244L and 324L Compact 4WD Loader Diagnostic

PIN: 1LU244LX_ _B047716—
PIN: 1LU324L_ _ _B047716—

JOHN HARE

COLLECTION

OPERATION & TEST TECHNICAL MANUAL
244L and 324L Compact 4WD Loader

(PIN: 1LU244LX_ _B047716—; PIN: 1LU324L_ _ _B047716—)

TM14321X19 01DEC18 (ENGLISH)

For complette service information also see:

244L and 324L Compact 4WD Loader Repair TM14322X19

Worldwide Construction and Forestry Division

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.

DX,TMIFC-19-20140415

Manual Identification—READ THIS FIRST!

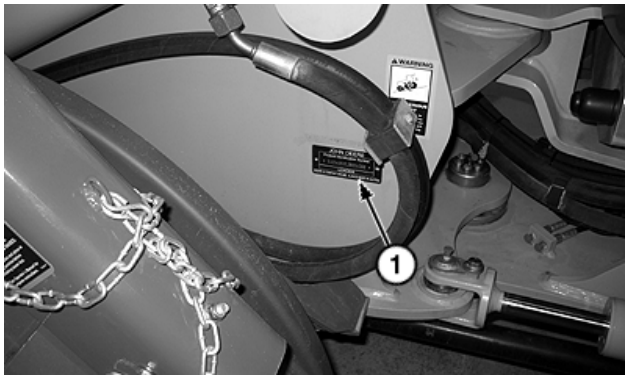
IMPORTANT:
Use only supporting manuals designated for each specific machine. If incorrect manual is chosen, improper service may occur. Verify product identification number (PIN) when choosing the correct manual.

Choosing the Correct Supporting Manuals

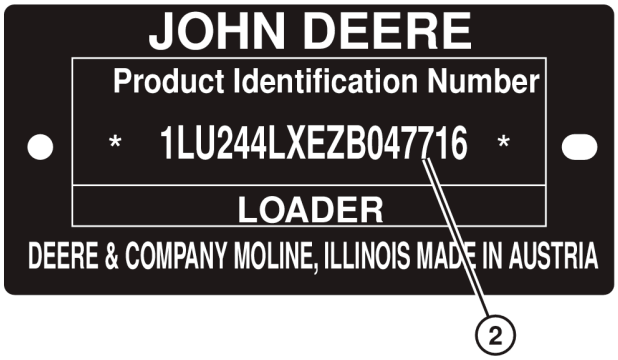
John Deere machines are available in different machine configurations based on the various markets into which they are sold. Different supporting manuals exist for different machine configurations.

When necessary, product identification numbers are listed on the front covers of the manuals. These numbers are used to identify the correct supporting manual for the machine.

Product Identification Number



TX1170842A-UN: PIN Plate Location



TX1256186-UN: Example of PIN Plate

LEGEND:
1-PIN Plate
2-17-Character PIN

The product identification number (PIN) plate (1) is located on the loader frame on the left side of the machine. Each machine has a 17-character PIN (2) shown on the PIN plate.

The PIN identifies the producing factory, machine model number, machine option, year of manufacture, and machine serial number.

The following is an example for a machine that meets Final Tier 4 and Stage IV emission levels:

17-Character PIN Examples																
1	***2***	***3***	***4***	***5***	***6***	***7***	***8***	***9***	***10***	***11***	***12***	***13***	***14***	***15***	***16***	***17***
1	L	U	2	4	4	L	X	_	_	B	0	4	7	7	1	6

(1—3) World Code: Identifies location where machine is manufactured.

1LU	***World Code*** (manufacturing location)
1DW.....	Davenport Works
1T8.....	Thibodaux Works
1T0.....	Dubuque Works
1FF.....	Deere—Hitachi
1LU.....	Liebherr

(4—7) Machine Model and Series Identifier: Identifies model number and series.

244L	***Machine Model and Series Identifier***
324L	***Machine Model and Series Identifier***

(8) Model Identifier Suffix, Machine Configuration Code, or Additional Machine Information: Contains additional machine information for overall machine identification.

_	***Machine Option Code***
X.....	Base Machine
H.....	324L High Lift

(9) Manufacturing Year Code: Identifies year of machine manufacture.

_	***Manufacturing Year Code*** (variable)
D.....	2013
E.....	2014
F.....	2015
G.....	2016
H.....	2017
J.....	2018
K.....	2019
Z.....	Not used for calendar year of manufacture.

(10) Check Letter: This is a random character assigned by the factory. This is not used in machine identification.

_ ..... ***Check Letter*** (variable)

(11) Liebherr Factory Code: Identifies factory of manufacture.

B ..... ***Bischofshofen***

(12—17) Machine Serial Number: Identifies machine serial number. This character will change from one machine to another.

047716 ..... ***Machine Serial Number***

JB38880,000138C-19-20180717

Serial Number Listing Information

Serial number information provided indicates to which products the specified service information applies. For example:

No serial number break>	The information pertains to all indicated products.
(S.N. 000000—)>	The information pertains to products beginning with the serial number listed.
(S.N. —000000)>	The information pertains to products up to and including the serial number listed.
(S.N. 000000—000000)>	The information pertains to products between and including the serial number listed.

When XXXXXX is listed in place of a serial number, a serial number change was made, but the exact serial number was not available at the time of publication.

TX,SERIALNUM-19-20180808

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