

6110M, 6120M, 6130M, 6135M, 6140M and 6145M Tractors Repair

REPAIR MANUAL

6110M, 6120M, 6130M, 6135M, 6140M, 6145M

TM408519 21AUG15 (ENGLISH)



John Deere Agriculture

Table of contents

FOREWORD

Section 05 - SAFETY

Group 05 - Safety Measures

Section 10 - GENERAL

Group 05 - General Information - Specifications

Group 10 - General Information - Tests and Adjustments

Group 15 - General Information - Predelivery Inspection

Section 20 - ENGINE

Group 00 - Engine - Removal and Installation of Components

Group 10 - Engine Exhaust Cleaning System

Section 30 - FUEL, AIR-INTAKE, COOLING, AND EXHAUST SYSTEM

Group 10 - Fuel System

Group 20 - Cooling System

Group 30 - Exhaust System

Section 40 - ELECTRICAL SYSTEM

Group 05 - Electrical System - Connectors

Group 10 - Electrical System - Charging Circuit

Group 15 - Electrical System - Starter Circuit

Group 20 - Electrical System - Headlights

Section 45 - ELECTRONIC CONTROL UNITS

Group 05 - Removal and Installation of Control Units

Group 10 - Terminating Resistors, Removal and Installation

Section 50A - DRIVE TRAIN (WITHOUT TRANSMISSION)

Group 00 - Drive Train (without Transmission) - Removal and Installation of Components

Group 10 - Drive Train (without Transmission) - U.J. Shafts and Torsion Dampers

Group 15 - Drive Train (without Transmission) - Mechanical Front-Wheel Drive

Group 20 - Drive Train (without Transmission) - Differential

Group 25 - Drive Train (without Transmission) - Hydraulic Pump Drive

Group 30 - Drive Train (without Transmission) - Final Drives

Group 35 - Drive Train (without Transmission) - Rear PTO Options

Group 40 - Drive Train (without Transmission) - Front PTO

Group 45 - Drive Train (without Transmission) - Front Implement Drive

Section 50C - POWRQUAD™ TRANSMISSION

Group 00 - PowrQuad™ Transmission - Removal and Installation of Components

Group 05 - PowrQuad™ Transmission - Transmission Shift Control

Group 10 - PowrQuad™ Transmission - PowrQuad Module

Group 15 - PowrQuad™ Transmission - Creeper Transmission

Group 20 - PowrQuad™ Transmission - Option Transmission

Group 25 - PowrQuad™ Transmission - Range Transmission 6100M—6135M

Group 30 - PowrQuad™ Transmission - Range Transmission 6145M

Section 60A - STEERING

Group 10 - Steering - Hydrostatic Steering

Group 15 - Steering - AutoTrac™

Section 60B - BRAKES

Group 10 - Brakes - Brake Valve

Group 15 - Brakes - Rear Brakes

Group 20 - Brakes - Hydraulic Trailer Brake

Group 25 - Brakes - Air Brake System

Group 30 - Brakes - Park Brake

Section 70 - HYDRAULIC SYSTEM

Group 05 - Hydraulic System - General Information

Group 10 - Operator Controls

- Group 15 - Hydraulic System - Oil Filter, Additional Oil Reservoir, Charge Pump, and Hydraulic Pump
- Group 20 - Hydraulic System - Priority 1 to 3 Control Blocks
- Group 25 - Hydraulic System - Rear Hitch
- Group 30 - Hydraulic System - Selective Control Valves (SCVs) and Couplers

Section 80A - MACHINE-SPECIFIC SYSTEMS

- Group 00 - Machine-Specific Systems - Removal and Installation of Components
- Group 10 - Machine-Specific Systems - Main Frame
- Group 15 - Machine-Specific Systems - Fenders, Front Wheels, and Rear Wheels
- Group 20 - Machine-Specific Systems - Trailer Hitch and Swinging Drawbar
- Group 25 - Machine-Specific Systems - Hydraul. Wagon Hitch

Section 80B - SUSPENSION SYSTEMS

- Group 10 - Suspension Systems - Suspended Front-Wheel Drive Axle
- Group 15 - Suspension Systems - Mechanical Cab Suspension

Section 90 - OPERATOR'S CAB

- Group 00 - Removal and Installation of Components
- Group 10 - Operator's Cab - Operation and Control Devices
- Group 15 - Operator's Cab - Air-Conditioning System
- Group 30 - Operator's Cab - Seats
- Group 35 - Operator's Cab - Operator's Cab

Section 300 - SPECIAL TOOLS

- Group 05 - General Information

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.



CAUTION:

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.



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