

# 4720 FORAGE HARVESTER



## OPERATORS MANUAL 4720 FORAGE HARVESTER

OME73382 I4 English

**OME73382 I4**

LITHO IN THE U.S.A.  
ENGLISH



# Introduction

**!** This safety alert symbol indicates 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.

"Right-hand" and "left-hand" sides are determined by facing the direction the harvester will travel when in use.

Record your harvester model and serial numbers on page 70-03.

Your warranty appears on your copy of the purchase order which you should have received from your dealer.



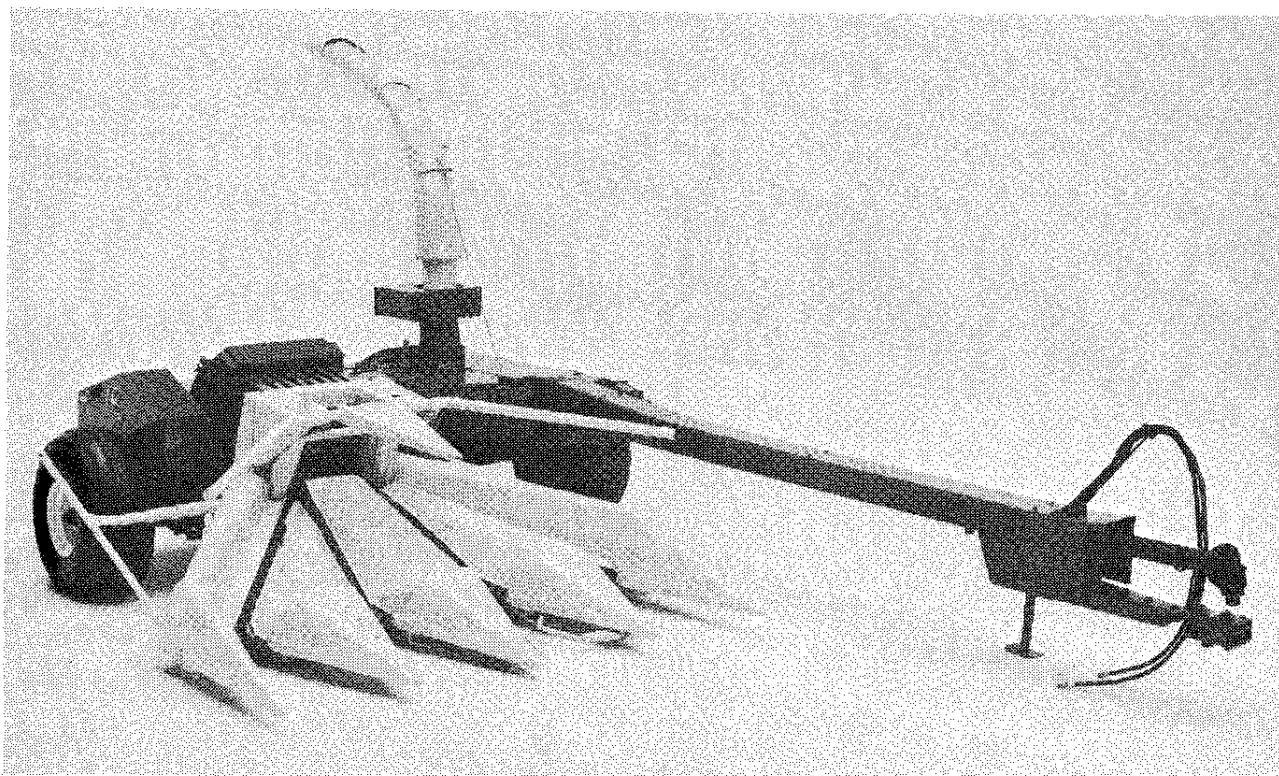
This forage harvester is of metric design.

For your convenience, most specifications are given in metric measurement with the customary U.S. measurement following.

Some specifications cannot be converted. These appear in metric only.

Most hardware is metric. Specified metric hardware must be used for replacement.

**!** **CAUTION: Use only metric tools on metric hardware. Other tools may not fit properly. They may slip and cause injury.**



*John Deere 4720 Forage Harvester*

# Predelivery

## PREDELIVERY CHECKLIST

After the harvester has been completely assembled, inspect it to be sure it is in good running order before delivering it to the customer. The following checklist is a reminder of points to inspect. Check off each item as it is found satisfactory or after proper adjustment is made.

- Hydraulic hoses properly routed and clamped to avoid rubbing when tongue is pivoted.
- PTO hookup and equal angle hitch are delivered with machine.
- A liberal amount of grease was applied to spout base when assembled.
- Discharge spout cap control cable properly installed. (See page 65-09.)
- Fan blades adjusted properly. (See page 50-19.)
- Fan drive belt adjusted properly. (See page 30-07.)
- Cutterhead drive belt adjusted properly. (See page 15-04.)
- Stationary and cutterhead knives are properly adjusted. (See page 30-06, 50-04.)
- Sharpening stone is tightened against stone door.
- Feed roll drive chain idlers adjusted. (See page 50-18.)
- Feed rolls do not touch as they rotate.
- Harvesting unit drive chain idler aligned and adjusted.
- Make sure the harvesting unit drive slip clutch will slip.
- Slip clutches are properly set. (See page 30-09.)
- Tongue swing cylinder is in correct hole and harvester has been assembled with the pickup, row-crop, mower bar, or ear corn unit as per instructions. (See page 15-05.)
- Hydraulic cylinders operate properly (after installation of pickup, row-crop, ear corn unit, or mower bar unit).
- Tongue swing cylinder can fully extend and transport lock can be used without damage to harvesting unit.
- Harvester lift cylinder lockout works properly.
- All moving parts are working freely.
- All grease fittings have been lubricated and gear cases filled. (See Lubrication section.)
- Tires properly inflated. (See page 15-07.)
- Harvester has been run for one-half hour—bearings are not heating. (After pickup, row-crop, ear corn, or mower bar unit has been attached.)
- Electrohydraulic controls are properly mounted in tractor and functioning correctly.
- IRON-GARD™ metal detector functions properly. (See page 30-18.)
- SPOUT-TRAK™ aiming controls function properly. (See page 65-39.)
- ROW-TRAK™ guidance system functions properly. (See page 65-41.)
- Hydraulic wagon disconnect functions properly. (See page 65-40.)
- Electric downstop functions properly. (See page 65-41.)

(Date Set Up) \_\_\_\_\_

(Signature) \_\_\_\_\_

## DELIVERY CHECKLIST

At the time the harvester is delivered, the following checklist is a reminder of very important information which should be conveyed directly to the customer. Check off each item as it is fully explained to customer.

- Advise customer that the life expectancy of this, like any other machine, is dependent on regular lubrication as described in operator's manual.
- Advise customer of the safety precautions that must be exercised while using this harvester.
- Give the operator's manual to the customer and explain all operating adjustments and lubrication fully.
- Advise and show the customer the proper procedure for using the sharpening stone and importance of maintaining proper stationary knife to cutterhead knife clearance.
- Point out shear bolt safety devices and proper bolt replacements.
- Explain proper ASAE standard dimensions for PTO hookups and drawbar locations.
- Explain the operation of the electrohydraulic controls.
- Explain the operation of optional equipment including IRON-GARD metal detector, SPOUT-TRAK aiming and hydraulic-wagon disconnect.
- Explain that when the forage harvester or harvester and wagon are transported on a road or highway at night or during the day, accessory lights and devices should be used for adequate warning to operators of other vehicles. In this regard, tell customers to check local governmental regulations.
- Advise customer that harvester must have transport hitch if it is used to tow wagons on road.
- Advise the customer of the optional harvesting units and attachments that are available for special crop and operating conditions.

(Date Delivered) \_\_\_\_\_

(Signature) \_\_\_\_\_

*Predelivery*

**AFTER-SALE CHECKLIST**

It is suggested that the following items be checked sometime during the first season's operation of the forage harvester.

- Go over entire harvester for loose or missing bolts.
- Inspect the cutterhead knives and stationary knife to be sure they are sharp and properly adjusted.
- Check for proper knife clearance and register on row-crop unit.
- All chains are properly tightened on harvester and harvesting unit.

- All safety shields are in place.
- Check for broken or damaged parts.
- If possible, run the harvester to see if it is functioning properly.
- Review the entire operator's manual with the customer and stress the importance of proper and regular lubrication and safety precautions.

(Date Checked) \_\_\_\_\_

Signature \_\_\_\_\_

1UA; E03;;4720U C 031054

**OWNER REGISTER**

Name \_\_\_\_\_  
Rural Route # \_\_\_\_\_  
County \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Serial Number \_\_\_\_\_  
Operator's Manual No. OM-E73382  
Date Sold \_\_\_\_\_


AB5; E03;;4720U D 310584

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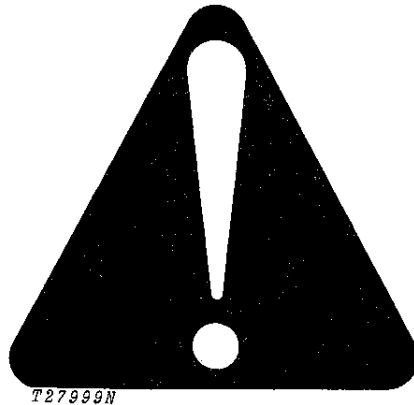
# Safety

## OBSERVE SAFETY SIGNS AND MESSAGES

 **CAUTION:** This message is used for general reminders of good safety practices or to direct attention to unsafe practices. The message will appear in your operator's manual and/or the sign will appear on the machine with the color combination of yellow and black.

**WARNING:** This message denotes a specific potential hazard. The sign will be displayed on the machine in areas of potential hazard. The sign will have the color combination of yellow and black.

**DANGER:** This message denotes the most serious specific potential hazard. The sign will be displayed on the machine in areas of potential hazard. The sign will have the color combination of red and white.



AA7;T27999 N E03;4720C A 130484

## OBSERVE "IMPORTANT" MESSAGES

Messages labeled "Important" will appear in your operator's manual and/or on the machine to provide specific instructions for performing adjustments, services, etc. If these instructions are not followed, it could result in damage to the machine.

E05;1424SA B 170682

## PROTECT AGAINST NOISE

Prolonged exposure to loud noise can cause impairment or loss of hearing. Wear a suitable hearing protective device such as earmuffs (A) or earplugs (B) to protect against objectionable or uncomfortable loud noise.



AA7;E19364 E05;1424SA J 170682

### DO NOT MODIFY MACHINE

Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

AA7; E05;1424SA H 170682

### AVOID HIGH-PRESSURE FLUIDS

Escaping fluid under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Keep hands and body away from pinholes and nozzles which eject fluids under high pressure. Use a piece of cardboard or paper to search for leaks. Do not use your hand.

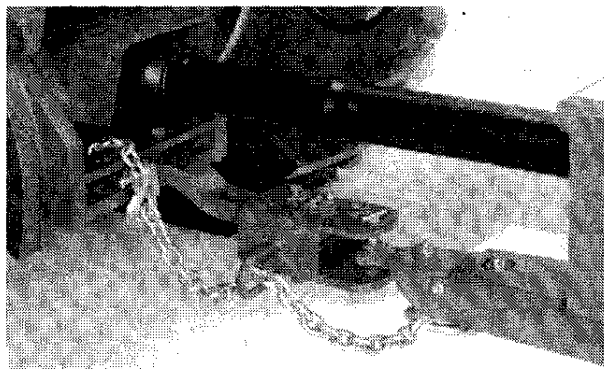
If ANY fluid is injected into the skin, it must be surgically removed within a few hours by a doctor familiar with this type injury or gangrene may result.



AA7;X9811 E03;58205A H 221082

### USE A SAFETY CHAIN

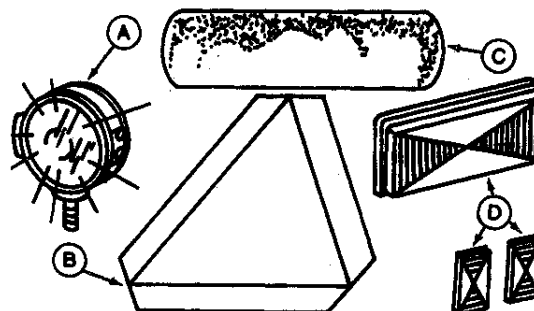
A safety chain will help control drawn equipment should it accidentally separate from the drawbar while transporting. Using the appropriate adapter parts, attach the chain to the tractor drawbar support or other specified anchor location. Provide only enough slack in the chain to permit turning. See your John Deere dealer for a chain with a strength rating greater than the gross weight of the towed load.



AA7;E24004 E03;4720C B 130484

### USE SAFETY LIGHTS AND DEVICES

When transporting the equipment on a road or highway at night or during the day, use accessory lights (A), SMV emblems (B), reflector tape (C), or reflectors (D), for adequate warning to operators of other vehicles. In this regard, check local governmental regulations. Various safety lights and devices are available from your John Deere dealer.



A—Lights  
C—Reflective Tape

B—SMV Emblem  
D—Reflectors

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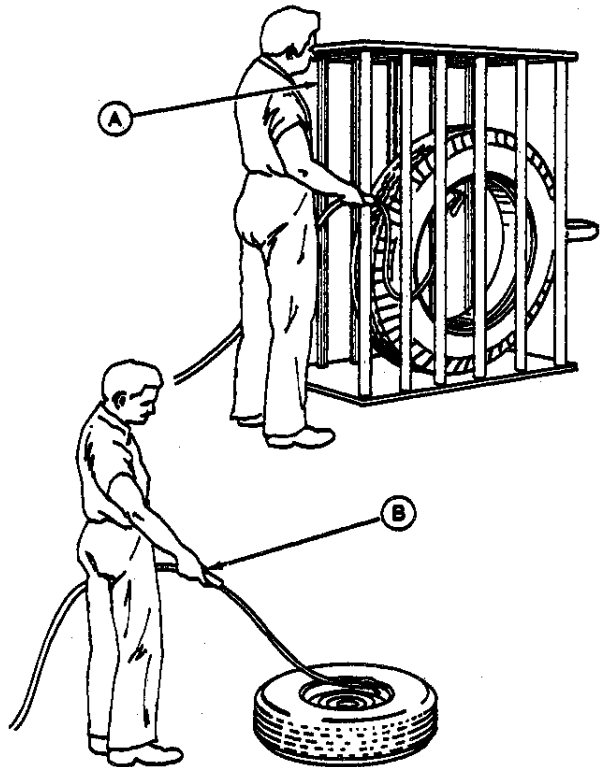
## SERVICE TIRES SAFELY

Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion which may result in serious injury or death. Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job. Have it done by your John Deere dealer or a qualified tire repair service.

When sealing tire beads on rims, never exceed 35 psi (241 kPa) (2.4 bar) or maximum inflation pressures specified by tire manufacturers for mounting tires. Inflation beyond this maximum pressure may break the bead, or even the rim, with dangerous explosive force. If both beads are not seated when the maximum recommended pressure is reached, deflate, reposition tire, relubricate bead and reinflate.

Detailed tire mounting instructions, including necessary safety precautions, are contained in John Deere Fundamentals of Service (FOS) Manual 55, Tires and Tracks, available through your John Deere dealer. Such information is also available from the Rubber Manufacturers Association and from tire manufacturers.

- A—Use a Safety Cage if Available.
- B—Do Not Stand Over Tire. Use a Clip-on Chuck and Extension Hose.



AB6;TS0123 053;TSAFT A 091283

## BEFORE OPERATING

Become familiar with operator's manual and machine decals.

Become familiar with all controls affecting machine functions.

Make sure everyone is clear of the machine. Never allow riders on machine or near machine while it is running.

Be sure shields and guards are in place and in good condition before starting. Check rotating shields to ensure they are free to turn. Make necessary repairs if these shields will not turn. Powerline shields are designed to stop rotating upon contact while the shaft continues to rotate.

PTO master shields should be in place at all times.

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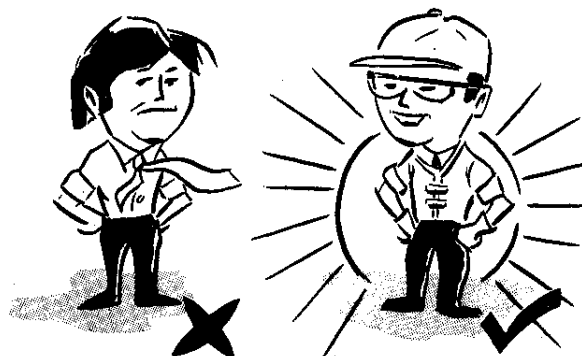
## OPERATE SAFELY

Wear relatively tight and belted clothing to prevent catching on some machine parts.

All machinery should be operated by responsible persons who have been properly instructed and delegated to do so.

Never stand under discharge spout while harvester is operating.

Always operate machine at rated PTO speed.



AA7;E19363 E03;;4720C D 130484

Stop the engine, disengage PTO, and wait for all moving parts to stop before:

- Connecting or disconnecting a PTO shaft.
- Making any adjustment to PTO drive train or hitch.
- Cleaning out PTO driven equipment.
- Searching for detected metal.

When transporting machine on the road, make sure cylinder is in the correct position and use the cylinder lockout.

AA7; E03;;4720C E 240584

## PRACTICE SAFE MAINTENANCE

Before servicing, adjusting, searching for metal, or unplugging the harvester, always:

1. Disengage all power.
2. Shut off engine.
3. Then WAIT until all moving parts have stopped rotating.

AA7; E03;;4720C F 130484

## Safety

To avoid injury or death by being pulled into the machine:

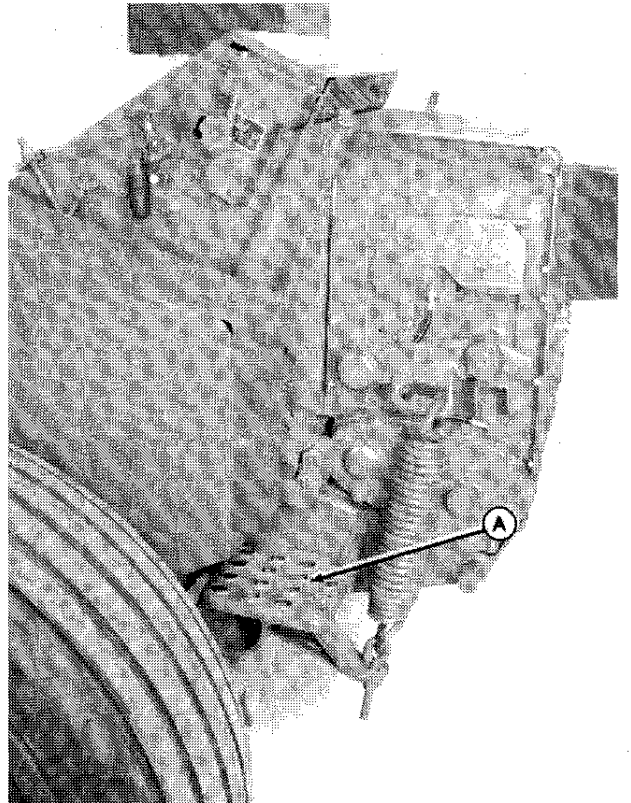
1. Disengage drives and shut off engine before attempting to unplug the harvesting unit or machine. The feed rolls can feed crop material faster than you can release your grip on the material.
2. Never use your hands or feet to feed crop into the forage harvester, with or without a harvesting unit.
3. This forage harvester is intended for mobile field operation only. Never use or modify machine to be used in a stationary operation.



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Stand on step (A) when adjusting the stationary knife.

Use a wood block in the cutterhead to prevent cutterhead from turning when adjusting rotating knives.



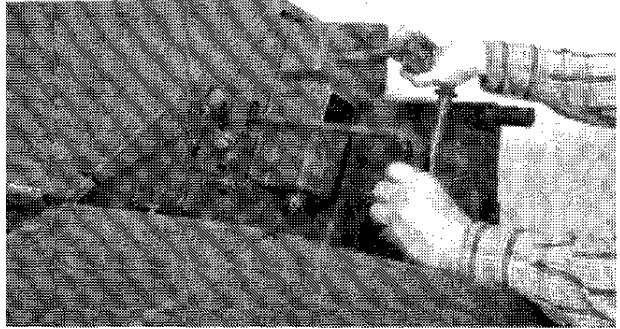
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## Safety

Always close and latch cutterhead door and shields when sharpening knives.

The auger, fan and cutterhead may continue to rotate for a few seconds after power is shut off. To avoid bodily injury, do not open or remove any doors or shields until these rotating parts have stopped completely. Keep the doors and shields latched tightly when sharpening knives.

Replace any guards and shields removed for servicing.

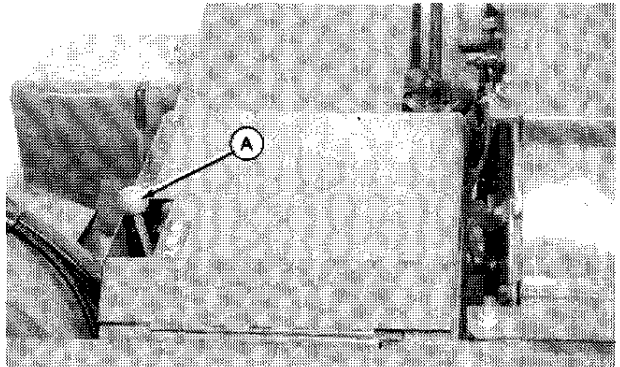


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When machine is NOT in use, raise the harvesting unit and engage the lift lock valve (A) in its locked position or lower the harvesting unit to the ground.

Always place lift lock valve (A) in locked position when transporting machine or working under the machine.

Before operating machine, be sure lift lock valve (A) is in the unlocked position.



AA7;E24007 E03;;4720C J 130484

On machines with ROW-TRAK guidance, avoid being knocked down or crushed by unexpected movement of machine.

Be sure ELECTRICAL POWER is OFF before servicing or unplugging.

If a stalk, leg, hand or other objects contact the ROW-TRAK sensor when the tractor is running, the machine will move.

Be especially careful in the area between the row-crop and tongue.

AA7; E03;;4720C K 130484

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