## 5220, 5320, 5420, and 5520 Tractor Operation and Test

### TECHNICAL MANUAL 5220, 5320, 5420, and 5520 Tractor Operation and Test

**TM2049 18MAR02 (ENGLISH)** 

#### For complete service information also see:

5220, 5320, 5420, and 5520 Tractor	
Repair	TM2048
Component Technical Manual 4045	
Engine	CTM104
Component Technical Manual 4045	
Mechanical Fuel System	CTM207
Component Technical Manual 3029	
Engine	CTM125
Alternators and Starting Motors	CTM77

## Introduction

#### **Foreword**

This manual is written for an experienced technician. Essential tools required in performing certain service work are identified in this manual and are recommended for use.

Live with safety: Read the safety messages in the introduction of this manual and the cautions presented throughout the text of the manual.

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

Technical manuals are divided in two parts: repair and operation and tests. Repair sections tell how to repair the components. Operation and tests sections help you identify the majority of routine failures quickly.

Information is organized in groups for the various components requiring service instruction. At the beginning of each group are summary listings of all applicable essential tools, service equipment and tools, other materials needed to do the job, service parts kits, specifications, wear tolerances, and torque values.

Technical Manuals are concise guides for specific machines. They are on-the-job guides containing only the vital information needed for diagnosis, analysis, testing, and repair.

Fundamental service information is available from other sources covering basic theory of operation, fundamentals of troubleshooting, general maintenance, and basic type of failures and their causes.

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## **Operational Checkout Procedures**

#### **Specifications**

Item Measurement Specification

Engine Slow Idle Speed Rotation 825  $\pm$  25

Engine Fast Idle Speed Rotation  $2625 \pm 25$ 

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#### **Operational Checkout Procedure Information**

The procedures covered in this group are used to give a quick checkout of all the systems and components on the unit. These checkouts should be run to ensure proper operation after any extended storage, when the unit comes in for service, and after repairs have been made on the unit. They can also be helpful in determining the value of the unit at trade-in time. The unit should be placed on a level surface to run the checkouts. All the checkouts should be done and all of the steps of each checkout should be followed.

#### Each checkout lists:

- Conditions—How the unit should be set up for the checkout.
- Procedure—The specific action to be done.
- Normal—What should happen or be heard or be seen.
- If Not Normal—Where to go if other tests or adjustments are needed.

When performing the checkout, be sure to set your machine up to the test conditions listed and follow the sequence carefully. The "Normal" paragraph gives the result that should happen when performing the checkout. If the results are not normal, go to the Section and Group listed in the "If Not Normal" paragraph to determine the cause and repair the malfunction.

The photograph that accompanies each checkout procedure is included to help conduct the checkout.

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