air gap between center and side electrodes of the spark plug increases gradually during normal engine operation, check condition of center and side electrodes after every 25 hours of engine operation. If electrodes are deteriorated or plug is fouled, install a new plug.

1. Remove three screws holding front of shroud to impeller housing (Fig. 18).

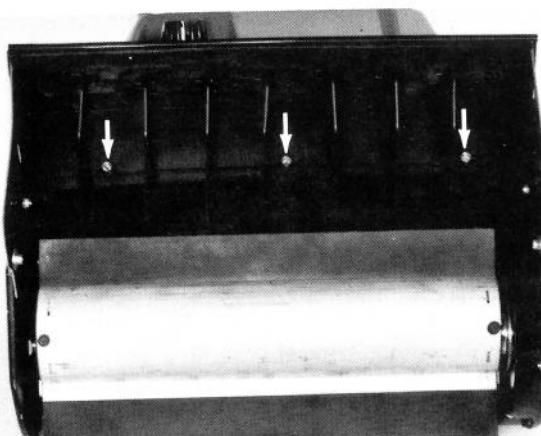


Figure 18

2. Remove cap from snowblower fuel tank (Fig. 19).

3. Remove two self tapping screws holding sides of upper shroud; then remove shroud (Fig. 19). Reinstall cap on snowblower fuel tank.

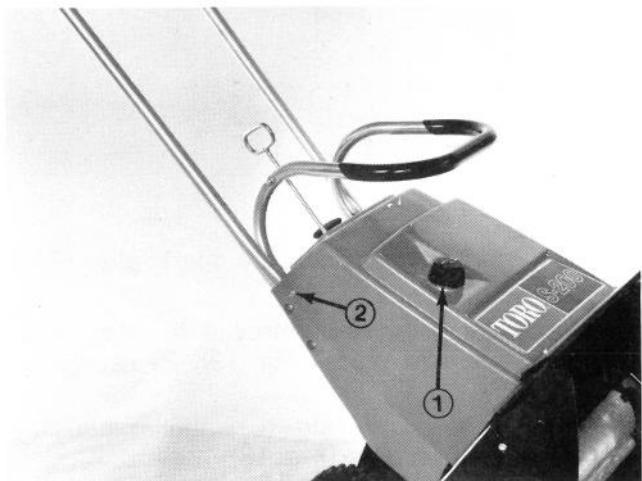


Figure 19

1. Remove cap
2. Shroud mount screw

4. Clean area around spark plug so foreign matter cannot fall into cylinder when plug is removed.

5. Pull high tension wire off spark plug and remove plug from cylinder head (Fig. 20).

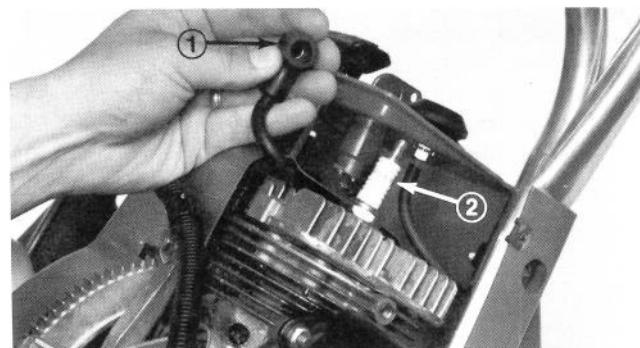


Figure 20

1. High tension wire
2. Spark plug

**IMPORTANT:** A cracked, fouled, or dirty spark plug must be replaced. Do not sandblast, scrape, or clean electrodes using a wire brush because grit may eventually release from the plug and fall into the cylinder. The result will likely be engine damage. Therefore if condition of plug is doubtful, install a new plug — step 6.

6. Set air gap between electrodes of new spark plug at 0.035 of an inch (0.889 mm) (Fig. 21). Install spark plug in cylinder head and tighten it to 15 ft-lb (20.4 N·m). If torque wrench is not used, tighten plug firmly.

# MAINTENANCE

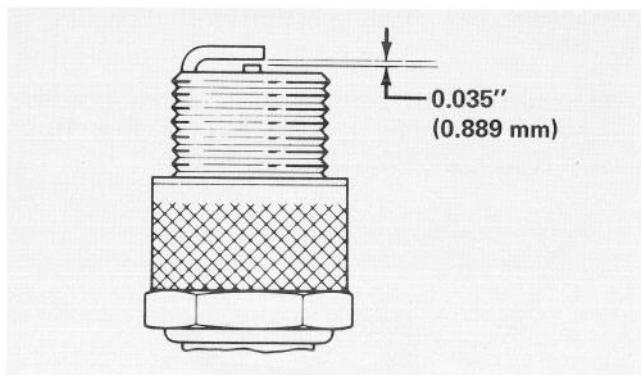


Figure 21

7. Push high tension wire onto spark plug (Fig. 20).
8. Remove cap from snowblower fuel tank and set upper shroud in place (Fig. 19). Reinstall cap on fuel tank.
9. Secure front of shroud to impeller housing with three 19 mm screws (Fig. 18).
10. Insert front panel into grooves of upper shroud. Secure sides of upper shroud with two 12.7 mm long self tapping screws (Fig. 19).

## PREPARING SNOWBLOWER FOR STORAGE



### CAUTION

Because gasoline/oil mixture in snowblower fuel is explosive, the fuel mixture must be drained outdoors, away from fire or flame. Do not smoke while draining gasoline. If fuel mixture explodes, personal injury may result.

1. Remove cap from snowblower fuel tank and tip snowblower upside down so fuel drains into a container. After fuel is drained, install cap on fuel tank. Wipe up any fuel that may have spilled.

2. Start the engine and let engine run until it stops because there is no fuel. When engine sputters, rotate choke clockwise so fuel in carburetor is expended.

**Note:** After fuel is drained from fuel tank, there may not be enough fuel in the fuel system to start the engine. Nevertheless, fuel must be expended to prevent gum-like varnish deposits from forming in carburetor, fuel line, and fuel tank. Such deposits, if allowed to form, will cause starting problems next snow season. Therefore, if engine will not start, pull recoil starter handle 5 - 10 times to expend all fuel in the system.

3. Remove spark plug from cylinder head: refer to Replacing Spark Plug, steps 1-5, page 14. Next, pour two teaspoons of engine oil into the spark plug hole in the cylinder head. Pull recoil starter slowly to distribute oil on inside of cylinder. Reinstall spark plug in cylinder head and tighten it to 15 ft-lb (20.4 N·m).

4. Clean impeller, impeller housing, and exterior of snowblower.

5. Tighten all screws and nuts. If any part is damaged, repair or replace it.

6. Store snowblower in a clean, dry place, and cover it to give protection. Never store snowblower in the house or basement.

## IDENTIFICATION AND ORDERING

### MODEL AND SERIAL NUMBERS

The snowblower has two identification numbers: a model number and a serial number. The two numbers are stamped on a decal (Fig. 22) which is located on right side of impeller housing, just ahead of the right wheel. In any correspondence concerning the snowblower, supply model and serial numbers to assure that correct information and replacement parts are obtained.

To order replacement parts from an Authorized TORO Service Dealer, supply the following information:

1. Model and serial numbers of the snowblower.

2. Part number, description, and quantity of part(s) desired.

**Note:** Do not order by reference number if a parts catalog is being used; use the PART NUMBER.

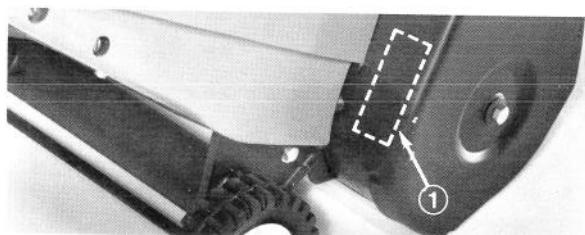


Figure 22

1. Model and serial number

## MAINTENANCE RECORD

