

# 200, 208, 210, 212, 214 and 216 Lawn and Garden Tractors



JOHN DEERE

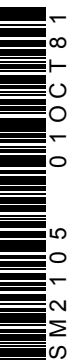
## SERVICE MANUAL

200, 208, 210, 212, 214 and 216 Lawn  
and Garden Tractors

SM2105 (01OCT81) English

John Deere  
Lawn & Grounds Care Division  
SM2105 (01OCT81)

LITHO IN U.S.A.  
ENGLISH



SM2105 01OCT81

# JOHN DEERE 200, 208, 210, 212, 214 AND 216 LAWN AND GARDEN TRACTORS

Service Manual  
SM-2105 (June-81)

## TABLE OF CONTENTS

SECTION 10 - GENERAL	SECTION 50 - POWER TRAIN
Group 5 - Tractor Identification	Group 5 - General Information
Group 10 - Specifications	Group 10 - Clutch and Variable Speed Drive
Group 15 - Fuel and Lubricants	Group 15 - Brakes
Group 20 - Tune-Up and Adjustments	Group 20 - 4-Speed Transaxle
	Group 25 - PTO Clutch
SECTION 20 - ENGINE	SECTION 60 - HYDRAULIC LIFT SYSTEM
Group 5 - General Information	Group 5 - General Information
Group 10 - Cylinder Head, Valves and Breather	Group 10 - Control Valve
Group 15 - Minor Engine Recondition	Group 15 - Pump
Group 20 - Major Engine Recondition	Group 20 - Cylinder
Group 25 - Specifications	
SECTION 30 - FUEL SYSTEM	SECTION 70 - MISCELLANEOUS
Group 5 - General Information	Group 5 - Steering Linkage
Group 10 - Carburetor	Group 10 - Front Wheels and Axles
Group 15 - Air Cleaner	Group 15 - Lift Linkage
Group 20 - Fuel Strainer and Fuel Tank	
Group 25 - Fuel Pump	SECTION 80 - SPECIAL SERVICE TOOLS
Group 30 - Specifications	Group 5 - Engine Convenience Service Tools
	Group 10 - Tractor Essential Service Tools
SECTION 40 - ELECTRICAL SYSTEM	Group 15 - Tractor Convenience Service Tools
Group 5 - General Information	
Group 10 - Cranking System	SECTION 90 - TRACTOR ATTACHMENTS
Group 15 - Ignition System	Group 5 - 37A Snow Thrower
Group 20 - Charging System	Group 10 - 39 and 47 Rotary Mowers
Group 25 - Lights	Group 15 - 541A PTO
Group 30 - Electric Lift	Group 20 - 31 Rotary Tiller
Group 35 - Electric PTO Clutch	

00A

*(All information, illustrations, and specifications contained in this service 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.)*

Litho in U.S.A.

Copyright © 1980  
DEERE & COMPANY  
Moline, Illinois  
All rights reserved

## INTRODUCTION

This service manual contains service and maintenance information for the John Deere 200, 208, 210, 212, 214 and 216 Lawn and Garden Tractors and attachments through 1982 model (SN 195,001-).


The manual is divided into sections. Each section pertains to a certain component or operational system of the tractor or attachment. The information is divided into groups within each section.

Emphasis is placed on diagnosing malfunctions, analysis and testing. Diagnosing malfunctions includes possible troubles, their causes and how to correct them. Under specific components these troubles are analyzed to help you understand what is causing the problem. In this way, you can eliminate the cause rather than just replace the part.

Metric equivalents have been included, where applicable, throughout this service manual.

Specifications and special tools are found in the last group of each section.

Whenever new or revised pages are provided, insert them into your manual as soon as you receive them. Your service manual will always be up-to-date and be a valuable asset in your service department.

 **This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.**

### FOR YOUR CONVENIENCE

Vertical lines appear in the margins of many of the pages. These lines identify new material and revised information that affects specifications, procedures, and other important instructions.

# Section 10 GENERAL Group 5 TRACTOR IDENTIFICATION

## CONTENTS

	Page		Page
<b>GROUP 5 - TRACTOR IDENTIFICATION</b>		<b>GROUP 20 - TUNE-UP AND ADJUSTMENTS</b>	
Serial Numbers .....	5-2	Purpose of Tune-Up and Adjustments .....	20-1
Tractor .....	5-2	Visual Inspection .....	20-1
Engine .....	5-2	Engine Tune-Up .....	20-1
Transaxle .....	5-2	Tractor Adjustments .....	20-1
Identification Codes .....	5-2	Tune-Up Guide .....	20-1
Tire Codes .....	5-2	Tune-Up and Adjustments .....	20-2
<b>GROUP 10 - SPECIFICATIONS</b>		Clean Engine Shrouds and	
Engine Specifications .....	10-1	Cooling Fins .....	20-2
Battery Specifications .....	10-2	Clean or Replace Air Filter	
Tractor Specifications .....	10-2	Element .....	20-2
Tire Specifications .....	10-3	Clean Fuel Strainer .....	20-2
Rear Wheel Weight Bolt Size Chart .....	10-3	Check and Clean Engine Crankcase	
Bolt Torque Chart .....	10-4	Breather .....	20-2
Set Screw Seating Torque Chart .....	10-4	Check Spark Plug Gap .....	20-3
<b>GROUP 15 - FUEL AND LUBRICANTS</b>		Check Ignition Breaker Points and	
Fuel .....	15-1	Engine Timing .....	20-3
Lubricants .....	15-1	Adjust Carburetor .....	20-5
Engine Crankcase .....	15-1	Check Engine Speed .....	20-5
Transaxle .....	15-1	Change Engine Crankcase Oil .....	20-6
Tractor Grease Fittings .....	15-1	Check or Change Transaxle Lubricant .....	20-6
Hydraulic System (Optional Equip.) .....	15-1	Lubricate Grease Fittings .....	20-6
Capacities .....	15-1	Repack PTO Clutch Bearing .....	20-6
Service Intervals .....	15-2	Service Battery .....	20-6
Lubricating Grease Fittings .....	15-2	Check Tire Pressure .....	20-6
Changing Engine Crankcase Oil .....	15-3	Check Operation and Condition of:	
Changing Transaxle Lubricant .....	15-3	Lights .....	20-6
Repacking PTO Clutch Bearing .....	15-4	Lift System .....	20-6
Lubricating Integral Hitch Grease		Steering .....	20-6
Fitting .....	15-4	Brakes .....	20-6
Checking Hydraulic Lift System Fluid		Belts and Equipment .....	20-6
Level .....	15-4		

## SERIAL NUMBERS

### Tractor

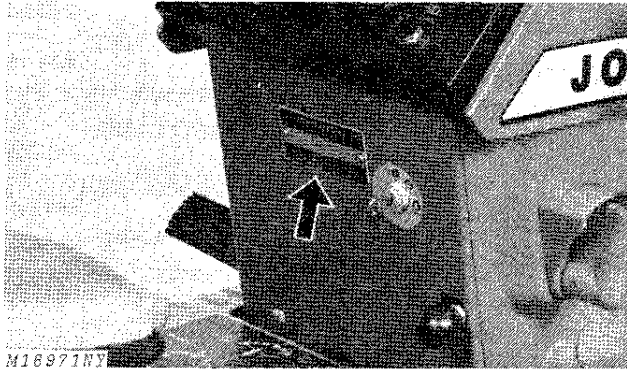
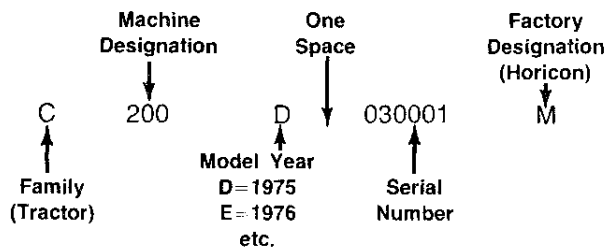


Fig. 1-Tractor Serial Number

The tractor serial number, Fig. 1, is located on the pedestal below the steering wheel.

The first letter indicates the "family of machine"; the next three numbers or letters, the "model or machine designation"; the letter in the fifth position indicates the "model year". This is followed by a space (for computer purposes), and a six-digit serial number and the letter "M" denoting Horicon as the factory of manufacture.



When ordering parts, use only the six-digit serial number. When writing about or filling out warranty claims, use all thirteen numbers, letters and spaces shown on the machine serial number plate.

### Engine

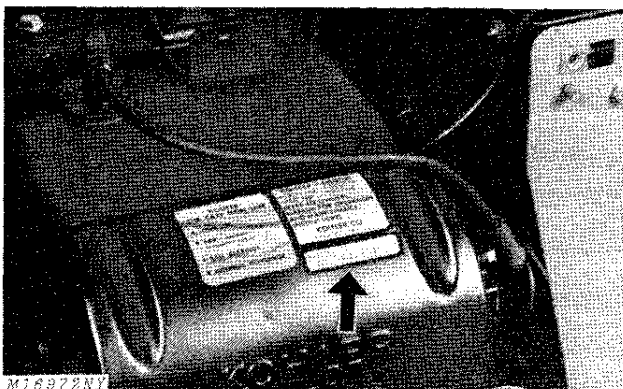


Fig. 2-Engine Serial Number

The engine serial number, Fig. 2, is located on the engine shroud.

### Transaxle

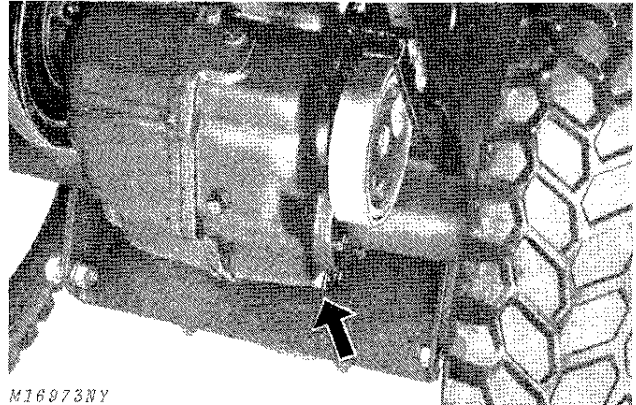


Fig. 3-Transaxle Serial Number

The transaxle serial number, Fig. 3, is located on the transaxle case next to the L.H. axle housing.

## IDENTIFICATION CODES

### Tire Codes

John Deere 200, 210, 212, 214 and 216 Tractors can be equipped with four different combinations of tires as follows:

Tire Code	Size Front	Size Rear	Tread
GT-3	16x6.50-8	23x8.50-12	High-Flotation
GT-4	4.80/4.00-8 -----	----- 23x8.50-12	Studded Traction
GT-5	16x6.50-8	23x10.50-12	High-Flotation
GT-8 Bar Tread	16x6.50-8 or 4.80/4.00-8 -----	----- 23x10.50-12	High-Flotation Traction

*NOTE: The 200 Tractor is equipped with GT-3 tires as standard equipment. The 208 Tractor is equipped with 4.80 x 4.00-8 (2-ply) front tires and 23 x 8.50-12 rear tires as standard equipment. The 208 Tractor can be equipped with GT-3, GT-4, GT-5, or GT-8 tires listed above if desired. The 210, 212, 214 and 216 Tractors are equipped with GT-5 tires as standard equipment.*

Thank you so much for reading.  
Please click the “Buy Now!”  
button below to download the  
complete manual.



After you pay.

You can download the most  
perfect and complete manual in  
the world immediately.

Our support email:

[ebooklibonline@outlook.com](mailto:ebooklibonline@outlook.com)