

7210, 7410 And 7510 Tractors Repair



JOHN DEERE

TECHNICAL MANUAL 7210, 7410 And 7510 Tractors Repair

TM1653 (21SEP99) English

FOR COMPLETE SERVICE INFORMATION ALSO SEE:

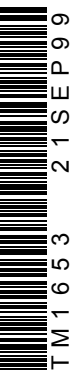
7210, 7410 AND 7510 TRACTORS	
OPERATION AND TEST	TM1654
6068 ENGINES	CTM104
ENGINE ACCESSORIES	CTM67
ALTERNATORS AND STARTING MOTORS	CTM77

John Deere Waterloo Works
TM1653 (21SEP99)

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ENGLISH



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TM1653 21SEP99

Introduction

FOREWORD

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

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 used to provide service information. The Repair Technical Manual tells how to repair the components. The Operation and Test Technical Manual helps you quickly identify the majority of failures.

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 and recommended tools, other material 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.

RX,TMIFC -19-03APR96-1/1

NOTICE TO THE DEALER

This is a complete revision for TM1653 Repair Technical Manual for 7210 and 7410 Tractors.

The 7510 Tractor has been added in this edition.

Discard TM1653 dated 24SEP98.

RX,INTR,RX31 -19-26MAY98-1/1

DEALER PREDELIVERY SERVICE

The John Deere delivery receipt, when correctly completed and signed by the dealer and customer, verifies predelivery and delivery services were satisfactorily performed. When delivering the tractor, give the customer a copy of the Delivery Receipt and Operator's Manual. Be sure to explain the purposes to the customer.

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.

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

Perform all services listed and put a check mark next to each job when completed.

RX14581015,1 -19-09OCT90-1/1

Preview Only

QUICK REFERENCE SPECIFICATIONS**ENGINE:**

Slow Idle	800—900 rpm
Fast Idle	2225—2325 rpm
Rated Engine Speed	2100 rpm
Valve Clearance:	
Intake	0.38 mm (0.015 in.)
Exhaust	0.51 mm (0.020 in.)

CAPACITIES:**Fuel Tank:**

Open Station	136 L (36 gal)
Open Station (Optional)	219 L (58 gal)
Cab	204 L (54 gal)
Cooling system	21 L (22 qt)
Crankcase with Filter	19 L (20 qt)

Transmission, Differential and Hydraulic System:

SyncroPlus™	57 L (15 gal)
SyncroPlus with MFWD	64 L (17 gal)
SyncroPlus with Creeper	61 L (16 gal)
SyncroPlus with MFWD and Creeper	68 L (18 gal)
PowrQuad™	57 L (15 gal)
PowrQuad with MFWD	64 L (17 gal)
PowrQuad with Creeper	61 L (16 gal)
PowrQuad with MFWD and Creeper	68 L (18 gal)

Mechanical Front Wheel Drive:

Axle Housing: (Version A)	8.5 L (9 qt)
Axle-Housing: (Version B)	14.4 L 15.2 qt
Wheel Hub (Standard)	1.9 L (2 qt)
Wheel Hub (Hi-Crop/Hi-Clearance)	3.8 L 4.0 qt
Hi-Crop Axle Housings	7.6 L (2 gal)

SyncroPlus is a trademark of Deere & Company
PowrQuad is a trademark of Deere & Company

RX,INTR,RX5 -19-18MAY98-1/1

Introduction

TORQUES:

Front Axle:

Regular or Wide Axle 600 Nm
(445 lb-ft)

Two-Wheel Drive:

Front Wheel-to-Hub 310 Nm
(230 lb-ft)

Hi-Crop Rim-to-Disk 310 Nm
(230 lb-ft)

Hi-Crop Disk-to-Hub 310 Nm
(230 lb-ft)

MFWD:

Rim-to-Disk 310 Nm
(230 lb-ft)

Hi-Crop Rim-to-Disk 600 Nm
(445 lb-ft)

Disk-to-Hub 600 Nm
(445 lb-ft)

Hi-Crop Disk-to-Hub 600 Nm
(445 lb-ft)

Cab Mounting Bolts 204 Nm
(150 lb-ft)

Preview Only

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