

# X710, X730, X734, X738, X739 Tractors (SN. 040001-) Diagnostic and Repair



## TECHNICAL MANUAL

North American models X710, X730, X734, X738, X739 (SN. 040001-)

TM142319 16 FEB 16 (ENGLISH)

**For complete service information also see:**

Machine Connection Information

CTM441



## Table of contents

### **FOREWORD**

#### **Section 10 - GENERAL INFORMATION**

- Group 05 - Safety
- Group 10 - General Specifications
- Group 20 - Fuel and Lubricants
- Group 30 - Machine Specifications

#### **Section 20 - ENGINE REPAIR**

- Group 10 - Engine
- Group 20 - Cooling System
- Group 30 - Fuel and Air System

#### **Section 30 - ELECTRICAL REPAIR**

- Group 10 - Battery, Starting Motor and Alternator
- Group 20 - Wiring Harnesses

#### **Section 40 - POWER TRAIN REPAIR**

- Group 10 - Controls and Charge Pump
- Group 20 - Transaxle
- Group 30 - Differential
- Group 40 - HFWD
- Group 50 - PTO Repair

#### **Section 50 - STEERING AND BRAKE REPAIR**

- Group 10 - Steering
- Group 20 - Brakes

#### **Section 60 - HYDRAULICS REPAIR**

- Group 10 - Hydraulics

#### **Section 70 - ATTACHMENT REPAIR**

- Group 10 - Attachments

#### **Section 80 - MISCELLANEOUS REPAIR**

- Group 10 - Miscellaneous

#### **Section 90 - OPERATOR'S STATION REPAIR**

- Group 10 - Operator's Station
- Group 20 - Component Location

#### **Section 220 - ENGINE OPERATION, TESTS, AND ADJUSTMENTS**

- Group 10 - Component Location
- Group 20 - Theory of Operation
- Group 30 - Diagnosis
- Group 40 - Tests and Adjustments

#### **Section 230 - ELECTRICAL SYSTEM OPERATION, TESTS, AND ADJUSTMENTS**

- Group 10 - Component Location
- Group 20 - Theory of Operation
- Group 30 - Schematics
- Group 40 - Diagnosis
- Group 50 - Tests and Adjustments
- Group 60 - Connectors
- Group 70 - Electronic Control Units
- Group 80 - Diagnose DTCs, ICC

#### **Section 240 - POWER TRAIN OPERATION, TESTS, AND ADJUSTMENTS**

- Group 10 - Component Location
- Group 20 - Theory of Operation
- Group 30 - Diagnosis
- Group 40 - Tests and Adjustments

#### **Section 250 - STEERING AND BRAKE OPERATION, TESTS, AND ADJUSTMENTS**

- Group 10 - Component Location

- Group 20 - Theory of Operation
- Group 30 - Diagnosis
- Group 40 - Tests and Adjustments

**Section 260 - HYDRAULIC SYSTEM OPERATION, TESTS, AND ADJUSTMENTS**

- Group 10 - Component Location
- Group 20 - Theory of Operation
- Group 30 - Schematics
- Group 40 - Diagnosis
- Group 50 - Tests and Adjustments

**Section 270 - ATTACHMENT OPERATION, TESTS, AND ADJUSTMENTS**

- Group 10 - Component Location
- Group 20 - Diagnosis
- Group 30 - Tests and Adjustments

**Section 299 - SERVICE TOOLS AND KITS**

- Group 10 - Service Tools



## 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.