

# **TRS 21 Snowthrower**

**(Serial No. 170,001 –      )**

## **OPERATOR'S MANUAL**

**John Deere  
Lawn & Grounds Care Division  
OMM133615 F7**

**North American Version  
Litho in U.S.A  
English**



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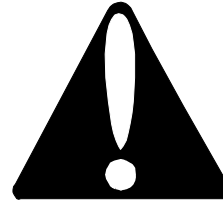
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# SAFETY SIGNS

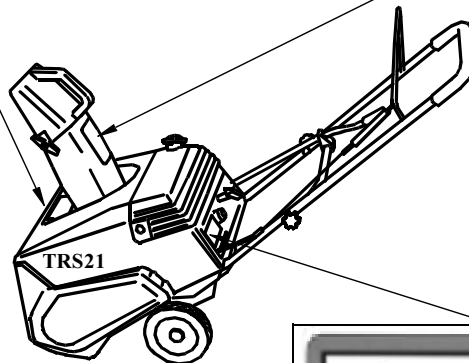
## Safety-Alert Symbol

Read and recognize safety information. Be alert to the potential for personal injury when you see this safety-alert symbol.

On your machine safety labels, the words DANGER, WARNING, and CAUTION are used with this safety-alert symbol. DANGER identifies the most serious hazards. In this manual, the word CAUTION and this symbol call attention to safety messages.



## Machine Safety Labels



M86441

# SAFETY SIGNS

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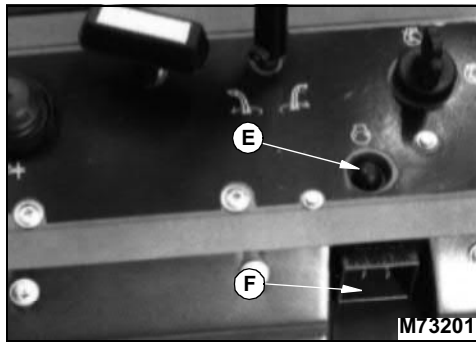
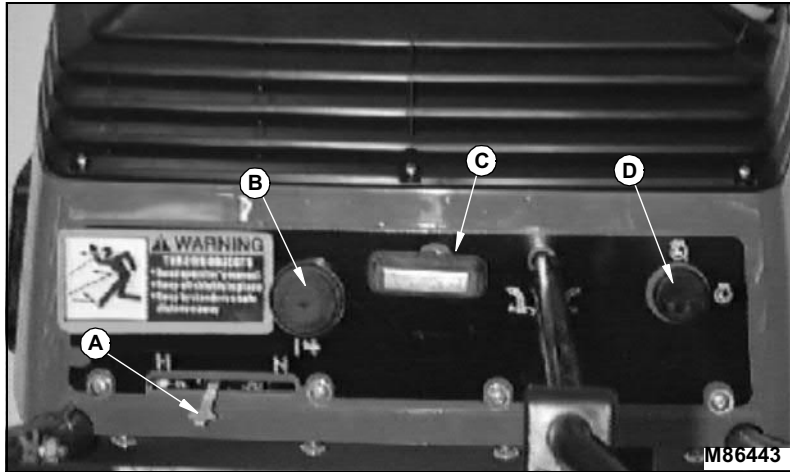
## Certification Labels

This OPEI label on your snow thrower indicates that this model has been certified by an independent laboratory for compliance with American National Standard B-71.3-1995, "Safety Specifications" for Snowthrowers.



# CONTROLS

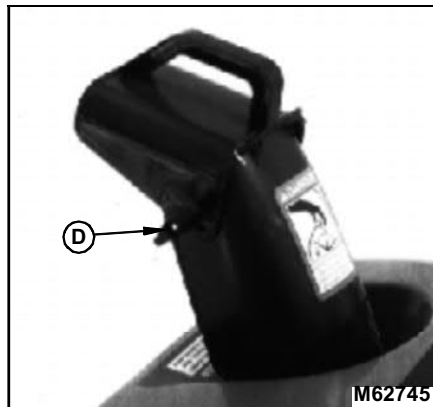
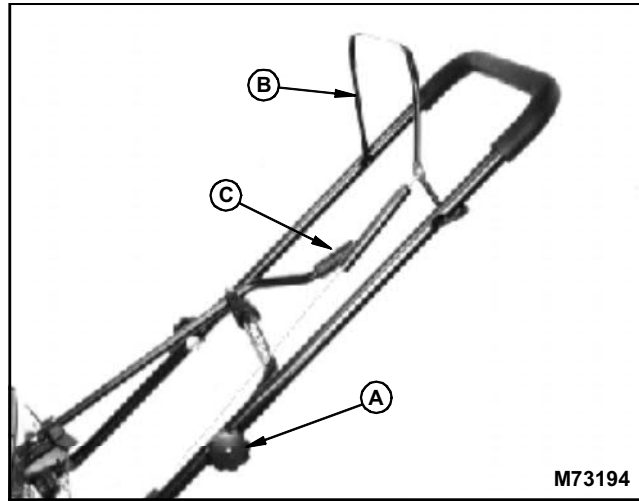
## Engine Controls



- A - Choke Lever .....Chokes engine for starting
- B - Primer Bulb .....Primes engine for starting
- C - Starter Handle ..... Pull to start engine
- D - Key Switch .....Sets engine to start
- E - Starter Button for Electric Start Model .....  
.....Push to start engine
- F - Power Cord Receptacle for Electric Start Model .....  
.....Insert plug for electrical start

# CONTROLS

## Handle and Spout Controls



- A - Handle Knobs .....Tightens handle assembly
- B - Auger Bail .....Engages auger
- C - Chute Crank.....Adjusts chute direction
- D - Spout Control Knob .....Adjusts spout direction

# OPERATING

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## SAFETY

### Operate Safely



- Inspect machine before you operate. Be sure hardware is tight. Repair or replace damaged, badly worn, or missing parts. Be sure all shields and guards are in good condition and fastened in place. Make any necessary adjustments before you operate.
- Clear work area of objects that might be thrown. Keep people and pets out of the work area. Keep children in the house when you are operating the snowthrower. Stop machine if anyone enters the area.
- If you hit an object, stop the machine and inspect it. Make repairs before you operate. Keep machine properly maintained, clean, and in good working order.
- DO NOT throw snow toward people, cars, or buildings.
- DO NOT use snowthrower on surfaces above ground level, such as, a roof of a building.
- Be extremely careful if you must clear snow from a gravel path. Be aware that snowthrower may pick up gravel in snow. Adjust spout angle carefully to throw this snow safely.
- DO NOT leave machine unattended when it is running.
- Only operate during daylight or with good artificial light.
- Be sure of footing. Operate slowly on slippery surfaces. Be especially careful when you pull machine backwards with the engine running. Avoid holes, rocks, roots, etc.
- DO NOT throw snow across a slope. Be very careful when you change direction on a slope. Do not try to clear snow from a steep slope. Keep away from edge of a ditch or bank.
- Keep a firm hold on the machine handles. Avoid sudden starts and stops.
- DO NOT run engine in a building unless there is good ventilation.

## OPERATING

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### **Rotating Blades are Dangerous - Protect Children and Prevent Accidents**



#### **PROTECT CHILDREN:**

- Never assume that children will remain where you last saw them. Stay alert to the presence of children.
- Keep children in the house when you are operating the machine.
- Turn machine off if a child enters the area.
- Use extra care when you come to blind corners, shrubs, trees, or other objects that may block your vision.
- DO NOT let children or an untrained person operate the machine.

#### **HELP PREVENT SERIOUS OR FATAL ACCIDENTS:**

- Be alert at all times, people especially children can move quickly into the area before you know it.
- DO NOT operate snowthrower if you are under the influence of drugs or alcohol.
- Keep hands, feet, and clothing away from discharge chute and auger.

### **Wear Appropriate Clothing**



- Wear close fitting clothing and safety equipment appropriate for the job.
- Wear eye protection.
- Loud noise can cause impairment or loss of hearing, wear a suitable protective device such as earplugs.
- Do not wear radio or music headphones while operating the machine. Safe operation requires your full attention.

# OPERATING

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## DAILY OPERATING CHECKLIST

- ✓ Check fuel level
- ✓ Check hardware
- ✓ Inspect snowthrower

### **Avoid Damage to Plastic and Painted Surfaces**

- Be careful not to spill fuel on the snowthrower. The fuel may damage surface. Wipe up spilled fuel immediately.

### **Snowthrowing Tips**

Clear snow immediately after it falls, if possible.

Overlap each swath slightly for complete snow removal.

Run engine at FAST speed for best snowthrower performance.

Throw snow down wind, if possible.

Wear eye protection.

For deep or wet snow:

- Let the snowthrower go at its own pace.
- If snow does not flow freely, stop or back up to clear the snowthrower.

After you finish snowthrowing:

- STOP the engine.
- Clean the snowthrower. Wipe it dry.
- Park and run the snowthrower a few minutes to help prevent moving parts from freezing.
- Do not leave the snowthrower unattended with the engine running.
- Do not cover the snowthrower if the engine is warm.

## OPERATING

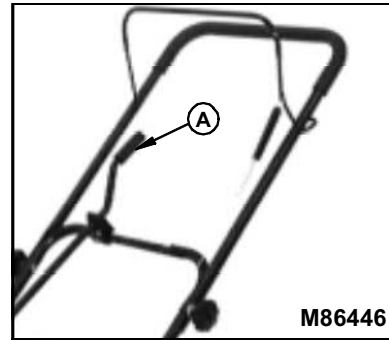
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### Adjusting the Chute

Turn the crank (A) to throw snow in the desired direction.

The chute will turn 90° to the left or right.



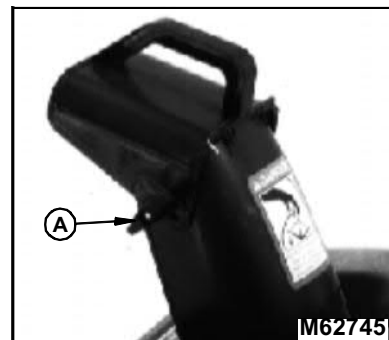
### Adjusting the Spout



**CAUTION:** DO NOT adjust the spout while the auger is ENGAGED.



1. Loosen the knob (A).
2. Move the spout to the desired position.
3. Tighten the knob.

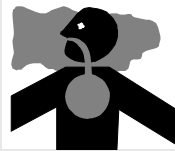


# OPERATING

## Manual Starting

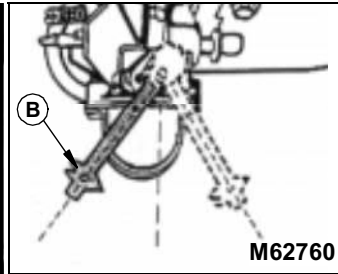
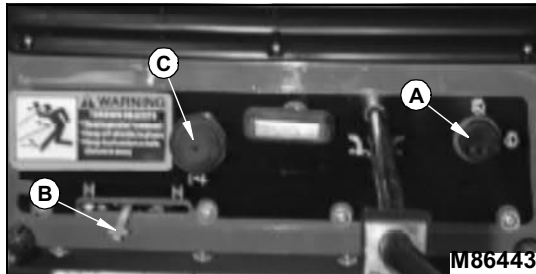


**CAUTION:** Engine exhaust fumes can cause sickness or death.  
**DO NOT** start the engine in an enclosed area.



**IMPORTANT:** For operation above 2134 m (7000 ft), install the High Altitude Carburetor Kit. See your John Deere dealer for this kit.

1. Turn the key to the ON position (A).
2. FOR A COLD ENGINE:  
Move the choke lever (B) to the CLOSED position.  
FOR A WARM ENGINE:  
Move the choke lever (B) to the OPEN position. **DO NOT** push the primer bulb.



**IMPORTANT:**

- Cover the vent hole with your finger when you push the primer bulb (C).
- To prevent flooding, **DO NOT** over prime.

3. For temperatures ABOVE -12° C (15° F): Push the bulb (C) twice.  
For temperatures BELOW -12° C (15° F): Push the bulb (C) four times.

## OPERATING

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**IMPORTANT:** •DO NOT jerk the handle (D) or let it snap back: you may damage the rope or starter.  
•To prevent flooding, DO NOT over prime.

4. Pull the starter handle (D) fast and steady.

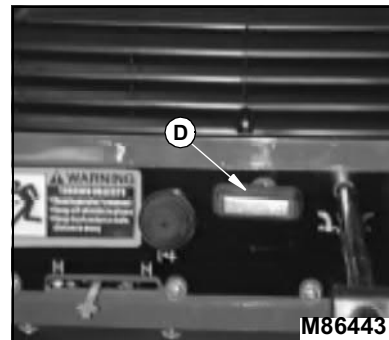
5. If the engine does not start: Push the primer bulb twice and pull the handle until the engine starts.

6. If the engine fires but does not run, do not choke it:

- Pull the handle until the engine starts.
- Repeat steps 2, 3 and 4 if necessary.

7. When the engine starts:

- Slowly move the choke lever to the OPEN position.
- Warm the engine briefly before you operate the snowthrower.
- The engine will run at FULL THROTTLE.



**NOTE:** To STOP the engine, turn the key to the OFF position.



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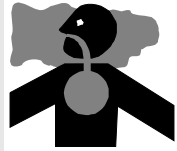
**Thank you so much for reading**

# OPERATING

## Electric Starting



**CAUTION:** Engine exhaust fumes can cause sickness or death. **DO NOT** start the engine in an enclosed area.



**IMPORTANT:** For operation above 2134 m (7000 ft), install the High Altitude Carburetor Kit. See your John Deere dealer for this kit.



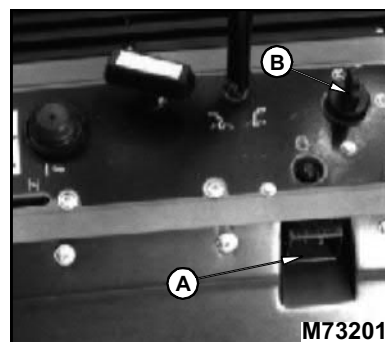
**CAUTION:** Power cord safety:

- Do not use an extension cord.
- **CHECK:** The snowthrower and house receptacles must be free of moisture before you plug in the cord.
- Disconnect the cord from both receptacles before you do **ANY SERVICE** on the snowthrower.
- Do not use a damaged cord. Replace it immediately.

**NOTE:** A snowthrower with electric start may also be started manually.

1. Plug the cord into the receptacle (A) **FIRST**, then into the house (120 volt AC) receptacle.

2. Turn the key to the ON position (B).



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