

# Comfort Support Wheel 300F



## OPERATOR'S MANUAL

### Comfort Support Wheel 300F

OMKM113766 ISSUE J5 (ENGLISH)

#### CALIFORNIA

##### Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

If this product contains a gasoline engine:

#### **⚠ WARNING**

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

The State of California requires the above two warnings.

Additional Proposition 65 Warnings can be found in this manual.

**Maschinenfabrik Kemper GmbH & Co. KG**

European Version  
PRINTED IN GERMANY

# 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 support wheel may be installed and operated on a rotary harvesting unit only. The user must be entitled to drive a forage harvester on public roads. This manual and safety signs on your machine may also be available in other languages. To order, see your KEMPER dealer.

THIS MANUAL SHOULD 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.

LOADING AND HAULING of this support wheel 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 Specification or Identification Numbers section. Accurately record all the numbers to help in tracing the machine should it be stolen. Your KEMPER dealer 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 SUPPORT WHEEL MUST BE USED EXCLUSIVELY to transport 360<sup>plus</sup>, 375<sup>plus</sup> and 390<sup>plus</sup> rotary harvesting units.

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 SUPPORT WHEEL MUST NOT be used to transport rotary harvesting units other than those indicated in this Operator's Manual, or to transport:

- Agricultural implements made by other manufacturers
- Any types of vehicle

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 SUPPORT WHEEL MUST be serviced and repaired ONLY by industrial mechanics, fitters or persons with comparable qualifications. 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. Any arbitrary modifications carried out on this support wheel will relieve the manufacturer of all liability for any resulting damage or injury.

If you are not the first owner of this machine, it is in your interest to contact your local KEMPER dealer to tell him the serial number of this unit. This will help KEMPER to inform you of relevant issues or product improvements.

KM00321,0000449 -19-19MAY15-1/1

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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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# Predelivery Inspection

## Checklist before Using for First Time

Before using the support wheel for the first time, check the following:

- ☐ Check the entire machine for loose or missing nuts and screws.
- ☐ Before attaching the support wheel for the first time, adjust the position of the locking device \*see "Attaching" section).
- ☐ Advise the customer of the proper weights and fluids that must be used in the tires, depending upon forage harvester (see "Ballast" section).
- ☐ Check if all safety shields are in place and fastened securely.
- ☐ Check for broken or damaged parts.
- ☐ Review the entire operator's manual with the customer and stress the importance of proper and regular lubrication and safety precautions.

\_\_\_\_\_  
(Signature of Technician)

\_\_\_\_\_  
(Signature of Customer)

KM00321,0000447 -19-18MAY15-1/1

# Identification View

## Identification View



KM240694

*Comfort Support Wheel 300F*

KM240694 —UN—14APR15

KM00321,0000425 -19-15MAY15-1/1

# 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.



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

TS1389 —UN—28JUN13

## 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.



KM00321,000016B -19-14MAY09-1/1

TS201 —UN—15APR13

## Understand Signal Words

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.

**⚠ DANGER**

**⚠ WARNING**

**⚠ CAUTION**

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

TS187 —19—30SEP88

## Check Machine Safety

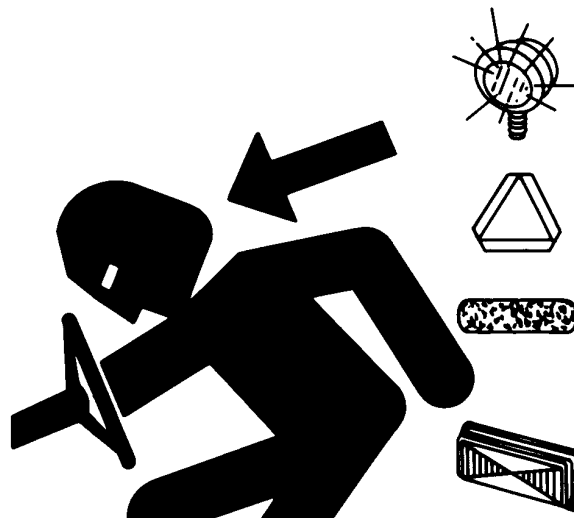
Always check the road and general operating safety of the machine before using.

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

## 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.

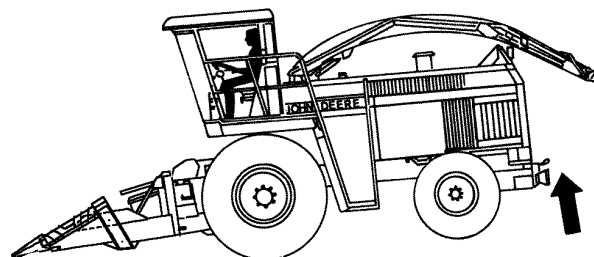


TS951 —UN—12APR90

KM00321,000016C -19-14MAY09-1/1

## 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.



ZX007220

ZX007220 —UN—21MAR95

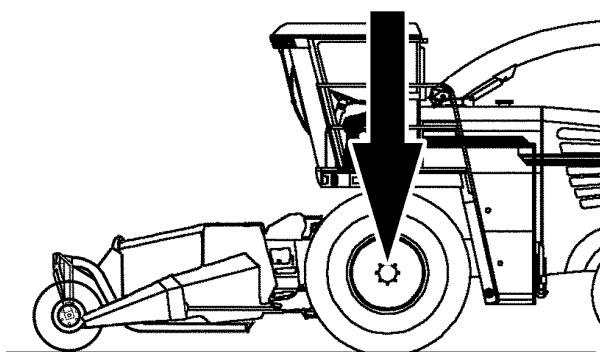
ZX,WEIGHT676 -19-20JAN95-1/1

## Observe Maximum Permissible Front Axle Load

Transport of the 375<sup>plus</sup> and 390<sup>plus</sup> rotary harvesting units on public roads with the forage harvesters is only permissible if the maximum front axle load of 11500 kg (25353 lb.) is observed.

The maximum permissible front axle load can be observed by attaching the Comfort support wheel.

If the maximum permissible front axle load is not observed, this will result in loss of permission to drive on public roads and may cause serious personal injury and machine damage.



KM1000915 —UN—29JUL09

KM00321,0000446 -19-15MAY15-1/1

## Observe Road Traffic Regulations

Always observe local road traffic regulations when using public roads.



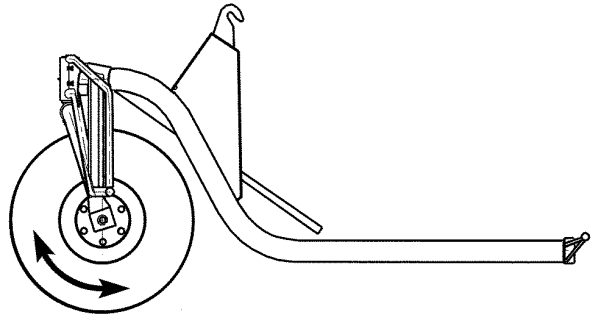
H28930 —UN—30JUN89

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

## Prevent Machine Runaway

Avoid possible injury or death from machine runaway.

Do not park machine on a slope; otherwise take precautions to prevent it from rolling away.



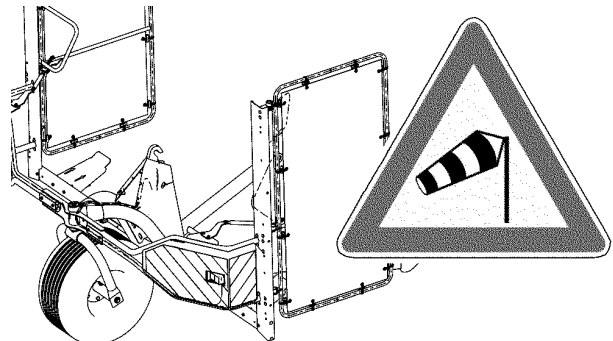
KM1000916

KM1000916 —UN—29JUL09

KM00321,00001C3 -19-29JUL09-1/1

## Do Not Park the Comfort Support Wheel in Strong Winds

When parking the Comfort support wheel, protect it from strong winds. Make sure that the Comfort support wheel cannot be moved by strong winds.



KM243041

KM243041 —UN—18MAY15

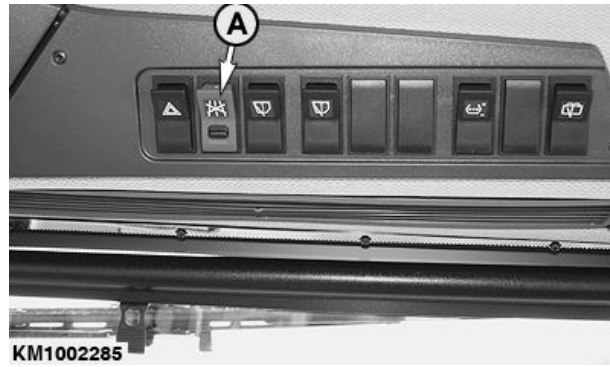
KM00321,0000448 -19-18MAY15-1/1

## Switch for Road/Field Mode

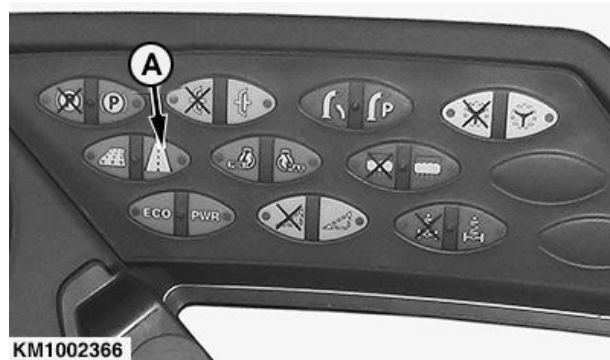
When driving on roads, the switch for road/field mode (A) must be in the position for road travel.

This ensures that all the hydraulic functions with the exception of the steering and the return to pressure are switched off.

A—Switch for Road/Field Mode



*Claas Forage Harvesters*



*Fendt Forage Harvesters*

KM00321,000021D -19-01OCT13-1/1

KM1002285 —UN—04MAY12

KM1002366 —UN—26SEP13

## Danger of Falling

Do not climb the machine.

Riders may be subject to serious injury or death!



KM1000917

KM00321,00001C5 -19-29JUL09-1/1

KM1000917 —UN—29JUL09

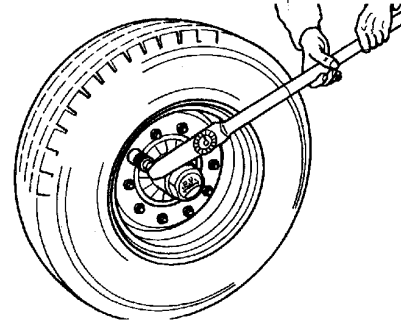
## Retighten Wheel Nuts

Retighten wheel nuts as specified in Sections Wheels and Lubrication and Maintenance.

Failure to do this could result in a wheel falling off during operation, causing serious personal injury and machine damage.

### Specification

Wheel nuts—Torque..... 350 Nm (258 lb-ft)



KM1000918

KM00321,00001C6 -19-11AUG09-1/1

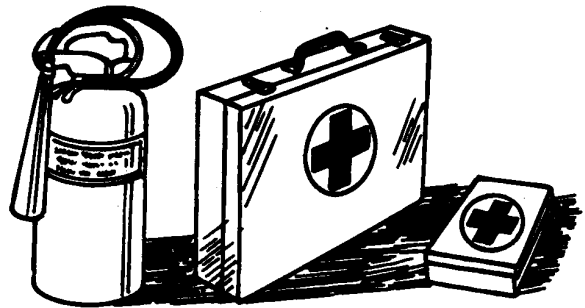
KM1000918 —UN—29JUL09

## 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.



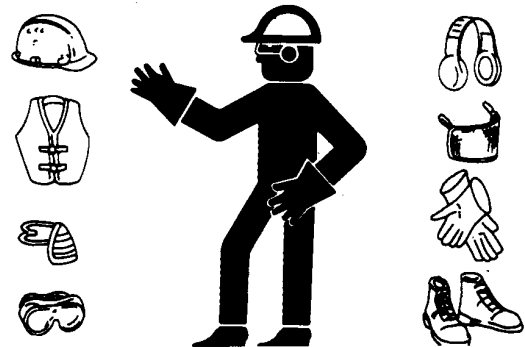
DX,FIRE2 -19-03MAR93-1/1

TS291 —UN—15APR13

## Wear Protective Clothing

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

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



DX,WEAR2 -19-03MAR93-1/1

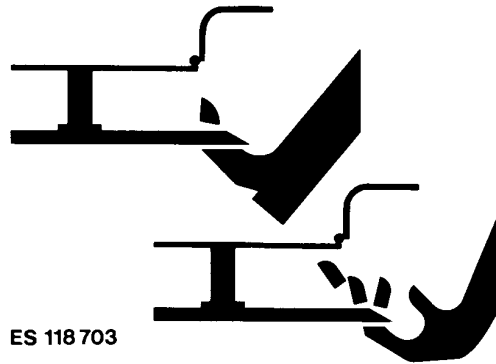
TS206 —UN—15APR13

## Guards and Shields

Keep guards and shields in place at all times. Ensure that they are serviceable and installed correctly.

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

Keep hands, feet and clothing away from moving parts.



ES118703 —UN—21MAR95

FX,DEVICE -19-04DEC90-1/1

## 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 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.



TS218 —UN—23AUG88

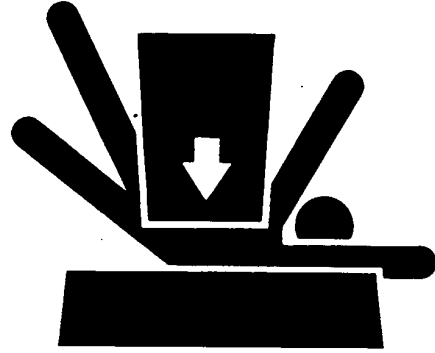
DX,SERV -19-17FEB99-1/1

## 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.



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

TS229 —UN—23AUG88

## Remove Paint Before Welding or Heating

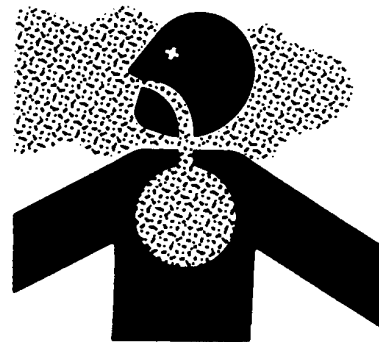
Avoid potentially toxic fumes and dust.

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.

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

TS220 —UN—15APR13

# 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.

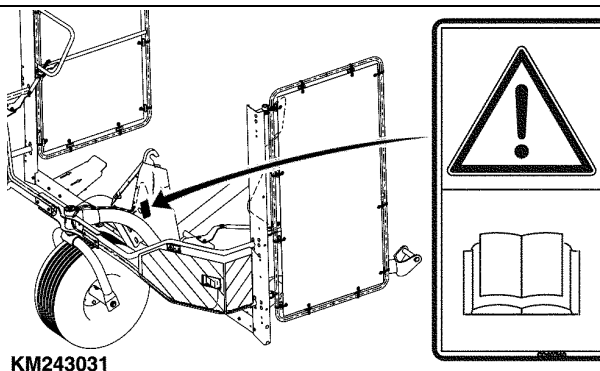


TS201 —UN—15APR13

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 instructions to avoid accidents.



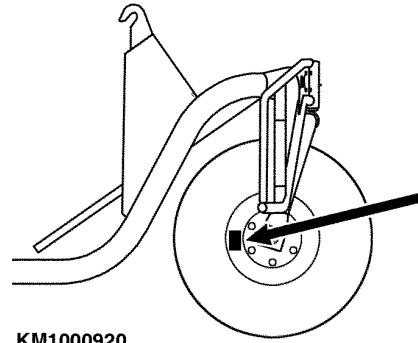
KM243031

KM243031 —UN—12MAY15

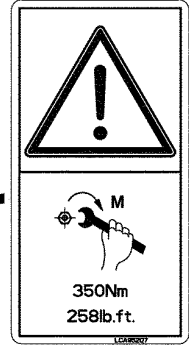
KM00321,000043F -19-12MAY15-1/1

## Front Wheel Attaching Nuts

Retighten wheel attaching nuts at specified intervals.



KM1000920



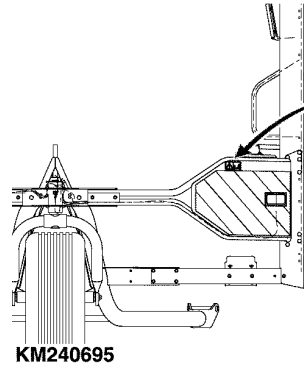
KM1000920 —UN—28SEP12

KM00321,00001C9 -19-12AUG09-1/1

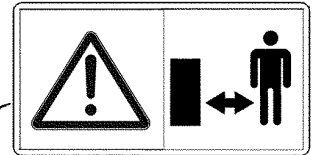
## Stay Clear of the Comfort Support Wheel

Observe an adequate distance to the Comfort support wheel.

Never enter the area in which the Comfort support wheel swings.



KM240695



KM240695 —UN—14APR15

KM00321,0000426 -19-15MAY15-1/1

# Preparing the Comfort Support Wheel

## Install Wheel

Remove pallet (A).

Install wheel using screw (B), lock washer (C) and collar bushing (D).

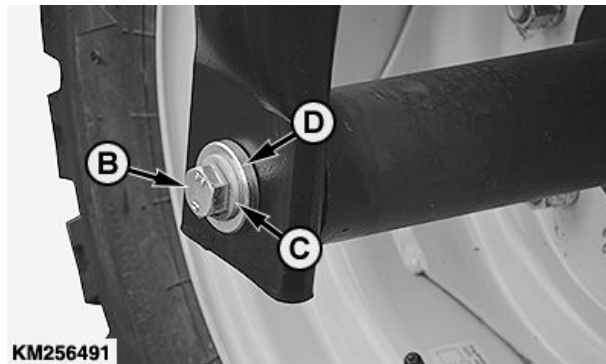
Tighten screw (B) to specified torque.

### Specification

Wheel Bolt—Torque.....240 N·m  
177 lb.-ft.

A—Pallet  
B—Screw

C—Lock Washer  
D—Collar bushing



KM256490 —UN—16OCT15

KM256491 —UN—16OCT15

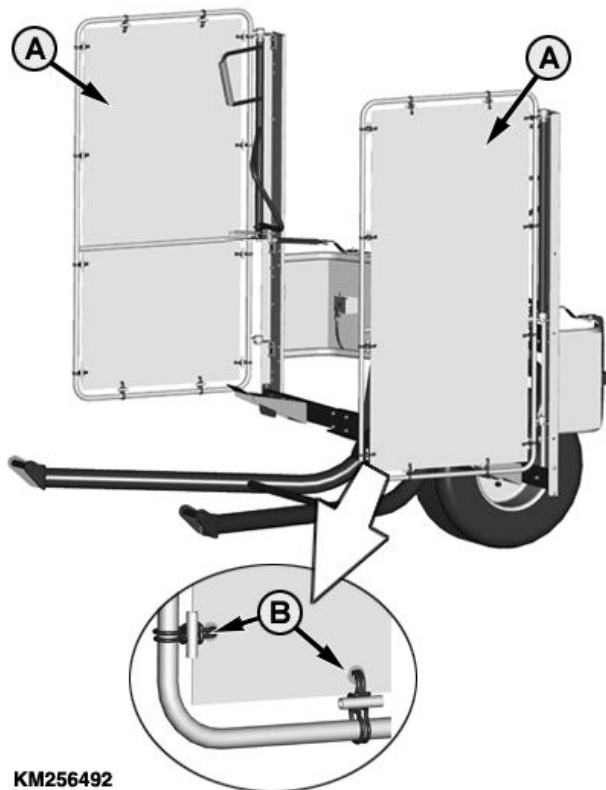
KM00321,00004B3 -19-19OCT15-1/1

## Install Curtains

On both sides, install curtains (A) and attach them to the frame using rubber pieces (B).

A—Curtains

B—Rubber Piece



KM256492 —UN—19OCT15

KM00321,00004B4 -19-16OCT15-1/1

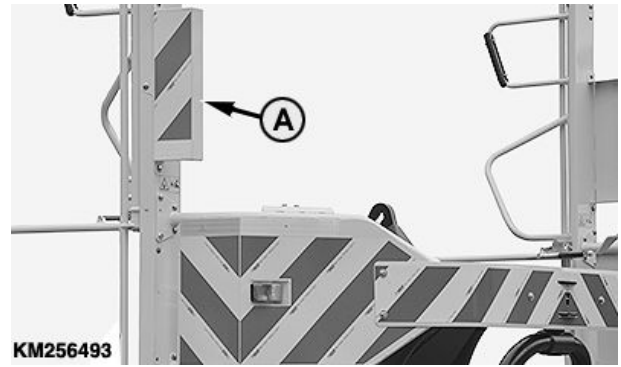
## Install Additional Guard (Option)

**NOTE:** In some countries, the additional guard is required by law.

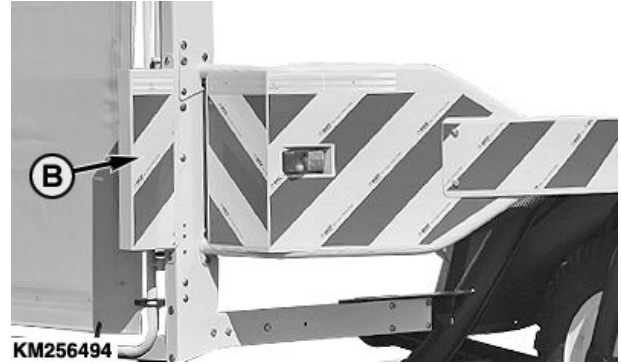
On both sides, remove the additional guard from transport position (A) and install it in operating position (B).

**A—Transport Position**

**B—Operating Position**



KM256493 —UN—16OCT15



KM256494 —UN—16OCT15

KM00321,00004B5 -19-19OCT15-1/1

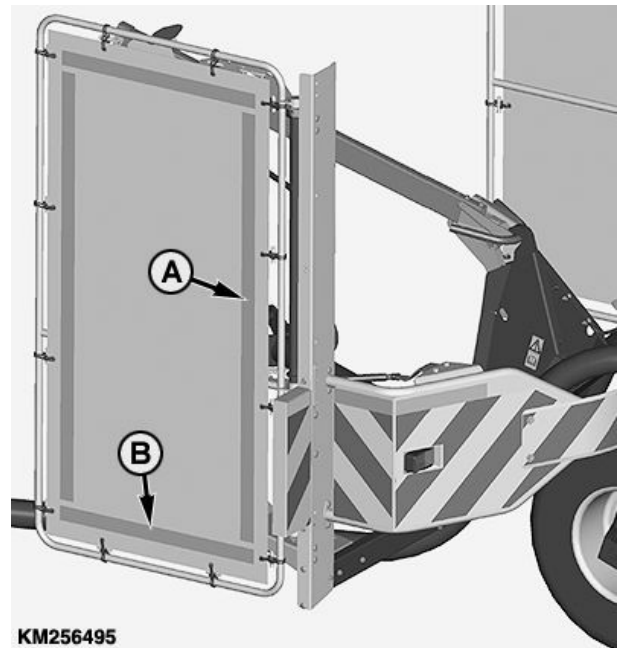
## Install Decals (Option)

**NOTE:** In some countries, the decals are required by law.

If required by law, install decals (A) and (B) on both sides as shown.

**A—Decal**

**B—Decal**



KM256495 —UN—16OCT15

KM00321,00004B6 -19-16OCT15-1/1

## Set the Comfort Support Wheel in Operating Position

The Comfort support wheel can be parked to save space. To do this, the side panels of the Comfort support wheel can be set to two positions:

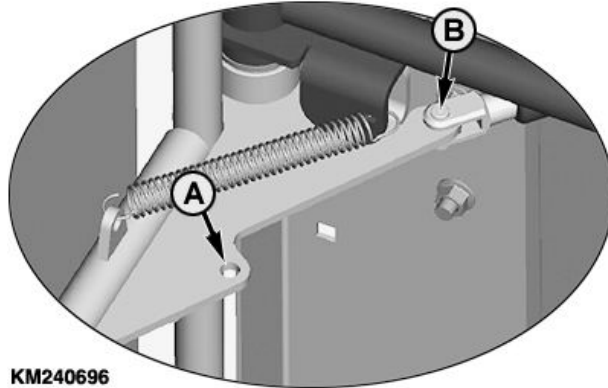
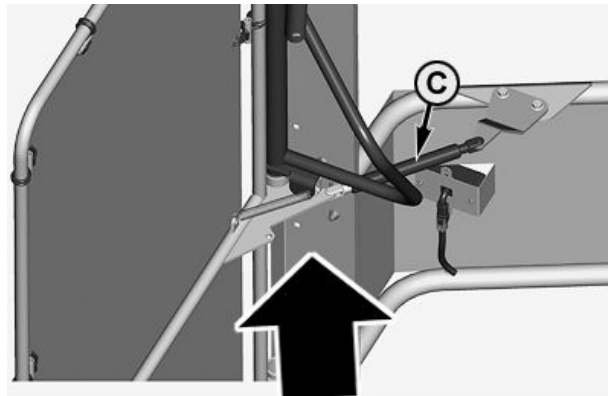
- Park position (A): The side panels are folded in. The Comfort support wheel can be parked to save space.
- Operating position (B): The side panels are folded out. When the rotary harvesting unit is attached, the side panels fold in automatically as the rotary harvesting unit is raised.

Engage gas-filled strut (C) in the desired position (A) or (B).

**IMPORTANT:** Before the Comfort support wheel is operated, gas-filled strut (C) must always be engaged in operating position (B).

A—Park Position  
B—Operating Position

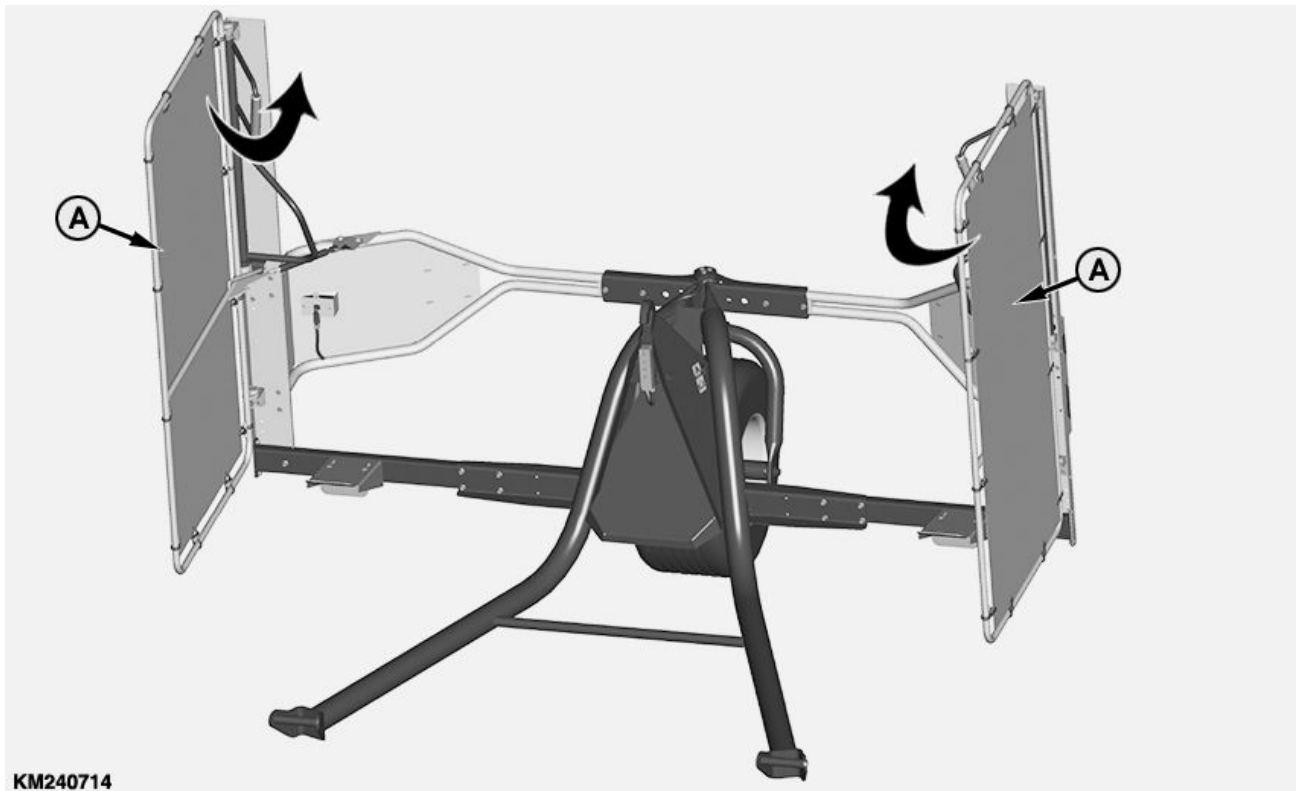
C—Gas-Filled Strut



KM240696 —UN—14APR15

KM00321,0000427 -19-15MAY15-1/1

## Adjust the End-Stops of the Side Panels

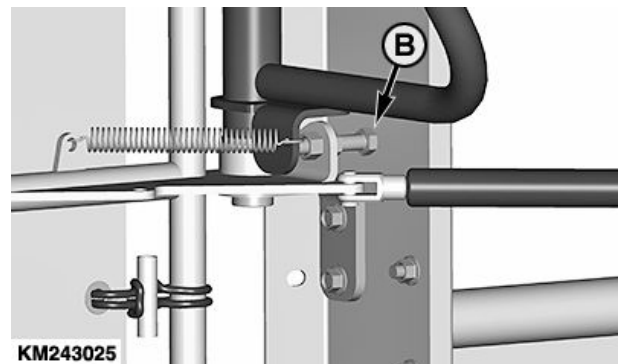


**NOTE:** To adjust the end-stops of the side panels, attach the Comfort support wheel to the rotary harvesting unit.

Adjust set screw (B) so that side panels (A) of the Comfort support wheel do not collide with the rotary harvesting unit when they are folded together.

- To increase the gap between side panels (A) and the rotary harvesting unit, turn set screws (B) clockwise.
- To reduce the gap between side panels (A) and the rotary harvesting unit, turn set screws (B) counter-clockwise.

Secure set screw (B) with lock nuts.



**A—Side Panel**

**B—Set Screw**

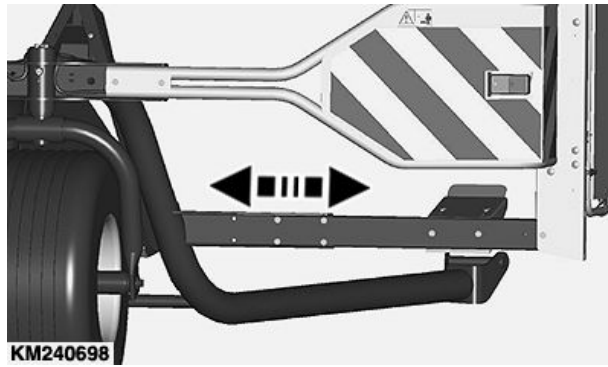
KM00321,0000429 -19-15MAY15-1/1

## Convert the Comfort Support Wheel for Different Rotary Harvesting Units

The Comfort support wheel can be converted for different rotary harvesting units

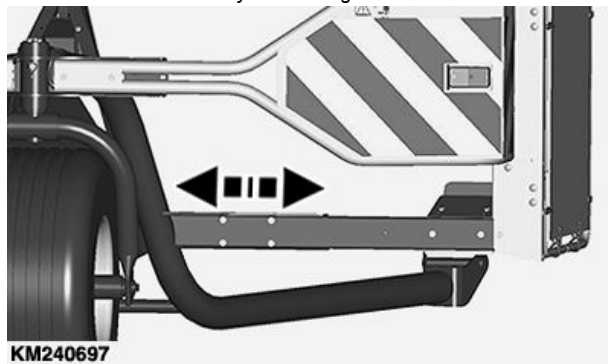
- wide rotary harvesting units (390<sup>plus</sup>)
- narrow rotary harvesting units (360<sup>plus</sup> and 375<sup>plus</sup>)

To do this, proceed as follows:



Rotary Harvesting Units 390<sup>plus</sup>

KM240688 —UN—16APR15



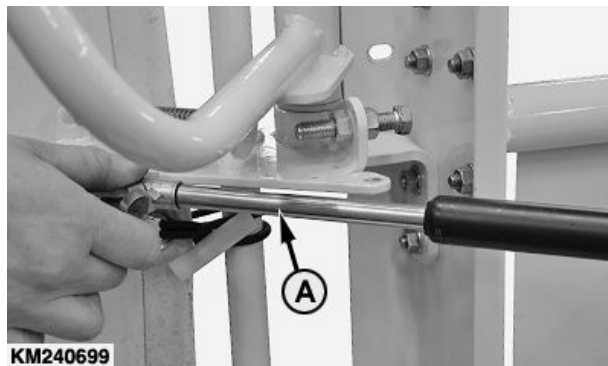
360<sup>plus</sup> and 375<sup>plus</sup> Rotary Harvesting Units

KM240697 —UN—16APR15

KM00321,0000428 -19-15MAY15-1/12

1. Remove the gas-filled strut (A).

**A—Gas-Filled Strut**



KM240699 —UN—15APR15

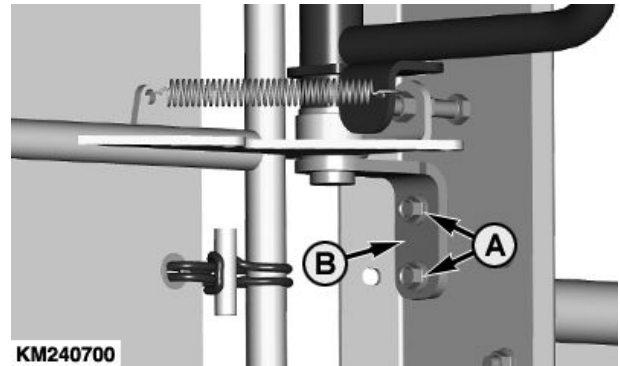
Continued on next page

KM00321,0000428 -19-15MAY15-2/12

2. Take out screws (A) and remove middle bracket (B).

A—Screws

B—Bracket



KM240700 —UN—15APR15

KM00321,0000428 -19-15MAY15-3/12

3. Remove pipe (A).

A—Pipe



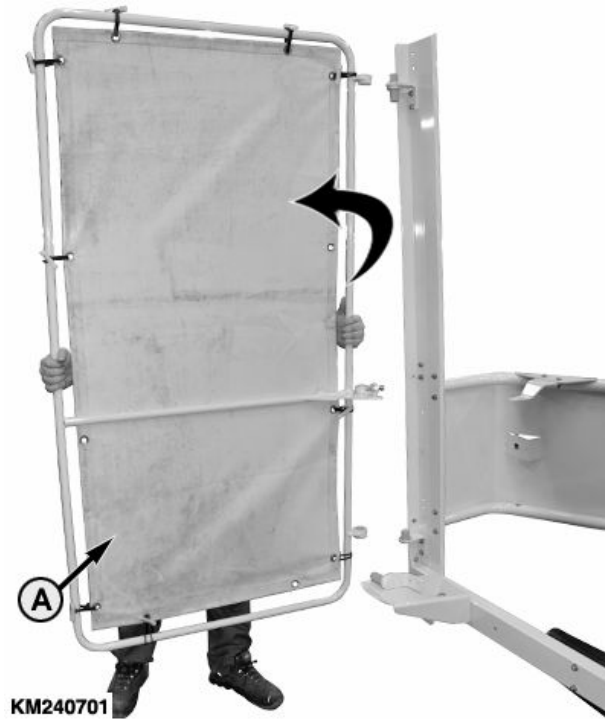
KM240705 —UN—16APR15

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KM00321,0000428 -19-15MAY15-4/12

4. Remove side panel (A).

A—Side Panel



KM240701

KM240701 —UN—15APR15

KM00321,0000428 -19-15MAY15-5/12

5. Take out screws (A) and (B).

Remove panel (C).

A—Screws  
B—Screws

C—Panel



KM240702



KM240702 —UN—16APR15



KM240703

KM240703 —UN—16APR15

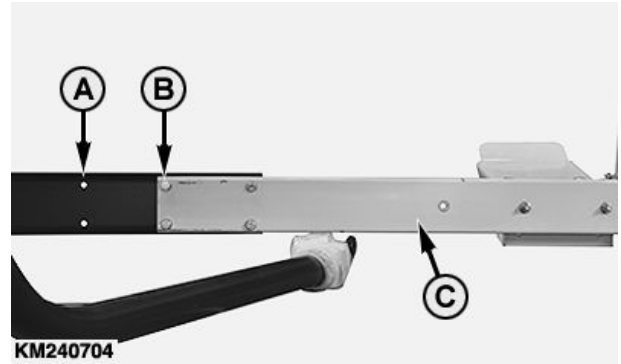
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KM00321,0000428 -19-15MAY15-6/12

6. For 390<sup>plus</sup> rotary harvesting units, install side panel (C) in the outer holes (B) (see illustration).

For 360<sup>plus</sup> and 375<sup>plus</sup> rotary harvesting units, install side panel (C) in inner holes (A).

**A—Holes for 360<sup>plus</sup> and 375<sup>plus</sup> Rotary Harvesting Units**  
**B—Holes for 390<sup>plus</sup> Rotary Harvesting Units**  
**C—Side Panel**



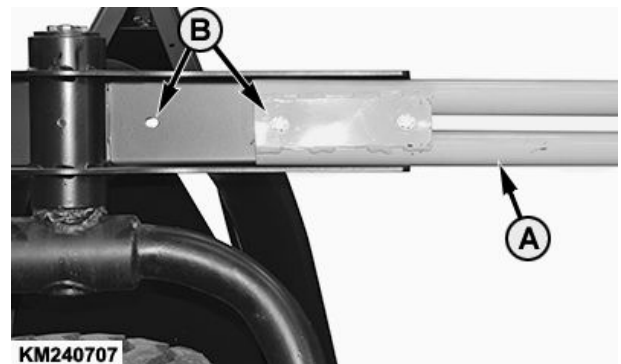
KM240704 —UN—16APR15

KM00321,0000428 -19-15MAY15-7/12

7. For 390<sup>plus</sup> rotary harvesting units, install pipe (A) as illustrated.

For 360<sup>plus</sup> and 375<sup>plus</sup> rotary harvesting units, install pipe (A) in holes (B).

**A—Pipe**  
**B—Holes**



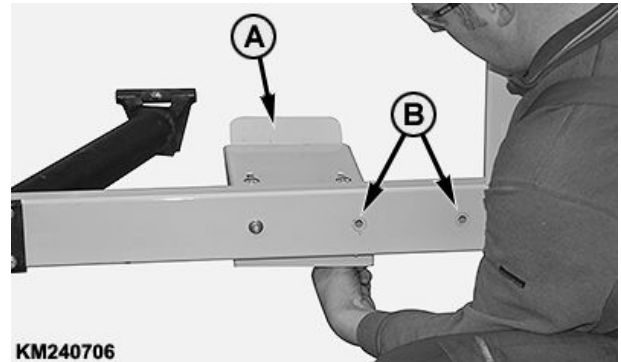
KM240707 —UN—17APR15

KM00321,0000428 -19-15MAY15-8/12

8. For 390<sup>plus</sup> rotary harvesting units, install console (A) as illustrated.

For 360<sup>plus</sup> and 375<sup>plus</sup> rotary harvesting units, install console (A) in holes (B).

**A—Console**  
**B—Holes**



KM240706 —UN—17APR15

Continued on next page

KM00321,0000428 -19-15MAY15-9/12

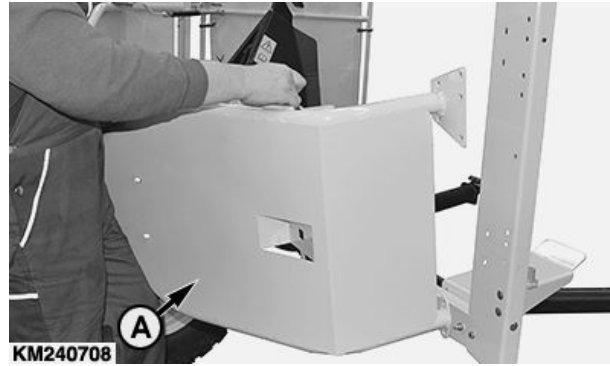
9. Secure panel (A) with screws (B).

Install bracket (C).

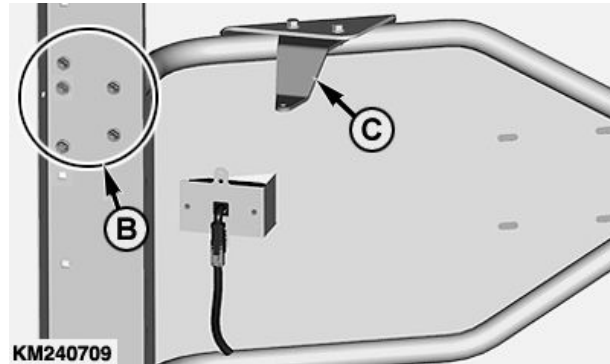
**IMPORTANT:** The position in which bracket (C) is installed depends on whether the Comfort support wheel is converted for narrow rotary harvesting unit or wide rotary harvesting units. Make sure that bracket (C) is installed in the correct position.

A—Panel  
B—Screws

C—Bracket

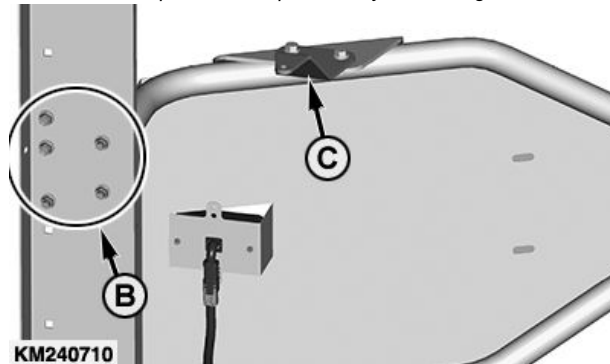


KM240708 —UN—20APR15



KM240709 —UN—20APR15

360plus and 375plus Rotary Harvesting Units



KM240710 —UN—20APR15

Rotary Harvesting Units 390plus

Continued on next page

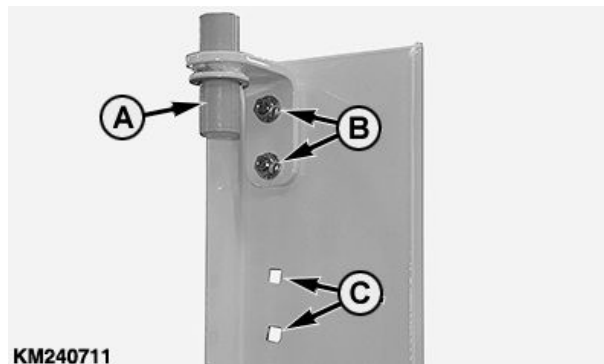
KM00321,0000428 -19-15MAY15-10/12

10. Install upper bracket (A) and lower bracket (D).

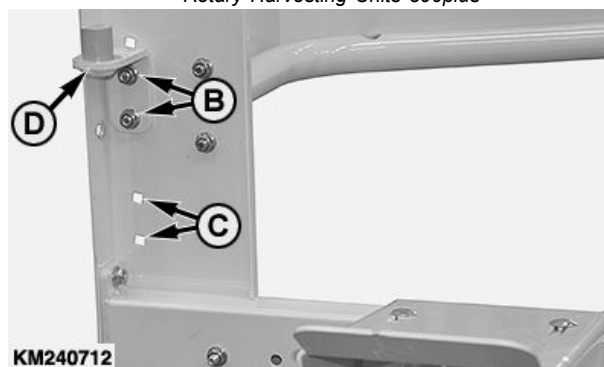
- Use holes (B) for 390 rotary harvesting units.
- Use holes (C) for 360 and 375 rotary harvesting units.

A—Upper Bracket  
B—Holes for 390<sup>plus</sup> Rotary Harvesting Units

C—Holes for 360<sup>plus</sup> and 375<sup>plus</sup> Rotary Harvesting Units  
D—Lower Bracket



Rotary Harvesting Units 390plus



360plus and 375plus Rotary Harvesting Units

KM00321,0000428 -19-15MAY15-11/12

11. Reinstall side panel (A).

Reassemble all the other parts in reverse order.

A—Side Panel



KM00321,0000428 -19-15MAY15-12/12

# Attaching

## Ballasting the Forage Harvester

Depending on the configuration of forage harvester/rotary harvesting unit, there may be considerable variations in ballast requirements with the support wheel attached.

Always install sufficient ballast to ensure steering function when braking while machine is in operation.

**IMPORTANT: For correct ballasting ALWAYS refer to the relevant ballasting chart in Section Ballast.**



KM1002286—UN—04MAY12

KM00321,0000167 -19-09MAY12-1/1

## Adjust Additional Lights (Claas Forage Harvester Only)

Before attaching the support wheel, adjust additional lights (A) on forage harvester so that they are as far apart (outward setting) as possible.

A—Additional Lights



KM1002288—UN—07MAY12

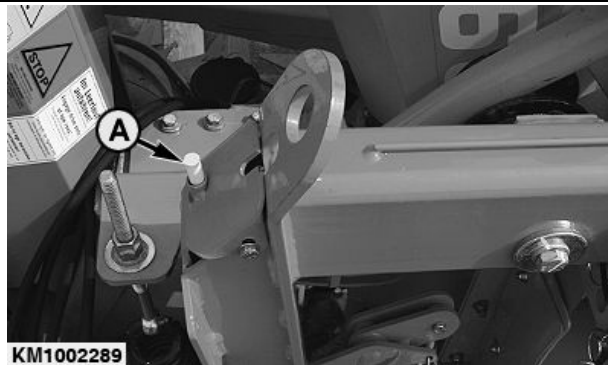
KM00321,000021F -19-01OCT13-1/1

## Automatic Identification of Comfort Support Wheel

With Comfort support wheel attached and completely locked, rod (A) extends on both sides of the attaching frame and transmits an impulse to the forage harvester software via an electrical sensor.

In this way, the Comfort support wheel is identified by the forage harvester.

A—Lift Rod



KM1002289—UN—21MAY12

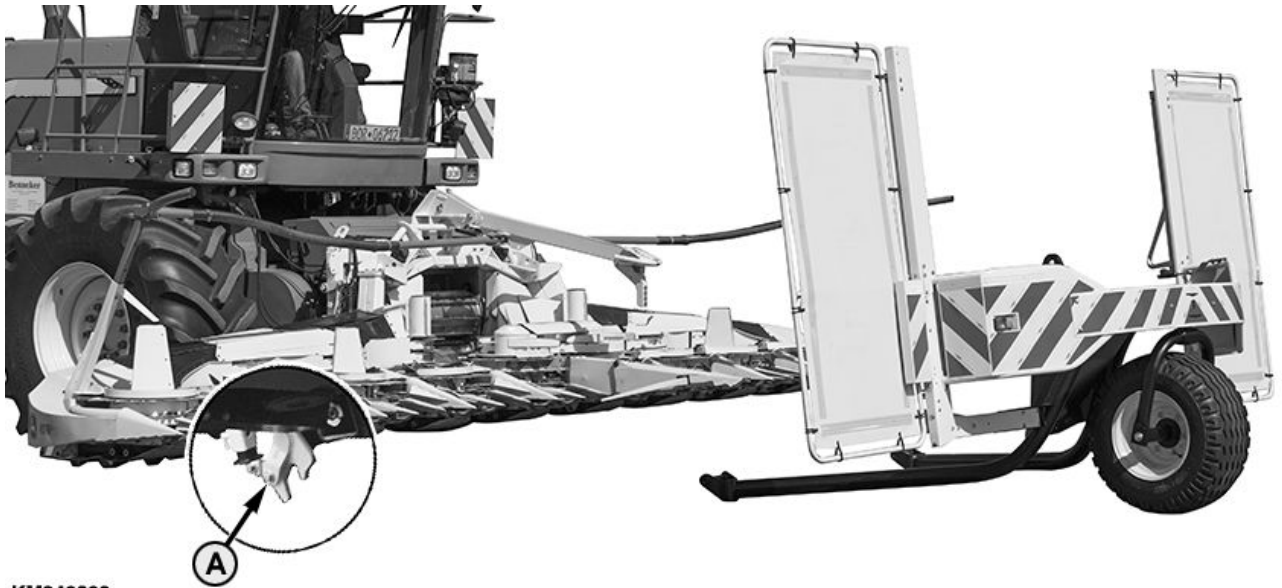
KM00321,000044A -19-19MAY15-1/1

## Attaching to a Rotary Harvesting Unit with AHC (Option)

Before attaching support wheel to a rotary harvesting unit with AHC (option), move rotary harvesting unit to horizontal position.

KM00321,0000220 -19-04OCT13-1/1

## Unfold the Rotary Harvesting Unit



KM243032

### A—Locking Pawl

Fold out the rotary harvesting unit until locking pawls (A) are opened at both sides.

**NOTE:** Locking pawls (A) are opened and closed by the folding mechanism of the rotary harvesting unit.

*Rotary harvesting unit folded up: locking pawls (A) closed.*

*Rotary harvesting unit folded out: locking pawls (A) opened.*

KM00321.0000441 -19-15MAY15-1/1

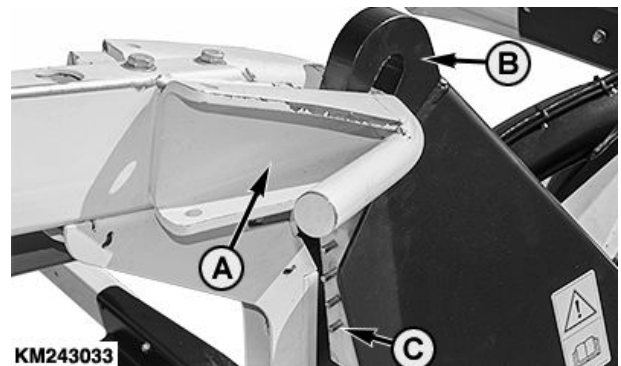
## Attach the Comfort Support Wheel

**NOTE:** If rotary harvesting unit cannot be unfolded as described above due to lack of space, the Comfort support wheel must be transported to a location where it can be attached.

Engage center feed bar (A) of rotary harvesting unit into hook (B) of the Comfort support wheel.

Lift the rotary harvesting unit and Comfort support wheel.

**NOTE:** Contacts (C) provide an electrical connection to the forage harvester. This enables the software of the forage harvester to recognize the Comfort support wheel.



KM243033

A—Feed Bar  
B—Hook

C—Contacts

Continued on next page

KM00321.0000442 -19-15MAY15-1/2

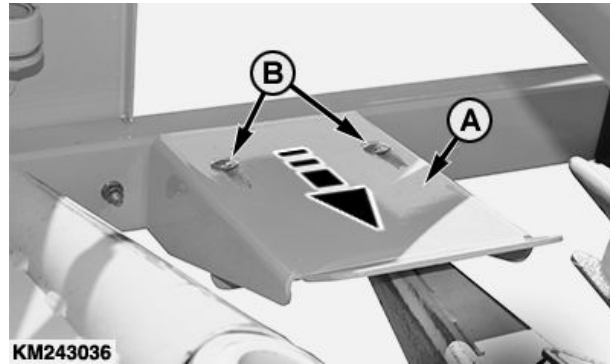
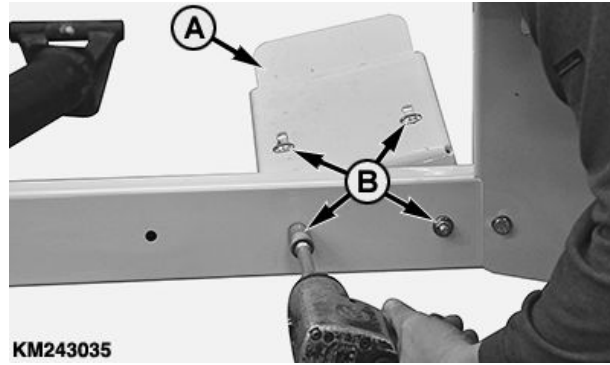
## Adjust the consoles (only when Comfort support wheel is attached for the first time)

When the Comfort support wheel is attached for the first time, consoles (A) must be adjusted to match the dividers of the rotary harvesting unit.

- Loosen screws (B).
- Lift the Comfort support wheel onto the rotary harvesting unit.
- Lift the rotary harvesting unit and Comfort support wheel.
- Slide the console (A) in the direction of the arrow to the divider of the rotary harvesting unit.
- Tighten screws (B).

A—Console

B—Screws



KM243035 —UN—15MAY15

KM243036 —UN—15MAY15

KM00321,0000442 -19-15MAY15-2/2

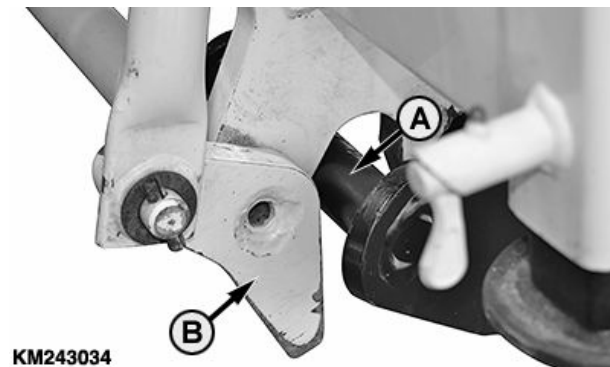
## Locking Device Position

**CAUTION:** When lifting the rotary harvesting unit, make sure that locking device (A) is centered in locking pawl (B).

**NOTE:** Repeat attaching procedure until locking device is in the correct position.

A—Locking Device

B—Locking Pawl



KM243034 —UN—15MAY15

KM00321,0000443 -19-15MAY15-1/1

## Adjust Locking Device (Only for Initial Use)

When attaching the Comfort support wheel for the first time, the position of the locking device (B) must be adjusted.

### Correct position of locking device (B):

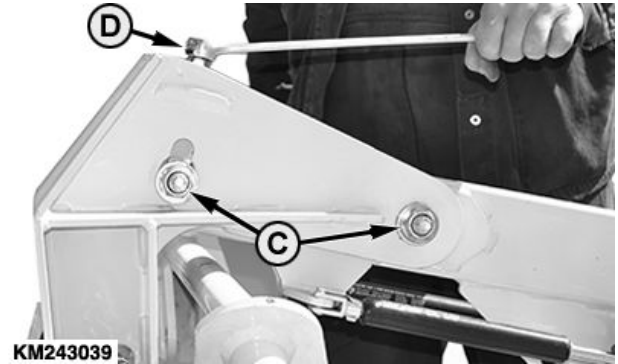
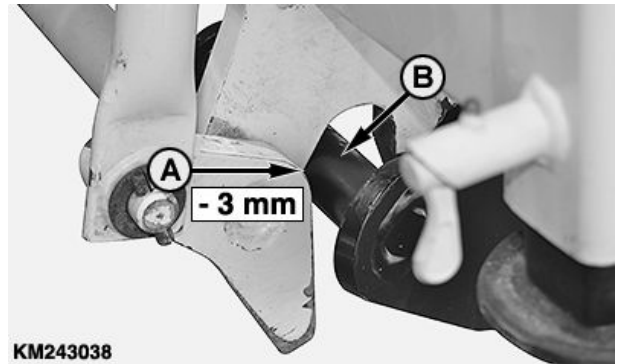
Between the top position of the open locking pawl (A) and approx. 3 mm below the top position.

### Adjustment procedure:

- Lift rotary harvesting unit.
- Loosen screws (C).
- Adjust height of the Comfort support wheel using set screw (D) until locking device is in the position described above.
- Tighten screws (C).

A—Locking Pawl  
B—Locking Device

C—Screws  
D—Set Screw



KM00321,0000445 -19-15MAY15-1/1

KM243038 —UN—15MAY15

KM243039 —UN—15MAY15

## Lock the Comfort Support Wheel

**NOTE:** The locking mechanism is controlled by the hydraulic folding function of the rotary harvesting unit.

1. When locking device is centered in locking pawl as shown, lift rotary harvesting unit.



KM00321,000042B -19-15MAY15-1/3

KM239224 —UN—25MAR15

2. Fold the rotary harvesting unit in.



Continued on next page

KM00321,000042B -19-15MAY15-2/3

KM243026 —UN—23APR15

3. Folding of the rotary harvesting unit will lock the Comfort support wheel automatically.



KM239226 —UN—25MAR15

KM00321,000042B -19-15MAY15-3/3

### Locking Status Indicator

*NOTE: The extension of rod (A) indicates whether locking device is properly engaged.*

- Rod (A) extended (as shown) = support wheel locked
- Rod (A) retracted = support wheel NOT locked

A—Rod



KM1002289 —UN—21MAY12

KM00321,0000171 -19-09MAY12-1/1

# Detaching

## Detach the Comfort Support Wheel

1. Lift rotary harvesting unit.
2. Unfold the outer folding sections until the locking device is disengaged (as shown).



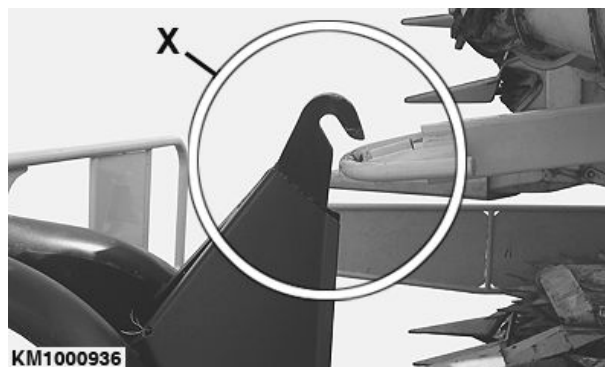
KM243037 —UN—15MAY15

KM00321,0000444 -19-15MAY15-1/2

3. Lower rotary harvesting unit until feed bar disengages from hook of Comfort support wheel (see detail "X").
4. Park the Comfort support wheel and drive forage harvester backwards.

**⚠ CAUTION:** Always park the Comfort support wheel on a level surface so that it may be reattached later.

**Do not park support wheel on a slope; otherwise take precautions to prevent it from rolling away.**



KM1000936 —UN—31JUL09

KM00321,0000444 -19-15MAY15-2/2

# Operation of Comfort Support Wheel

## Observe Maximum Permissible Front Axle Load

Compliance with the maximum permissible front axle load of the forage harvester can be achieved by attaching the Comfort support wheel before transporting the 375<sup>plus</sup> and 390<sup>plus</sup> rotary harvesting units. This ensures that 375<sup>plus</sup> and 390<sup>plus</sup> rotary harvesting units can be transported by forage harvesters on public roads.

**CAUTION:** Transport of the 375<sup>plus</sup> and 390<sup>plus</sup> rotary harvesting units on public roads with forage harvesters is only permissible if the maximum front axle load is observed; this is 11500 kg (375<sup>plus</sup>) or 11700 kg (390<sup>plus</sup>).

KM00321,000044B -19-20MAY15-1/1

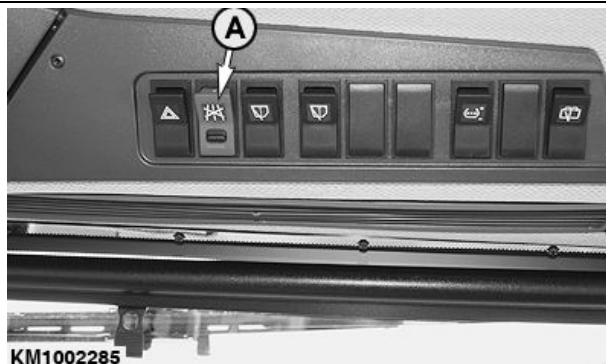
## Driving on Roads (Claas Forage Harvesters)

1. When driving on roads, safety switch (A) must be off and locked.

**CAUTION:** Risk of injury caused by rotating machine parts.

- Before driving on roads, switch the safety switch (A) off.
- Never switch the safety switch (A) on while driving on roads.

A—Safety Switch



KM1002285 —UN—04MAY12

Continued on next page

KM00321,0000221 -19-01OCT13-1/3

2. When the support wheel is installed correctly, the support wheel identification icon (A) lights up.
  - If the icon for support wheel identification (A) lights up red: Support wheel identified, ready for speeds up to 20 km/h.
  - If the icon for support wheel identification lights up green: Support wheel identified, ready for speeds up to 40 km/h.

Icon (B) indicates whether vibration dampening is active.

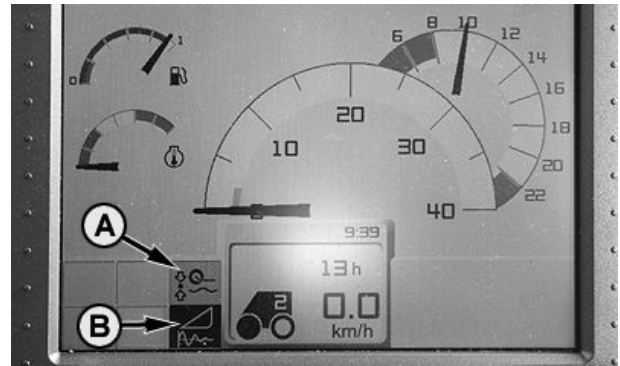
**CAUTION:** If vibration dampening is not activated, error message (C) appears: "Maximum travel speed is restricted! Activate the vibration dampening function."

If error message (C) appears:

Press the left side of multi-function lever (D) to lower the rotary harvesting unit, which activates the vibration dampening function.

A—Icon for Support Wheel Identification  
B—Icon for Vibration Dampening

C—Error Message  
D—Multi-Function Lever



KM1002300

KM00321,0000221 -19-01OCT13-2/3

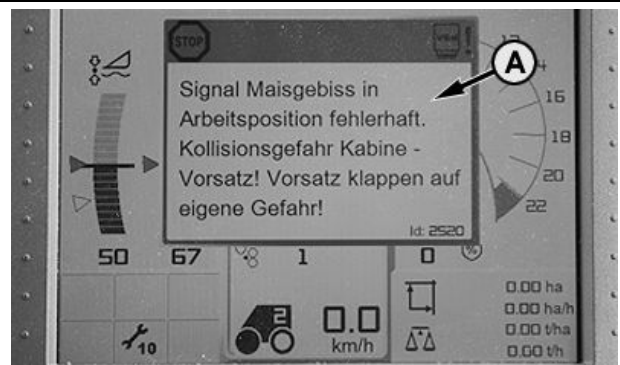
### Error message when folding the rotary harvesting unit

Press the [esc] button twice to cancel the following error message (A):

"Signal "Corn Head in Operating Position" is incorrect. Danger of Header Colliding with Cab! Fold Header at Own Risk!"

**NOTE:** Error message (A) is for Orbis equipment, and is intended to prevent damage to the forage harvester's cab caused by the sandwich-style (over-and-under) folding of the Orbis unit. KEMPER rotary harvesting units do not have sandwich-style folding.

A—Error Message



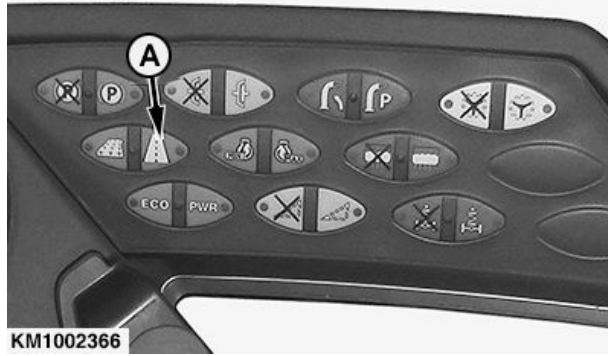
KM00321,0000221 -19-01OCT13-3/3

## Driving on Roads (Fendt Forage Harvesters)

Before driving on roads, press button (A). This activates the road mode.

**NOTE:** In road mode, maximum speed is enabled and most hydraulic and automatic functions are locked out.

**A—Button**



KM1002366—UN—26SEP13

KM00321,0000222 -19-04OCT13-1/7

## Check support wheel identification

1. Press button (A).

**A—Button**



KM1002367—UN—26SEP13

KM00321,0000222 -19-04OCT13-2/7

2. Press softkey (B) to access the diagnostic mode.

**B—Softkey**



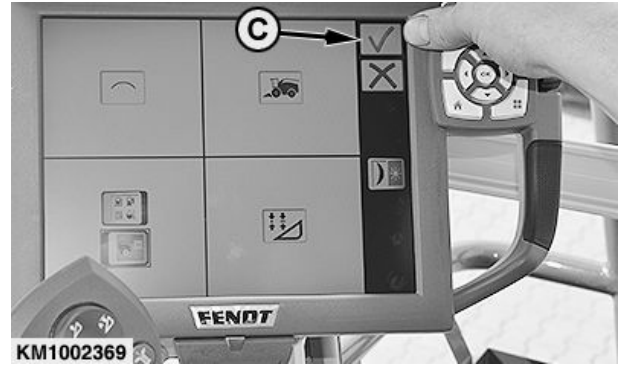
KM1002368—UN—26SEP13

Continued on next page

KM00321,0000222 -19-04OCT13-3/7

3. Confirm the procedure by pressing softkey (C).

**C—Softkey**



KM1002369

KM1002369—UN—04OCT13

KM00321,0000222 -19-04OCT13-4/7

4. Press softkey (D).

**D—Softkey**



KM1002370

KM1002370—UN—30SEP13

KM00321,0000222 -19-04OCT13-5/7

5. Press softkey (E).

**E—Softkey**



KM1002371

KM1002371—UN—30SEP13

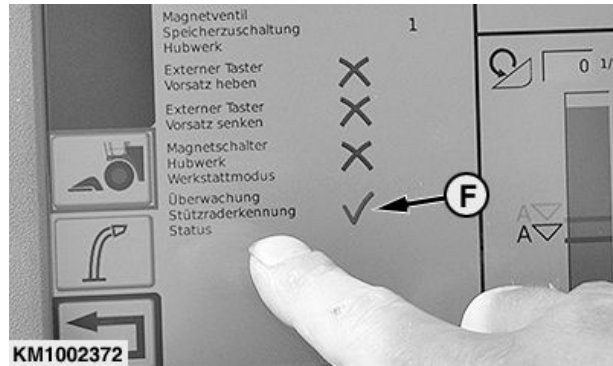
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KM00321,0000222 -19-04OCT13-6/7

6. Check whether the support wheel has been recognized by the harvester's software.

**IMPORTANT: Message (F) must be accompanied by a tick (check mark).**

F—Message



KM1002372

KM1002372—UN—30SEP13

KM00321,0000222 -19-04OCT13-7/7

## Locking Status Indicator

**IMPORTANT: Before every road journey, make sure that the support wheel is locked and that rods (A) are extended at both sides.**

A—Rod



KM1002289

KM1002289—UN—21MAY12

KM00321,0000183 -19-22MAY12-1/1

# Ballast

## Ballasting

Depending on the configuration of forage harvester/rotary harvesting unit, there may be considerable variations in ballast requirements with the support wheel attached. For correct ballasting ALWAYS refer to the relevant ballasting chart in this Section.

**IMPORTANT:** Add enough weights to keep four-wheel drive efficiency and steering function when braking.

**Do not overload rear tires, especially when rotary harvesting unit is removed.**

*NOTE: For detailed information on how to install ballast, see Operator's Manual of the forage harvester.*



KM1002286 —UN—04MAY12

KM00321,0000175 -19-14MAY12-1/1

## Ballasting Chart – 375plus on Claas Jaguar 940 - 980

ROTARY HARVESTING UNIT	FORAGE HARVESTER TYPE	BALLAST ON REAR END <sup>a</sup>
375plus	Claas Jaguar 940, 950, 960	4 x 160-kg plate weights Rear axle load 5400 kg
	Claas Jaguar 970, 980	6 x 160-kg plate weights Rear axle load 7280 kg

<sup>a</sup>The weights quoted here apply to forage harvesters equipped with four-wheel drive. Ballast must be increased by approx. 200 kg on forage harvesters equipped with two-wheel drive.

The weights quoted here apply to forage harvesters with a nominal top speed (as defined by manufacturer) of 20 km/h and 40 km/h.

*NOTE: These weights have been calculated on forage harvesters with standard equipment and the following tires:*

- 900/60R32 176A8 (front tires)

- 600/65R28 168A8 (rear tires)

*If the forage harvester has a different equipment fit or different tires, ballast must be altered accordingly.*

**IMPORTANT:** Before driving on public roads without the rotary harvesting unit, it is essential to remove the ballast weights.

KM00321,0000176 -19-21MAY12-1/1

## Ballasting Chart – 390plus on Claas Jaguar 940 - 980

ROTARY HARVESTING UNIT	FORAGE HARVESTER TYPE	BALLAST ON REAR END <sup>a</sup>
390plus	Claas Jaguar 940, 950, 960	4 x 160-kg plate weights Rear axle load 5320 kg
	Claas Jaguar 970, 980	3 x 160-kg plate weights Rear axle load 6880 kg

<sup>a</sup>The weights quoted here apply to forage harvesters equipped with four-wheel drive. Ballast must be increased by approx. 200 kg on forage harvesters equipped with two-wheel drive.

The weights quoted here apply to forage harvesters with a nominal top speed (as defined by manufacturer) of 20 km/h and 40 km/h.

*NOTE: These weights have been calculated on Jaguar 950 and 980 forage harvesters with standard equipment and the following tires:*

- 900/60R32 176A8 (front tires)

- 600/65R28 168A8 (rear tires)

*If the forage harvester has a different equipment fit or different tires, ballast must be altered accordingly.*

**IMPORTANT:** Before driving on public roads without the rotary harvesting unit, it is essential to remove the ballast weights.

KM00321,0000177 -19-21MAY12-1/1

# Wheels

## Service Tires Safely

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

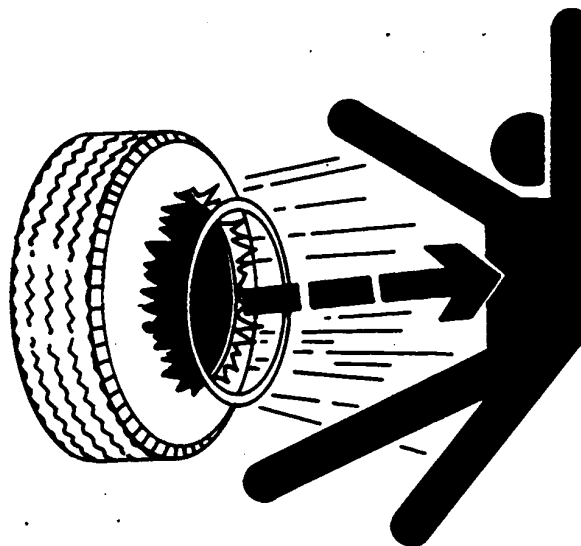
**Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job.**

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.



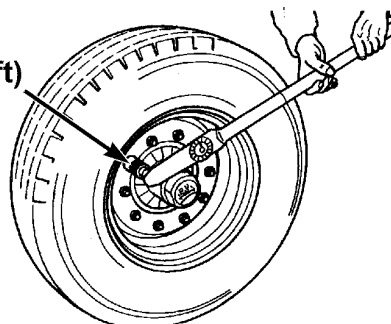
TS211 —UN—15APR13

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

## Wheel Bolts and Nuts

After the first hour of operation and then every 50 hours of operation, tighten wheel nuts to 350 Nm (258 lb-ft).

**350 Nm  
(258 lb-ft)**



KM1000943

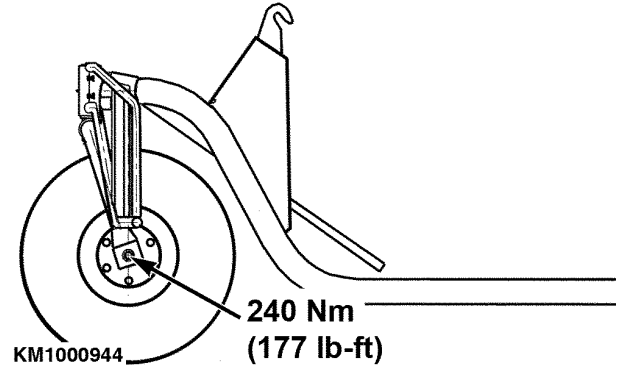
KM1000943 —UN—11AUG09

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KM00321,00001E5 -19-11AUG09-1/2

## Wheels

After the first hour of operation and then every 50 hours of operation, tighten wheel bolt to 240 Nm (177 lb-ft).



KM1000944 —UN—11AUG09

KM00321,00001E5 -19-11AUG09-2/2

## Tire Size

Type ..... 15.0/55-17 (14 PR)  
 Width ..... 391 mm (15.39 in.)  
 Diameter ..... 850 mm (33.46 in.)

KM00321,00001E6 -19-11AUG09-1/1

## Tire Inflation Pressures

*NOTE: The tire inflation pressures quoted in the table refer to the permissible axle load of 2000 kg (4409 lb) of the support wheel.*

SPEED	MAXIMUM LOAD	TIRE INFLATION PRESSURES
25 km/h (15 mph)	2000 kg (4409 lb)	210 kPa (2.1 bar) (30.5 psi)
30 km/h (19 mph)	2000 kg (4409 lb)	240 kPa (2.4 bar) (34.8 psi)
40 km/h (25 mph)	2000 kg (4409 lb)	280 kPa (2.8 bar) (40.6 psi)

KM00321,00001E7 -19-11AUG09-1/1

# Troubleshooting

## Comfort Support Wheel 300F

remove ignition key and wait until all moving parts have come to a stop.

**⚠ CAUTION:** Before carrying out adjustment or service work, **ALWAYS** shut off engine,

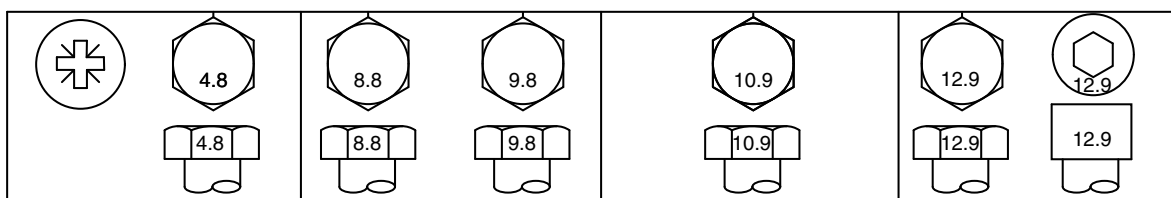
Symptom	Problem	Solution
<b>The Comfort support wheel is not locked</b>	Locking device is not engaged in locking pawl	Repeat attaching procedure.
	Locking mechanism adjusted incorrectly	Adjust locking mechanism.
<b>Comfort support wheel is not identified</b>	Electrical contacts are dirty	Clean the electrical contacts.
	Forage harvester software configured incorrectly	Contact your KEMPER dealer.
	Faulty sensor	Replace the sensor.
	Wiring harness incorrectly configured	Contact your KEMPER dealer.
	The Comfort support wheel is not locked completely	Lock the Comfort support wheel completely.

KM00321,000044C -19-22MAY15-1/1

# Lubrication and Maintenance

## Metric Bolt and Screw Torque Values

TS1670 —UN—01MAY03



Bolt or Screw Size	Class 4.8				Class 8.8 or 9.8				Class 10.9				Class 12.9			
	Lubricated <sup>a</sup>		Dry <sup>b</sup>		Lubricated <sup>a</sup>		Dry <sup>b</sup>		Lubricated <sup>a</sup>		Dry <sup>b</sup>		Lubricated <sup>a</sup>		Dry <sup>b</sup>	
	Nm	lb.-in.	Nm	lb.-in.	Nm	lb.-in.	Nm	lb.-in.	Nm	lb.-in.	Nm	lb.-in.	Nm	lb.-in.	Nm	lb.-in.
M6	4.7	42	6	53	8.9	79	11.3	100	13	115	16.5	146	15.5	137	19.5	172
									Nm	lb.-ft.	Nm	lb.-ft.	Nm	lb.-ft.	Nm	lb.-ft.
M8	11.5	102	14.5	128	22	194	27.5	243	32	23.5	40	29.5	37	27.5	47	35
			Nm	lb.-ft.	Nm	lb.-ft.	Nm	lb.-ft.								
M10	23	204	29	21	43	32	55	40	63	46	80	59	75	55	95	70
	Nm	lb.-ft.														
M12	40	29.5	50	37	75	55	95	70	110	80	140	105	130	95	165	120
M14	63	46	80	59	120	88	150	110	175	130	220	165	205	150	260	190
M16	100	74	125	92	190	140	240	175	275	200	350	255	320	235	400	300
M18	135	100	170	125	265	195	330	245	375	275	475	350	440	325	560	410
M20	190	140	245	180	375	275	475	350	530	390	675	500	625	460	790	580
M22	265	195	330	245	510	375	650	480	725	535	920	680	850	625	1080	800
M24	330	245	425	315	650	480	820	600	920	680	1150	850	1080	800	1350	1000
M27	490	360	625	460	950	700	1200	885	1350	1000	1700	1250	1580	1160	2000	1475
M30	660	490	850	625	1290	950	1630	1200	1850	1350	2300	1700	2140	1580	2700	2000
M33	900	665	1150	850	1750	1300	2200	1625	2500	1850	3150	2325	2900	2150	3700	2730
M36	1150	850	1450	1075	2250	1650	2850	2100	3200	2350	4050	3000	3750	2770	4750	3500

Torque values listed are for general use only, based on the strength of the bolt or screw. DO NOT use these values if a different torque value or tightening procedure is given for a specific application. For stainless steel fasteners or for nuts on U-bolts, see the tightening instructions for the specific application. Tighten plastic insert or crimped steel type lock nuts by turning the nut to the dry torque shown in the chart, unless different instructions are given for the specific application.

Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical property class. 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 fastener threads are clean and that you properly start thread engagement. When possible, lubricate plain or zinc plated fasteners other than lock nuts, wheel bolts or wheel nuts, unless different instructions are given for the specific application.

<sup>a</sup>"Lubricated" means coated with a lubricant such as engine oil, fasteners with phosphate and oil coatings, or M20 and larger fasteners with JDM F13C, F13F or F13J zinc flake coating.

<sup>b</sup>"Dry" means plain or zinc plated without any lubrication, or M6 to M18 fasteners with JDM F13B, F13E or F13H zinc flake coating.

DX.TORQ2 -19-12JAN11-1/1

## Service Intervals

**CAUTION:** Before making any adjustments or doing any service work, always:

- Switch the machine off
- Remove the key from the ignition
- Wait until all the moving parts have come to a standstill.

**IMPORTANT:** The intervals quoted here are for average conditions. Adverse operating conditions may make it necessary to apply lubrication more often.

**IMPORTANT:** Replace any damaged parts.

Any screws that have worked loose must be retightened to the proper torque.

Clean grease fittings before lubrication. Replace lost or damaged grease fittings immediately. If a new fitting fails to take grease, remove it and check whether the grease passage is blocked.

Perform lubrication and maintenance work mentioned in this section before and after every harvesting season as well.

KM00321,00001E9 -19-12AUG09-1/1

## Grease

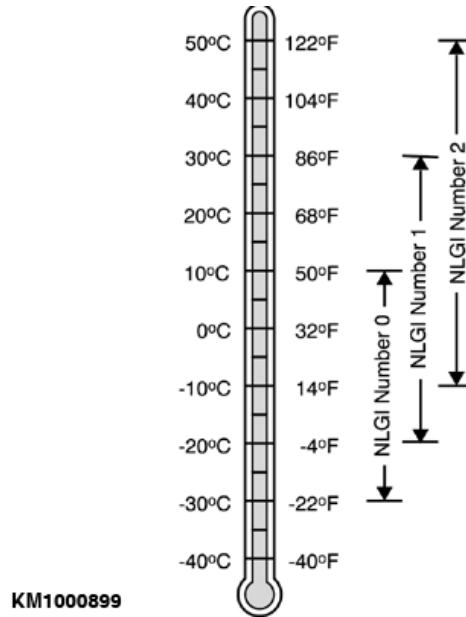
Use grease based on NLGI consistency numbers and the expected air temperature range during the service interval.

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—09JUN09

KM00321,00002CB -19-03MAY10-1/1

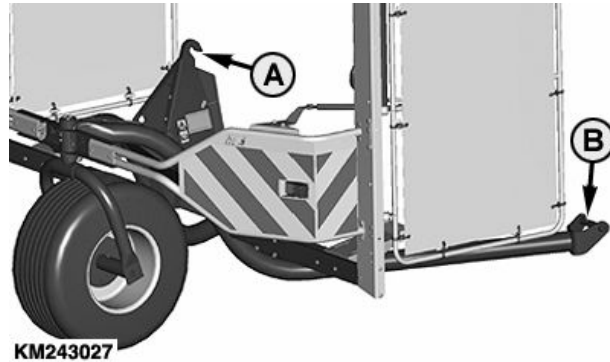
## Every 10 Hours - Hook and Locking Devices

Clean hook (A) and locking devices (B).

Apply a coat of grease to hook (A) and locking devices (B) using a brush.

A—Hook

B—Locking Devices



KM243027

KM243027 —UN—12MAY15

KM00321,000044D -19-21MAY15-1/1

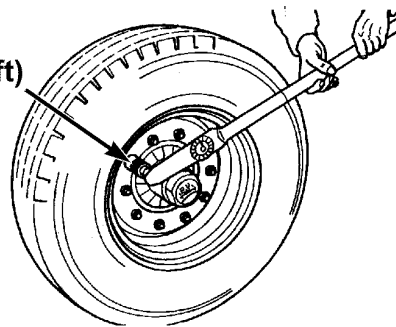
## Every 50 Hours - Wheel Nuts

Retighten wheel nuts.

### Specification

Wheel nuts—Torque.....350 Nm  
258 lb-ft

350 Nm  
(258 lb-ft)



KM1000943

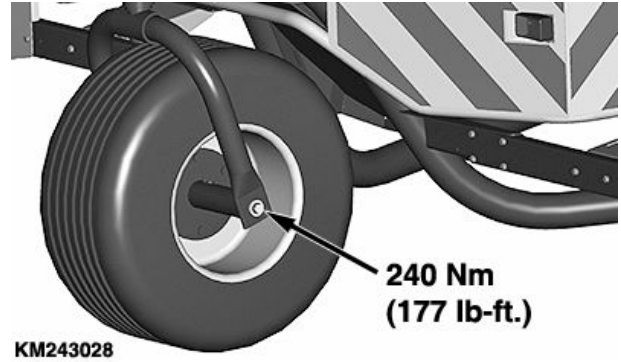
KM1000943 —UN—11AUG09

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## Every 50 Hours - Wheel Bolts

Retighten wheel bolts.

Specification	
Wheel Bolt—Torque.....	240 Nm 177 lb-ft



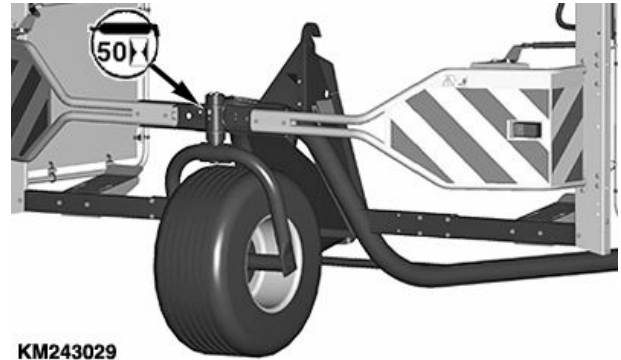
KM243028

KM243028 —UN—12MAY15

KM00321,000043A -19-12MAY15-1/1

## Every 50 Hours - Swivel

Lubricate with grease.



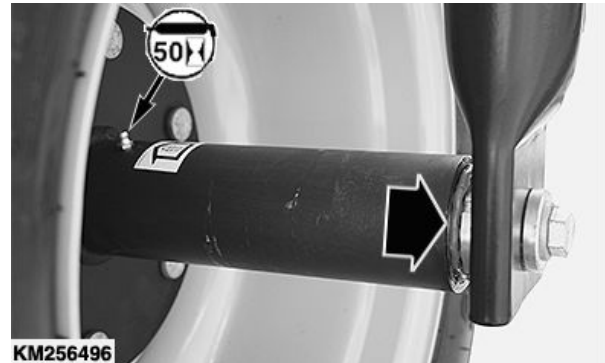
KM243029

KM243029 —UN—12MAY15

KM00321,000044E -19-21MAY15-1/1

## Every 50 Operating Hours—Wheel Hub

Grease wheel hub until grease is visible at the hub end.



KM256496

KM256496 —UN—18OCT15

KM00321,00004BA -19-21OCT15-1/1

# Specifications

## Comfort Support Wheel 300F

Model designation ..... 300F

Suitable for rotary harvesting unit type ..... 360<sup>plus</sup>, 375<sup>plus</sup>, 390<sup>plus</sup>

### Dimensions

Width ..... 3.27 m (10 ft. 8.7 in.)

Height (when installed on 360<sup>plus</sup> and 375<sup>plus</sup> rotary harvesting units) ..... 2.50 m (8 ft. 2.4 in.)

Height (when installed on 390<sup>plus</sup> rotary harvesting unit) ..... 2.63 m (8 ft. 7.5 in.)

Length ..... 2.70 m (8 ft. 10.3 in.)

### Weight

Axle load + dead weight ..... 2425 kg (5346.2 lb.)

Empty weight ..... 425 kg (936.36 lb.)

KM00321,000043C -19-12MAY15-1/1

## EC Declaration of Conformity

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

The person named below declares that  
the product

Machine type: Comfort Support Wheel

Model: 300F

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

DIRECTIVE	NUMBER	CERTIFICATION METHOD
Machinery directive	2006/42/EC	Self certification
General safety requirements for agricultural machines	DIN EN ISO 4254-1	Self certification
Safety of machinery	DIN EN ISO 12100	Self certification
Safety of forage harvesters and combines	DIN EN 632	Self certification

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

Brigitte Birk  
D-68008 Mannheim, Germany

Place of Declaration: 48703 Stadthohn,  
Germany

Name: Gregor Sueck

Date of declaration: 4 March 2015

Title: Manager Product Engineering

Manufacturing unit: Kemper Stadthohn

DXCE01 —UN—28APR09



KM00321,00004B9 -19-21OCT15-1/1

# Serial Number

## Support Wheel Serial Number Plate

- A—Type

B—Model

C—Product Identification Number

D—Weight
- E—Year of Manufacture

F—Model Year

G—Permissible Front Axle Load

The diagram shows a serial number plate for 'Maschinenfabrik KEMPER'. It includes fields for 'Type / Model', 'Product Identification Number', 'Weight', 'Max. axle load', 'Constr. year', and 'Model year'. A CE mark and company information are also present. Labels A through G point to the following fields: A (Type), B (Model), C (Product Identification Number), D (Weight), E (Constr. year), F (Model year), and G (Max. axle load).

**Maschinenfabrik KEMPER**

Constr. year

Model year

CE

Maschinenfabrik Kemper GmbH & Co KG  
48703 Stadthoehn

Weight  KG

Max. axle load  KG

Product Identification Number

Type / Model

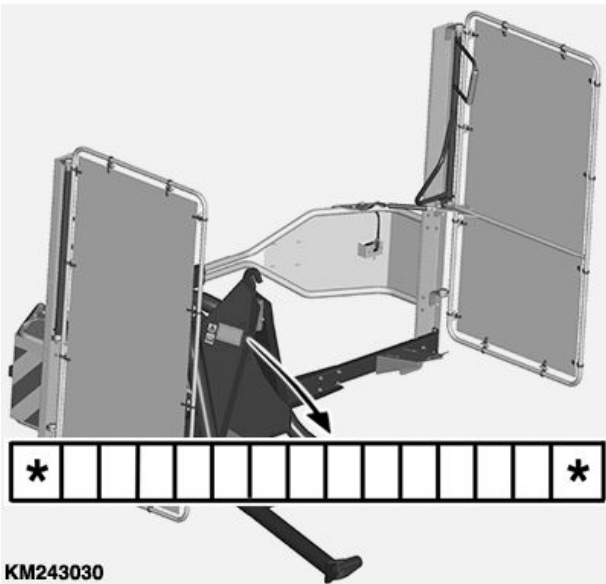
KM1002302

KM00321,000017C -19-16MAY12-1/1

KM1002302 —UN—15MAY12

## Serial Number

When ordering parts, always quote the Comfort support wheel serial number. The serial number is on the plate at the left side of the frame. Record the serial number in the space provided opposite.



KM00321,000043E -19-15MAY15-1/1

KM243030 —UN—12MAY15

*Serial Number*

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