

475^{plus} Rotary Harvesting Unit



OPERATOR'S MANUAL
475plus Rotary Harvesting Unit
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Stay Clear of Harvesting Unit

Due to their function, the cutting rotors as well as gathering, cross and feed drums cannot be completely shielded. Stay clear of these moving elements during operation. Always disengage main clutch, shut off engine and remove key before servicing or unclogging harvesting unit.



ES118704—UN—21MAR95

ZX,CUT688 -19-10FEB98-1/1

Keep Hands Away From Knives

Never attempt to clear obstructions in front of or on harvesting unit unless main clutch is disengaged, engine shut off and key removed.

Everyone must be clear of the forage harvester before starting the engine.



TS254—UN—23AUG88

FX,KNIFE -19-21DEC90-1/1

Store Attachments Safely

Stored attachments such as dual wheels, cage wheels, and loaders can fall and cause serious injury or death.

Securely store attachments and implements to prevent falling. Keep playing children and bystanders away from storage area.



TS219—UN—23AUG88

DX,STORE -19-03MAR93-1/1

Safety Decals

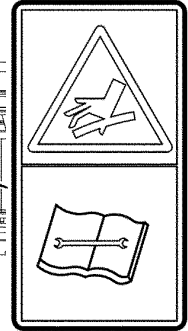
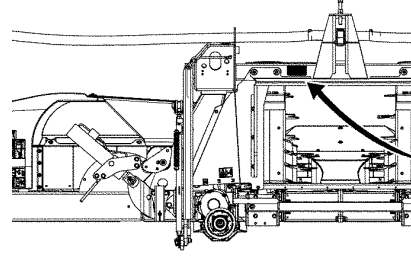
Hydraulics Lines

Escaping fluid under pressure can penetrate the skin causing serious injury.

Avoid the hazard by relieving pressure before disconnecting hydraulic lines.

Search for leaks with a piece of cardboard.

Protect hands and body against fluids under high pressure.



KM237794

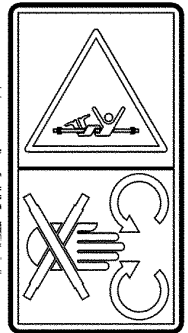
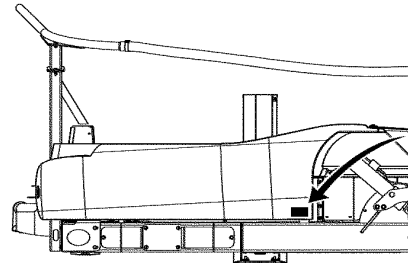
KM237794—UN—12MAR15

KM00321,00003D3 -19-12MAR15-1/1

Driveline

Stay clear of rotating driveline.

Entanglement in rotating driveline can cause serious injury or death. Always keep driveline shields in place.



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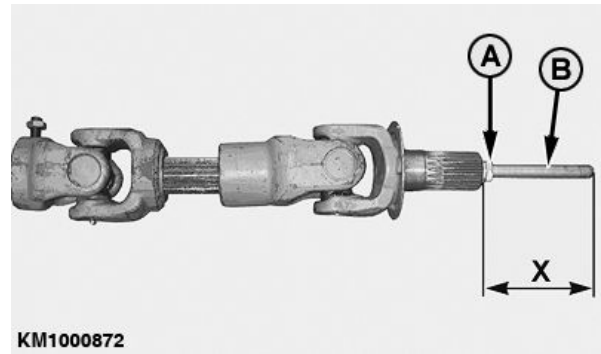
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Attaching to a CLAAS Forage Harvester

- Screw threaded rod (B) into u.j. shaft, adjust to 225 mm (8.86 in.) (X) and counterlock with hex. nut (A).

A—Hex. Nut
B—Threaded Rod

X—225 mm (8.86 in.)



KM1000872

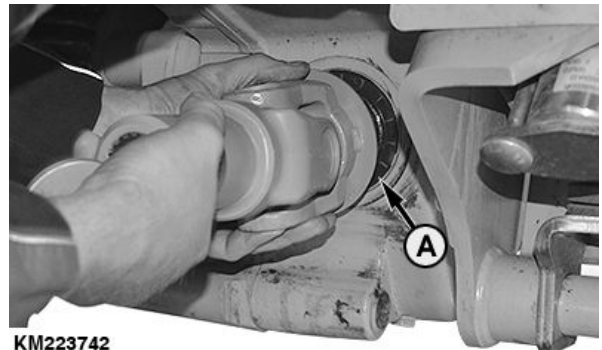
KM1000872—UN—26MAY09

KM00321.00003D8 -19-13MAR15-3/8

- Insert the u.j. shaft into header drive (A) on the forage harvester.
- Secure the u.j. shaft to the rear of the header drive using washer (C) and lock nut (B).
- Put the other end of the u.j. shaft on the rotary harvesting unit gear box (D).

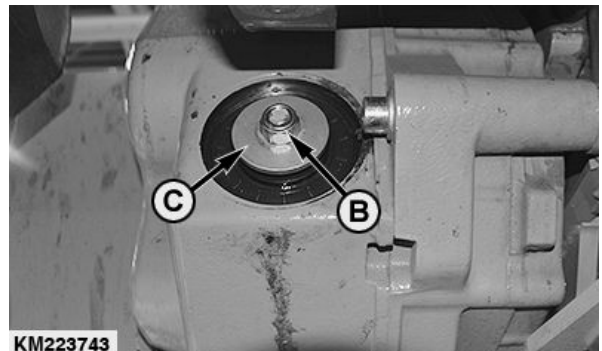
A—Header Drive
B—Lock Nut

C—Washer
D—Gear Box



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KM223742—UN—22OCT14



KM223743

KM223743—UN—22OCT14



KM223744

KM223744—UN—22OCT14

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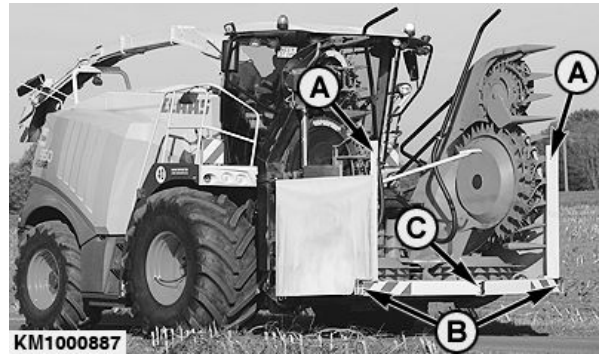
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Accident Prevention

When driving on public roads the entire area around the dividers must be covered with a protective guard (A).

Protective guard (A), assembly sequence:

1. After the rotors have come to a complete stop, fold the side sections.
2. Position accident prevention device (C) on top of the middle divider and unfold it.
3. Install protective guards (A) on left-hand and right-hand side and fasten them with the rope provided with the accident prevention device.
4. The skid shoes, blades and other edges are covered with curtains.



475 rotary harvesting unit shown

A—Protective guard
B—Clearance lights/indicators
C—Accident prevention device

Clearance lights and turn signals:

As the side lamps and indicator lamps on the forage harvester are usually covered by the raised gathering drums, the accident prevention device is equipped with two additional clearance lights/indicators (B). For the 12 V power supply use the 7-pole power outlet socket on the forage harvester.

When driving on public roads the rotary harvesting unit must be raised so that the accident prevention device (C) is approx. 300 mm (1 ft) above the ground at the front.

Ground clearance:

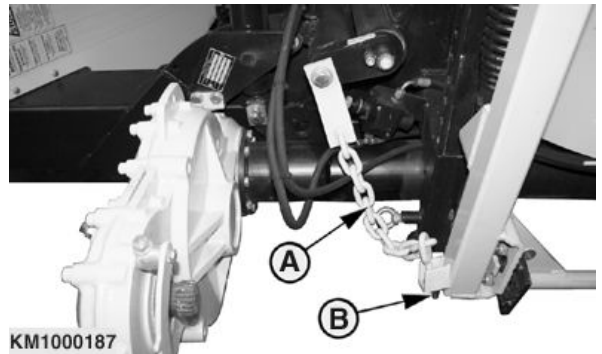
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Locking/Unlocking Oscillating Frame

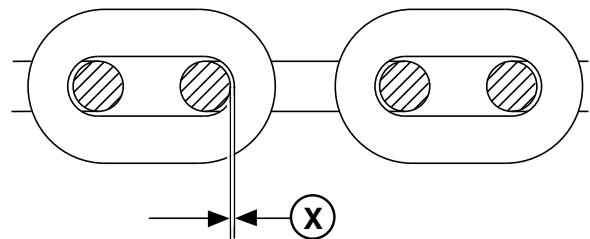
CAUTION: Always lock oscillating frame to avoid uncontrolled movements of the harvesting unit while driving on public road.

When driving on public roads the harvesting unit has to be completely folded up (transport position). In this condition two chains (A) protect the harvesting unit from oscillation.

With harvesting unit in transport position, periodically re-tension the chains (A) by using nut (B) in such a way that a clearance (X) of about 1 mm (0.04 in.) is maintained between the chain links to avoid twisting and ensure a proper function.



A—Chain
B—Nut
X—1 mm (0.04 in.)



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Troubleshooting

475^{plus} Rotary Harvesting Unit

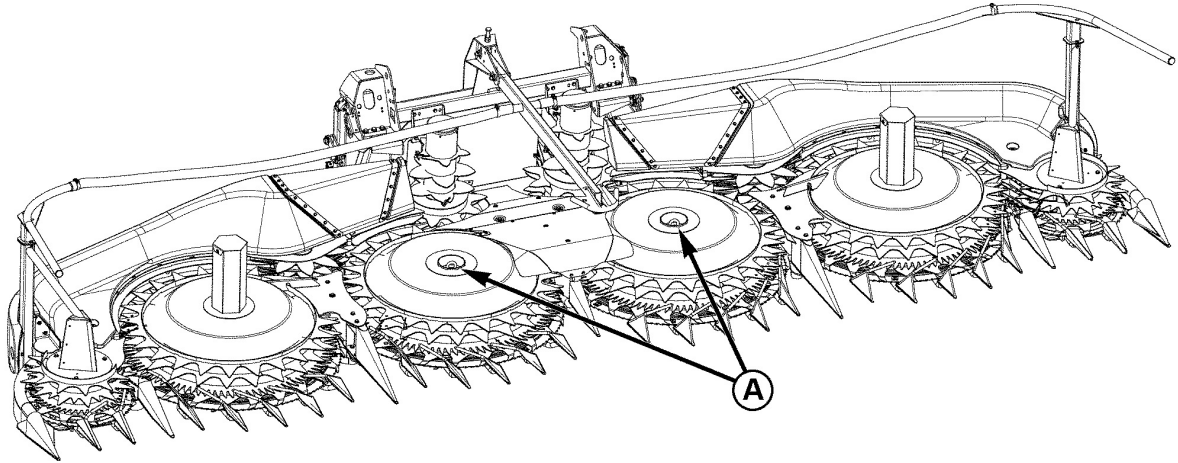
- Shut off the engine
- Take out the ignition key
- Wait until all moving parts have stopped.

⚠ CAUTION: Before making any adjustments or performing any service operations, **ALWAYS:**

Symptom	Problem	Solution
High power requirement despite poor cut	Rotating blades are dull	Replace the rotating blades.
	Defective cleaners	Install new cleaners.
Grinding noise at the blades	Rotor is dirty.	Clean the rotor. If possible, the cutting area should be cleaned out before the unit is used.
	Defective cleaners	Install new cleaners.
Rotary harvesting unit is vibrating	Dirty rotating blades cause imbalance	Clean the rotating blades.
	Asymmetrically rotating blades cause imbalance	Always replace the rotating blades two at a time.
	One of the cleaners has broken	Replace both of the cleaners.
	Imbalance at rotating blade caused by excessive vertical play.	Straighten the blade or install new blades.
Stalks are pushed to the front before they are cut (long, uneven stubble)	Leaves accumulated at the dividers	Clean the dividers.
	One of the cleaners has broken	Replace both of the cleaners.
Gathering drums stop rotating	Blockage in the feeding area	Reverse the gathering drums briefly. Reverse them repeatedly if necessary.
	Worn skid shoes	Replace.
	Defective gear box	Contact your KEMPER dealer.
Gear box overheating	Too much oil or too little oil in the gear box	Check oil level in gear box, and add or drain oil as necessary.
Gathering drums and rotating blades do not start.	Claw clutch defective	Contact your KEMPER dealer.
The entire left or right side of the unit stops rotating.	Left or right friction clutch defective	Contact your KEMPER dealer.
The unit cannot be unfolded or folded.	A foreign body (for example, grain of sand) is obstructing the restrictor	Contact your KEMPER dealer.
Poor cut when the rows are far apart	The unit is tackling seven rows of plants. The middle row is hindering the cut.	Tackle only six rows of plants. Contact your KEMPER dealer if necessary.

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After Each Harvesting Season



KM232875

A—Depressions

- Clean the entire rotary harvesting unit - pay particular attention to the depressions (A) in the gathering drums.
- Change the gear oil in all drives. See General View of Drives and Oil Levels on the Rotary Harvesting Unit.
- Lubricate all grease fittings.
- Check the entire rotary harvesting unit for defective or worn components. Order the relevant parts immediately

from your KEMPER dealer, so that they can be installed in time for the next harvesting season.

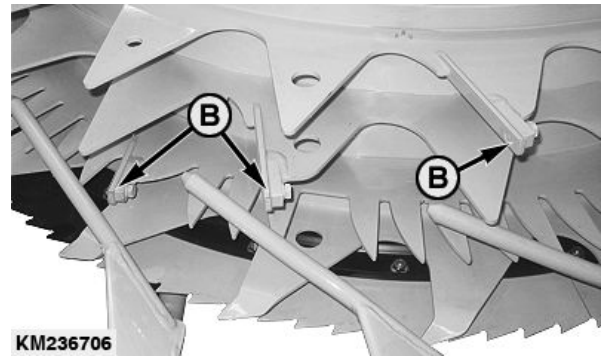
IMPORTANT: Only properly serviced units give the best results.

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KM232875—UN—23FEB15

Check condition of the cleaners (B) frequently. Replace worn parts.

B—Cleaners



KM236706

KM236706—UN—24FEB15

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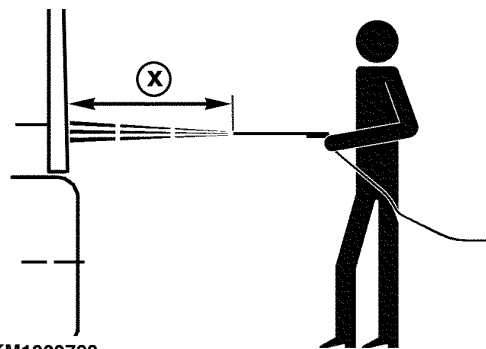
Cleaning Rotary Harvesting Unit

Remove loose crop by means of compressed air and/or a hand brush.

When using high pressure/steam cleaners, keep a minimum distance (X) of 250 mm (9.84 in.). Refer to specifications for the maximum temperature and maximum pressure.

Specification

High pressure/steam cleaner—Max. temperature.....	50 °C (122 °F)
High pressure/steam cleaner—Max. pressure.....	8000 kPa (80 bar; 1160 psi)



KM1000798

KM1000798—UN—09MAR09

X—250 mm (9.84 in.)

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