INSTALLATION INSTRUCTION
CONVERSION TRACK SYSTEM

Models 24Q17MK1N48-252A
for New Holland CX5000 Series Combines

2K-0190 Front Axle Fitment Kit
1.0 Introduction
This Installation manual was prepared with the latest service information available at the time of publication. Read the installation manual carefully before doing any service on the undercarriage(s). The photos, illustrations, and data used in this manual were current at the time of printing, but due to possible production change, your installation can vary slightly. Camso reserves the right make changes as necessary without notification.

WARNING
Some pictures in this manual show the undercarriage with shields removed or undercarriage removed from the cart or frame to allow for a better view of the subject of the picture.

2.0 Important Safety Information
Read and understand this manual, the undercarriage operator's manual, the operation manual for the equipment the undercarriage is mounted to, and the manual for all attachments before installing track system onto the machine.
Most personal injuries occurring during equipment operation, maintenance, or repair are caused by failure to observe basic safety rules and precautions. In most cases, an injury can be avoided by recognizing hazardous situations before an injury occurs.
A person must be alert to potential hazards. This person should also have the necessary training, skills and tools to perform these functions properly.
Safety precautions and warnings are provided in this manual and on the product. If these hazard warnings are not heeded, bodily injury or death could occur to you or to other persons.
Not every possible circumstance that might involve a potential hazard can be anticipated. The warnings in this publication and on the product are, therefore, not all inclusive. If a tool, procedure, work method or operating technique that is not specifically recommended by Camso is used, you must satisfy yourself that it is safe for you and for others.
You must also make sure that the product will not be damaged or be made unsafe by the operation, lubrication, maintenance or repair procedures that you choose. The information, specifications, and illustrations in this publication are on the basis of information that was available at the time that this publication was written.
The specifications, torques, pressures, measurements, adjustments, illustrations, and other items can change at any time. These changes can affect the service that is given to the product. Obtain the complete and most current information before you start any job. Camso dealers have the most current information available.

WARNING
When replacement parts are required for this product Camso recommends using Camso replacement parts. Failure to heed this warning can lead to premature failures, product damage, personal injury or death.

WARNING
Installation of CTS systems onto any machine requires special adapters that must be obtained from Camso for proper installation. Failure to heed this warning can lead to premature failures, product damage, personal injury or death.
3.0 Special Tools Required for Installation

- 30 mm socket
- ¾” drive torque wrench (range of at least 440 ft-lbs to 620 ft-lbs)
- ¾” drive extension (12”)
- ¾” drive impact gun
- Lifting straps (capable of lifting 2000 lbs for final drive dismount)
- Fork lift or similar lifting device (capable of lifting 6600 lbs – 3000 kg)
- Hydraulic Jack (20 ton)
- Blocks (adequate support for holding up combine)

4.0 Installation Notes

- Track systems can be mounted on New Holland CX5000 Series Combines
5.0 Installation Kit Parts Breakdown

To properly install the CTS track system to a combine, the following component list will be necessary. If missing components or there are damaged components, please contact your authorized Camso Dealer for any replacements.

5.1 Fitment Kit 2K-0190 parts details

Kit contains:

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PRT NO</th>
<th>DESCRIPTION</th>
<th>DESIGNATION</th>
<th>QTY</th>
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<td>TENSIONING HOSE - CTS</td>
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<tr>
<td>2</td>
<td>2A-1523-100</td>
<td>SHAFT KIT MK NH CX5 - 24&quot;</td>
<td></td>
<td>1</td>
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<td>3</td>
<td>2A-1524-100</td>
<td>MOUNTING KIT MK NH CX5 - 24&quot;</td>
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### 5.2 Mounting kit – 2A-1524-100 part details

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<tr>
<td>2</td>
<td>1001814</td>
<td>RASAMENTO 2 mm TRAVERSA</td>
<td></td>
<td>8</td>
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<tr>
<td>3</td>
<td>1001815</td>
<td>RASAMENTO 1 mm TRAVERSA</td>
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<tr>
<td>4</td>
<td>1002344</td>
<td>SPINA CENTRAGGIO</td>
<td></td>
<td>4</td>
</tr>
<tr>
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<td>1002651</td>
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<td>1002652</td>
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<td>7</td>
<td>1002655</td>
<td>DOWEL PIN</td>
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<td>2F-0142</td>
<td>HHCS ISO 4014,10.9,Zn-T</td>
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<td>9</td>
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<td>2F-0323</td>
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<td>11</td>
<td>2F-0325</td>
<td>WEDGE LOCKING WASHER, DIN25201</td>
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![Diagram of mounting kit parts]
### 5.3 Shaft kit – 2A-1523-100 part details

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<td>DRIVE SHAFT - LH</td>
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<td>DRIVE SHAFT 22TH 572mm</td>
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<td>4</td>
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<td>M10</td>
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<td>SNAPRING EXT - D 45</td>
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<td>8</td>
<td>2H-0179</td>
<td>GREASE NIPPLE DIN71412-A M10X1 - A2C</td>
<td>M10X1</td>
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6.0 Track System Installation

6.1 Handling and preparation of the Track System

The track systems can be handled by fork lifts or by hoists using textile bands. If using a forklift, the track systems can be lifted from the base of the track system or by carefully sliding the forks through the drive wheel.

**WARNING**

Danger of crushing. Use suitable lifting devices (capacity at least 6600 lbs – 3000 Kg), wear safety equipment and observe the safety rules.

**WARNING**

In case of a fork lift use for handling operations, be careful not to damage the rubber track. Metal chains or cables are not recommended.

**WARNING**

Use a chock between each idler wheel and track to prevent the track system from rolling if using a forklift and handling the track system by the base.

**WARNING**

When setting a track system on the ground but off of the machine, place track system on a flat surface and place a wheel chock in front of and to the rear of the track system to prevent the track system from rolling.

1. On both sides, mount 2x 1002344 short axle pilot pins (# 4) on the track system gearbox, as shown.
2. On right side, mount 1x 1002651 adapter spacer (# 5) on the gearbox track system flange aligned with the 2 pilot pins. Fix it using 9x 2F-0142 M20x2,5x90 bolts (# 8) and 9x 2F-0325 M20 washers (# 11). Torque the bolts at 620 Nm.

On left side, mount 1x 1002652 adapter spacer (# 6) on the gearbox track system flange aligned with the 2 pilot pins. Fix it using 9x 2F-0142 M20x2,5x90 bolts (# 8) and 9x 2F-0325 M20 washers (# 11). Torque the bolts at 620 Nm.

3. On both sides, mount 2x 1002344 short axle pilot pins (# 4) on the adapter spacers, as shown.
6.2 Track System Installation

In order to make the installation easier, the ladder and some shields may have to be temporarily removed. In the case these or other components interfere with the tracks, the Customer must refer to the combine harvester Manufacturer for permission to remove or replace them.

1. Place combine on a level surface and lock the combine harvester to avoid any movement. Using an adequate lifting device, lift the combine on installation side. Keeping the front axle parallel to the ground will aid in ease of installation.

**WARNING**
Safety of the installation depends on the right operation in lifting and supporting the combine harvester. Check the work area thoroughly and work in a level area. Respect safe operating practices, operate in conditions of enough light. Make sure the free spaces of the work area are suitable for the dimensions of the parts to be handled and for the lifting equipment maneuvers.
Be careful: risk of injury.

2. Remove the tire(s) and related final drive from the axle; collect the M20 bolts and related washers for the following track system assembly. Follow procedures identified in the Combine Operator's Manual to properly remove and handle these components.

3. Remove the original shaft and the outer sleeve of the combine.

4. Approach the track to the combine harvester to match the flanges by using the pilot pins [D]. Take care that the rear of the track is on the tensioning cylinder side.

**WARNING**
Should a motorized lifting device be used, assistance on ground during operation of handling, coupling and assembly is needed.
Do not stay between lifting device and track and between track and combine harvester.
Be careful: risk of injury.

5. Install the original M20 bolts on the combine axle flange and tight alternate.

6. Tight definitely in cross sequence the M20 screws at 620±10 Nm.
6.3 Installing Shaft Kit – 2A-1523-100

1. **On right side**
   Mount the supplied shaft 1002653 (# 3) connecting it to the combine transmission by the original sleeve and to the track system by the supplied sleeve 1002349 (# 1); lock the sleeve with 2F-0441 M10x1,5x80 bolt (# 5), 2F-0083 M10 washer (# 4), 2F-0450 M10 nut (# 6) and the retaining ring 2F-0478(# 7).

   **On left side**
   Mount the supplied shaft 1002353 (# 2) connecting it to the combine transmission by the original sleeve and to the track system by the supplied sleeve 1002349 (# 1); lock the sleeve with 2F-0441 M10x1,5x80 bolt (# 5), 2F-0083 M10 washer (# 4), 2F-0450 M10 nut (# 6) and the retaining ring 2F-0478(# 7).

2. Remove the rotation stopper [L] after unscrewing the bolt [Q].

   **WARNING**
   Failure to remove the rotation stopper during operation may cause critical overload on the machine.
3. Install 2x 1001756 crossbars (#1) by using 4x 2F-0323 M20x2,5x50 bolts (#10) and 4x 2F-0275 M20 washers (#9) on both sides. Adjust the position of the crossbars with 1001814 (#2) & 1001815 (#3) shims. Torque all the bolts at 400 Nm.

6.4 Track System Removal Instructions
Follow the instructions in reverse sequence for the track system dismount from the combine harvester. Prior to removing the track system, install the rotation stopper onto the track system.

**WARNING**
Mount the rotation stopper before track system dismount to avoid dangerous movements of the gearbox and to lock it in correct position for the following installation.

**WARNING**
Install original or backup protections and the ladder in conformity with the safety rules before starting up the engine.

**WARNING**
The rubber track has the possibility to move transversally ¼ - ½ in (8-10 mm) each side. Verify that clearance between the track and the combine harvester body is suitable in all pivoting positions of the track.