

Pickup N3003



OPERATOR'S MANUAL

Pickup N3003

OMKM129570 ISSUE L0 (ENGLISH)

Maschinenfabrik Kemper GmbH & Co. KG

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Introduction

Foreword

READ THIS MANUAL carefully to learn how to operate and service your machine correctly. Failure to do so could result in personal injury or equipment damage. This windrow pickup may be installed and operated on a forage harvester only. The user must be entitled to drive a forage harvester on public roads. This manual and safety signs on your machine are available in other languages. Please contact your KEMPER dealer.

THIS MANUAL MUST BE CONSIDERED a permanent part of your machine and must remain with the machine when you sell it.

MEASUREMENTS IN THIS MANUAL are given in metric units. The customary U.S. unit equivalents are also quoted. Use only correct replacement parts and fasteners. Metric and inch fasteners may require a specific metric or inch wrench.

RIGHT-HAND AND LEFT-HAND sides are determined by facing in the direction the implement will travel when going forward.

THE TERM "TRANSPORT" refers to a windrow pickup mounted on a forage harvester and transported from A to B on the forage harvester.

THE TERM "HAULAGE" refers to a windrow pickup loaded on a flatbed carrier and transported from A to B on the flatbed carrier.

LOADING AND HAULING of this windrow pickup must be performed only by persons familiar with how the load is secured, and who can provide evidence of this.

WRITE PRODUCT IDENTIFICATION NUMBERS (P.I.N.) in the "Specifications" or "Product Identification Numbers" sections. Accurately record all the numbers to help in tracing the machine should it be stolen. Your KEMPER dealer also needs these numbers when you order parts. File the identification numbers in a secure place away from machine.

BEFORE DELIVERING THIS MACHINE, your dealer performed a predelivery inspection.

INTENDED USE: THIS WINDROW PICKUP may be used ONLY for picking up crops that have already been cut, such as:

- Grass
- Leguminous crops
- Grain
- Alfalfa

Use in any other way is considered as contrary to the intended use. The manufacturer accepts no liability for damage or injury resulting from this misuse, and these risks must be borne solely by the user.

THIS WINDROW PICKUP MUST NOT be used to manually transfer materials of any sort and is not suitable for picking up:

- tree off-cuts and hedge trimmings
- wood
- metallic objects
- materials that include stones

Compliance with and strict adherence to the conditions of operation, service and repair as specified by the manufacturer also constitute essential elements for the INTENDED USE.

THIS WINDROW PICKUP MUST be serviced and repaired ONLY by industrial mechanics, fitters or persons with comparable qualifications. The electrical system must be repaired only by electricians. The accident prevention regulations, all other generally recognized regulations on safety and occupational medicine and the road traffic regulations must be observed at all times. It is not permitted to alter the machine to accept materials other than those permitted in its intended use. Any arbitrary modifications carried out on this windrow pickup will relieve the manufacturer of all liability for any resulting damage or injury.

KM00321,00008F9 -19-02APR19-1/1

Introduction

Dealer's Record

Owner's Name_____ Date Sold_____

Address_____ Model Number_____

City_____ Serial Number_____

State_____ Zip_____

AG,CC03745,280 -19-09FEB00-1/1

Predelivery Inspection

The following checks, adjustments and service jobs were performed prior to delivery of the machine:

1. ☐ Pickup has been properly assembled.
2. ☐ Optional equipment has been properly installed.
3. ☐ All bolts and nuts have been tightened to the correct torque.
4. ☐ All grease fittings and lubrication points lubricated.
5. ☐ Gear case oil level checked and topped up (if necessary).
6. ☐ Chains are correctly tensioned and lubricated.
7. ☐ All moving parts can move freely.
8. ☐ Check tire pressure; adjust if necessary. The correct tire pressure is 450 kPa bar (4.5 bar) (65.3 psi).
9. ☐ All shields are opening and closing properly.
10. ☐ Test run of the machine has been carried out and is OK.
11. ☐ Hydraulic hoses and connections are free from leaks.
12. ☐ Paint and decals are smooth and neat.
13. ☐ The operator is familiar with the safety precaution to be taken when using the machine.
14. ☐ Operator's manual has been given to the customer.

Date:

Signature Dealer/Service Technician:

KM00321.000025C -19-10JAN14-1/1

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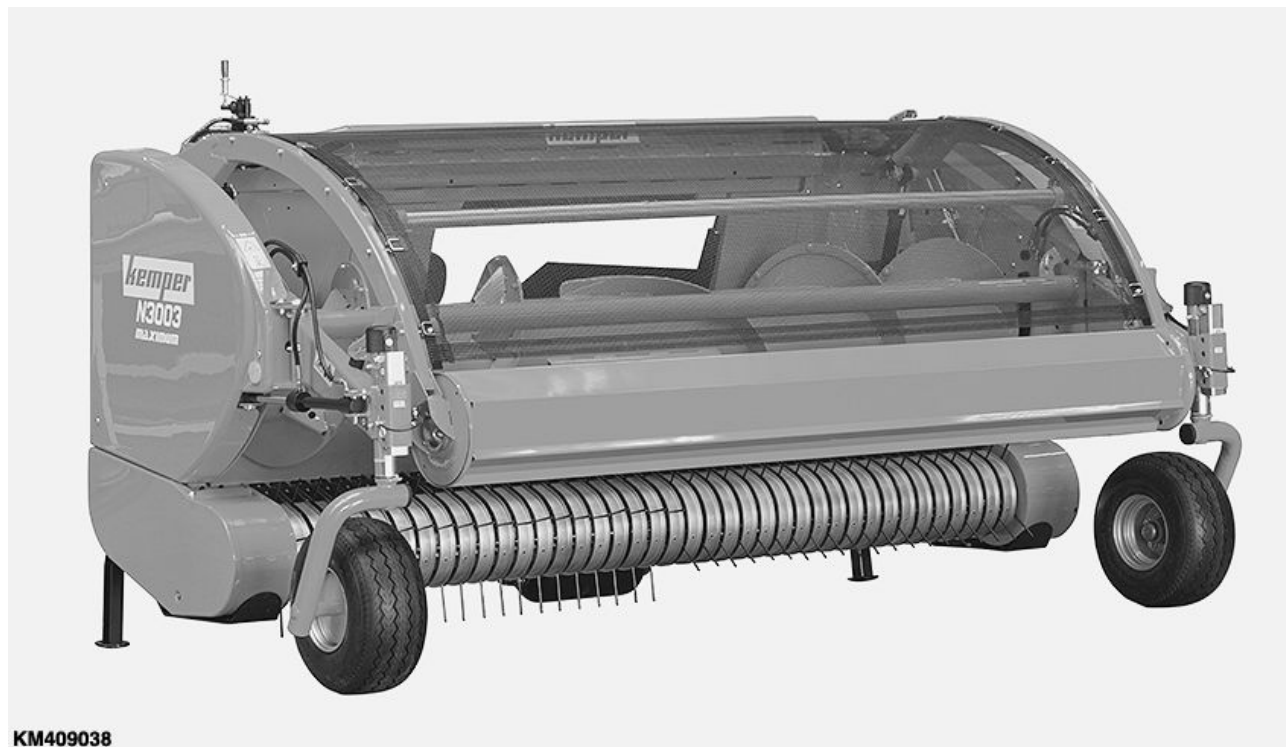
Original Instructions. All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

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Zentralfunktionen
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A John Deere ILLUSTRATION™ Manual

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Identification View

Identification View



KM409038

N3003 Pickup

KM00321,0000A54 -19-21APR20-1/1

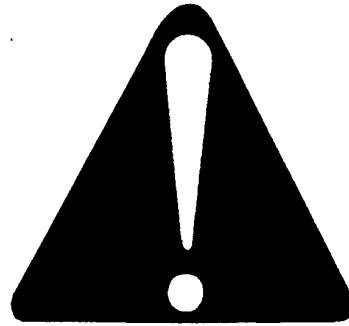
KM409038 —UN—21APR20

Safety

Recognize Safety Information

This is a safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.



T81389 —UN—28JUN13

DX,ALERT -19-29SEP98-1/1

Follow Safety Instructions

Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from your KEMPER dealer.

Before you start working with the machine, learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

If you do not understand any part of this manual and need assistance, contact your KEMPER dealer.



TS201 —UN—15APR13

KM00321,00008FC -19-02APR19-1/1

Understand Signal Words

DANGER; The signal word DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING; The signal word WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION; The signal word CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury. CAUTION may also be used to alert against unsafe practices associated with events which could lead to personal injury.

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards. DANGER or WARNING safety signs are located near specific hazards. General



precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.

TS187 —19—30SEP98

DX,SIGNAL -19-05OCT16-1/1

Observe Road Traffic Regulations

Always observe local road traffic regulations when using public roads.



H28930 — UN—30JUN89

FX,ROAD -19-01MAY91-1/1

Operator Ability

- Machine owners must make sure that operators are responsible, trained, have read the operating instructions and warnings, and know how to operate the machine properly and safely.
- Age, physical ability, and mental capacity can be factors in machine-related injuries. Operators must be mentally and physically capable of accessing the operator station

and/or controls, and operating the machine properly and safely.

- Never allow a child or an untrained person to operate the machine. Instruct all operators not to give children a ride on the machine or an attachment.
- Never operate machine when distracted, fatigued, or impaired. Proper machine operation requires the operator's full attention and awareness.

DX,ABILITY -19-07DEC18-1/1

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

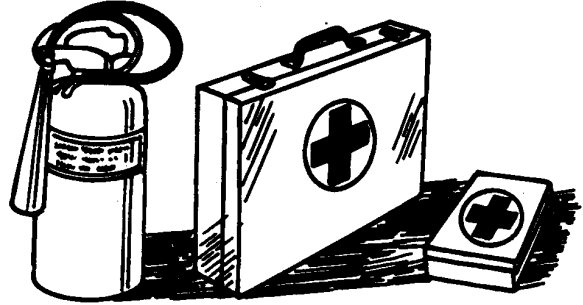
DX,STORE -19-03MAR93-1/1

Prepare for Emergencies

Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



TS291 —UN—15APR13

DX,FIRE2 -19-03MAR93-1/1

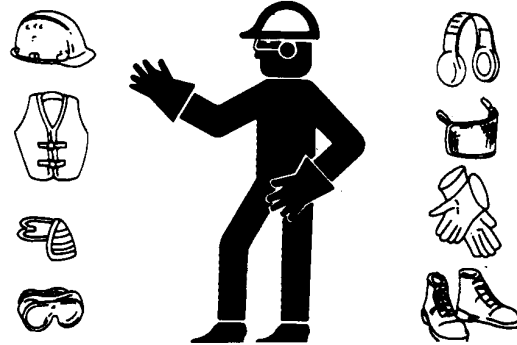
Wear Protective Clothing

Wear close fitting clothing and safety equipment appropriate to the job.

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.

Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating machine.



TS206 —UN—15APR13

DX,WEAR -19-10SEP90-1/1

Check Machine Safety

Always check the road and general operating safety of the machine before using.

FX,READY -19-28FEB91-1/1

Guards and Shields

Keep guards and shields in place all the times. Ensure that they are in good condition and installed correctly.

Always disengage the driveline, shut off engine and remove key before removing any guards or shields.

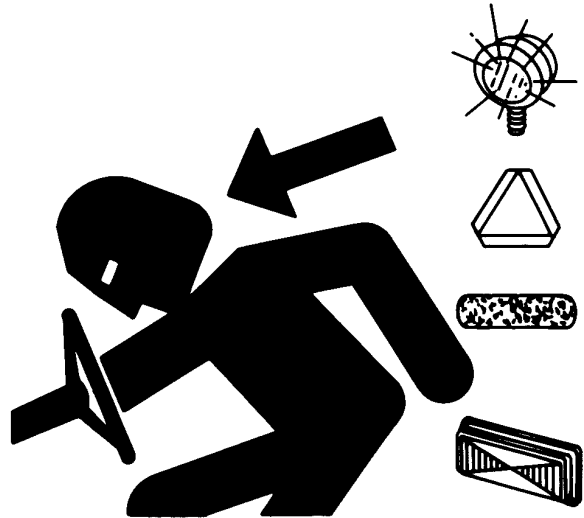
Keep hands, feet and clothing away from moving parts.

CC,GUARDS -19-01DEC91-1/1

Use Safety Lights and Devices

Prevent collisions with other road users. Slow moving tractors with implements or drawn equipment, as well as self-propelled machines are especially dangerous on public roads. Always pay attention to traffic approaching from behind, particularly when changing direction. Provide for safe traffic conditions by using turn signals.

Use headlights, hazard warning lights, turn signals and other safety devices according to the local regulations. Keep safety devices in good condition. Replace missing or damaged items.



TS951 —UN—12APR90

KM00321,00008FD -19-02APR19-1/1

Operate Pickup Safely

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

DO NOT attempt to feed crop into the machine or unplug feed area WHILE PICKUP IS RUNNING. The pickup feeds the material faster than you can release it.

Disengage drive shaft and shut off harvester's engine.

Stand clear of pickup at all times when machine is operating.

CC,630PU 002665 -19-11APR95-1/1

Stay Clear of Rotating Drivelines

Entanglement in rotating driveline can cause serious injury or death.

Keep all shields in place at all times. Make sure rotating shields turn freely.

Wear close-fitting clothing. Stop the engine and be sure that all rotating parts and drivelines are stopped before making adjustments, connections, or performing any type of service on engine or machine driven equipment.



TS1644 —UN—22AUG95

DX,ROTATING -19-18AUG09-1/1

Practice Safe Maintenance

Understand service procedure before doing work. Keep area clean and dry.

Never lubricate, service, or adjust machine while it is moving. Keep hands, feet, and clothing away from power-driven parts. Disengage all power and operate controls to relieve pressure. Lower equipment to the ground. Stop the engine. Remove the key. Allow machine to cool.

Securely support any machine elements that must be raised for service work.

Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris.

On self-propelled equipment, disconnect battery ground cable (-) before making adjustments on electrical systems or welding on machine.

On towed implements, disconnect wiring harnesses from tractor before servicing electrical system components or welding on machine.

Falling while cleaning or working at height can cause serious injury. Use a ladder or platform to easily reach each location. Use sturdy and secure footholds and handholds.



TS218 —UN—23AUG88

DX,SERV -19-28FEB17-1/1

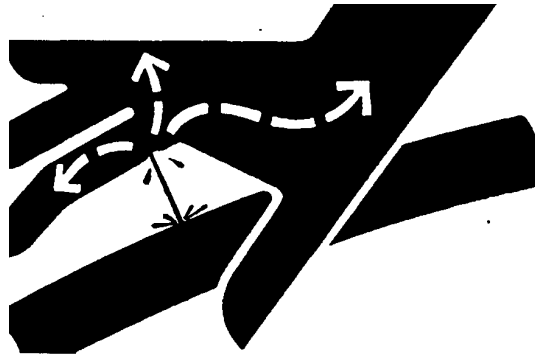
Avoid High-Pressure Fluids

Escaping oil under pressure can have sufficient pressure to penetrate the skin, causing serious personal injury.

Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Check and tighten all connections before applying pressure.

Hydraulic oil escaping from pin-holes is difficult to detect, so use a piece of cardboard to search for leaks. Protect hands and body from high-pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source.



X9811 —UN—23AUG88

KM00321,00008FE -19-02APR19-1/1

Service Tires Safely

⚠ CAUTION: Explosive separation of a tire and rim parts can cause serious injury or death.

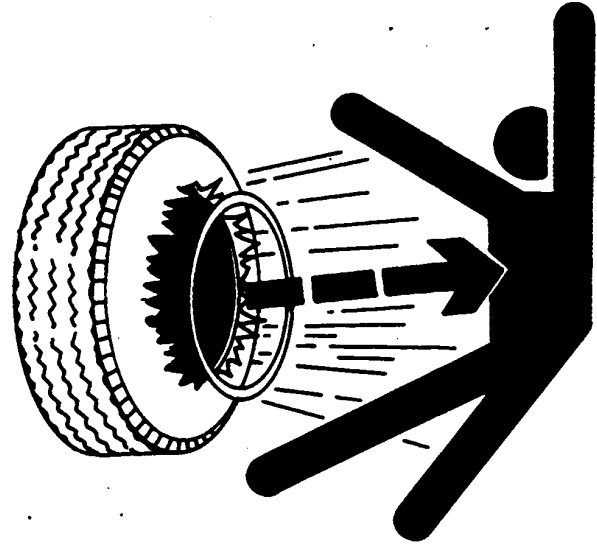
Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job.

Always maintain the correct tire pressure. Do not inflate the tires above the recommended pressure.

Never weld or heat a wheel and tire assembly. The heat can cause an increase in air pressure resulting in a tire explosion. Welding can structurally weaken or deform the wheel.

When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage if available.

Check wheels for low pressure, cuts, bubbles, damaged rims or missing lug bolts and nuts.



TS211 —UN—15APR13

DX,RIM1 -19-27OCT08-1/1

Use Proper Tools

Use tools appropriate to the work. Makeshift tools and procedures can create safety hazards.

Use power tools only to loosen threaded parts and fasteners.

For loosening and tightening hardware, use the correct size tools. DO NOT use U.S. measurement tools on metric fasteners. Avoid bodily injury caused by slipping wrenches.

Use only service parts meeting KEMPER specifications.



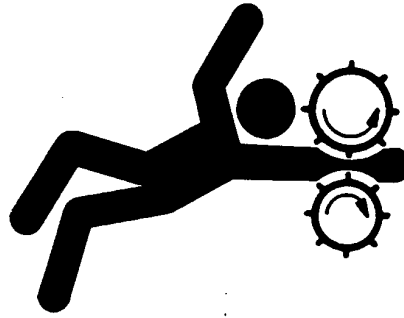
TS779 —UN—08NOV89

KM00321,00008FF -19-02APR19-1/1

Service Machines Safely

Tie long hair behind your head. Do not wear a necktie, scarf, loose clothing, or necklace when you work near machine tools or moving parts. If these items were to get caught, severe injury could result.

Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



TS228 —UN—23AUG88

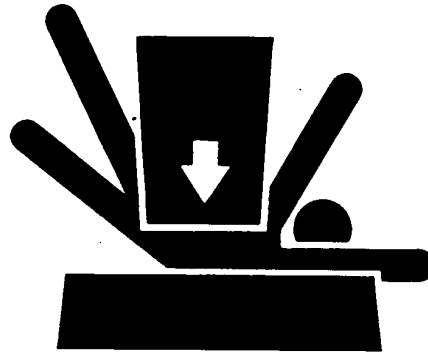
DX, LOOSE -19-04JUN90-1/1

Support Machine Properly

Always lower the attachment or implement to the ground before you work on the machine. If the work requires that the machine or attachment be lifted, provide secure support for them. If left in a raised position, hydraulically supported devices can settle or leak down.

Do not support the machine on cinder blocks, hollow tiles, or props that may crumble under continuous load. Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.

When implements or attachments are used with a machine, always follow safety precautions listed in the implement or attachment operator's manual.



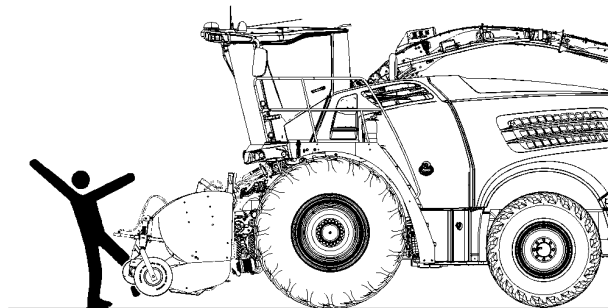
TS229 —UN—23AUG88

DX, LOWER -19-24FEB00-1/1

Stay Clear of Pickup

Stay clear of pickup moving parts during operation.

Always disengage pickup drive, shut off the engine and remove the key from key switch of the forage harvester before servicing the pickup.



ZX1050675

ZX1050675 —UN—06DEC13

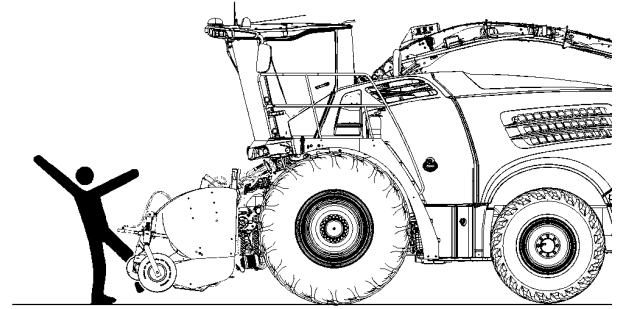
KM00321,000026A -19-07FEB14-1/1

Transport with Harvesting Unit Installed

Before driving forage harvester on public roads, raise harvesting unit and secure it in its fully raised position. It must not, however, obstruct operator's view of the road.

In case of harvesting unit equipped with the crop deflector, always store the deflector in its transport position before driving on the road.

In case of harvesting unit equipped with the roller compression unit, always store the roller compression unit in its transport position before driving on the road.



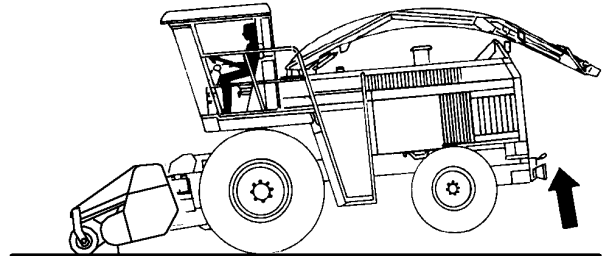
ZX1050675

ZX1050675 — UN — 06DEC13

KM00321,000026B -19-20JAN14-1/1

Ballasting for Safe Ground Contact

Operating, steering and braking performance of forage harvester can be considerably affected by attachments which alter the center of gravity of the machine. To maintain safe ground contact, ballast the harvester at the rear end as necessary. Observe the maximum permissible axle loads and total weights.



KM239211

KM239211 — UN — 18MAR15

KM00321,0000903 -19-02APR19-1/1

Remove Paint Before Welding or Heating

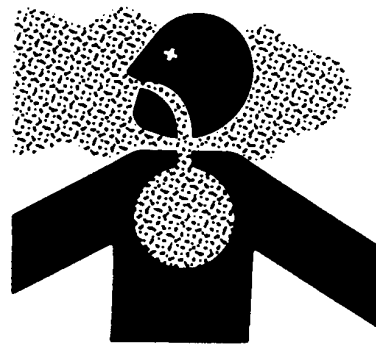
Avoid potentially toxic fumes and dust.

Hazardous fumes can be generated when paint is heated by welding, soldering, or using a torch.

Remove paint before heating:

- Remove paint a minimum of 100 mm (4 in.) from area to be affected by heating. If paint cannot be removed, wear an approved respirator before heating or welding.
- If you sand or grind paint, avoid breathing the dust. Wear an approved respirator.
- If you use solvent or paint stripper, remove stripper with soap and water before welding. Remove solvent or paint stripper containers and other flammable material from area. Allow fumes to disperse at least 15 minutes before welding or heating.

Do not use a chlorinated solvent in areas where welding will take place.



Do all work in an area that is well ventilated to carry toxic fumes and dust away.

Dispose of paint and solvent properly.

TS220 — UN — 15APR13

DX,PAINT -19-24JUL02-1/1

Avoid Heating Near Pressurized Fluid Lines

Flammable spray can be generated by heating near pressurized fluid lines, resulting in severe burns to yourself and bystanders. Do not heat by welding, soldering, or using a torch near pressurized fluid lines or other flammable materials. Pressurized lines can accidentally burst when heat goes beyond the immediate flame area.



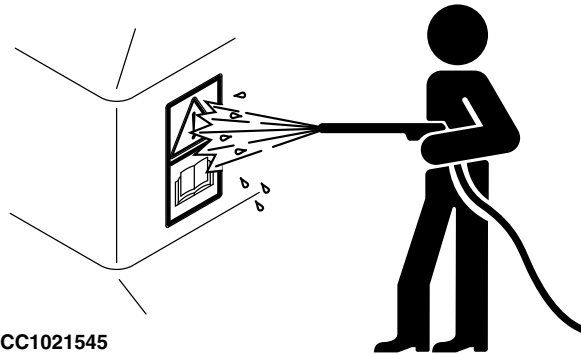
TS953 —UN—15MAY90

DX,TORCH -19-10DEC04-1/1

Avoid High-Pressure Jet on Safety Decals

The water jet can remove or damage safety decals. Avoid to direct the water jet on safety decals.

Immediately replace missing or damaged safety decals. Replacement safety decals are available from your KEMPER dealer.



CC1021545

CC1021545 —UN—23APR02

KM00321,0000900 -19-02APR19-1/1

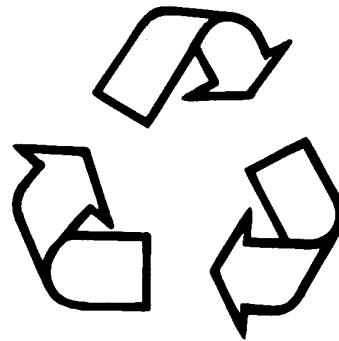
Dispose of Waste Properly

If waste disposal is carried out improperly, this may damage the environment and ecological systems. Potentially harmful waste used with KEMPER equipment include such items as oil, fuel, coolant, brake fluid, filters, and batteries.

Use leakproof containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

Do not pour waste onto the ground, down the drain, or into any water source.

Air-conditioning refrigerants escaping into the air can damage the Earth's atmosphere. Government regulations may require a certified air-conditioning service center to recover and recycle used air-conditioning refrigerants.



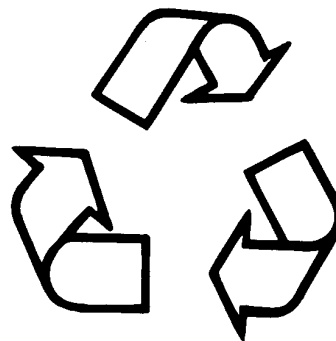
TS1133 —UN—15APR13

KM00321,0000901 -19-02APR19-1/1

Decommissioning: Proper Recycling and Disposal of Fluids and Components

Safety and environmental stewardship measures must be taken into account when decommissioning a machine and/or component. These measures include the following:

- Use appropriate tools and personal protective equipment such as clothing, gloves, face shields or glasses, during the removal or handling of objects and materials.
- Follow instructions for specialized components.
- Release stored energy by lowering suspended machine elements, relaxing springs, disconnecting the battery or other electrical power, and releasing pressure in hydraulic components, accumulators, and other similar systems.
- Minimize exposure to components which may have residue from agricultural chemicals, such as fertilizers and pesticides. Handle and dispose of these components appropriately.
- Carefully drain engines, fuel tanks, radiators, hydraulic cylinders, reservoirs, and lines before recycling components. Use leak-proof containers when draining fluids. Do not use food or beverage containers.
- Do not pour waste fluids onto the ground, down a drain, or into any water source.
- Observe all national, state, and local laws, regulations, or ordinances governing the handling or disposal of waste fluids (example: oil, fuel, coolant, brake fluid);



TS1133—UN—15APR13

filters; batteries; and, other substances or parts. Burning of flammable fluids or components in other than specially designed incinerators may be prohibited by law and could result in exposure to harmful fumes or ashes.

- Service and dispose of air conditioning systems appropriately. Government regulations may require a certified service center to recover and recycle air conditioning refrigerants which could damage the atmosphere if allowed to escape.
- Evaluate recycling options for tires, metal, plastic, glass, rubber, and electronic components which may be recyclable, in part or completely.
- Contact your local environmental or recycling center, or your KEMPER dealer for information on the proper way to recycle or dispose of waste.

KM00321.000092B -19-13APR19-1/1

Protect Against Noise

There are many variables that affect the sound level range, including machine configuration, condition and maintenance level of the machine, ground surface, operating environmental, duty cycles, ambient noise, and attachments.

Exposure to loud noise can cause impairment or loss of hearing.

Always wear hearing protection. Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



TS207—UN—23AUG88

DX,NOISE -19-03OCT17-1/1

Safety Decals

Pictorial Safety Signs

At several important places of this machine safety signs are affixed intended to signify potential danger. The hazard is identified by a pictorial in a warning triangle. An adjacent pictorial provides information how to avoid personal injury. These safety signs, their placement on the machine and a brief explanatory text are shown below.



TS231 —19—07OCT88

FX,WBZ -19-19NOV91-1/1

Replace Safety Signs

Replace missing or damaged safety signs. Use this operator's manual for correct safety sign placement.

There can be additional safety information contained on parts and components sourced from suppliers that is not reproduced in this operator's manual.

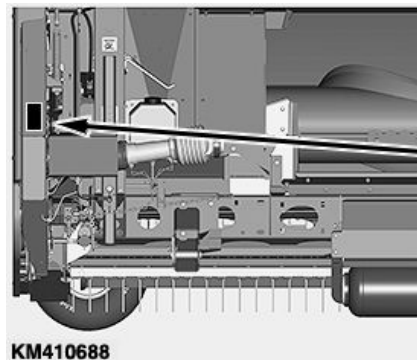


TS201 —UN—15APR13

DX,SIGNS -19-18AUG09-1/1

Operator's Manual

This operator's manual contains all important information necessary for safe machine operation. Carefully observe all safety rules to avoid accidents.

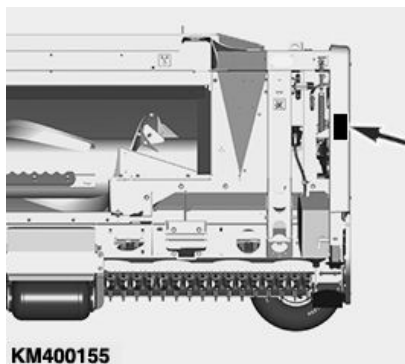


KM410688 —UN—30APR20

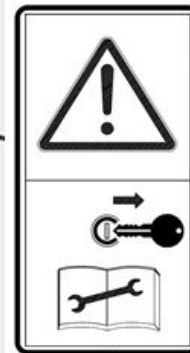
KM00321,0000A63 -19-30APR20-1/1

Repair and Maintenance

Before carrying out adjustment, repair and maintenance work, shut off forage harvester engine and remove ignition key.



KM400155



KM400155 —UN—16JAN20

KM00321,00009CC -19-16JAN20-1/1

Pickup

DANGER - stay clear of header. Disengage header drive, shut off engine, and remove ignition key before servicing or unclogging header. Do not allow persons or clothing to be near auger when it is in motion.



KM400156



KM400156 —UN—06FEB20

KM00321,0000A55 -19-21APR20-1/1

Height Adjustable Compression Device

Never reach into the crushing danger area as long as the compression device may move.



KM402655

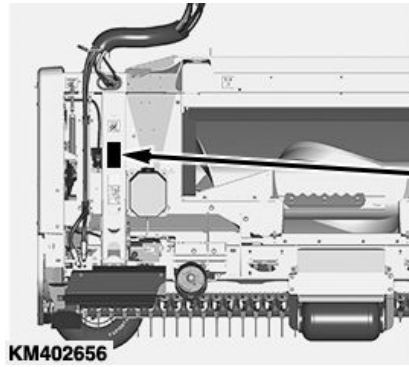


KM402655 —UN—06FEB20

KM00321,00009CE -19-16JAN20-1/1

Hydraulic Lines

Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines.



KM402656

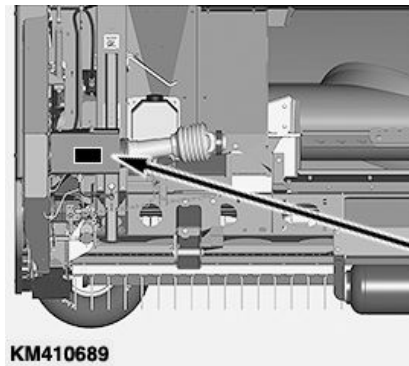


KM402656 —UN—16JAN20

KM00321,00009CF -19-16JAN20-1/1

Stay clear of rotating driveshaft

Entanglement in rotating driveshafts can cause serious injury or death. Keep driveshaft shields in place at all times.



KM410689



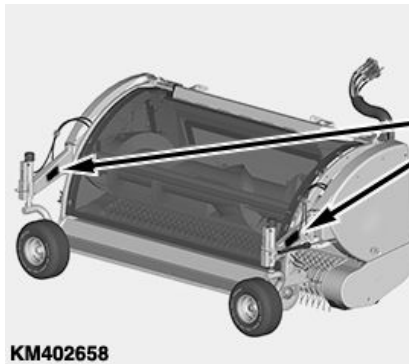
KM410689 —UN—30APR20

KM00321,0000A64 -19-30APR20-1/1

Pickup Wheels

To avoid crushing injury between pickup and wheel, engage tongue stop before making adjustments or servicing machine.

Make sure bystanders are clear of machine before swinging wheels. Operate controls only from seat.



KM402658

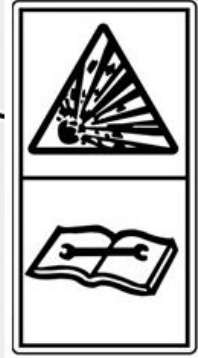
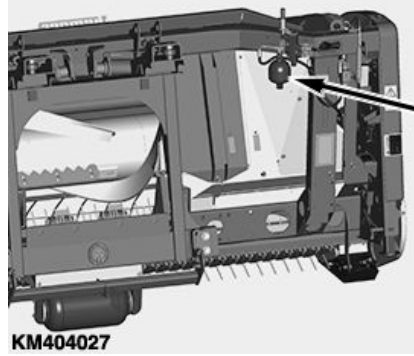


KM402658 —UN—06FEB20

KM00321,00009D1 -19-16JAN20-1/1

Pressure accumulator – Support pressure control of the windrow compressor roll

Avoid bodily injuries from hydraulic oil and gas under pressure.



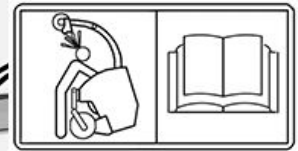
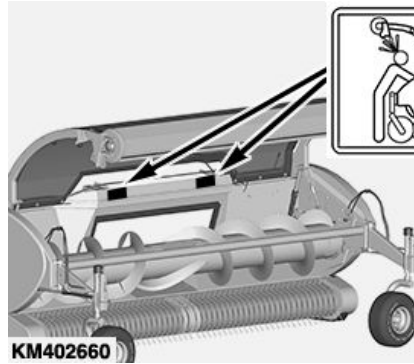
KM404027 —UN—08FEB20

KM00321.0000A56 -19-21APR20-1/1

Roller Compression Unit - Tips of Rake

DANGER - Pay extreme attention when clearing blockages or working under a raised roller compression unit. The tips of the rake can cause serious injuries.

Always raise the roller compression unit and the entire pickup completely before clearing blockages.



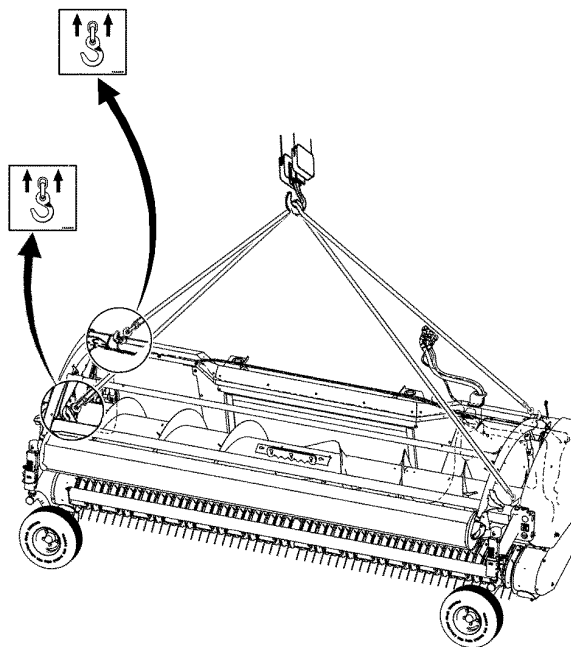
KM402660 —UN—16JAN20

KM00321.00009D3 -19-24JAN20-1/1

Haulage

Windrow Pickup Hanging Points

Should the pickup be moved without attaching it to a self propelled forage harvester, use the hanging points shown.

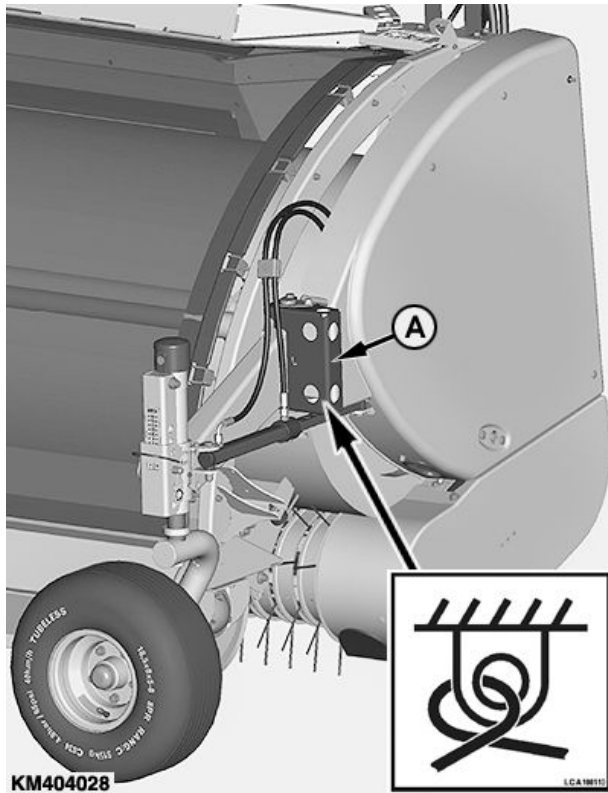


KM1002393

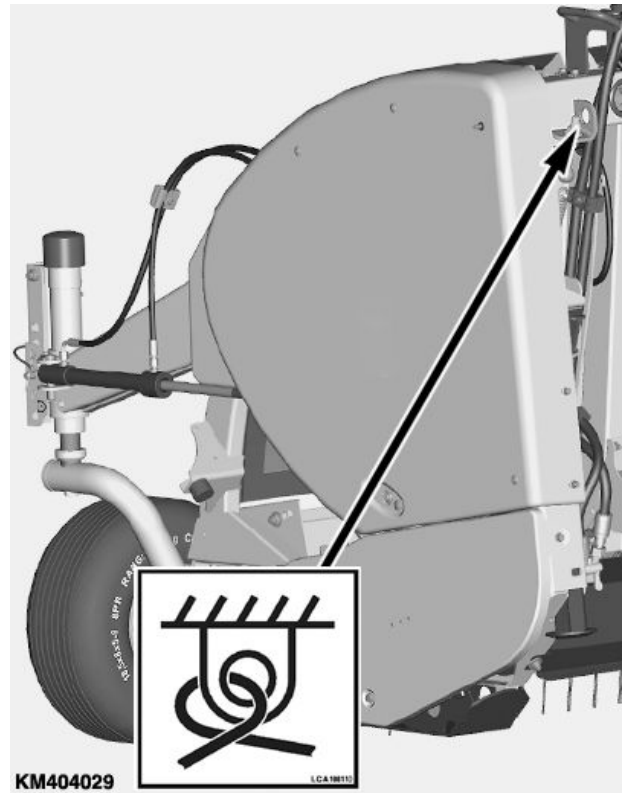
KM1002393 — UN—17JAN14

KM00321,0000268 -19-07FEB14-1/1

Securing Pickup for Haulage (Lashing Points)



Lashing Points (Front)



Lashing Points (Rear)

A—Bracket

During haulage on a truck or a trailer, use the intended holes on the frame to secure the machine during haulage (see illustration).

NOTE: Remove brackets (A) from pickup after haulage.

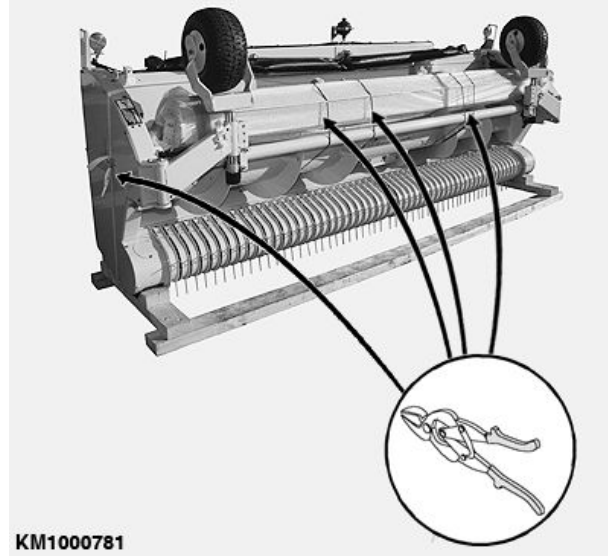
KM00321,00009F1 -19-06FEB20-1/1

Preparing the Pickup

Unpacking and First Setup

As soon as packaging material is removed, check the pickup for any damage that might have been incurred during transport.

Complete pickup and assemble all options per instructions delivered with the pickup.



KM1000781 —UN—30MAR12

KM00321,000010E -19-03FEB09-1/1

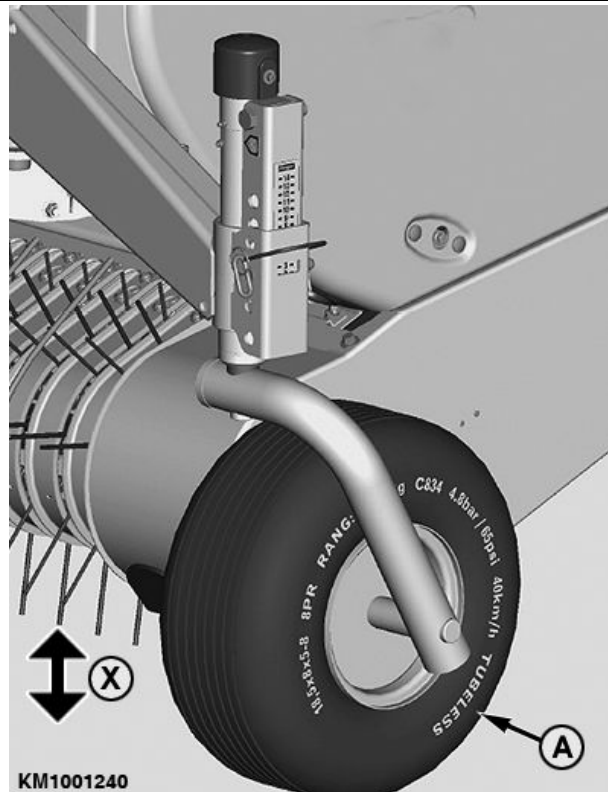
Set Gauge Wheel Height

Adjust the pickup so that the cylinder teeth are X = 50 mm (2 in.) above the ground.

For proper adjustment see Adjusting Gauge Wheel Height in Operating the Pickup Section.

A—Gauge wheel

X—50 mm (2 in.)



KM1001240 —UN—22JAN20

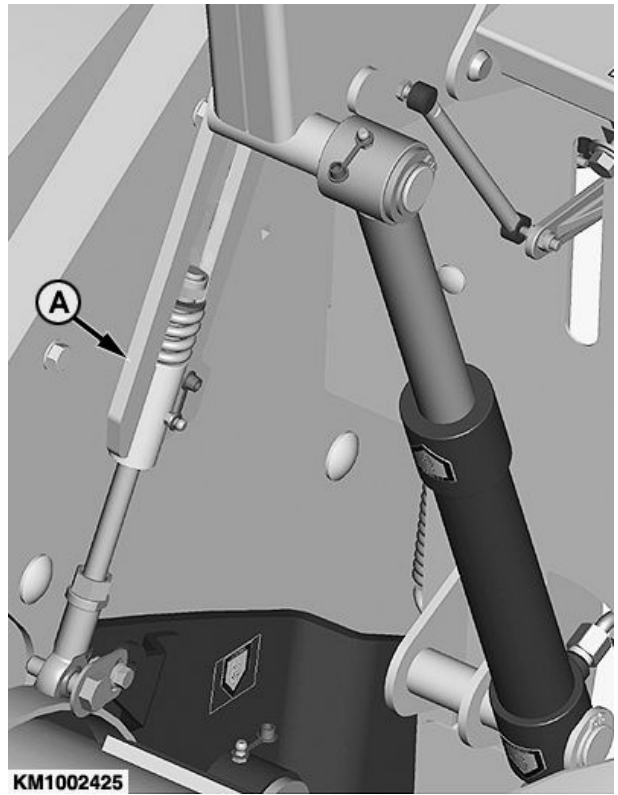
KM00321,0000373 -19-15OCT10-1/1

Check Adjustment of Automatic Auger Lifting

After all options have been properly assembled, check adjustment of auger lifting device (A) on either side.

For proper adjustment see Adjusting Automatic Auger Lifting in Operating the Pickup Section.

A—Auger Lifting Device



KM1002425 —UN—29JAN14

KM00321,0000A03 -19-11FEB20-1/1

Attaching the Pickup

Adjust Jackstand Height

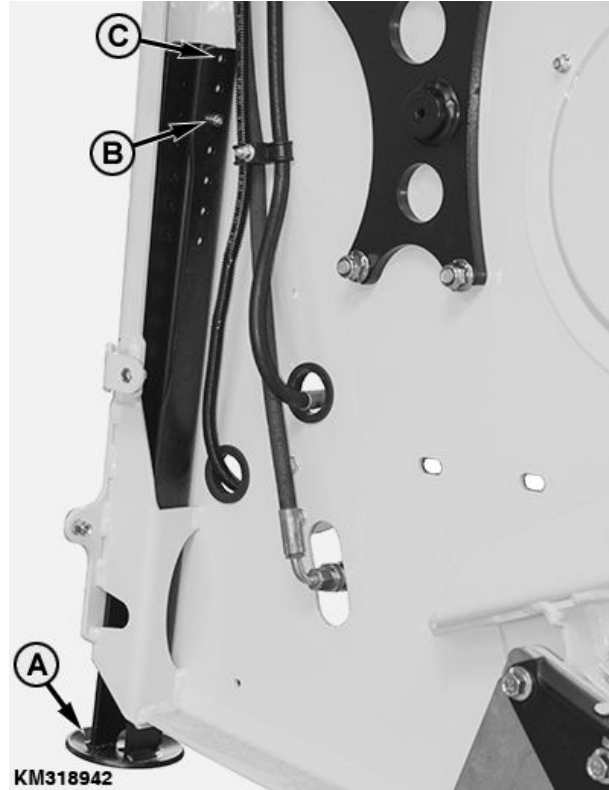
When installing the pickup on a forage harvester for the first time, it is necessary to adjust the height of jackstands (A) in relation to the size of the tires on the harvester. To do this, it is necessary to take off the outer shields at left and right.

There are several positions for screw (B).

- Screw (B) is installed in the third borehole when it leaves the factory.
- When the forage harvester is equipped with 42-inch tires, install screw (B) in the upper borehole (C).
- On all other tire configurations, take out screw. Lower pickup to a suitable height and re-install screw (B) in the appropriate borehole.
- Re-install shields at left and right.

A—Jackstand
B—Screw

C—Upper Borehole



KM318942 —UN—19JUN17

KM00321,0000672 -19-23JUN17-1/1

Attaching the Pickup

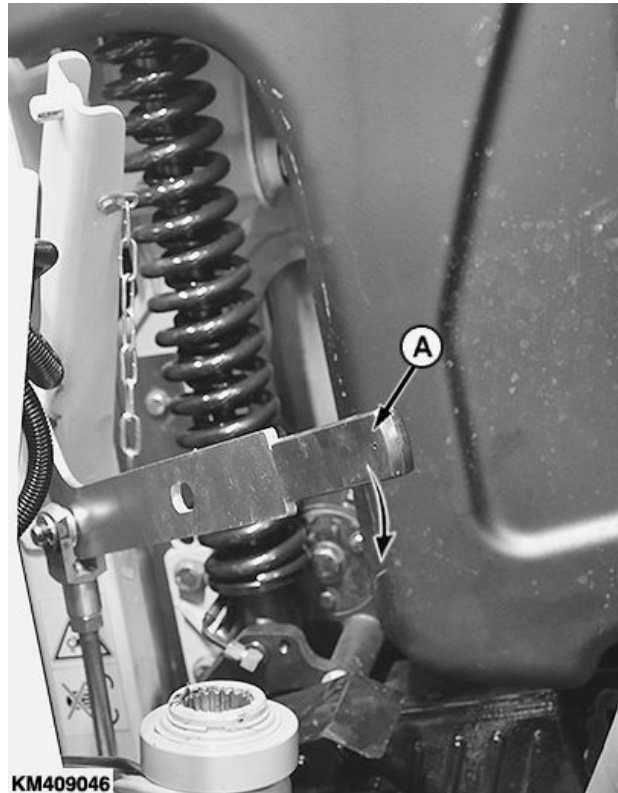
IMPORTANT: Before attaching the pickup, refer to the Operator's Manual of the forage harvester for the correct preparation or adaptation to the machine.

NOTE: The pickup must be attached on level ground.

Attach the pickup as follows:

1. Open cam lock levers on forage harvester.

A—Cam Lock Lever



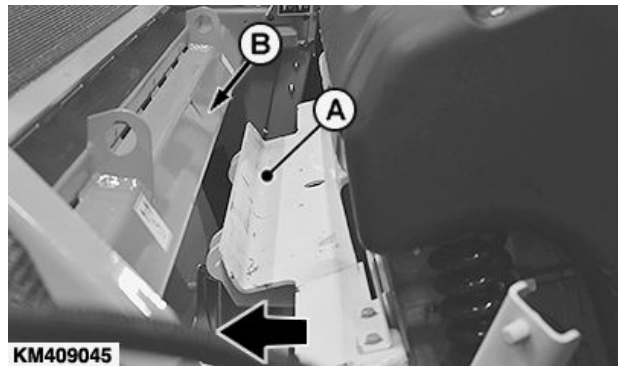
KM409046 —UN—24APR20

KM00321,0000A61 -19-30APR20-1/7

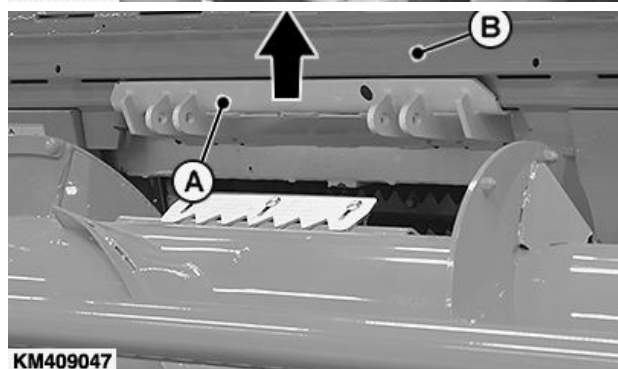
2. Lower the cutterhead assembly until the suspension rail (A) is below the frame tube (B) of the pickup.
3. Drive the forage harvester forward until the engagement position is reached.
4. Hitch up the pickup.

A—Suspension rail

B—Frame tube



KM409045 —UN—24APR20



KM409047 —UN—24APR20

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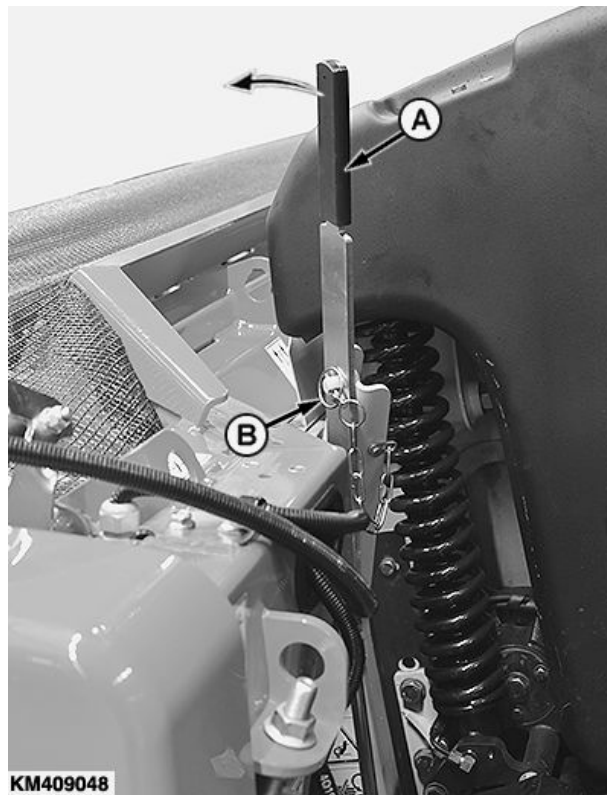
KM00321,0000A61 -19-30APR20-2/7

5. Close cam lock levers (A) on forage harvester and secure with quick-lock pin (B).

IMPORTANT: Check that the locking pawl (C) is fully closed.

A—Cam Lock Lever
B—Quick-Lock Pin

C—Locking Pawl



KM409048 —UN—24APR20



KM409049 —UN—24APR20

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KM00321,0000A61 -19-30APR20-3/7

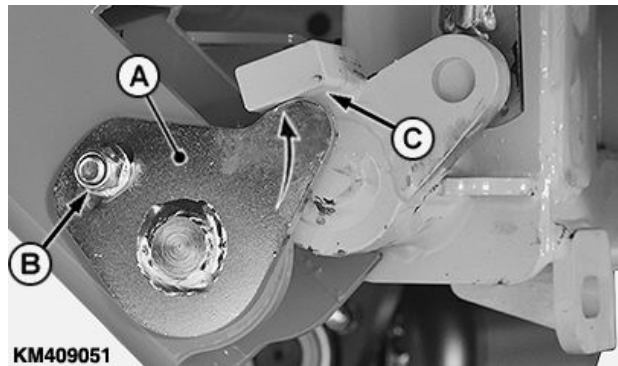
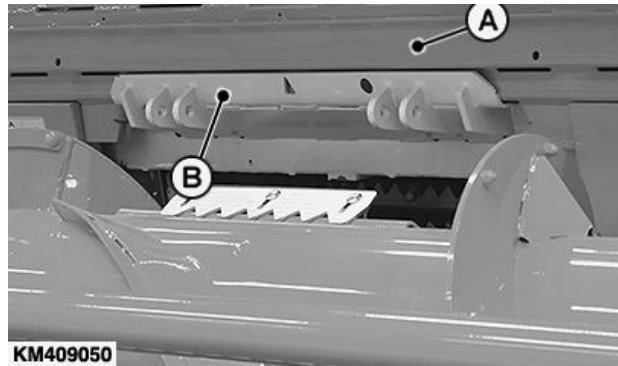
6. Secure pickup against falling of forage harvester:

To prevent the pickup (A) from jumping out of the hitching rail (B) of the forage harvester, proceed as follows:

- Loosen nut (B).
- Turn plate (A) in the direction of the arrow until plate (A) rests under the locking pawl (C).
- Tighten nut (B).

A—Pickup
B—Pickup rail

C—Locking Pawl



KM409050 —UN—24APR20

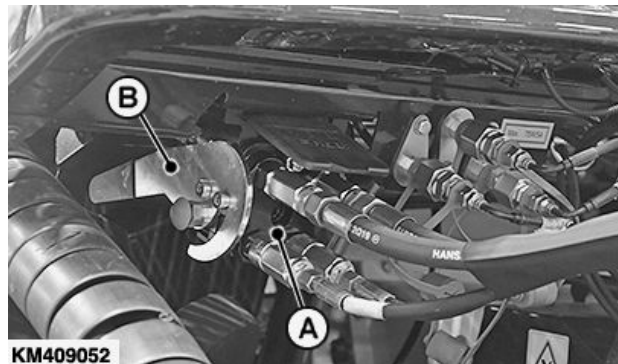
KM409051 —UN—24APR20

KM00321,0000A61 -19-30APR20-4/7

7. Connect multicoupler (A) on the right-hand side of the forage harvester, then close handle (B).
8. Connect wiring harness (C) on the left side of the forage harvester.

A—Multicoupler
B—Handle

C—Wiring harness



KM409052 —UN—24APR20

KM410682 —UN—24APR20

Continued on next page

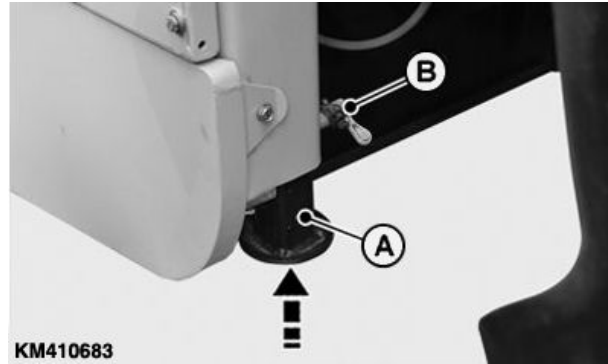
KM00321,0000A61 -19-30APR20-5/7

Attaching the Pickup

- At left and right, raise jackstand (I) and secure with spring-loaded pin (A) in upmost position.

A—Jackstand

B—Pin



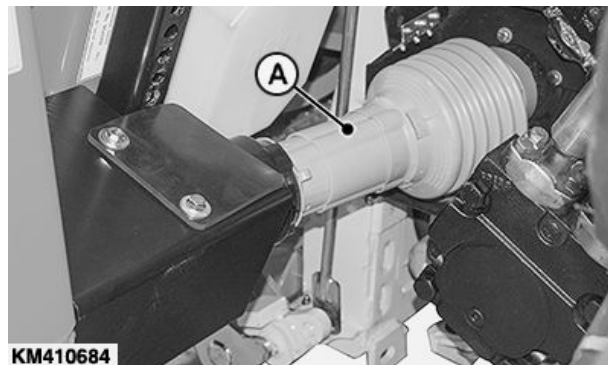
KM410683

KM410683 —UN—24APR20

KM00321,0000A61 -19-30APR20-6/7

- Connect driveshaft (A) to the forage harvester.

A—Driveshaft



KM410684

KM410684 —UN—24APR20

KM00321,0000A61 -19-30APR20-7/7

Adjust the Scrapers

When installing the pickup on a forage harvester for the first time, the clearance between auger flights and scrapers must be adjusted.

Proceed as follows:

- Slacken off nuts (A).
- Move scrapers (B) forward to obtain specified clearance between flight (C) and the scrapers (B).

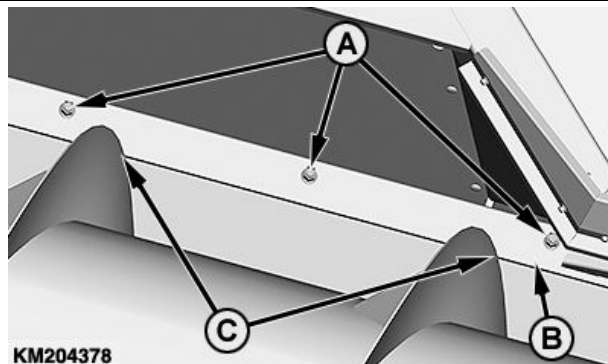
Specification

Flight to	
Scraper—Clearance.....	0—2 mm (0—0.08 in.)

- Retighten nuts (A).
- Turn the auger by hand to make sure it can rotate freely.

IMPORTANT: The scrapers must be installed with screw head facing down.

Ensure that the scrapers are parallel to the auger at all times.



KM204378

A—Nuts
B—Scrapers

C—Flight

KM204378 —UN—06FEB14

KM00321,0000673 -19-23JUN17-1/1

Detaching the Pickup

Detaching the Pickup

IMPORTANT: Before detaching the pickup, make sure that pickup hydraulic functions are all depressurized.

Follow the instructions below:

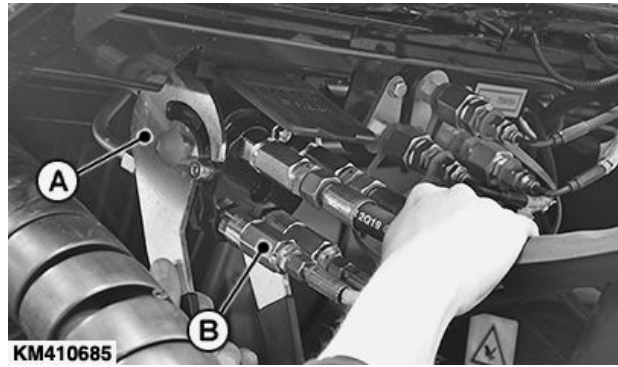
1. Lower the pickup to the ground.

IMPORTANT: Leave the pickup standing at a height that allows the unit to be re-attached to the machine at a later time. Never select a height that is too low.

2. Shut off the engine, remove the key from key switch and apply park brake.
3. Unlatch handle (A), then disconnect the multicoupler (B) from forage harvester.
4. Disconnect wiring harness (C) from forage harvester.

A—Handle

B—Multicoupler



KM410685—UN—24APR20



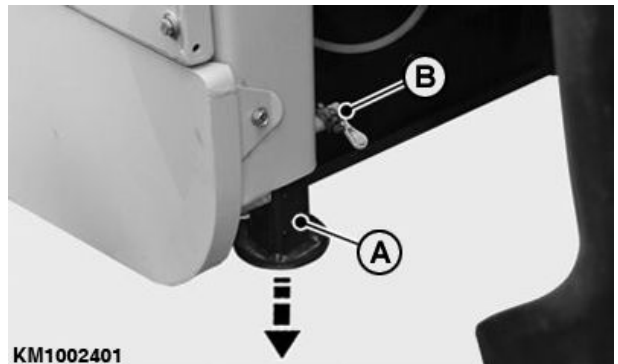
KM410682—UN—24APR20

KM00321,0000A62 -19-24APR20-1/5

5. At left and right, lower jackstands (A) and lock them at a suitable height. Pull out spring-loaded pin (B) and let it re-engage when the jackstand (A) is at the correct height.

A—Jackstand

B—Pin



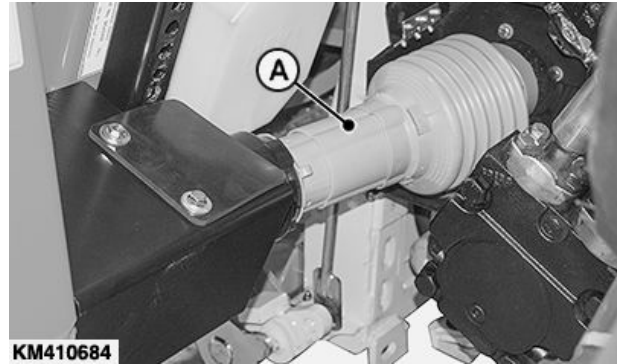
KM1002401—UN—23JAN14

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KM00321,0000A62 -19-24APR20-2/5

6. Remove driveshaft (A).

A—Driveshaft



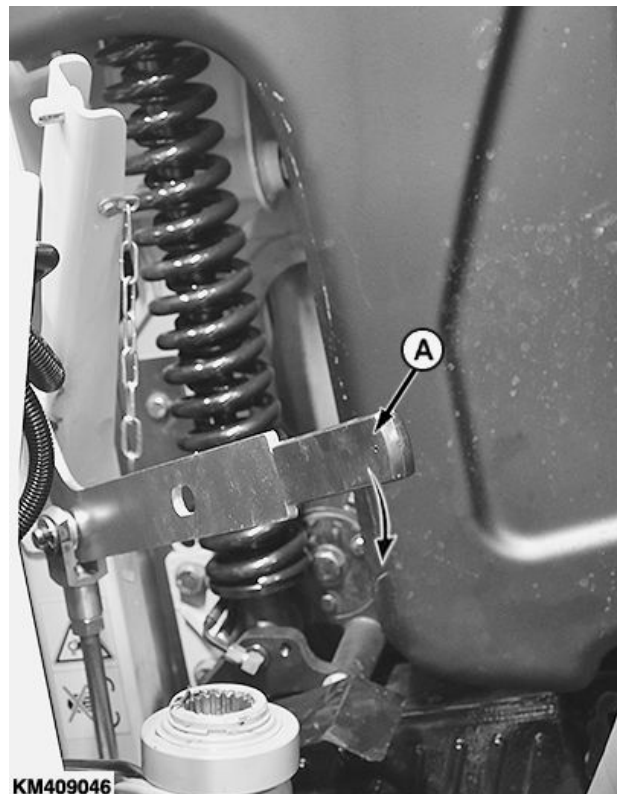
KM410684 —UN—24APR20

KM00321,0000A62 -19-24APR20-3/5

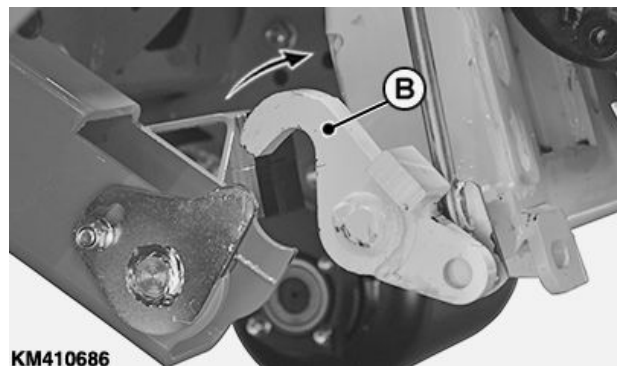
7. Open the cam lock lever (A) so that the locking pawl (B) is fully retracted.

A—Cam Lock Lever

B—Locking Pawl



KM409046 —UN—24APR20



KM410686 —UN—24APR20

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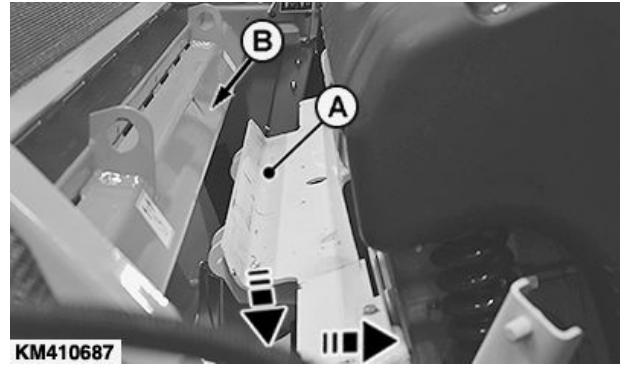
KM00321,0000A62 -19-24APR20-4/5

Detaching the Pickup

8. Start the engine of the forage harvester. Lower the cutterhead assembly until the suspension rail (A) is a little below the frame tube (B) of the pickup. Move out of the pickup frame.

A—Suspension rail

B—Frame tube



KM410687 —JUN—24APR20

KM00321,0000A62 -19-24APR20-5/5

Transporting

Observe Road Traffic Regulations

CAUTION: Before transporting the machine on public roads, make sure that the machine conforms to the regulations on the use of agricultural vehicles on the road.

CAUTION: When using public roads, employ at least one person to warn the driver of the

machine of any potential danger and give him indications to maneuver and travel safely, especially when leaving the farm or the fields, and on roads at junctions.

CAUTION: Check all road and warning lights to be sure that they are functioning.

KM00321,0000907 -19-08APR19-1/1

Setting Windrow Compressor Roll in Transport Position

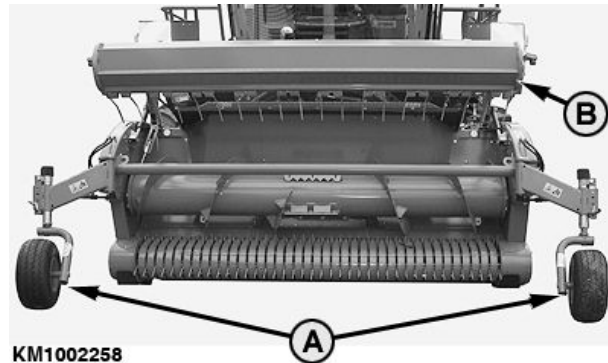
1. Drive forage harvester backwards until depth gauge wheels (A) are fully turned towards the front.
2. Raise front shield of forage harvester so that depth gauge wheels (A) are no longer touching the ground.

NOTE: Depth gauge wheels are automatically locked and secured against twisting when they are off the ground.

Completely raise windrow compressor roll (B).

A—Depth Gauge Wheels

B—Windrow Compressor Roll



KM1002258

KM1002258 —UN—27MAR12

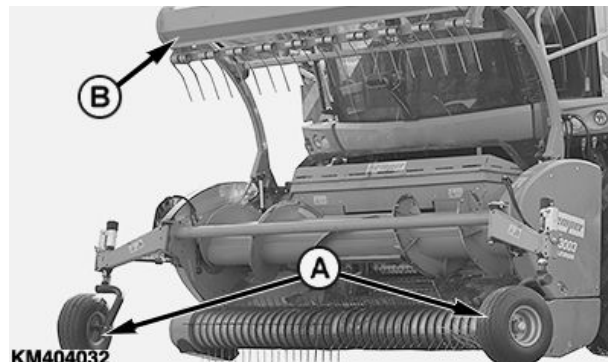
KM00321,0000A57 -19-22APR20-1/3

3. When transporting the pickup on public roads, always fold the depth gauge wheels (A) inwards to the transport position.

IMPORTANT: It is necessary to raise the windrow compressor roll (B) completely before folding the depth gauge wheels (A) inwards. Failure to do so can result in machine damage.

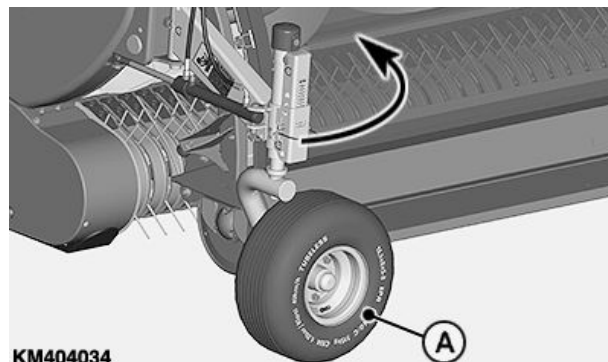
A—Depth Gauge Wheels

B—Windrow Compressor Roll



KM404032

KM404032 —UN—21APR20



KM404034

KM404034 —UN—10FEB20

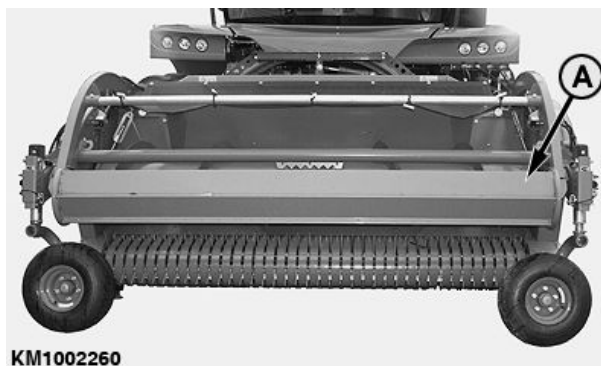
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KM00321,0000A57 -19-22APR20-2/3

4. Slowly lower the windrow compressor roll (A).

IMPORTANT: Make sure that hydraulic pressure in the cylinders has been relieved fully. This ensures that the windrow compressor roll is lowered completely.

A—Windrow Compressor Roll



KM1002260

KM1002260—UN—07JAN15

KM00321,0000A57 -19-22APR20-3/3

Operating the Pickup

Follow Safe Operating Procedures

CAUTION: Before carrying out any adjustment always disengage all drives, shut off engine and wait until all moving parts have stopped.

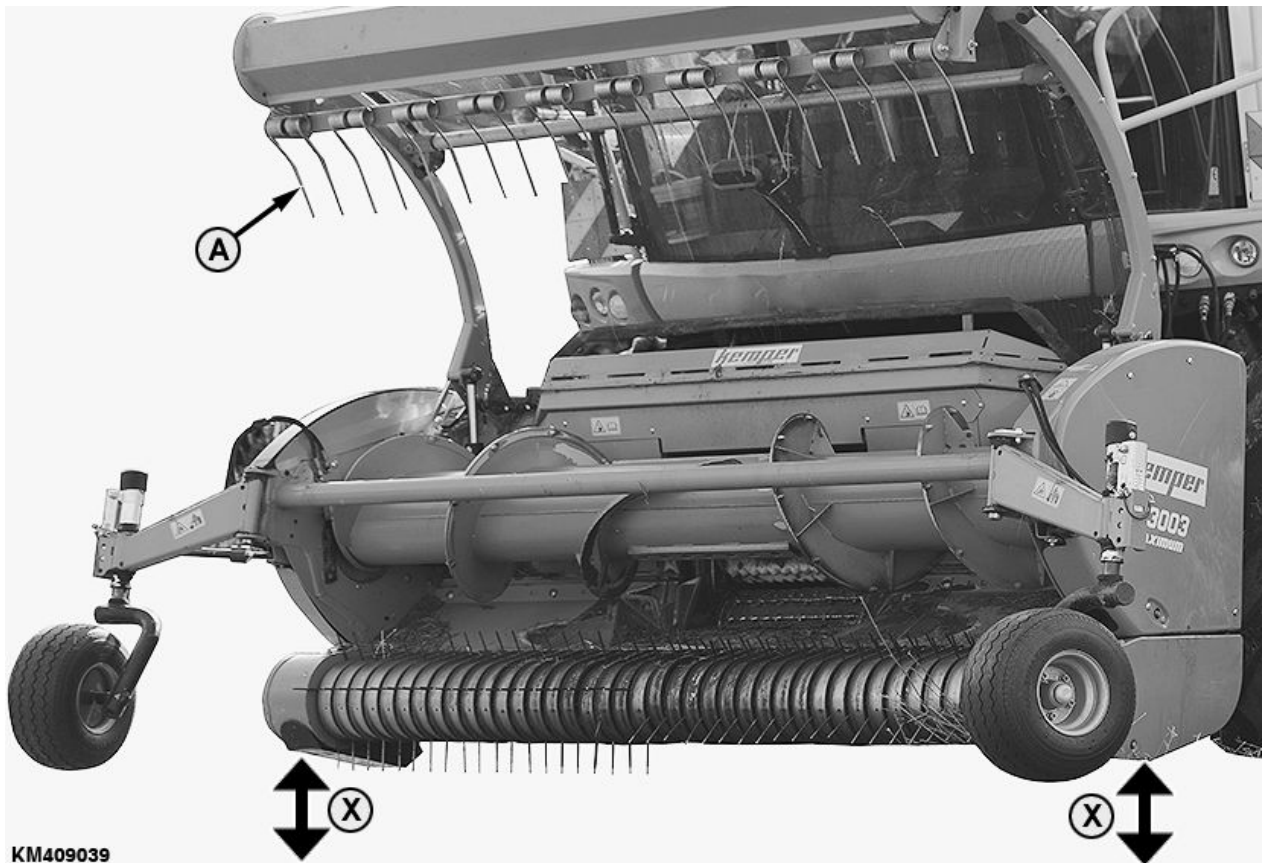
CAUTION: Before working on a raised pickup, place blocks underneath to prevent pickup from lowering.



TS261 —UN—23AUG88

KM00321,0000270 -19-31JAN14-1/1

Working Under a Raised Windrow Compressor Roll



KM409039 —UN—21APR20

A—Rake

X—Pickup Maximum Height

CAUTION: Pay extreme attention when clearing blockages or working under a raised roller compression unit. The tines of the rake (A) can cause serious injury.

Before working under a raised windrow compressor roll, proceed as follows:

1. Raise pickup fully (X).
2. On the forage harvester, secure the header power lift cylinders to prevent unintentional lowering.

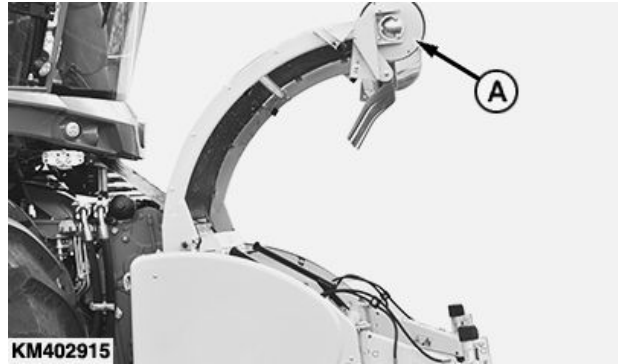
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KM00321,0000A58 -19-30APR20-1/3

3. Raise the windrow compressor roll (A) to its maximum height.

CAUTION: Never work under a raised windrow compressor roll while the driver is still in the cab.

A—Windrow Compressor Roll

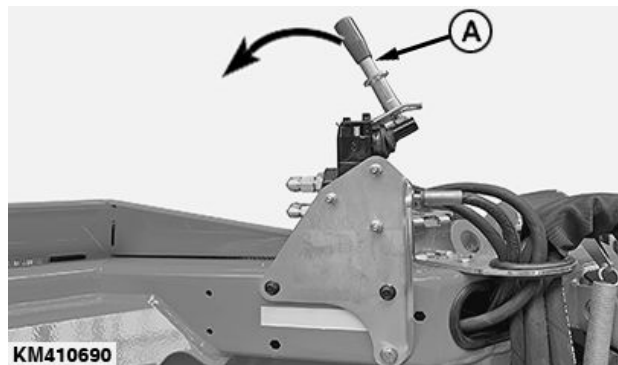


KM402915 —UN—21JAN20

KM00321,0000A58 -19-30APR20-2/3

4. Close safety valve (A) to prevent windrow compressor roll from unintentional lowering.

A—Safety valve



KM410690 —UN—30APR20

KM00321,0000A58 -19-30APR20-3/3

Setting Windrow Compressor Roll in Operating Position

1. Fully extend cylinders (B) to raise windrow compressor roll (A).

A—Windrow Compressor Roll B—Cylinders



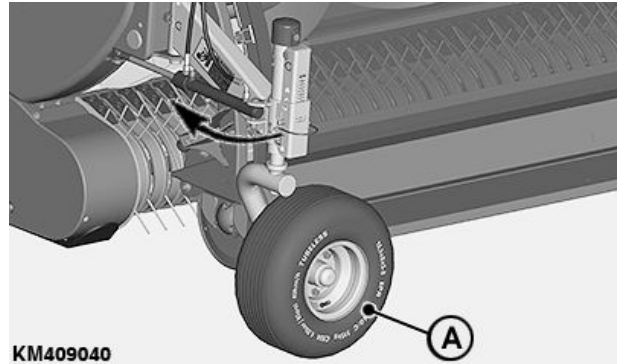
KM404037 —UN—21APR20

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KM00321,0000A59 -19-21APR20-1/3

2. Move the depth gauge wheels (A) outwards to their operating position.

A—Depth Gauge Wheel



KM409040 —UN—21APR20

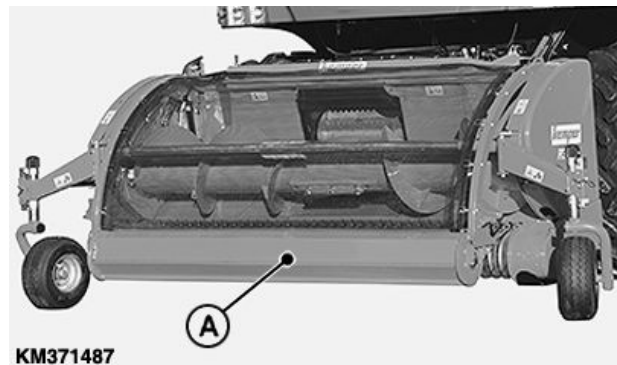
KM00321,0000A59 -19-21APR20-2/3

3. Slowly lower the windrow compressor roll (A).

NOTE: Depth gauge wheels are automatically unlocked and can turn freely when they are lowered onto the ground.

Lower pickup onto the ground and drive forage harvester forward until depth gauge wheels are swiveled into driving direction.

A—Windrow Compressor Roll



KM371487 —UN—10FEB20

KM00321,0000A59 -19-21APR20-3/3

Operating the Windrow Compressor Roll

The contact pressure of the windrow compressor roll is adjusted by the oil pressure in the pressure accumulator (A).

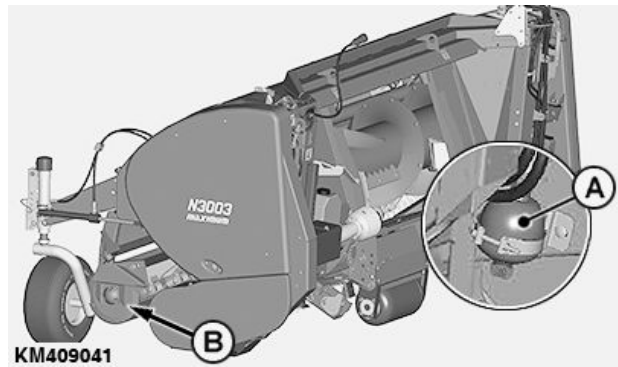
CAUTION: The pressure accumulator (A) may only be detached or put into operation by engineers or technicians trained in hydraulics. Do not perform any welding, soldering or other mechanical work on the pressure accumulator.

Raise roller compression unit so that roller (B) on the roller compression unit does not push the crop up but always lies on top of the windrow (see illustration).

NOTE: The oil pressure in the pressure accumulator (A) leads the windrow compressor roll on the windrow.

A—Pressure accumulator

B—Roller



KM409041—UN—22APR20

KM404041—UN—22APR20

KM00321,0000A5A -19-22APR20-1/1

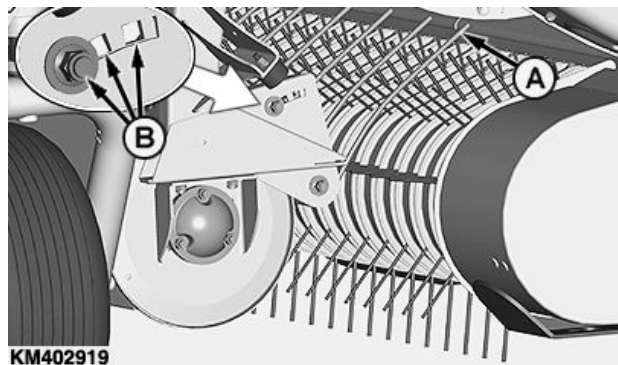
Adjusting Rake of Roller Compression Unit

Position rake (A) in the holes (B) on both sides in such a way that the tips of rake (A) are always aligned parallel to the pickup cylinder.

NOTE: First position rake (A) in front hole (B). Check alignment to the pickup cylinder and adjust if necessary.

A—Rake

B—Hole



Continued on next page

KM00321,00009F9 -19-10FEB20-1/2

KM402919—UN—22JAN20

Adjusting Working Height of Roller Compression Unit

Add or remove shims (A) at rubber stop until there is a distance (X) of 3—5 mm (0.12—0.19 in.) between rake and feed auger wings.

A—Shims

X—3—5 mm (0.12—0.19 in.)



KM204376—UN—05FEB14

KM1001013—UN—05OCT09

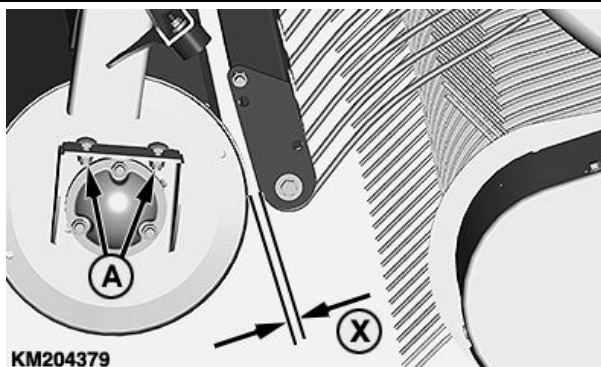
KM00321,00009F9 -19-10FEB20-2/2

Adjusting Roller of Roller Compression Unit

1. Loosen screws (A).
2. Adjust distance (X) of 8—10 mm (0.31 in.— 0.39 in.) between roller and rake.
3. Tighten screws (A).

A—Screws

X—8—10 mm (0.31 in.—0.39 in.)



KM204379—UN—06FEB14

KM00321,000090D -19-10APR19-1/1

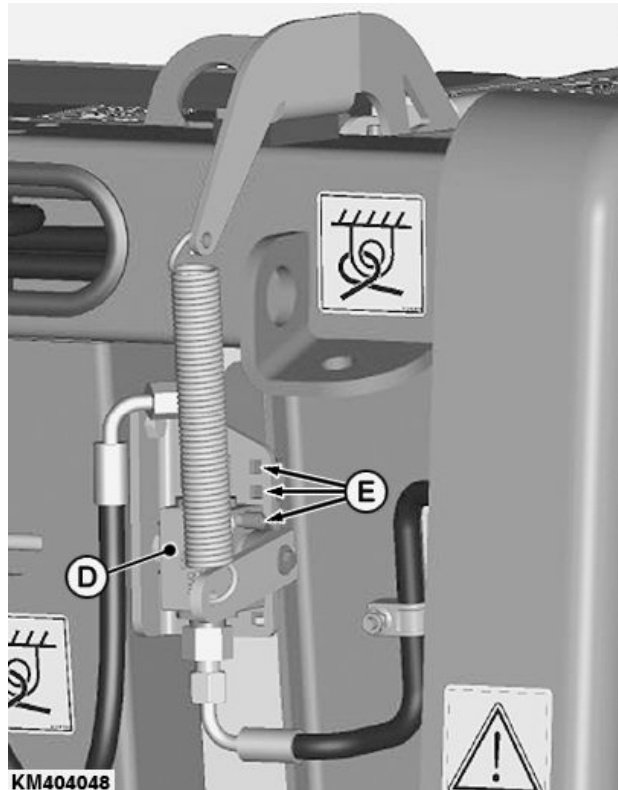
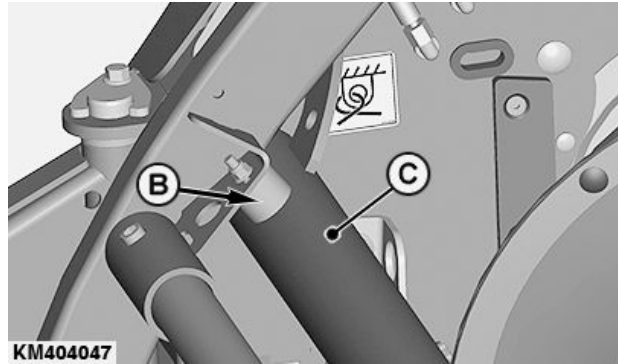
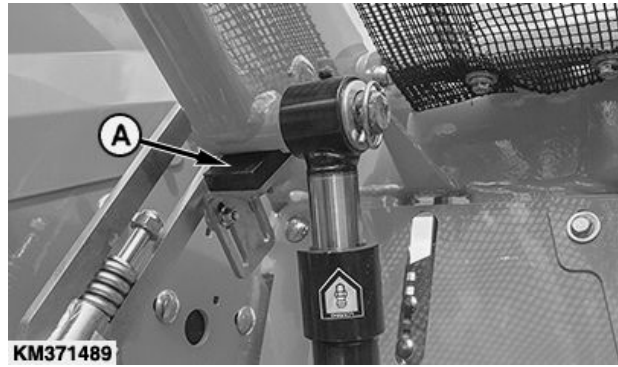
Roller Compression Unit Float Adjustment

When the roller compression unit is in operating position, adjust float mode as follows:

1. First adjust downstop (A) in the slot holes so that the stop (B) floats approximately 5 mm above the tube (C).
2. If the slot holes of downstop (A) are not sufficient for adjustment, the valve (D) on the back can be adjusted via a row of holes (E):
 - Set valve (D) higher to decrease space between stop (B) and tube (C).
 - Set valve (D) lower to increase space between stop (B) and tube (C).
3. Check float height of roller compression unit and make fine adjustment as necessary.

A—Downstop
B—Stop
C—Tube

D—Valve
E—Holes



KM371489 —UN—11APR19

KM404047 —UN—14FEB20

KM404048 —UN—14FEB20

KM00321.0000A04 -19-14FEB20-1/1

Adjusting Gauge Wheel Height

Adjust the pickup so that the cylinder teeth are 50 mm (2 in.) above the ground.

To increase the clearance of the teeth from the ground, take out locking pin (A) and set gauge wheel (B) lower along the row of holes. Reinstall locking pin (A) and secure with spring cotter (C).

To decrease the clearance of the teeth from the ground, take out locking pin (A) and set gauge wheel (B) higher along the row of holes. Reinstall locking pin (A) and secure with spring cotter (C).

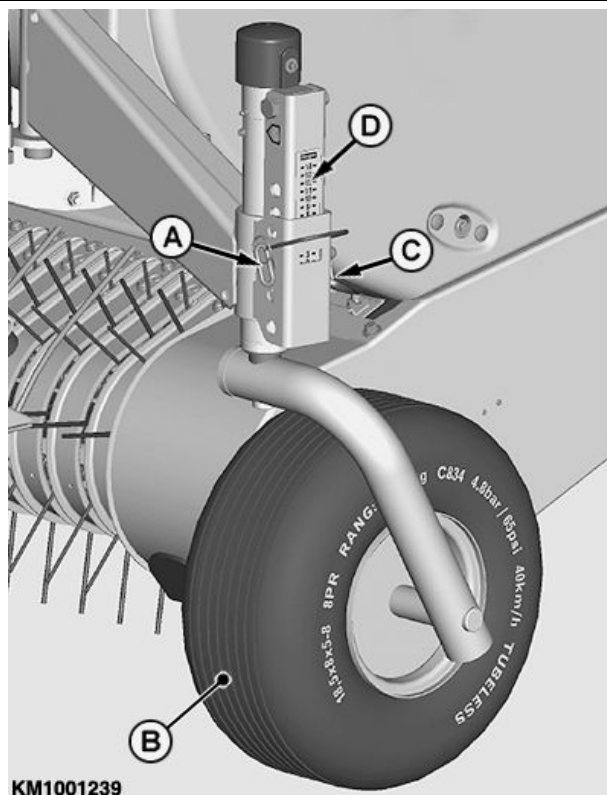
IMPORTANT: Make sure that the value on scale (D) is the same on both sides.

Always make sure that the pickup clearance is the same at either side.

IMPORTANT: Make sure that the pickup's height is not altered by the downstop on the harvester.

A—Locking pin
B—Gauge wheel

C—Spring cotter
D—Scale



KM1001239 —UN—22JAN20

KM00321,000029B -19-05FEB14-1/2

CAUTION: Avoid crushing injuries of hands or fingers. Pay extreme attention while adjusting gauge wheel height.



KM204369 —UN—04FEB14

KM00321,000029B -19-05FEB14-2/2

Adjusting Feed Auger Height

Adjust feed auger springs. (See Adjusting Feed Auger Springs in this section.)

When feed auger arm (E) rests on the rubber stop (D), the distance (G) between feed auger flight (A) and bottom sheet (F) should be within specification.

Specification

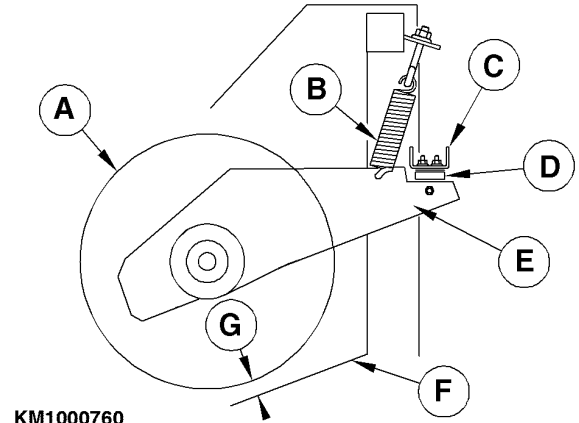
Feed Auger	
Flight to Bottom	
Sheet—Distance.....	20 ± 5 mm (0.8 ± 0.2 in.)

If the distance is not correct, proceed as follows:

1. Release feed auger springs (B) on both sides.
2. Raise the feed auger with a hoist.
3. Add or remove shims between rubber stop (D) and support (C) to obtain the desired distance.

NOTE: The needed shims can be removed from the lower rubber stop.

4. Adjust feed auger springs (B). (See Adjusting Feed Auger Springs in this section.)



KM1000760

A—Feed auger flight
B—Spring
C—Stop support
D—Rubber stop

E—Feed auger arm
F—Bottom sheet
G—20 ± 5 mm (0.8 ± 0.2 in.)

KM1000760 —UN—23JAN09

KM00321,00000F5 -19-23JAN09-1/1

Adjusting Feed Auger Springs

Adjust the correct length of feed auger spring (C).

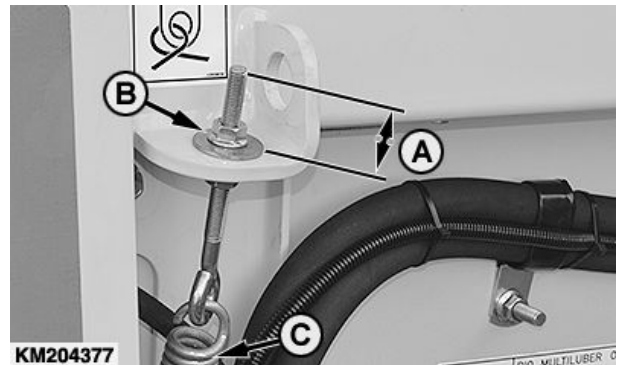
To do this, tighten or loosen adjusting nut (B) to obtain thread length (A) of 35—39 mm (1.4 in.—1.5 in.).

Repeat procedure on the opposite side.

NOTE: The feed auger spring adjustment described above is a basic adjustment. Readjust according to field conditions (reduce spring tension for high yield).

A—Thread Length
B—Adjusting Nut

C—Spring



KM204377

KM204377 —UN—18OCT17

KM00321,000029F -19-06FEB14-1/1

Adjusting the Scrapers

1. Slacken off nuts (A).
2. Move scrapers (B) forward to obtain specified clearance between flight (C) and the scrapers (B).

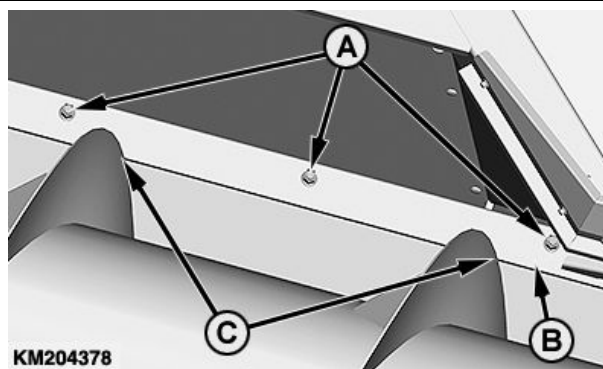
Specification

Flight to
 Scraper—Clearance.....0—2 mm
 (0—0.08 in.)

3. Retighten nuts (A).
4. Turn the auger by hand to make sure it can rotate freely.

IMPORTANT: The scrapers must be installed with screw head facing down.

Ensure that the scrapers are parallel to the auger at all times.



A—Nuts
 B—Scrapers

C—Flight

KM204378—UN—06FEB14

KM00321,00002A0 -19-06FEB14-1/1

Adjusting Automatic Auger Lifting (Option)

When cylinders (A) are fully extended and the roller compression unit is completely raised, feed auger arm (B) **must not** touch the lower stop support (G). Adjust a minimum distance (X) of 1—3 mm (0.04—0.12 in.).

If the distance is not correct, proceed as follows:

1. Lower the roller compression unit completely.
2. Turn lock nut (C) counterclockwise to increase distance (X).

Turn lock nut (C) clockwise to decrease distance (X).

CAUTION: Make sure that threaded rod (D) is always fully screwed in plastic ring of lock nut (C).

3. Raise roller compression unit completely to check distance (X).

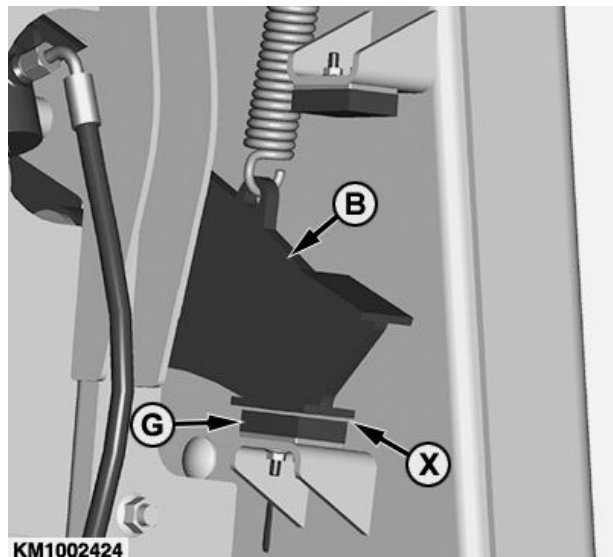
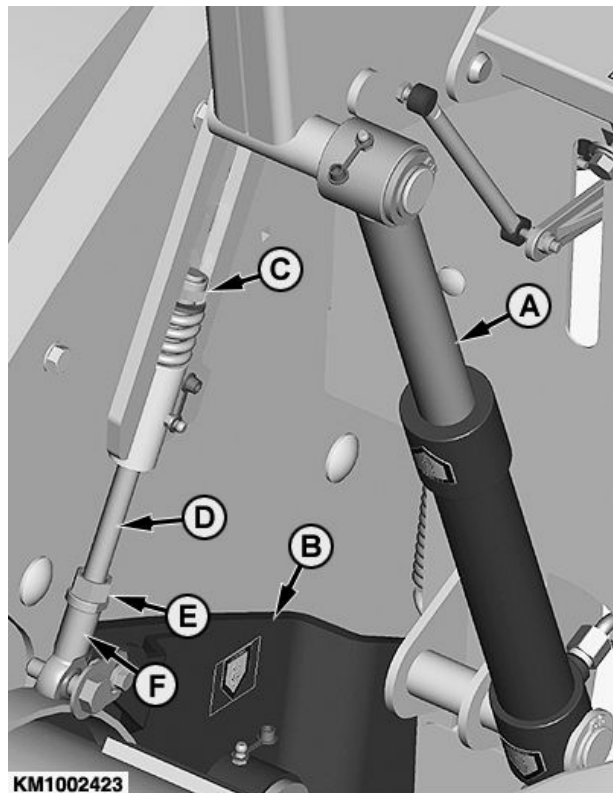
Repeat procedure as often as necessary.

NOTE: If threaded rod (D) is too short for proper adjustment, loosen nut (E). Turn threaded rod (D) counterclockwise and then retighten nut (E).

CAUTION: Make sure that threaded rod (D) is screwed in joint yoke (F) with a minimum length of 10 mm (0.39 in.)

4. Repeat procedure on the opposite side.

A—Cylinder	E—Nut
B—Feed Auger Arm	F—Joint Yoke
C—Lock Nut	G—Stop Support
D—Threaded Rod	X—1—3 mm (0.04—0.12 in.)



KM1002423 —UN—29JAN14

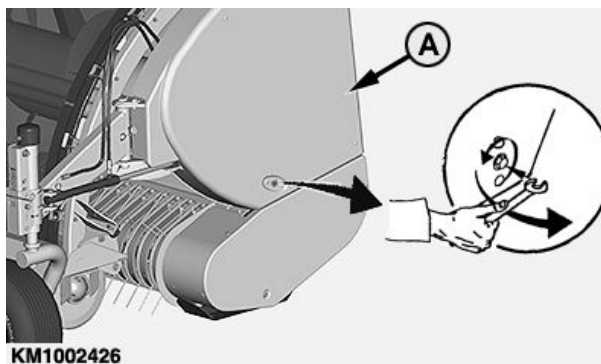
KM1002424 —UN—29JAN14

KM00321.000027B -19-06FEB14-1/1

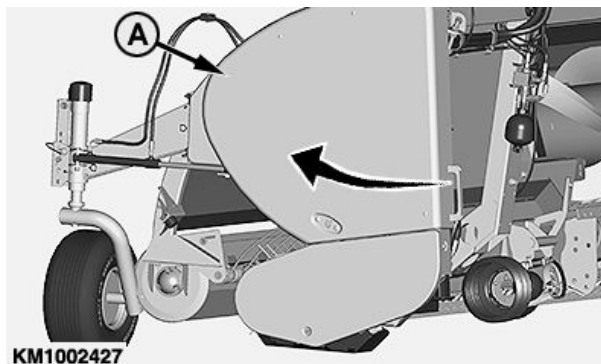
Opening the Side Guard

1. Fold the gauge wheels inwards.
2. Open folding side guard (A) with a suitable tool, width across flats 13 mm.
3. Swing side guard (A) outwards.

A—Side Guard



KM1002426 —UN—06FEB14



KM1002427 —UN—06FEB14

KM00321,00009DD -19-22JAN20-1/1

Adjusting Feed Auger Paddles (Short Crops)

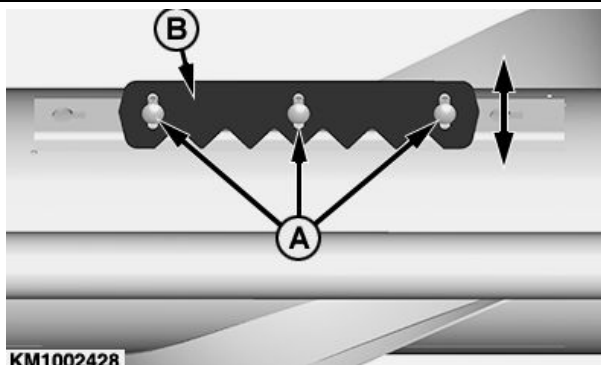
The paddles (B) improve feeding in light and short crops.

NOTE: Move paddle (B) further outward in short crop and further inward in higher crop.

1. Loosen bolts (A).
2. Move paddle (B) until the desired position is obtained.
3. Tighten bolts (A).

Repeat the procedure for each paddle.

IMPORTANT: Installing paddles (B) with the smooth side up is recommended. Installing paddles (B) with the serrated side up increases the risk of back feeding.



KM1002428

A—Bolts

B—Paddles

KM1002428 —UN—29JAN14

KM00321,000027E -19-07FEB14-1/1

Removing Feed Auger Paddles (High Crops)

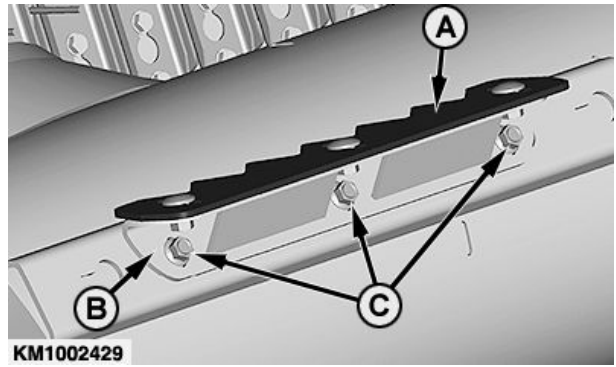
When harvesting high crops or winter forage crops, remove paddles (A) and paddle brackets (B) bolted on auger for smoother feeding.

1. Loosen bolts (C).
2. Remove paddle (A) and paddle bracket (B).

Repeat procedure for each paddle.

A—Paddle
B—Bracket

C—Bolts



KM1002429 —UN—29JAN14

KM00321,0000280 -19-29JAN14-1/1

Lubrication and Maintenance

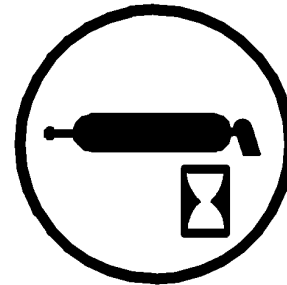
Lubrication Intervals

Using self propelled forage harvester hour meter as a guide, perform services at the hourly intervals indicated on following pages.

IMPORTANT: The recommended lubrication intervals are based on normal conditions. Severe or unusual conditions may require more frequent lubrication or oil changes.

Clean grease fittings before using grease gun. Replace any lost or broken fittings immediately. If a new fitting fails to take grease, replace it or check whether the grease passage is blocked.

CAUTION: Do not attempt to clean, lubricate or adjust the pickup while the harvester engine is running.



CC 000934

CC000934 —UN—05APR95

CC,630APU003833 -19-25AUG97-1/1

Grease

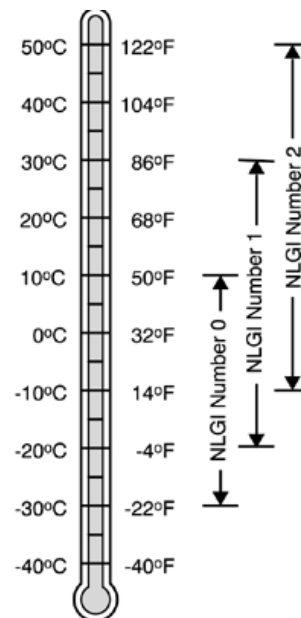
Use grease based on NLGI consistency numbers and the expected air temperature range during the service interval.

AVIA AVIALITH 2 EP grease is recommended.

Other greases may be used if they meet the following specification:

NLGI Service Classification GC-LB

IMPORTANT: Some types of grease thickeners are not compatible with others. Contact your lubricant supplier before mixing various types of lubricants.



KM1000899

KM1000899 —UN—08JUN09

KM00321,000090F -19-11APR19-1/1

Alternative and Synthetic Lubricants

Conditions in certain geographical areas may require lubricant recommendations different from those printed in this manual.

Some lubricants may not be available in your location.

Consult your KEMPER dealer to obtain information and recommendations.

Synthetic lubricants may be used if they meet the performance requirements as shown in this manual.

The temperature limits and service intervals shown in this manual apply to both conventional and synthetic lubricants.

Re-refined base stock products may be used if the finished lubricant meets the performance requirements.

KM00321,0000911 -19-11APR19-1/1

Lubricant Storage

Your equipment can operate at top efficiency only when clean lubricants are used.

Use clean containers to handle all lubricants.

Store lubricants and containers in an area protected from dust, moisture, and other contamination. Store containers on their side to avoid water and dirt accumulation.

Make certain that all containers are properly marked to identify their contents.

Properly dispose of all old containers and any residual lubricant they may contain.

KM00321,0000912 -19-11APR19-1/1

Mixing Lubricants

In general, avoid mixing different brands or types of oil. Oil manufacturers blend additives in their oils to meet certain specifications and performance requirements.

Mixing different oils can interfere with the proper functioning of these additives and degrade lubricant performance.

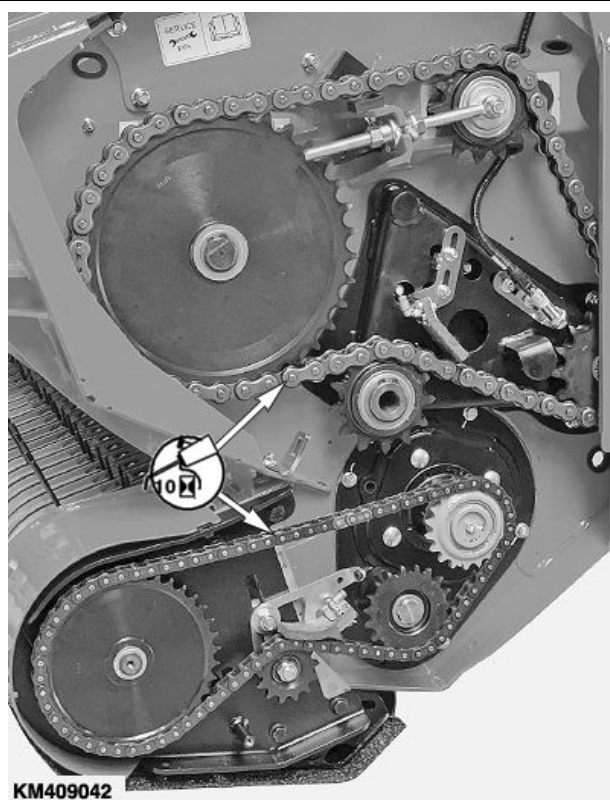
Consult your KEMPER dealer to obtain information and recommendations.

KM00321,0000913 -19-11APR19-1/1

Every 10 Hours — Drive Chains

Lubricate with SAE 30 engine oil.

Re-tension drive chains every 10 operating hours (see Adjusting the Drive Chains in Service Section).

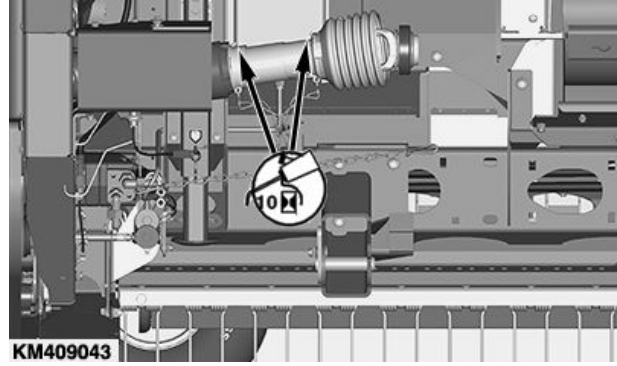


KM409042 —UN—22APR20

KM00321,0000A5B -19-22APR20-1/1

Every 10 operating hours — Pickup Driveshaft

Lubricate with grease.

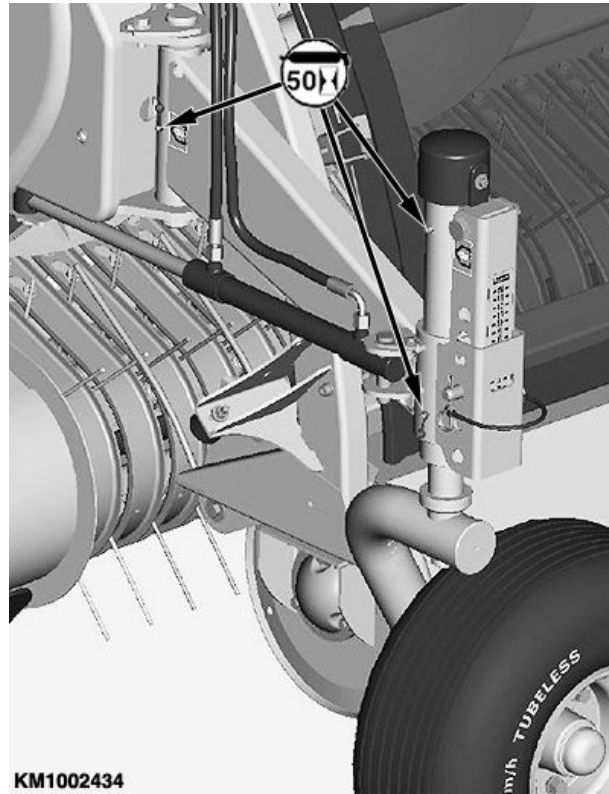


KM409043 —UN—22APR20

KM00321,0000A5C -19-22APR20-1/1

Every 50 Hours — Pivoting Gauge Wheels

Lubricate with grease.

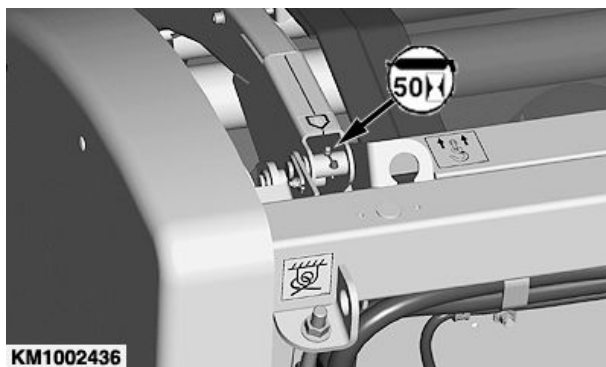


KM1002434 —UN—30JAN14

KM00321,00009FB -19-11FEB20-1/1

Every 50 Hours — Lift Arms of Roller Compression Unit

Lubricate with grease.

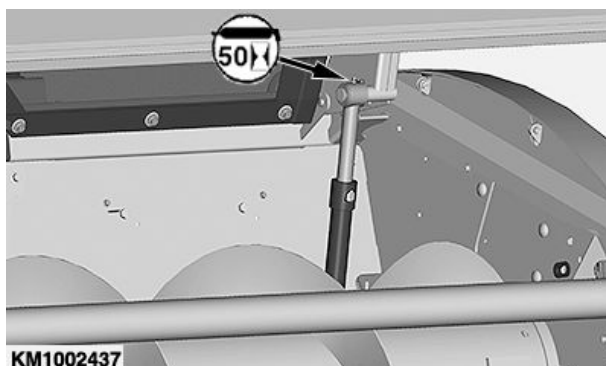


KM1002436 — UN — 31 JAN 14

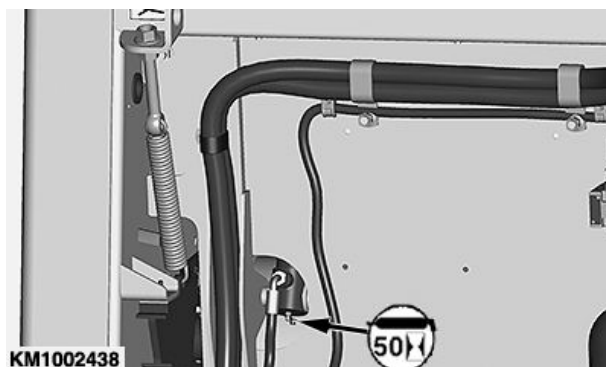
KM00321,0000918 -19-11APR19-1/1

Every 50 Hours — Cylinder of Roller Compression Unit

Lubricate with grease.



KM1002437 — UN — 31 JAN 14

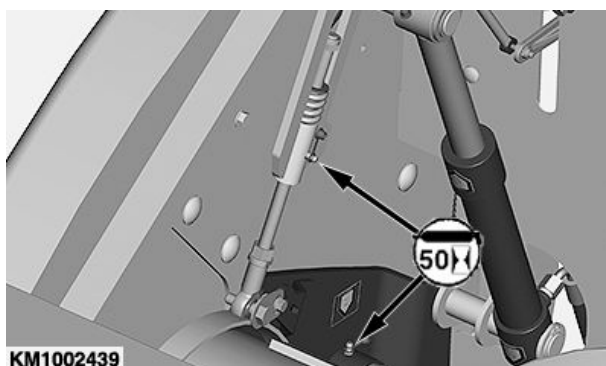


KM1002438 — UN — 31 JAN 14

KM00321,0000919 -19-11APR19-1/1

Every 50 Hours — Feeding Auger Pivot Points

Lubricate grease.

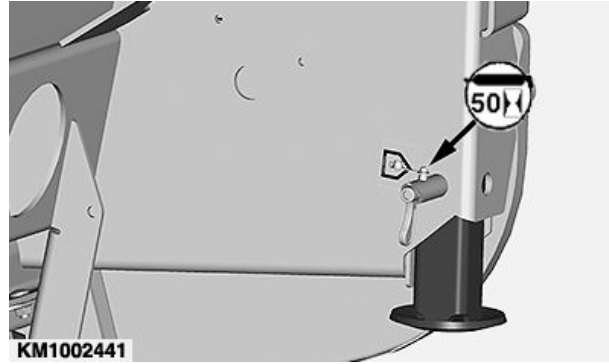


KM1002439 — UN — 31 JAN 14

KM00321,000091A -19-11APR19-1/1

Every 50 Hours — Jackstands

Lubricate with grease.



KM1002441 —UN—31JAN14

KM00321,000091B -19-11APR19-1/1

Troubleshooting

Pickup Operation

before making any adjustments or performing any service operations.

CAUTION: When lifting the pickup, place blocks underneath. Shut off the engine

Symptom	Problem	Solution
The pickup does not drop to the ground	Front tires over-inflated	Reduce tire pressure
	Float pressure too high ¹	Reset float pressure correctly
The pickup digs into the ground	Gauge wheels incorrectly set	Readjust gauge wheels
Crop wraps around feed auger	Auger scrapers not installed	Install and adjust scrapers
	Scrapers incorrectly set	Readjust scrapers
Feed auger slips too easily	Feed auger speed too high	Reduce feed auger speed
	Wrongly adjusted scrapers	Adjust scrapers properly
	Feed auger paddles are set too far outward	Move feed auger paddles further inward
	Slip clutch worn	Replace worn parts
Only part of crop is picked up	Pickup teeth turn too slowly	Increase their speed
	Ground speed too fast	Slow down
	Gauge wheels incorrectly set	Adjust height of gauge wheels
Pickup teeth cannot turn	Chain not installed	Install and adjust chain
	Defective cam	Check whether cam is broken or worn
Pickup does not float or drop freely	Excessive or insufficient floatation	Adjust float pressure ¹
	Studs or springs on gear case freewheel worn or broken	Change the parts affected
Pickup leaves part of the crop on ground	Pickup is floating in the air	Adjust float pressure ¹
	Teeth squint or broken	Straighten or replace teeth
Broken pickup teeth	Pickup too low	Raise pickup
	Foreign bodies or broken teeth inside pickup cylinder	Remove foreign bodies or broken teeth

Continued on next page

KM00321,000028D -19-07FEB14-1/2

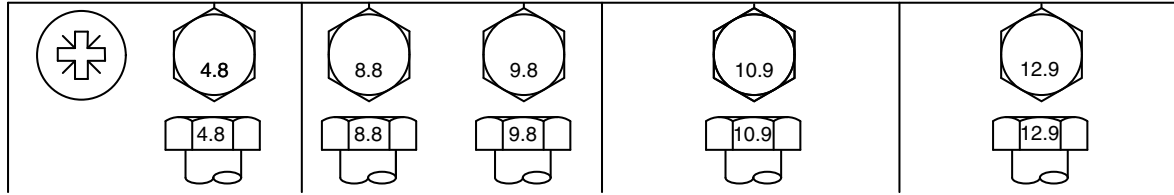
Troubleshooting

Symptom	Problem	Solution
Inside of scrapers is worn	Spiral teeth on pickup collide with bent scrapers	Find location of collisions, and rectify Increase pickup float
Crop not conveyed, clogging at feed opening	High-volume windrows and/or excessive ground speed	Reduce volume of windrows or slow down
	Loss of pickup teeth	Replace lost teeth
Rake of roller compression unit (option) collides with feed auger	Working height of roller compression unit is not adjusted properly	Adjust working height of roller compression unit
Pivoting gauge wheels cannot be adjusted	No grease in pivoting gauge wheels	Lubricate pivoting gauge wheels with grease
¹ See operator's manual of relevant harvester		
KM00321,000028D -19-07FEB14-2/2		

Service

Metric Bolt and Screw Torque Values

TS1742 —UN—31MAY18



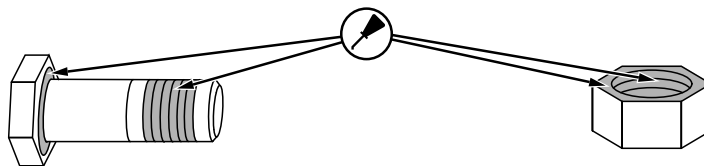
Bolt or Screw Size	Class 4.8				Class 8.8 or 9.8				Class 10.9				Class 12.9			
	Hex Head ^a		Flange Head ^b		Hex Head ^a		Flange Head ^b		Hex Head ^a		Flange Head ^b		Hex Head ^a		Flange Head ^b	
	N·m	lb·in	N·m	lb·in	N·m	lb·in	N·m	lb·in	N·m	lb·in	N·m	lb·in	N·m	lb·in	N·m	lb·in
M6	3.6	31.9	3.9	34.5	6.7	59.3	7.3	64.6	9.8	86.7	10.8	95.6	11.5	102	12.6	112
									N·m	lb·ft	N·m	lb·ft	N·m	lb·ft	N·m	lb·ft
M8	8.6	76.1	9.4	83.2	16.2	143	17.6	156	23.8	17.6	25.9	19.1	27.8	20.5	30.3	22.3
			N·m	lb·ft	N·m	lb·ft	N·m	lb·ft								
M10	16.9	150	18.4	13.6	31.9	23.5	34.7	25.6	46.8	34.5	51	37.6	55	40.6	60	44.3
	N·m	lb·ft														
M12	—	—	—	—	55	40.6	61	45	81	59.7	89	65.6	95	70.1	105	77.4
M14	—	—	—	—	87	64.2	96	70.8	128	94.4	141	104	150	111	165	122
M16	—	—	—	—	135	99.6	149	110	198	146	219	162	232	171	257	190
M18	—	—	—	—	193	142	214	158	275	203	304	224	322	245	356	263
M20	—	—	—	—	272	201	301	222	387	285	428	316	453	334	501	370
M22	—	—	—	—	365	263	405	299	520	384	576	425	608	448	674	497
M24	—	—	—	—	468	345	518	382	666	491	738	544	780	575	864	637
M27	—	—	—	—	683	504	758	559	973	718	1080	797	1139	840	1263	932
M30	—	—	—	—	932	687	1029	759	1327	979	1466	1081	1553	1145	1715	1265
M33	—	—	—	—	1258	928	1398	1031	1788	1319	1986	1465	2092	1543	2324	1714
M36	—	—	—	—	1617	1193	1789	1319	2303	1699	2548	1879	2695	1988	2982	2199

The nominal torque values listed are for general use only with the assumed wrenching accuracy of 20%, such as a manual torque wrench. DO NOT use these values if a different torque value or tightening procedure is given for a specific application. For lock nuts, for stainless steel fasteners, or for nuts on U-bolts, see the tightening instructions for the specific application.

Replace fasteners with the same or higher property class. If higher property class fasteners are used, tighten these to the strength of the original.

- Make sure that fastener threads are clean.
- Apply a thin coat of Hy-Gard™ or equivalent oil under the head and on the threads of the fastener, as shown in the following image.
- Be conservative with the amount of oil to reduce the potential for hydraulic lockup in blind holes due to excessive oil.
- Properly start thread engagement.

TS1741 —UN—22MAY18



^aHex head column values are valid for ISO 4014 and ISO 4017 hex head, ISO 4162 hex socket head, and ISO 4032 hex nuts.

^bHex flange column values are valid for ASME B18.2.3.9M, ISO 4161, or EN 1665 hex flange products.

DX,TORQ2 -19-30MAY18-1/1

Adjust the Drive Chains

Use idler sprocket (A) to tighten chain (B) which drives the conveyor auger.

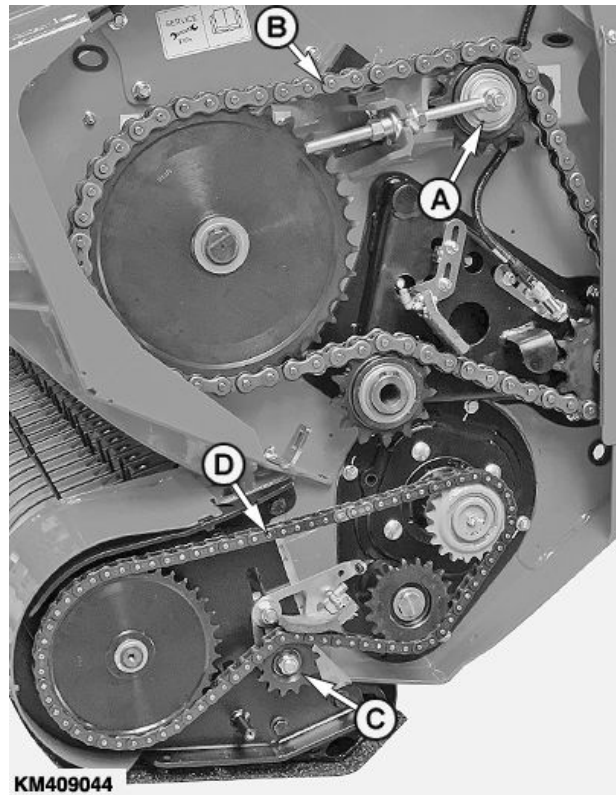
Adjust idler sprocket (A) to get a slack of 3 to 10 mm (0.12 to 0.4 in.) on the strand opposite the drive chain idler gear.

Use idler sprocket (C) to tighten chain (D) which drives the pickup drum.

Adjust idler sprocket (C) to get a slack of 10 to 15 mm (0.4 to 0.6 in.) on the strand opposite the drive chain idler gear.

A—Idler Sprocket
B—Conveyor Auger Drive Chain

C—Idler Sprocket
D—Pickup Drum Drive Chain



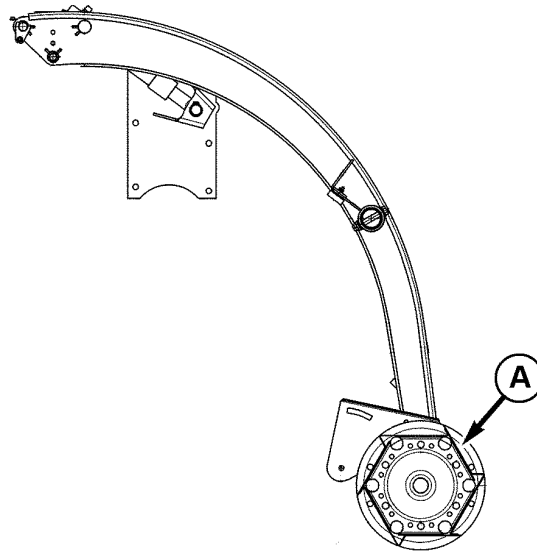
KM409044 —UN—22APR20

KM00321,0000A5D -19-22APR20-1/1

Mounting Orientation of Roller

Whenever the roller (A) of the roller compression unit has been removed, pay attention to the mounting orientation when reinstalling roller (A).

A—Roller



KM1001250

KM1001250 —UN—19OCT10

KM00321,000091E -19-12APR19-1/1

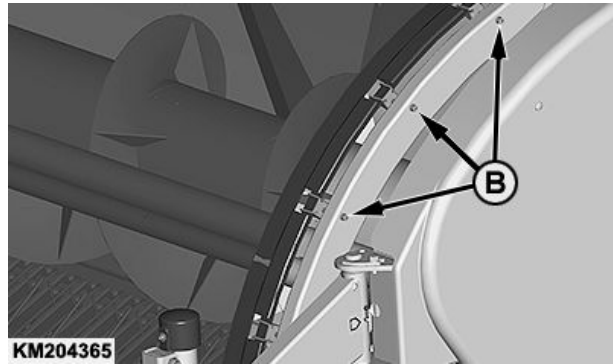
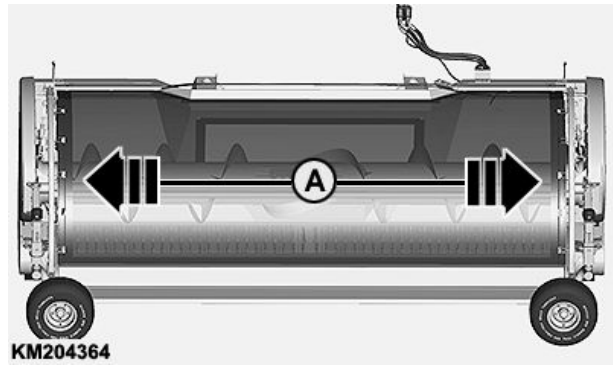
Trash Net

Keep trash net (A) tensioned.

If necessary, tighten screws (B) for proper tension.

A—Trash Net

B—Screws



KM00321,000028F -19-31JAN14-1/1

Oil Reservoir of Central Chain Lubrication

Fill oil reservoir of central chain lubrication with biodegradable oil (e.g. FUCHS PLANTOLUBE KS 46 N).

IMPORTANT: Never use an oil that is not biodegradable.

Specification

Oil reservoir—Capacity..... 4 L
(1 US gal.)

IMPORTANT: Depending on the pump flow adjustment, refill reservoir as required.



KM00321,00009FE -19-11FEB20-1/1

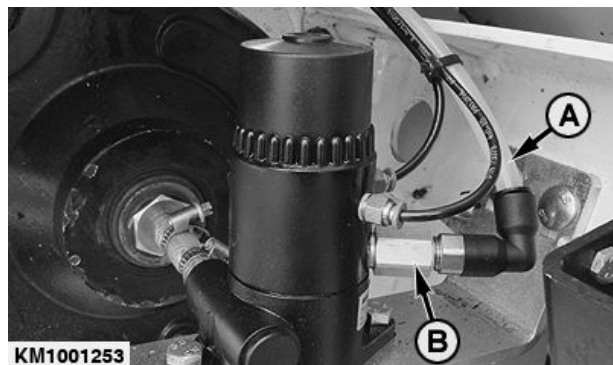
Bleeding Lubrication Pump of Central Chain Lubrication (Option)

NOTE: It is necessary to bleed chain oiling system circuit if oil reservoir was totally empty.

1. Disconnect inlet hose (A).
2. Wait until air is completely bled from inlet hose (A) before reconnecting inlet hose (A) to coupling (B).
3. Run the pickup until oil drains continuously from brushes.

A—Inlet hose

B—Coupling



KM00321,0000920 -19-12APR19-1/1

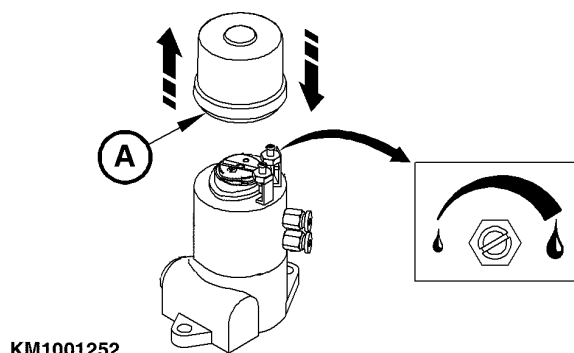
Adjusting Oil Flow of Central Chain Lubrication (Option)

Adjust oil flow at each chain as follows:

1. Remove cover (A).
2. Identify the screw allowing to adjust the oil flow of the relevant brush.
3. Turn the screw clockwise to increase oil flow and counterclockwise to decrease oil flow.

NOTE: The pump is very precise. Turn screw 1/4 turn by 1/4 turn to adjust oil flow. When the screw is totally screwed in (maximum flow), unscrewing four turns allows to obtain the minimum flow.

4. Install cover (A).



KM1001252

A—Pump cover

KM1001252 —UN—19OCT10

KM00321,0000921 -19-12APR19-1/1

Storage

Storing the Pickup

Thoroughly clean pickup. Chaff and dirt will draw moisture and cause rust.

Store pickup in a sheltered location, standing on its wheels and support stand.

Do not deflate the tires. Protect them from direct sunlight and the effects of grease and oil.

Thoroughly lubricate pickup (See "Lubrication and Maintenance" section).

Remove chains and wash them in solvent. Then dry them and coat them with heavy oil.

Touch up any worn or damaged paintwork.

List replacement parts that will be needed for the next season and order them early.

CC03745,00001BD -19-07NOV00-1/1

Taking the Pickup out of Storage

If necessary, thoroughly clean pickup.

Clean and install chains.

Thoroughly lubricate pickup (See "Lubrication and Maintenance" section).

Check the tightness of all hardware.

Check tire pressure and re-inflate tires if necessary.

Run pickup without load and at half speed for several minutes. Check bearings for overheating and excessive looseness.

Review Operator's Manual.

CC03745,00001BE -19-07NOV00-1/1

Specifications

Machine Design Life

This machine is designed and manufactured to provide a long life of productive operation. However, actual attainable life depends on a number of factors including the severity of working conditions and completion of recommended maintenance. (See the Service section of this manual.)

Periodically inspect and review the machine in conjunction with your KEMPER dealer. The review may result

in recommendations for service, component repair, remanufacture or replacement, or, if at the end of life, that the machine be removed from operation. (See separate decommissioning section of this manual for information on disposal and recycling of machine components.)

No machine should be operated if safety-related components are missing or in need of service. All missing or damaged safety-related components, including safety signs, should be repaired or replaced before operating.

KM00321,000092C -19-13APR19-1/1

N3003 Pickup

Working Width	3,00 m (9 ft. 10 in.)
Overall width	4.06 m (15 ft. 1.1 in.)
Length	1.35 m (4 ft. 5.2 in.)
Height	1,40 m (4 ft. 7 in.)
Weight	1280 kg (2822 lb.)
Number of teeth	4 x 40
Stripper diameter	256 mm (10 in.)
Conveyor auger diameter	560 mm (22 in.)
Conveyor auger type	Adjustable paddles

KM00321,0000A5E -19-28SEP20-1/1

Sound level

Max. sound level at operator's ear in accordance with DIN ISO 11204. Measurement method in accordance with ISO

5131 with pickup attached to the forage harvester and cab closed (average value):

N3003	78.5 dB(A)
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KM00321,0000A5F -19-22APR20-1/1

EU Declaration of Conformity

Kemper GmbH & Co.KG
Am Breul
D-48703 Stadthoehn, Germany

The person named below declares that
the product

Machine type: Pickup

Model: N3003

Fulfills all relevant provisions and essential requirements of the following directives:

DIRECTIVE	NUMBER	CERTIFICATION METHOD
Machinery directive	2006/42/EG	Self-certification
Agricultural Machinery Safety—Part 1	DIN EN ISO 4254-1	Self-certification
Agricultural Machinery Safety—Part 7	DIN EN ISO 4254-7	Self certification
Safety of machinery	DIN EN ISO 12100	Self-certification
Universal-jointed shafts and their protection devices	DIN EN 12965	Self certification

Name and address of the person in the European Community authorized to compile the technical construction file:

Brigitte Birk
Mannheim, Germany D-68008

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Place of Declaration: 48703 Stadthoehn,
Germany

Name: Richard Wübbels

Date of Declaration: 01 March 2020

Title: Manager Product Engineering

Manufacturing unit: Kemper Stadthoehn

DXCE01 —UN—28APR09



KM00321.0000A60 -19-22APR20-1/1

Serial Number

Serial Number

Serial number identifying the pickup is stamped on factory serial number plate.

These number and letters are required when ordering pickup replacement parts.

To ensure that you have this number at hand, enter the appropriate serial number in the space provided in illustration.

CC03745,00001E1 -19-16NOV00-1/1

Serial Number Plate of Pickup

A—Type
B—Model Designation
C—Product ID Number

D—Weight
E—Year of Manufacture
F—Model Year

Maschinenfabrik KEMPER

Type / Model: _____

Identification: _____

Product Identification Number: _____

Weight: _____ KG

Max. axle load: _____ KG

Constr. year: _____

Model year: _____

CE

Maschinenfabrik
Kemper GmbH & Co KG
48703 Stadthoehn

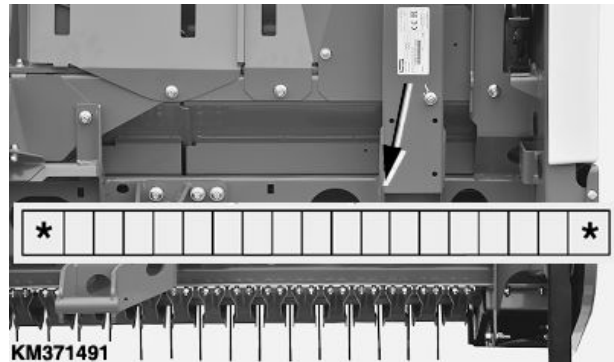
KM1001134

KM1001134 —UN—24FEB10

KM00321,0000926 -19-12APR19-1/1

Record Serial Number

The serial number plate is located on the right-hand side of the pickup.

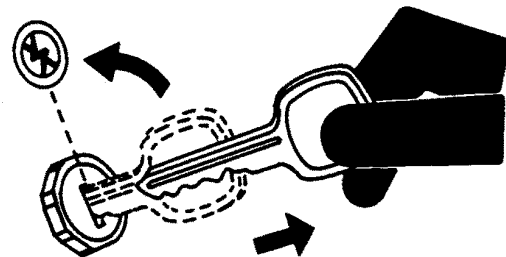


KM371491 —UN—12APR19

KM00321,0000927 -19-12APR19-1/1

Keep Machines Secure

1. Install vandal-proof devices.
2. When machine is in storage:
 - Lower equipment to the ground.
 - Set wheels in widest position making loading more difficult.
 - Remove any keys and batteries
3. When parking indoors, put large equipment in front of exits and lock your storage buildings.
4. When parking outdoors, store in a well-lighted and fenced area.
5. Make note of suspicious activity and report any thefts immediately to law enforcement agencies.
6. Notify your KEMPER dealer of any losses.



KM1002283

KM1002283 —UN—03MAY12

KM00321,0000928 -19-12APR19-1/1

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