

7600, 7700, and 7800 Tractors Repair



TECHNICAL MANUAL

7600, 7700, and 7800 Tractors Repair

TM1500 (04NOV96) English

FOR COMPLETE SERVICE INFORMATION ALSO SEE:

John Deere Waterloo Works TM1500 (04NOV96)





Introduction

Previewo

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

DX,TMIFC

-19-22MAY92

Miscellaneous

NOTICE TO THE DEALER

This is a complete revision for TM1500 Repair Technical Manual for 7600, 7700, and 7800 Tractors.

This will replace TM1500 dated 19NOV93.



RX1500,DLR -19-04NOV96

DEALER PREDELIVERY SERVICE

The John Deere delivery receipt, when properly filled out and signed by the dealer and customer, verifies predelivery and delivery services were satisfactorily performed. When delivering the tractor, give the customer his copy of the delivery receipt and operators manual. Be sure to explain their purposes to him.

Because of the shipping factors involved, plus extra finishing touches necessary to promote customer satisfaction, there are certain predelivery services that must be performed by the dealer. These services are listed in the first of two sections on the predelivery form which is attached to the tractor. The second section is a list of factory inspections that must be verified by the dealer.

Fill the form out completely and sign it. Send a copy to the factory and file the original with the shop order for the job. This will certify the proper delivery service has been completed.

Perform all services listed and check each job off as it is completed.



QUICK REFERENCE SPECIFICATIONS

Engine:
Slow Idle
Valve Clearance: Intake: 7600 0.35 mm (0.014 in.) 7700 and 7800 0.38 mm (0.015 in.) Exhaust: 0.45 mm (0.018 in.) 7700 and 7800 0.51 mm (0.020 in.)
Capacities:
Fuel tank 344 L (91 gal) Cooling system: 24 L (25 qt) 7600 25 L (26.5 qt)
7800
Crankcase with Filter
Transmission, Differential and Hydraulic system: Power Shift
Mechanical Front Wheel Drive: Axle Housing:
Torques:
Front Axle Bolts
Standard
Rim-to-Disk
Cast Wheels 600 N·m (445 lb-ft) Steel Wheels 500 N·m (370 lb-ft) Rear Wheel-to-Rim 600 N·m (445 lb-ft) Rear Steel Wheel 600 N·m (445 lb-ft)
Cab Mounting Bolts

RX1500,MISC,1 -19-04NOV96