

# 200 SYNCHRONOUS THINNER



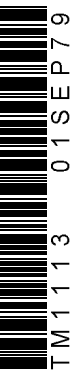
JOHN DEERE

## TECHNICAL MANUAL 200 SYNCHRONOUS THINNER

TM1113 (01SEP79) English

JOHN DEERE DES MOINES WORKS  
TM1113 (01SEP79)

LITHO IN THE U.S.A.  
ENGLISH



## 200 SYNCHRONOUS THINNER

### Technical Manual TM-1113 (Sep-79)

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*The specifications and design information contained in this manual were correct at the time this machine was manufactured. It is John Deere's policy to continually improve and update our machines. Therefore, the specifications and design information are subject to change without notice.*

#### Right-Hand or Left-Hand Determination

"Right-hand" or "left-hand" sides are determined by facing the direction the thinner will travel when in use.

#### SI (International System) Units of Measure

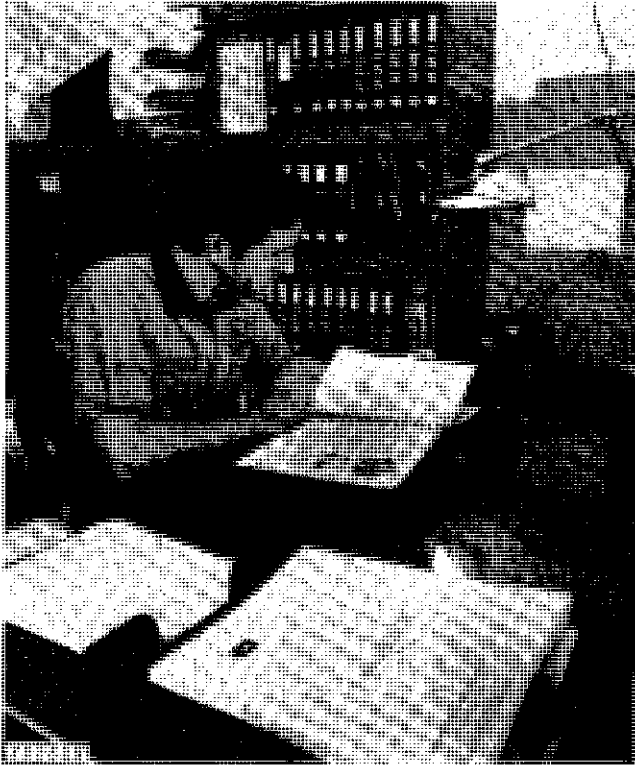
U.S. units of measure are shown with their respective Metric equivalents throughout this technical manual. These equivalents are the SI (International System) Units of Measure.

#### FOR YOUR CONVENIENCE

Vertical lines appear in the margins of many of the pages. These lines identify new material and revised information that affects specifications, procedures, and other important instructions.

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## INTRODUCTION



*Use FOS Manuals for Reference*

This technical manual is part of a twin concept of service:

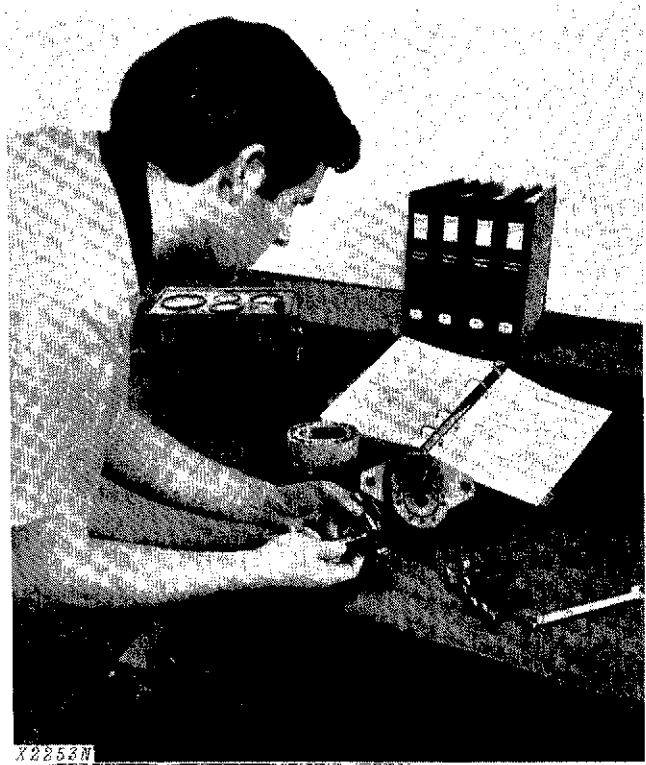
- **FOS Manuals—**for reference
- **Technical Manuals—**for actual service

The two kinds of manuals work as a team to give you both the general background and technical details of shop service.

*Fundamentals of Service (FOS) Manuals* cover basic theory of operation, *fundamentals* of trouble shooting, *general* maintenance, and *basic* types of failures and their causes. FOS Manuals are for training new people and for reference by experienced technicians.

*Technical Manuals* are concise service guides for a *specific* machine. Technical Manuals are on-the-job guides containing only the vital information needed by an experienced technician.

**NOTE:** Whenever the service technician may need to refer to a FOS Manual for additional information, a specific manual number is given.



*Use Technical Manuals for Actual Service*

Some features of this technical manual:

- *Table of contents at front of manual*
- *Exploded views showing parts relationship*
- *Photos showing service techniques*
- *Specifications grouped for easy reference*

This technical manual was planned and written for you—a service technician. Keep it in a permanent binder in the shop where it is handy. Refer to it whenever in doubt about correct service procedures or specifications.

Using the technical manual as a guide will reduce error and costly delay. It will also assure you the best in finished service work.

### FOR YOUR CONVENIENCE


Vertical lines appear in the margins of many of the pages. These lines identify new material and revised information that affects specifications, procedures, and other important instructions.

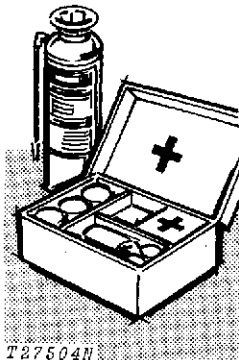
## SAFETY AND YOU



T27999N

### INTRODUCTION

 This safety alert symbol identifies important safety messages in this manual and on the machine. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.



T27504N

Be prepared if an accident or fire should occur. Learn where the first aid kit and the fire extinguishers are located—know how to use them.

### PERSONAL SAFETY

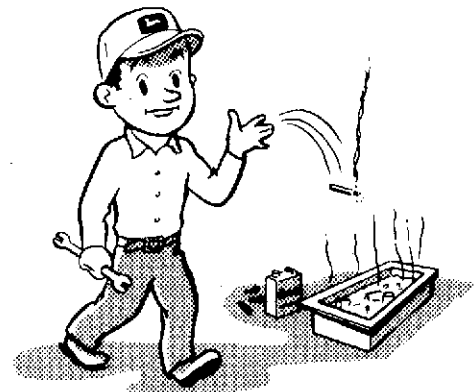
Shut off tractor engine and remove switch key before working on the thinner when it is attached to the tractor.

If it is necessary to make checks with the engine running, **ALWAYS USE TWO PEOPLE**—with the operator, at the controls, able to see the person doing the checking. Also, put the transmission in neutral, set the brake, and apply any safety locks provided. **KEEP HANDS AWAY FROM MOVING PARTS.**

### Be Alert!

Plan ahead—work safely—avoid accidental damage and injury. If a careless moment does cause an accident or fire, react quickly with the tools and skills at hand. Know how to use a first aid kit and a fire extinguisher. Know where to get aid and assistance. In an emergency, split-second action is the key to safety.

### Avoid Fire Hazards



N25286

Handle all flammable fuels or materials carefully.

Transport and store gasoline and oil only in approved containers; do not keep liquid fuels in bottles that may break or pans that may spill.

Know where the nearest fire extinguisher is kept and how to use it.

Do not use an open flame to light dark areas.

Remember that dust and the vapors from storage batteries can be dangerously explosive.



Always avoid loose clothing or any accessory—lopping cuffs, dangling neckties and scarves—that can catch in moving parts and put you out of work.

Always wear your safety glasses while on the job.

Do not wear greasy or fuel soaked clothing.

### FLUIDS UNDER PRESSURE

Escaping fluid under pressure can have sufficient force to penetrate the skin, causing serious personal injury. Before disconnecting lines, be sure to relieve the pressure. Before applying pressure to the system, be sure all connections are tight and that lines, pipes and hoses are not damaged. Fluid escaping from a very small hole can be almost invisible. Use a piece of cardboard or wood, rather than hands, to search for suspected leaks.

Keep tractor transmission and brake control units properly adjusted at all times. Before making adjustments on thinner, stop tractor engine.

Before removing any housing covers, stop tractor engine. Take all objects from your pockets which could fall into the opened housings. Don't let adjusting wrenches fall into opened housings.

Before repairing the electrical system, make sure the alternator is not running.

Avoid working on equipment with the tractor engine running. If it is necessary to make checks with the engine running, ALWAYS USE TWO PEOPLE—with an operator at the controls who can see the person doing the checking. Also, put the transmission in neutral, set the brake, and apply safety locks. KEEP HANDS AWAY FROM MOVING PARTS.

Use extreme caution in removing drain plugs, grease fittings, or hydraulic pressure caps.

If injured by escaping fluid, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immediately.

Don't forget the hydraulic system may be pressurized! To relieve pressure, follow the recommended procedure (see page 20-5-2).

When checking hydraulic pressure, be sure to use the correct test gauge for the highest pressure which may occur in the system being tested.

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