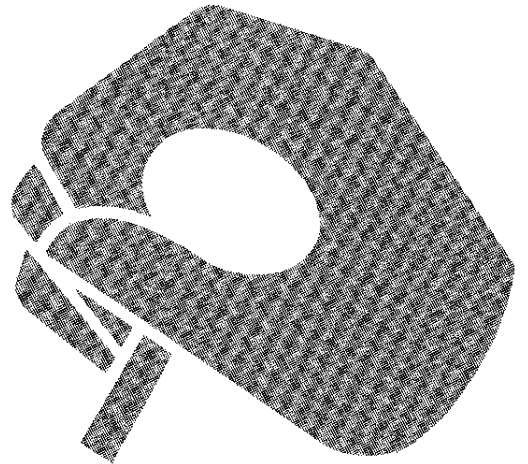


**520
Snow Blower**

**OPERATORS
MANUAL**



**John Deere Merchandise Division
OM-TY20850 Issue H6**

LITHO IN U.S.A.

Introduction

Thank you for purchasing a John Deere product.

Read this manual carefully to learn how to operate and service your machine correctly. Failure to do so could result in personal injury or equipment damage.

This manual should be considered a permanent part of your machine and should remain with the machine when you sell it.

Measurements in this manual are U.S. customary units and their metric equivalents.

Right-hand and left-hand sides are determined by facing in the direction of forward travel.

Write product identification numbers in the Specifications section. Accurately record all the numbers to help in tracing the machine should it be stolen. Your dealer also needs these numbers when you order parts. If this manual is kept on the machine, also file the identification numbers in a secure place off the machine.

Warranty is provided as part of John Deere's support program for customers who operate and maintain their equipment as described in this manual.

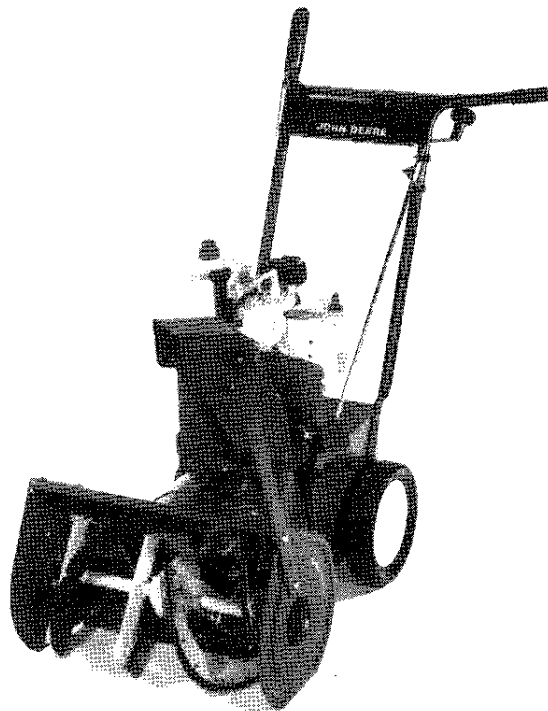
The warranty does not cover:

A—Products which have been altered or modified in ways not approved by John Deere, including setting fuel delivery above specifications or otherwise over-powering of products.

B—Depreciation or damage caused by normal wear, accident, lack of reasonable and necessary maintenance as specified in this manual, improper maintenance, improper protection in storage, or improper use or abuse.

C—Normal maintenance and replacement of service items such as filters, spark plugs, belts, brake linings, cutting blades and hoses unless such items are defective.

D—Transportation, mailing and service call charges for warranty service.



All information, illustrations and specification in this manual are based on the latest product information available at the time of publication. The right is reserved to make changes at any time without notice.

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Safety

RECOGNIZE SAFETY INFORMATION

This is the safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.



AB6;T81389 053;ALERT 071085

UNDERSTAND SIGNAL WORDS

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards.

Safety signs with signal word DANGER or WARNING are typically near specific hazards.

General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.



WARNING

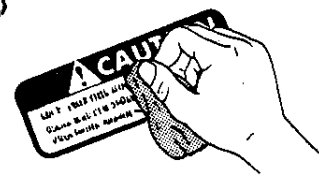
CAUTION

AB6;TS187 053;SIGNAL 071085

FOLLOW SAFETY INSTRUCTIONS

Carefully read all safety messages in this manual and on your machine safety signs. Follow recommended precautions and safe operating practices.

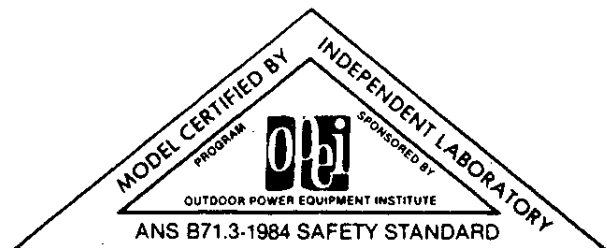
Keep safety signs in good condition. Replace missing or damaged safety signs.



AB6;TS188 053;SIGNS 071085

CERTIFICATION

This OPEI label shows that your model snowthrower has been certified by an independent laboratory for compliance with American National Standard B71.3—1984 "Safety Specifications for Snowthrowers."



AB6;M35974 053;CERT2 071085

Safety

 **CAUTION**

TO AVOID POSSIBLE INJURY:

Refer to Operator's Manual for safety and operating instructions.
Keep all shields in place.

BEFORE SERVICING OR UNCLOGGING MACHINE:

Disengage all power; stop engine and remove ignition key.
Be sure blower has stopped revolving.

Do not use hands to unclog chute.

Do not walk in front of machine or direct discharge at bystanders.

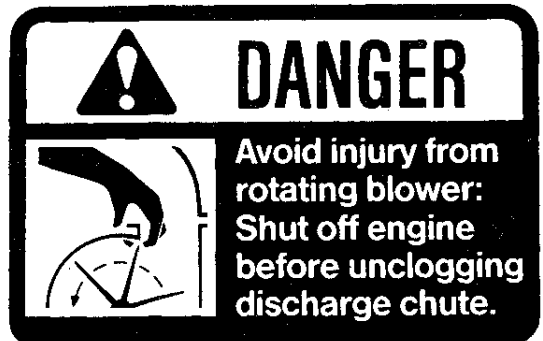
Location: Operator's Station

2A4;TY1352 6 Y05;;74SA A 050886



Location: Right Side of Auger Housing

2A4;TY1352 7 Y05;;74SA B 050886



Location: Blower Housing

2A4;TY1352 8 Y05;;74SA C 050886



Location: Top of Engine Control Case

2A4;TY1352 9 Y05;;74SA D 230786

LEARN MACHINE SAFETY

Carefully read this manual. Learn how to operate the machine and how to use the controls properly.

Do not let anyone operate this machine without proper instruction.

Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.



AB6;TS183 053;READ2 080785

PROTECT PEOPLE AND PETS

Keep people and pets out of the area where you are using the snow blower.

Do not let children operate the snow blower.

Never leave snow blower unattended while the engine is running. Always disengage auger/blower, stop the engine, and remove the key.



2A4;TYN036 Y05;74SA E 230786

INSPECT SNOW REMOVAL AREA

Remove all debris that may be picked up and thrown by the snow blower.

Clear the area of debris before it snows.



2A1;M34743 Y05;50SA G 220785

INSPECT SNOW BLOWER CAREFULLY

Inspect the snow blower carefully before you operate it.

Guards, shields, and chute must be in place.

Keep nuts, bolts, and screws tight.

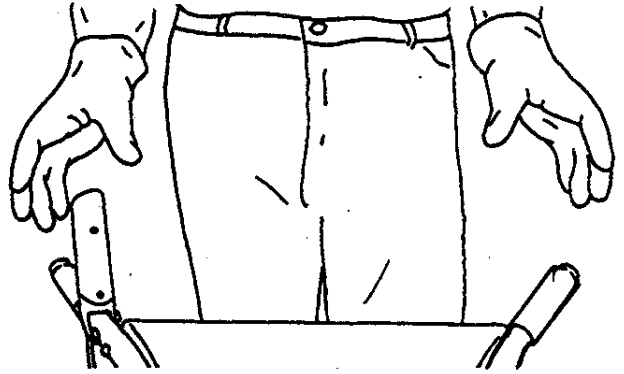
Check auger drive linkage often for loose or missing hardware. See Service section for proper adjustments.

Y05;74SA F 230786

OPERATE ENGINE SAFELY

Do not run engine in an enclosed area. Exhaust fumes contain carbon monoxide, an odorless, poisonous gas.

Disengage auger control lever before starting engine.



2A4;TYN034 Y05;;74SA H 230786

KEEP SURE FOOTING

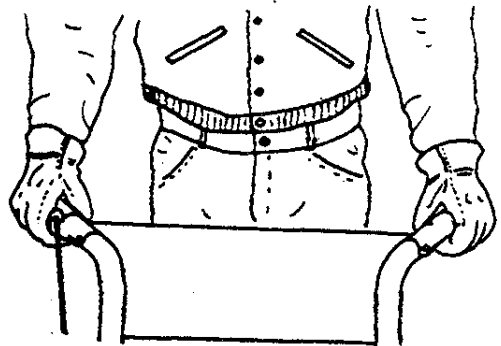
Be careful of your footing on slopes and slippery places. Slow down on slopes and in sharp turns to help prevent tipping or losing control.

Be very careful of your footing when you are backing up with the snow blower.

Keep a firm hold on hand grips. Walk—never run.

Do not operate near edge of a ditch or bank.

Keep away from drop-offs. Avoid holes, rocks and roots.



2A4;TYN035 Y05;;74SA I 300786

OPERATE SNOW BLOWER SAFELY

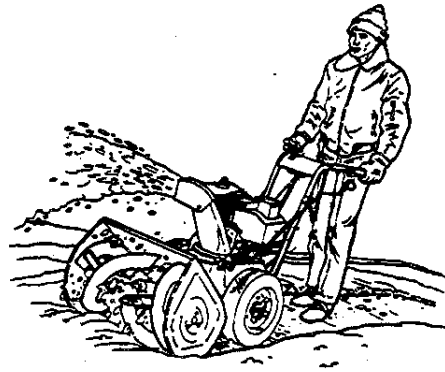
Stay alert for hidden hazards and traffic when operating near or on roads. Disengage auger before crossing gravel drives or roads.

Operate snow blower only in daylight or good artificial light.

Do not operate snow blower on a roof.

Direct snow discharge away from people, pets, glass enclosures, automobiles, windows, etc. Snow, ice, rocks, etc. may be thrown with enough force to cause personal injury or property damage.

Do not put hands or feet under or near auger or blower. This may cause great personal injury. Use pry bars to remove lodged items from auger and blower housings.



2A4;TYN037 Y05;;74SA J 300786

HANDLE FUEL SAFELY—AVOID FIRES

Handle fuel with care: it is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks.

Always stop engine before refueling machine. Fill fuel tank outdoors.

Prevent fires by keeping machine clean of accumulated trash, grease, and debris. Always clean up spilled fuel.



AB6;TS185 053;FIRE1 240785

USE CARE WITH ELECTRICAL CORD— ELECTRICAL START MODELS ONLY

The plug end of power cord is equipped with a third (ground) prong. Do not remove this prong. Be sure to plug electric start power cord into outlet that is properly grounded and that will accommodate a 3-prong plug.

Do not use an extension cord.

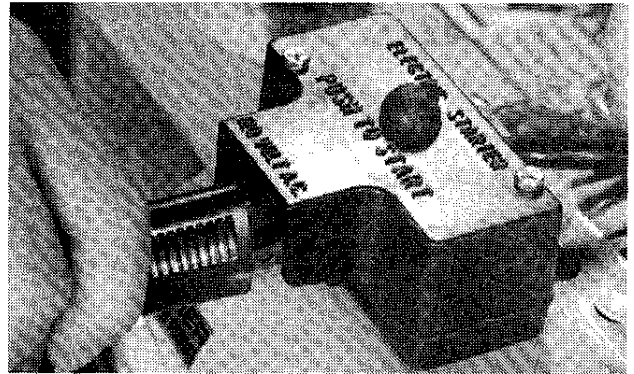
Connect power cord to snow blower switch box **BEFORE** plugging cord into electrical outlet.

Make certain power cord and connections are moisture free before making connections.

Disconnect power cord from electrical outlet **BEFORE** unplugging power cord from snow blower switch box.

Disconnect power cord from electrical outlet before refueling or servicing unit.

Replace damaged power cord immediately.



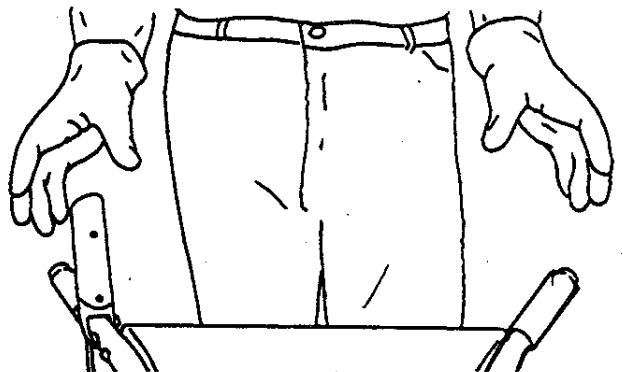
2A4;TYN033 Y05;74SA G 230786

CHECK CAUSE OF TROUBLE

Release auger control lever to stop auger in an emergency.

After striking a foreign object, stop engine and remove ignition key to help prevent accidental starting. Thoroughly inspect snow blower for damage. Repair damage before starting and operating snow blower.

If snow blower should start to vibrate abnormally, stop engine, remove ignition key and check immediately for the cause. Vibration is generally a signal of trouble.

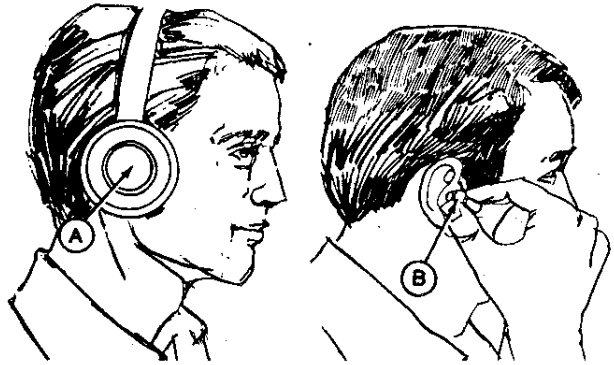


2A4;TYN034 Y05;74SA K 230786

PROTECT AGAINST NOISE

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as earmuffs (A) or earplugs (B) to protect against objectionable uncomfortable loud noises.



AB6;X7662 053;NOISE 150584

WEAR PROTECTIVE CLOTHING

Wear winter hat, coat, gloves and slip resistant footwear which will improve footing on slippery surfaces.

Do not wear long coats or loose scarfs that can become entangled in auger.



2A4;TYN037 Y05;;74SA L 230786

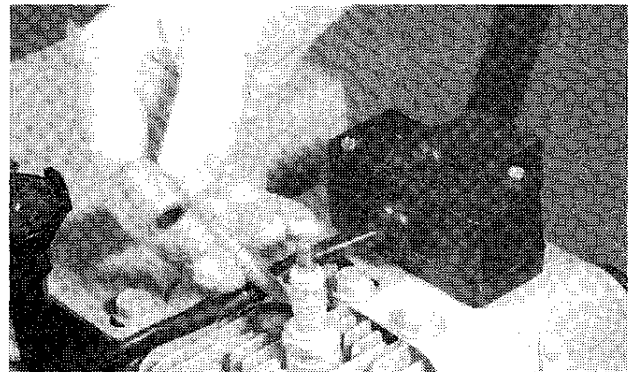
SERVICE SNOW BLOWER SAFELY

Stop engine, remove ignition key, and disconnect spark plug cable to help prevent accidental or unauthorized starting.

Allow auger and blower to come to a complete stop and allow engine to cool before servicing.

Wear hand and eye protection.

Keep engine clean. Remove snow, oil or dirt before starting engine.

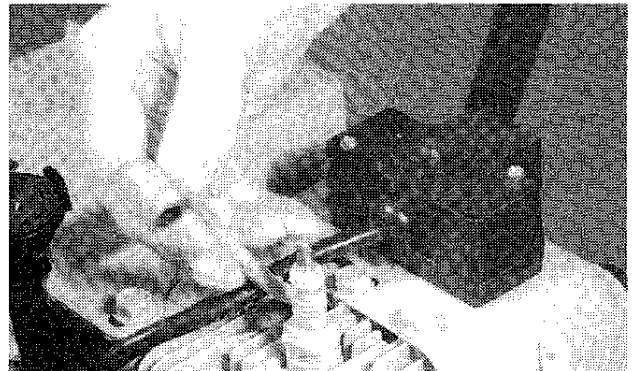


2A4;TYN038 Y05;;74SA M 230786

STORE SNOW BLOWER SAFELY

Before you leave the snow blower unattended.

1. Stop engine.
2. Disconnect spark plug wire.
3. Remove ignition key.
4. Turn fuel valve to the closed position.

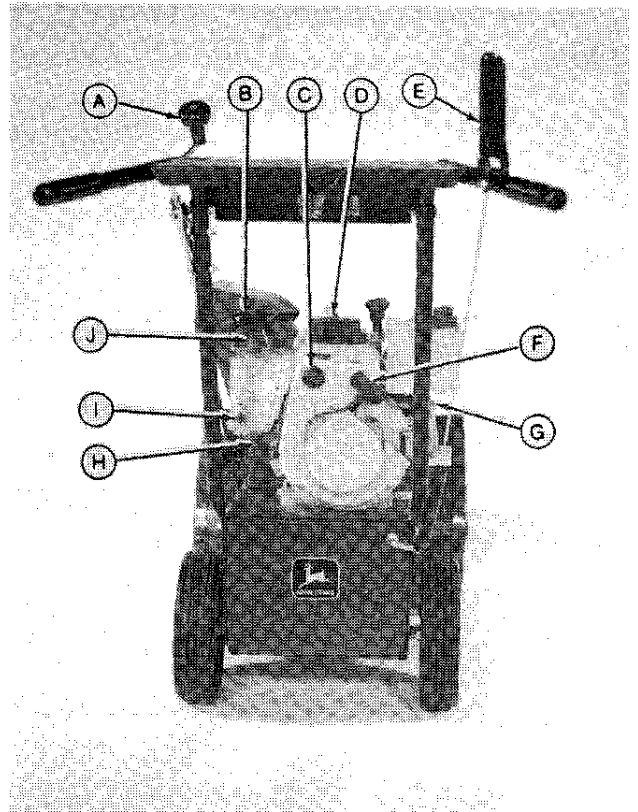


2A4;TYN038 Y05;;74SA N 230786

Controls

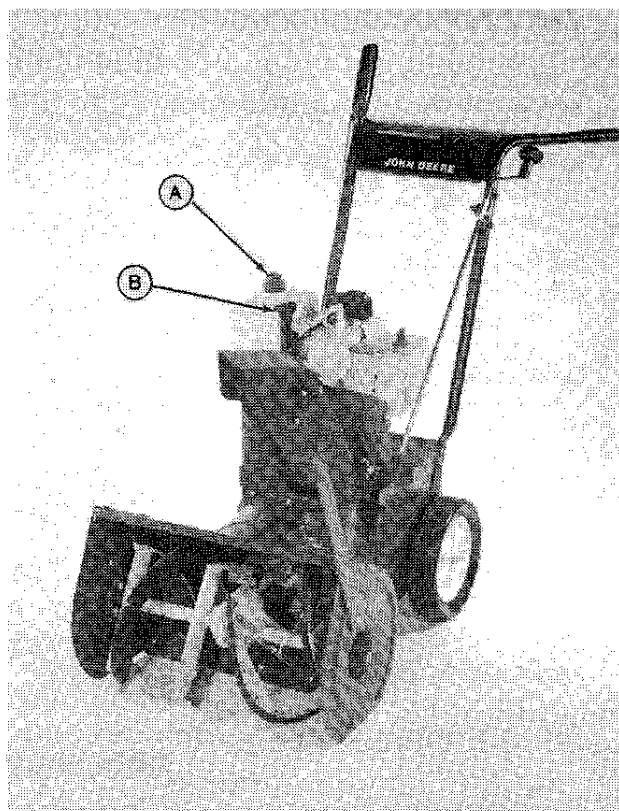
CONTROLS

- A—Chute Control
- B—Deflector Knob
- C—Primer Button
- D—Electric Start Switch (Accessory)
- E—Auger Control Lever
- F—Recoil Starter Handle
- G—Fuel Shut-Off Valve
- H—Throttle Control
- I—Ignition Control Switch
- J—Choke Control



2A4;TYN039 Y05;74CT A 230786

Prestarting Checks



Check	When	Reference	Section
A—Fuel Level	Daily	Fuel	Fuel and Lubricants
B—Oil Level	Daily	Checking Oil Level	Service/Daily
Inspect for loose or missing parts	Daily		
Check operation of controls	Daily		Operating Snow Blower
Inspect auger and blower housing for foreign objects	Daily	Cleaning Auger and Blower Housing	Operating Snow Blower

2A4;TYN040 Y05;;74PR A 230786

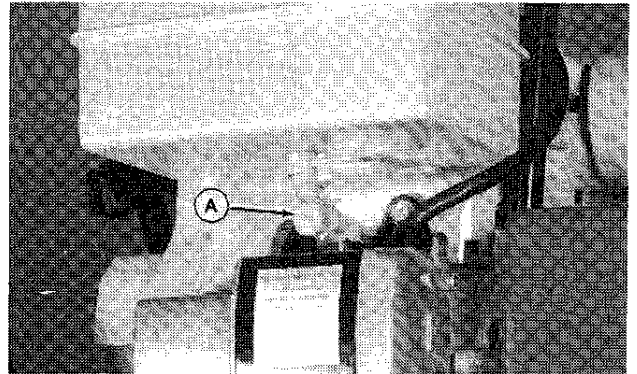
Operating the Engine

STARTING THE ENGINE—MANUAL START

⚠ CAUTION: Do not run engine in an enclosed area. Exhaust gas contains carbon monoxide, an odorless and poisonous gas.

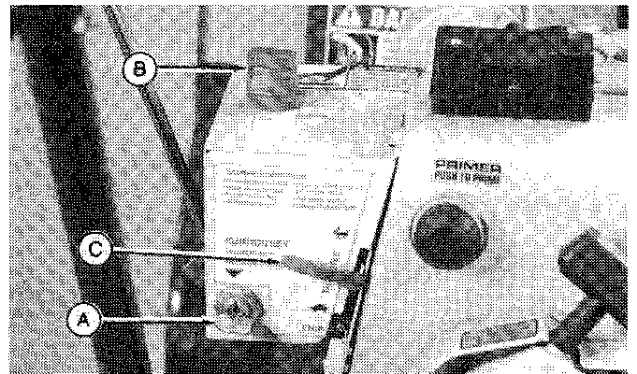
IMPORTANT: Before starting engine for first time, check oil and add if necessary as unit is usually shipped dry. (See Changing Engine Oil in Service/25 Hours.)

1. Make certain auger control lever is in “UP” disengaged position.
2. Turn fuel shut-off valve (A) counterclockwise to open.



2A4;TYN041 Y05;;740E A 300786

3. Insert key in ignition switch (A) and turn to RUN position.
4. Cold engine only: Turn choke knob (B) to FULL position.
5. Move throttle lever (C) to FAST position.



2A4;TYN042 Y05;;740E B 230786

Operating the Engine

IMPORTANT: Do not push or hold fuel primer bulb while cranking engine.

6. Push primer bulb (A) two or three times.

NOTE: If air temperature is below 15°F (–12°C), additional priming may be necessary.

IMPORTANT: If recoil starter is frozen and will not crank engine, proceed as follows:

—Pull as much rope out of starter as possible.

—Release starter handle and let it snap back against starter case.

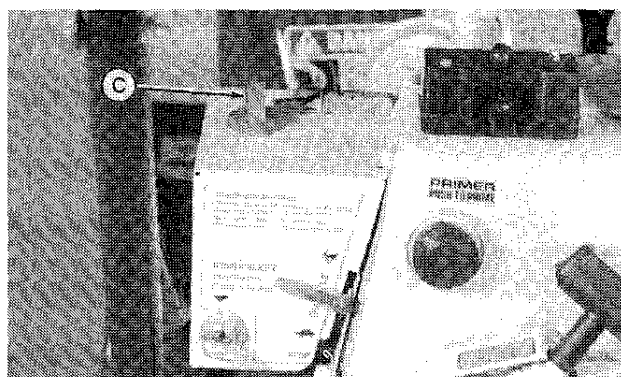
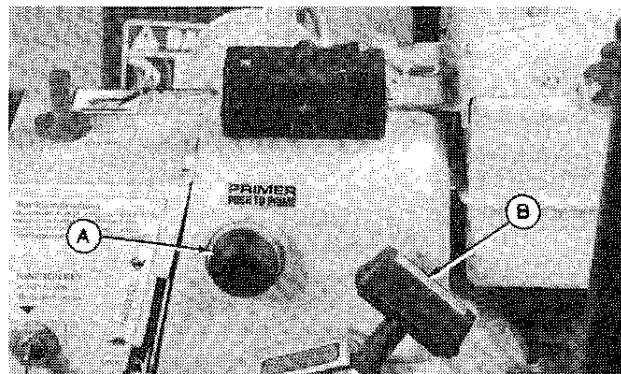
This procedure should only be used to free a frozen recoil starter.

7. Pull recoil starter handle (B) slowly until you feel resistance, then pull fast and steady. Do not allow handle to snap back, this may damage rope or recoil starter.

8. When engine starts, turn choke knob (C) slowly to OFF position. If engine falters, move choke knob immediately to FULL position and then gradually to OFF position.

9. If engine fires but does not start, do not “choke” engine, but pull starter handle (B) until engine starts.

10. Cold engine only: If engine fires but fails to start, repeat steps 4–8.



2A4;TYN045 TYN084 Y05;740E C 230786



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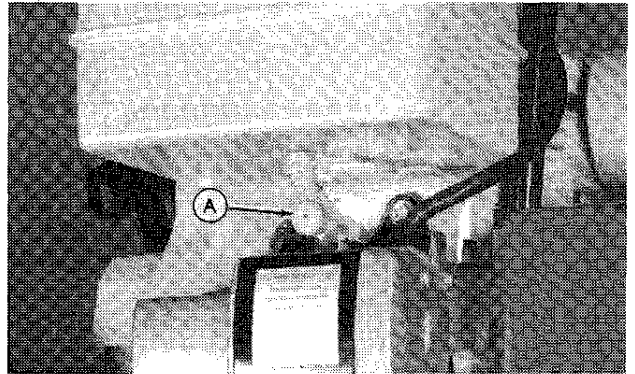
Thank you so much for reading

STARTING THE ENGINE—ELECTRIC START

CAUTION: Never start snow blower inside of building. Exhaust fumes contain carbon monoxide, an odorless and poisonous gas.

IMPORTANT: Before starting engine for first time, check oil and add if necessary as until is usually shipped dry. (See Changing Engine Oil in Service/25 Hours.)

1. Make certain auger control lever is in "UP" disengaged position.
2. Turn fuel shut-off valve (A) counterclockwise to open.



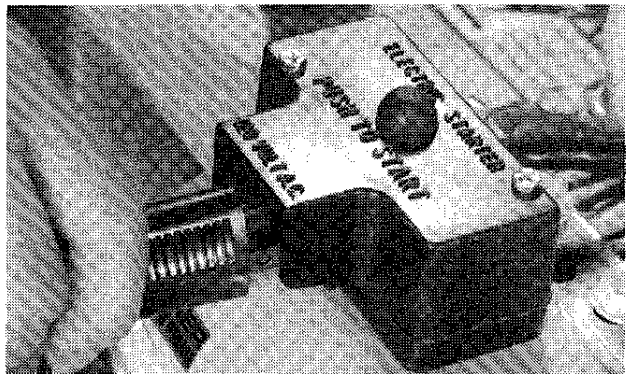
2A4;TYN041 Y05;;740E D 230786

CAUTION: If your house wiring system is not a three-wire grounded system, DO NOT use the electrical starter under any condition.

Use only a grounded (three-prong) cord to connect switch box to electrical outlet. Connect cord to engine switch box FIRST, then to electrical outlet. Disconnect power cord from electrical outlet BEFORE unplugging power cord from snow blower switch box.

IMPORTANT: Your house circuit should be protected by a 20-amp fuse. A smaller fuse may be too small. A larger fuse may burn out the snow blower starter motor if the rectifier should fail.

3. FIRST plug power cord into snow blower electric start switch box. THEN connect power cord to electrical outlet that is supplied with 120-volt, 60 Hz, alternating current.



2A4;TYN033 Y05;;740E E 230786

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