

**M160 Mower
For 1100 Series Tractors**

Operators Manual

9-22331



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Throughout this manual, the term IMPORTANT is used to indicate that failure to observe can cause damage to equipment. The terms CAUTION, WARNING and DANGER are used in conjunction with the Safety-Alert Symbol, (a triangle with an exclamation mark), to indicate the degree of hazard for items of personal safety.



The Safety-Alert Symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



CAUTION

Denotes a reminder of safety practices or directs attention to unsafe practices which could result in personal injury if proper precautions are not taken.



WARNING

Denotes a hazard exists which can result in injury or death if proper precautions are not taken.



DANGER

Denotes an extreme intrinsic hazard exists which would result in high probability of death or irreparable injury if proper precautions are not taken.

SPECS/GENERAL INFORMATION


SPECIFICATIONS

Cutting Width.....	60"
Cutting Height Range:	1-1/2" to 4"
Tractor Mid-PTO Speed.....	2,000 RPM
Blade RPM	2,800
Blade Tip Speed (feet per minute)	15,200
Blade Spindles	3
Number of Blades.....	3
Universal Drive	0600
Caster Wheels	4
Caster Size	3-1/4 x 6-1/4"
Mower Frame Thickness.....	8 GA Deck

GENERAL INFORMATION

The purpose of this manual is to assist the operator in maintaining and operating this mower. Read it carefully. It furnishes information and instructions that will help you achieve years of dependable performance. These operating and maintenance instructions have been compiled from extensive field experience and engineering data. Some information may be general in nature due to unknown and varying conditions. However, you should be able to develop operating procedures suitable to your particular situation.

The illustrations and data used in this manual were current at the time of printing, but due to possible in-line production changes, your machine may vary slightly in detail. We reserve the right to redesign and change the machine as may be necessary without notification.



WARNING *Some illustrations in this manual show the mower with safety shields removed to provide a better view. The mower should never be operated with any safety shielding removed.*

Throughout this manual, references are made to right and left directions. These are determined by standing behind the equipment and facing the direction of forward travel. Blade rotation is clockwise as viewed from the top of the mower

SAFETY RULES



ATTENTION! BECOME ALERT!
YOUR SAFETY IS INVOLVED!



Safety is a primary concern in the design and manufacture of our products. Unfortunately, our efforts to provide safe equipment can be wiped out by a single careless act of an operator.

In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.

It has been said '*the best safety device is an informed, careful operator*'. We ask you to be that kind of an operator.

The designed and tested safety of this equipment depends on it being operated within the limitations as explained in this manual.

TRAINING

- Safety instructions are important! Read this manual, the tractor manual and all safety rules.
- Know your controls and how to stop tractor engine and mower quickly in an emergency.
- Operators must be instructed in and be capable of the safe operation of the equipment, its attachments and all controls. Do not allow anyone to operate this equipment without proper instructions.
- Keep hands and body away from pressurized lines. Use paper or cardboard, not body parts to check for leaks. Hydraulic fluid (oil) under pressure will penetrate skin causing serious injury.
- Make sure that all operating and service personnel know that in the event hydraulic fluid penetrates skin, it must be surgically removed within a few hours by a doctor familiar with this form of injury, or gangrene may result.
- Do not allow children or unqualified persons to operate equipment.

SAFETY RULES

PREPARATION

- Always wear relatively tight and belted clothing to avoid entanglement in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hands, hearing and head.
- Ensure that mower is properly mounted, adjusted and in good operating condition.
- Make sure mower driveline spring-activated locking collar slides freely and the balls are seated in mid-PTO shaft groove.
- Remove accumulated debris from mower to avoid fire hazard.
- Ensure all safety decals are installed and in good condition. (See Safety Decals section for location drawing.)
- Ensure shields and guards are properly installed and in good condition.
- Inspect area to be cut and remove stones, branches or other hard objects that might be thrown, causing injury or damage.
- A minimum 20% of tractor and equipment weight must be on tractor front wheels with mower in transport position. Without this weight, tractor could tip over causing personal injury or death.

OPERATIONAL SAFETY

- You may not be able to stop the tractor safely if the clutch or brake pedal mechanisms are improperly adjusted, allowing them to contact mower components.
- When the mower lift stops are installed as instructed in this manual, properly adjusted clutch and brake pedal mechanisms will not contact mower components. You should frequently check that the tractor clutch and brake pedal mechanisms are in adjustment.
- If the clutch or brake pedal mechanisms can contact mower components, do not operate until properly adjusted.
- Do not operate mower unless discharge chute is installed.
- Keep bystanders away from equipment while it is in operation.
- Never direct discharge toward anyone.
- Operate only in daylight or good artificial light.
- Keep hands and feet away from mower while tractor engine is running. Stay clear of all moving parts.

SAFETY RULES

- No riders are allowed on tractor or mower.
- Start engine from operator's seat after disengaging tractor PTO and placing transmission in neutral.
- Always sit in tractor seat when starting the engine or operating controls.
- Disengage power take-off, shift tractor into neutral or park, and place all controls in neutral before starting tractor engine.
- Operate tractor mid-PTO at 2000 rpm.
- Make sure area behind you is clear before operating in reverse.
- Do not operate on steep slopes.
- Do not stop, start or change directions suddenly on slopes.
- Use extreme care and reduce ground speed on slopes and rough terrain.
- Watch for hidden hazards on the terrain during operation.
- Stop mower and tractor immediately upon striking an obstruction. Turn off engine, remove key, inspect and repair any damage before resuming operation.
- Before working underneath, raise mower, install transport lock and block mower securely. Hydraulic system leak down and failure of mechanical or hydraulic system can cause equipment to drop.
- Disengage power to mower, lower to ground, stop engine, set parking brake and remove key before dismounting tractor.

SAFETY RULES

MAINTENANCE SAFETY

- Always wear relatively tight and belted clothing to avoid entanglement in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hands, hearing and head.
- Lower mower to ground or block securely, turn tractor engine off, remove key and disconnect mower driveline from tractor PTO before performing any service or maintenance.
- Never perform service or maintenance with tractor engine running.
- Before working underneath, raise mower, install transport lock and block mower securely. Hydraulic system leak down and failure of mechanical or hydraulic system can cause equipment to drop.
- Keep all persons away from operator control area while performing adjustments, service or maintenance.
- Frequently check blades. They should be sharp, free of nicks and cracks and securely fastened.
- Your dealer can supply genuine replacement blades. Substitute blades may not meet original equipment specifications and may be dangerous.
- Tighten all bolts, nuts and screws, and check that all cotter pins are installed securely to ensure mower is in a safe condition before operating.
- Ensure all safety decals are installed and in good condition. (See Safety Decals section for location drawing.)
- Ensure shields and guards are properly installed and in good condition.
- Do not disconnect hydraulic lines until machine is securely blocked or placed in lowest position and system pressure is released by operating valve.

STORAGE

- Block mower securely for storage.

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