



488 Rotary Tiller



JOHN DEERE

TECHNICAL MANUAL

488
Rotary Tiller

TM1252 (01MAY81) English

John Deere Horicon Works
TM1252 (01MAY81)

LITHO IN U.S.A.
ENGLISH



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INTRODUCTION

This technical manual contains service and maintenance information for the John Deere 448 Rotary Tiller.

Basic service information pertaining to removal, disassembly, inspection and repair is given in detail. Emphasis is placed on diagnosing malfunctions for quick reference in determining the cause of machine failure.

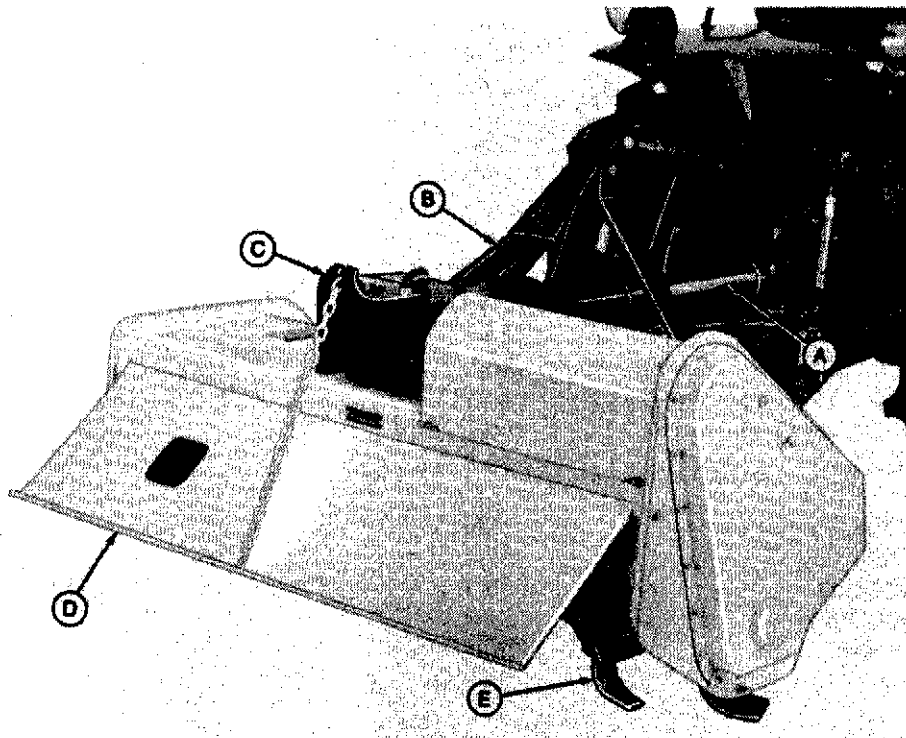


This safety alert symbol identifies important safety messages. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

Metric equivalents have been included where applicable throughout this technical manual.

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DESCRIPTION



A—Powershaft
B—Hitch Mast

C—Gear Case
D—Leveler Blade

E—Tines

The 448 Rotary Tiller is a heavy-duty integral rotary tiller for use with John Deere Model 650 and 750 Tractors. The rotary Tiller is mounted on the 3-point hitch of the tractor and driven by the rear PTO shaft.

NOTE: The 448 Rotary Tiller may be used on competitive tractors with up to 20 horsepower that are equipped with a category 1 3-point hitch and a 540 RPM PTO.

The powershaft (A) is connected to the tractor PTO shaft and rotary tiller gear case (C).

A pinion and bevel gear is connected to a drive shaft inside the gear case. The gear case drive shaft is connected to a countershaft with a shear bolt. The bolt will shear if the tiller tines strike a solid obstruction. A sprocket and chain drive connected to the countershaft rotates the tines.

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SPECIFICATIONS

Tractor Required* John Deere Model 650 and 750

*The Model 448 Rotary Tiller may be used on competitive tractors up to 20 horsepower equipped with a category 1 3-point hitch and a 540 RPM PTO.

Width of Cut (122 cm) 48 Inches

Rotor Diameter (406 mm) 16 Inches

Rotor Bearings . . . (31.8 mm) 1-1/4 Inches Self-Aligning
Ball Bearings with Wide Inner Race
and Land Riding Seals (Triple Lip)

Gear Case Right Angle Curtis Model 412
with Forged Gears

Tines Heat Treated High-Carbon Steel

Drive U-Joint Shaft From Tractor PTO to Right
Angle Gear Case

Shear Protection Countershaft Shear Bolt

Rotor RPM 185

Tip Speed (235.7 M/min.) 773 Feet Per Minute

Height of Lift (381 mm) 15 Inches

Overall Width (135 cm) 53 Inches

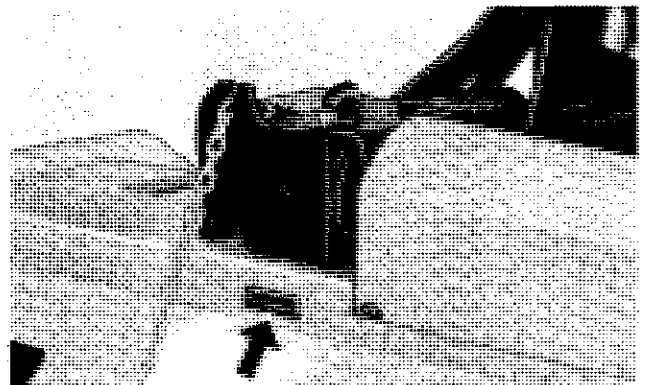
Net Weight (113.6 kg) 250 Lbs.

(Specifications and design subject to change without notice.)

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ROTARY TILLER SERIAL NUMBER

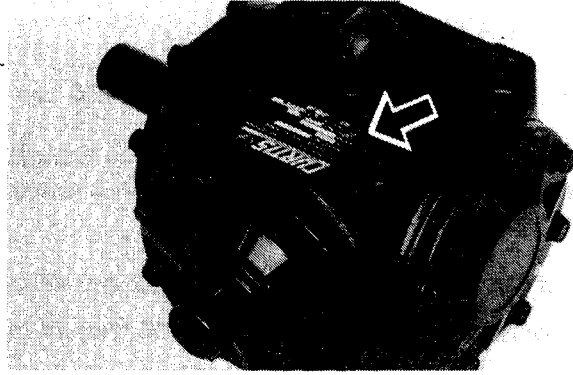
The rotary tiller serial number is located on the rear housing below the gear case.



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GEAR CASE SERIAL NUMBER

The gear case serial number is located on a plate attached to the gear case.



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