

6230 to 7230 Tractors Repair



DCG

TECHNICAL MANUAL 6230 to 7230 Tractors Repair

TM400819 01OCT07 (ENGLISCH)

For complete service information also see:

6230 to 7230 Tractors	
Diagnostics	TM400719
Front-Wheel Drive Axles (700 Series)	CTM4820
POWERTECH™ Diesel Engines	CTM104
Electronic Fuel Injection Systems	
Level 16	CTM500
Alternators and Starting Motors	



John Deere Werke Mannheim
North American Edition
LITHO IN U.S.A.



TM400819

Introduction

Foreword

This Repair Manual is valid for the following tractor types:

6230, 6330, 6430, 7130 and 7230

This manual is written for experienced technicians. 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 initial section 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 your machine or in this manual, be alert to the potential for personal injury.

Technical Manuals are concise service 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.

LX24888, TM4008 -19-30JUL07-1/1

Contents

SECTION 05—Safety

Group 05—Safety Information

SECTION 10—General

Group 05—Specifications

Group 10—Tune-Up

Group 15—Inspection Before Delivery

SECTION 20—Engine

Group 00—Removal and Installation of Components

SECTION 30—Fuel, Air Intake, Cooling and Exhaust Systems

Group 05—Speed Control

Group 10—Fuel System

Group 15—Air Intake System

Group 20—Cooling System

Group 25—Cold-Weather Starting Aids

Group 30—Exhaust System

SECTION 40—Electrical System

Group 05—Electrical Connectors

Group 10—Charging Circuit

Group 15—Starting Circuit

Group 20—Electrical Components

SECTION 45—Electronic Control Units

Group 05—Removal and Installation of Electronic Control Units

Group 10—Removal and Installation of Terminating Resistors

SECTION 50—SyncroPlus Transmission

Group 00—Removal and Installation of Components

Group 05—Transmission Shift Controls

Group 10—Perma Clutch II Module

Group 15—Gear Transmission

SECTION 51—PowrReverser Transmission

Group 00—Removal and Installation of Components

Group 05—Transmission Shift Controls

Group 10—PowrReverser Module

Group 15—Gear Transmission

SECTION 55—PowrQuad Transmission

Group 00—Removal and Installation of Components

Group 05—Transmission Shift Control

Group 10—PowrQuad Module

Group 15—Creeper Transmission

Group 20—Option Transmission

Group 25—Range Transmission

SECTION 56—Drive Systems

Group 00—Removal and Installation of Components

Group 05—U-Jointed Shafts and Torsion Damper

Group 10—Front-Wheel Drive Clutch

Group 15—Differential

Group 20—Hydraulic Pump Drive

Group 25—Final Drives

Group 30—Rear PTO

Group 40—Front Implement Drive

SECTION 60—Steering and Brakes

Group 05—Hydrostatic Steering

Group 10—Steering Cylinder

Group 15—Brake Valve

Group 20—Rear Wheel Brakes

SECTION 70—Hydraulic System

Group 10—Oil Filter, Charge Pump and Hydraulic Pump

Group 15—Valves

Group 20—Hitch

Group 25—Selective Control Valves (SCVs) and Couplers

Group 30—Independent Control Valves (ICVs)

SECTION 80—Miscellaneous

Group 00—Removal and Installation of Components

Group 05—Main Frame

Group 10—Front Axle

Group 15—Front Wheels, Rear Wheels and Fenders

Group 20—Trailer Mounting and Swinging Drawbar

Group 30—Pick-Up Hitch

Continued on next page

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

COPYRIGHT © 2007
DEERE & COMPANY
European Office Mannheim
All rights reserved
A John Deere ILLUSTRATION® Manual

05

10

20

30

40

45

50

51

55

56

05

SECTION 90—Operator's Cab

Group 00—Removal and Installation of Components

Group 05—Controls and Instruments

Group 10—Air-Conditioning System

Group 20—Heating System

Group 25—Seats

Group 30—Operator's Cab

10

SECTION 99—Special Tools

Group 05—Special Tools (Dealer-Fabricated)

Group 10—Special Tools (Available from the Dealer)

20

30

40

45

50

51

55

56

Contents

60

70

80

90

99

INDX



Thank you very much
for your reading.
Please click here
to get more information.