

483 AND 484 STALKERS



JOHN DEERE

TECHNICAL MANUAL 483 AND 484 STALKERS

TM1168 (01SEP77) English

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ENGLISH



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TECHNICAL MANUAL

TM-1168 (SEP-77)

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All information, illustrations and specifications contained in this technical 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.

Because John Deere sells its products world-wide, U.S. units of measure are shown with their respective metric equivalents throughout this technical manual. These equivalents are the SI (International System) Units of Measure.


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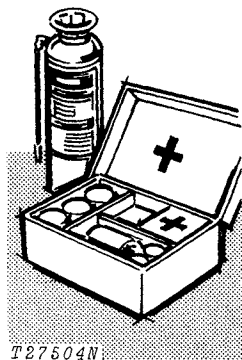
SAFETY AND YOU



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INTRODUCTION

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

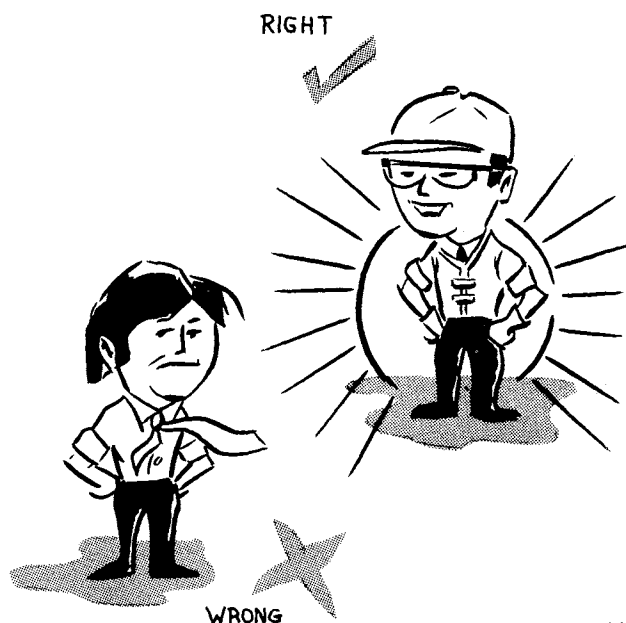


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Be prepared if an accident or fire should occur. Know where the first-aid kit and the fire extinguishers are located—know how to use them.

PERSONAL SAFETY

Avoid working on equipment with the harvester engine running. If it is necessary to make checks with the engine running, **ALWAYS USE TWO PEOPLE**—one, the operator, at the controls, the other person checking so as to be visible to the operator on the tractor seat. **KEEP HANDS AWAY FROM MOVING PARTS.**



H23440N

Always avoid loose clothing or any accessory—flopping cuffs, dangling neckties and scarves—that can catch in moving parts and put you out of work.

Always wear your safety glasses while on the job.

SERVICE AREA

Keep the service area clean and dry. Wet or oily floors are slippery. Wet spots can be dangerous when working with electrical equipment.

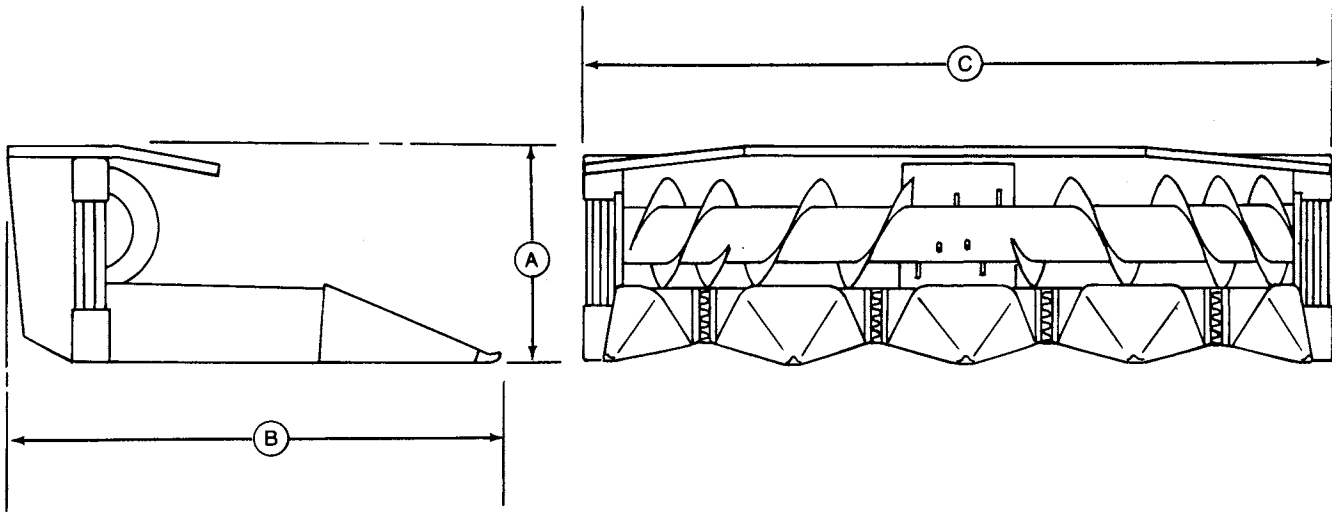
Make sure the service area is adequately vented.

Periodically check the shop exhaust system for leakage. Engine exhaust gas is dangerous.

Be sure all electrical outlets and tools are properly grounded.

Use adequate light for the job at hand.

SPECIFICATIONS, TORQUE VALUES AND SPECIAL TOOLS



E14904

A—Height	52 in. (1 321 mm)
B—Length	110 in. (2 794 mm)
C—Width:	
483, 4-Row 30 in. (762 mm)	131 in. (3 327 mm)
484, 4-Row 40 in. (1 016 mm)	159 in. (4 039 mm)

Fig. 1-Dimensions for 483 and 484 Stalkers

Weight:

483 - 4-Row 30 in. (762 mm)	2906 lbs. (1318 kg)
484 - 4 Row 40 in. (1 016 mm)	3106 lbs. (1409 kg)

Gear Case:

Input Shaft	
End Play	0.005 to 0.015-in. (0.13 to 0.38 mm)
Backlash	0.005-in. (0.13 mm) Min.

Speed:

Auger	86 rpm
Gatherer Chain	370 ft/min. (112 m/min.)
Knife	920 cuts per minute
Power Corner Feed Roll	345 rpm

Slip Clutch

One per row unit plus cross auger drive

Gatherer Chains	Heavy-Duty 555 endless steel roller chain (No master connecting link)
Knives	Tungsten carbide edge, oscillating type
Height of Cut	Minimum 3-1/4 in. (83 mm) Maximum 33 in. (830 mm)
Gatherer Points	Low-profile, floating type
Auger:	
Diameter	22 in. (559 mm)
Tube	12 in. (305 mm)
Flighting	5 in. (127 mm)
Row Unit Drive	Heavy-duty casting containing all gears; lubricated with two Multi-Lubers; protected with slip clutch and driven by single input hex. shaft
Backlash	0.004 to 0.025-in. (0.10 to 0.63 mm)
Gear Heel	0.020-inch (0.51 mm)

TORQUE VALUES

Location	Torque (Ft-Lbs)	(Nm)	(kgm)
Ball Stud Nut	40	56	5.6
Pitman Cap Screw (7/8-in.)	300	407	41
Knife Socket Head Cap Screw	80	108	10.8
Knife Socket Head Nut	80	108	10.8
Knife Crank Clamp Bolt	85	115	12
Knife Link Clamp Bolt	20	27	2.7
Knife Retainer	85	115	11.5
Gather Chain Driven Sprockets	125	170	17
Gatherer Chain Drive Sprockets	85	115	11.5
Auger Fingers	90	122	12
Auger Drive Shaft (Slotted nut)	180	244	24

SPECIAL TOOLS

Convenience Tools

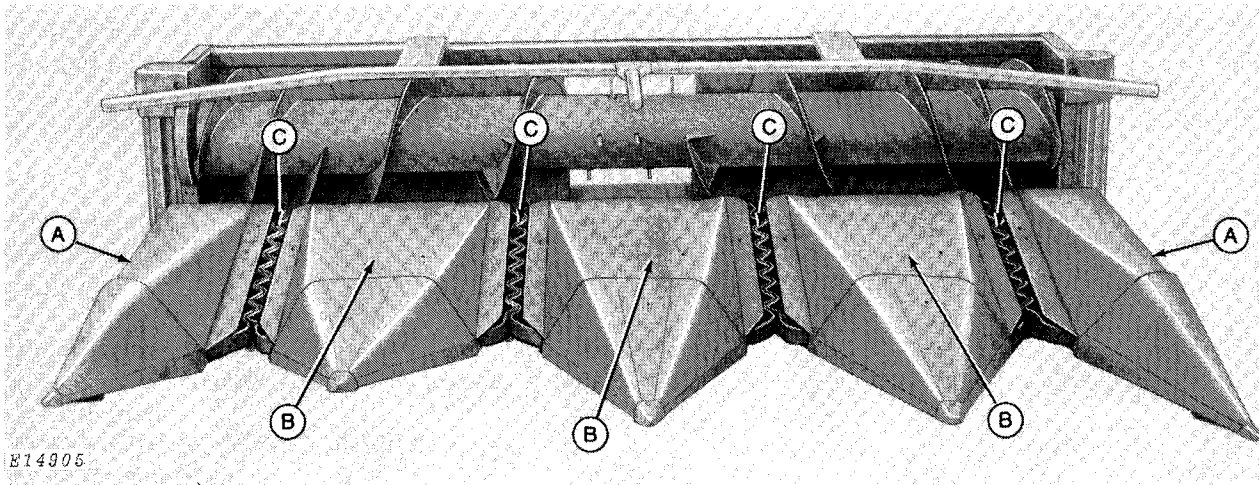
Tool No.	Description	Use
MTD-AF-3*	Socket	To remove platform auger fingers
JDO-1**	Puller	To remove idler and drive sprocket

* Order from: Midwest Tool Specialities, P. O. Box 176, Silvis, Ill. 61282

**Order from: Owatonna Tool Company, Owatonna, Minnesota 55060

GENERAL INFORMATION

ROW UNITS



A—Outside Fenders

B—Center Islands

C—Row Units

Fig. 2-Stalker Row Units and Covers

As the stalker moves into the crop, the oscillating knife assembly cuts the stalks while the gatherer chains grasp the material and move it toward the auger. The auger then moves the material toward the center of the stalker and into the harvester feed rolls.

To operate properly, the gatherer chains must be timed and the gear case must have proper backlash and heel.

It is not necessary to remove each row unit to service the drives.

⚠ CAUTION: Be certain the support stands are lowered and the stalker unit is blocked properly before working beneath the row unit.

SERIAL NUMBER

The serial number for the 483 or 484 Stalker is located below the multi-luber, on the left-hand side panel.

DIAGNOSING MALFUNCTIONS

The majority of operating problems that occur with the stalkers can be sometimes traced to improper adjustment or delayed service. The following malfunctions are designed to help you when a problem develops by suggesting a problem, cause, and the recommended solution.

These suggested malfunctions should be applied with caution. Make certain the source of the problem is not located someplace other than where the problem exists. A thorough understanding of the stalker is a must if operating problems are to be corrected satisfactorily.

ORGANIZING THE DIAGNOSIS

1. Know the Unit

Study this manual to know how the individual components work and their function in the over-all system.

Keep up with the latest service information. Read it and store it in a handy reference file.

2. Consult the Operator

Ask the operator how the unit was performing when the problem occurred. Find out if any corrective measures were already taken. Ask if the unit was serviced regularly as prescribed in the operator's manual.

3. Operate the Unit

If the unit can be safely operated, see for yourself how it malfunctions—don't completely rely on the operator's diagnosis.

4. Inspect the Unit

Visually check the unit. Look at the components for any cracked welds, loose hardware, damaged linkages, worn or broken lines, or anything that looks out of the ordinary.

5. List the Probable Causes

Write down the information you have learned by steps 1 through 4. What are the signs you found while inspecting the unit and what are the most probable causes as outlined under "Diagnosing"?

6. Reach Some Conclusions

Look over the possible causes and decide which ones are the most likely. Reach your decision on the most probable cause and plan to check it first.

7. Test Your Conclusions

Before disassembling any components, test your conclusions to see which are correct. Tests narrow the possibilities and soon the actual cause will be pinpointed.

DIAGNOSING

Gatherer Chains Out of Time

Gatherer Chains Loose.

Tighten gatherer chains (See page 35.)

Material Under Chain in Sprocket Roller Pockets.

Clean material accumulations around sprockets.

Material Collects Against Chain Sprockets.

Reverse harvester no longer than necessary to clear plugged machine.

Knife Plugs.

Raise knife, adjust hydraulic down stop actuator. (See operator's manual.)

Gatherer Chains Stiff.

Oil chains.

Belt Trough Plugging with Material.

See "Plugging", page 9.

Gather Chain Drive Sprockets Out of Time.

Re-time sprockets. (See page 24.)

Idler Support Bracket Loose.

Tighten or replace support bolts.

Bearing Failure in Gatherer Chain Idler.

Replace gatherer chain idler.

Material Wraps Around Power Corners

Stripper Clearances Excessive.

Adjust stripper. (See page 37.)

Bent or Nicked Flutes on Power Corner.

Straighten and smooth rough edges.

Down and Tangled Material.

Reverse machine to clean.

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