

INSTALLATION INSTRUCTION

CONVERSION TRACK SYSTEM

CPB-495JDSWT
2P-0113

Models 25/26/30/36Q17MK
for John Deere S, W, T Series Combines




CAMSO

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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 and 36 mm sockets
- 3/4" drive torque wrench (range of at least 440 ft-lbs to 620 ft-lbs)
- 3/4" drive extension (12")
- 3/4" drive impact gun
- Lifting straps (capable of lifting 2000 lbs for final drive ~~and speed multiplier install~~ 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 John Deere S, W, T Series Combines

5.0 Installation Kit Parts Breakdown

5.1 Fitment Kit: 25" version on W/T series

Part Number	Description	Quantity
1002616	Dowel pin	4
1002634	Shaft	2
102349	Sleeve	2
2F-0478	Retaining ring	2
2F-0441	Screw M10x80	2
2F-0083	Washer M10	2
2F-0450	Nut M10	2
1000956	Tensioning hose	1

5.2 Fitment Kit: 26" version on S series

Part Number	Description	Quantity
1002616	Dowel pin	4
1002614	RHS (short) shaft	1
1002615	LHS (long) shaft	1
102349	Sleeve	2
2F-0478	Retaining ring	2
2F-0441	Screw M10x80	2
2F-0083	Washer M10	2
2F-0450	Nut M10	2
1000956	Tensioning hose	1

5.3 Fitment Kit: 30" version on W/T series

Part Number	Description	Quantity
1002458	Long dowel pin	2
1002459	Dowel pin	2
1002465	Spacer	2
2F-0197	Screw, M10x25	2
2F-0333	Washer, M10	2
2F-0490	Stud bolt, M24	12
2F-0485	Nordlock washer, M24	12
2F-0489	Nut, M20x60	12
1002636	Shaft	2
102349	Sleeve	2
2F-0478	Retaining ring	2
2F-0441	Screw M10x80	2
2F-0083	Washer M10	2
2F-0450	Nut M10	2
1000956	Tensioning hose	1

5.4 Fitment Kit: 30" version on S series

Part Number	Description	Quantity
1002458	Long dowel pin	2
1002459	Dowel pin	2
1002465	Spacer	2
2F-0197	Screw, M10x25	2
2F-0333	Washer, M10	2
2F-0490	Stud bolt, M24	12
2F-0485	Nordlock washer, M24	12
2F-0489	Nut, M20x60	12
1002618	RHS (short) shaft	1
1002619	LHS (long) shaft	1
102349	Sleeve	2
2F-0478	Retaining ring	2
2F-0441	Screw M10x80	2
2F-0083	Washer M10	2
2F-0450	Nut M10	2
1000956	Tensioning hose	1

5.5 Fitment Kit: 36" version on W/T series

Part Number	Description	Quantity
1002616	Dowel pin	8
1002623	RHS adapter	1
1002624	LHS adapter	1
2F-0002	Hex. bolt, M24x80	12
2F-0485	Nordlock washer, M24	12
1002638	Shaft	2
102349	Sleeve	2
2F-0478	Retaining ring	2
2F-0441	Screw M10x80	2
2F-0083	Washer M10	2
2F-0450	Nut M10	2
1000956	Tensioning hose	1

5.6 Fitment Kit: 36" version on S series

Part Number	Description	Quantity
1002616	Dowel pin	8
1002623	RHS adapter	1
1002624	LHS adapter	1
2F-0002	Hex. bolt, M24x80	12
2F-0485	Nordlock washer, M24	12
1002631	RHS (short) shaft	1
1002632	LHS (long) shaft	1
102349	Sleeve	2
2F-0478	Retaining ring	2
2F-0441	Screw M10x80	2
2F-0083	Washer M10	2
2F-0450	Nut M10	2
1000956	Tensioning hose	1

6.0 Track System Installation

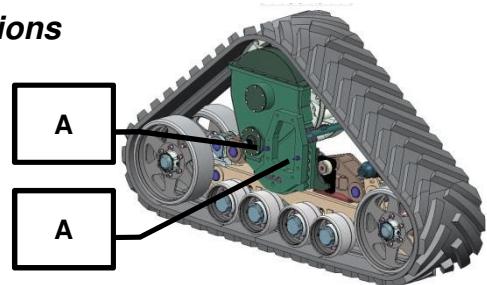
6.1 Handling and preparation of the Track System

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.

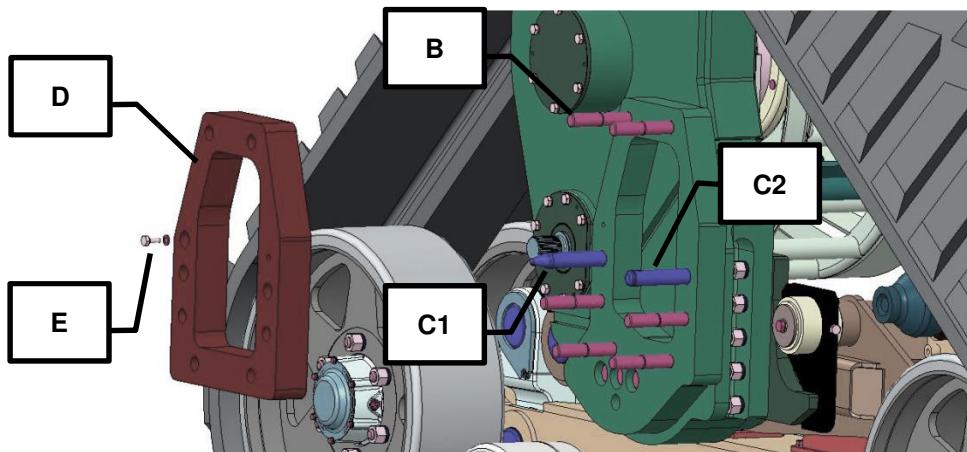
6.1.1 Preparation of the Track System: 25" and 26" versions

1. Mount 2 dowel pins [A] on the track system gearbox, as shown.



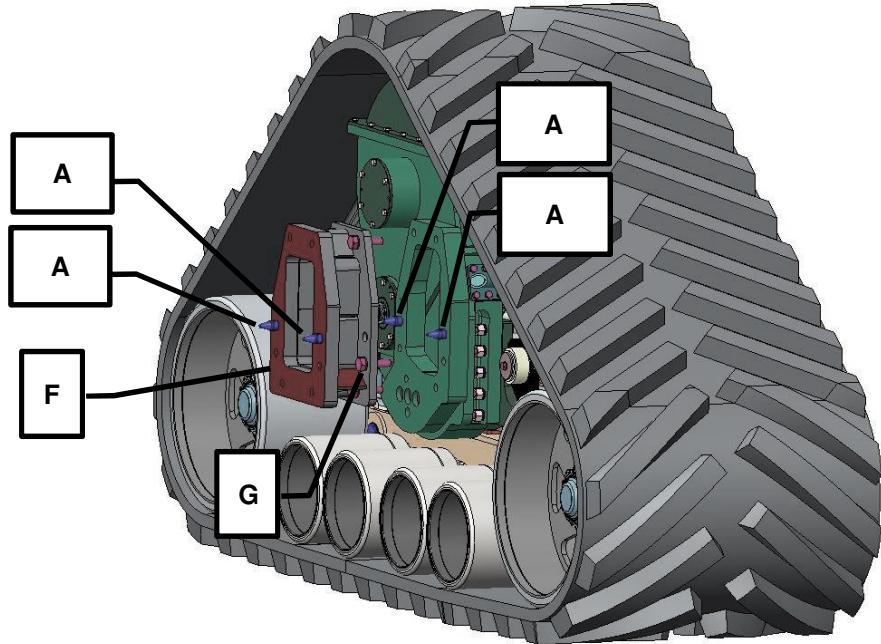
6.1.2 Preparation of the Track System: 30" version

1. Mount Nr.6 studs [B] and tighten them at 700 ± 20 Nm.
2. Mount 2 dowel pins on the track system gearbox, a longer one [C1] on the front and a shorter one [C2] on the rear, as shown below.
3. Mount the spacer [D] and secure it by the Nr.1 screw M10x25 [E] and related washer.



6.1.3 Preparation of the Track System: 36" version

1. Mount 2 dowel pins [A] on the track system gearbox.
2. Mount the adapter [F] on the gear box flange by using Nr.6 M24x80 bolts [G] and related Nordlock washers.
3. Tight them in cross sequence at 700 ± 20 Nm.
4. Mount 2 dowel pins [A] on the adapter.



6.2 Combine Harvester Preparation

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.



WARNING

Installation of the rubber track system to the combine harvester final drive must engage fully on the flange plane. Any interference with the flange with the un-machined central area of the final drive shaft must be removed.

Should the center pilot diameter of the adapter or spacer be not correct or for any other installation problem, contact your Dealer or the Manufacturer.

6.3 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.

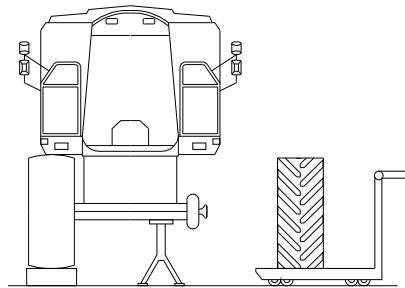


WARNING

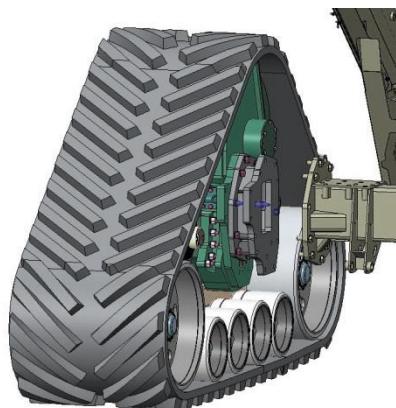
Safety of the installation depends on the right operation in lifting and supporting the combine harvester. Check the work area thoroughly and work in a level area.

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 M24 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. Take care that the rear of the track is on the tensioning cylinder side.



WARNING

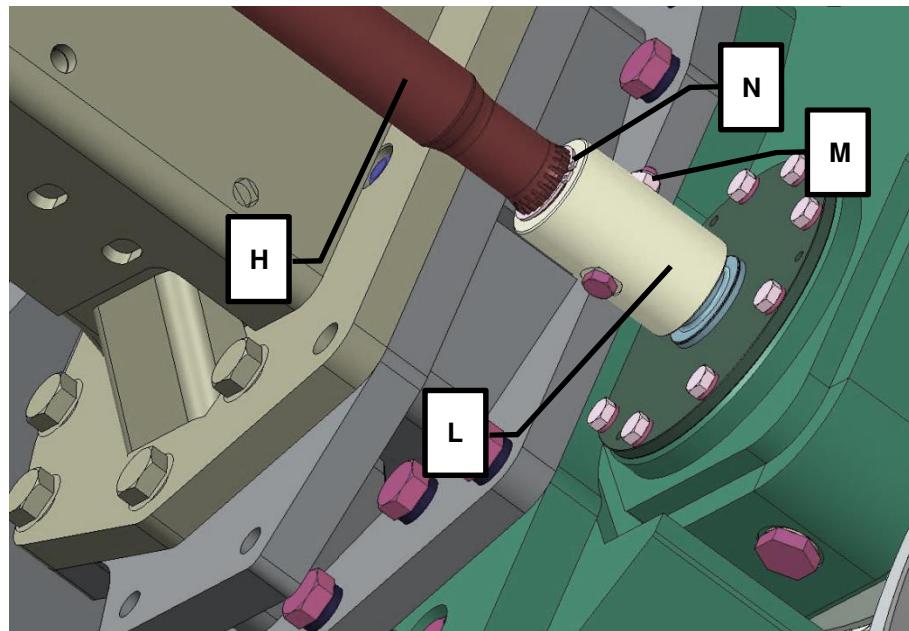
Should a motorized lifting device be used, assistance on ground during operation of handling, coupling and assembly is needed.

Do not stay between lifting device and track and between track and combine harvester.

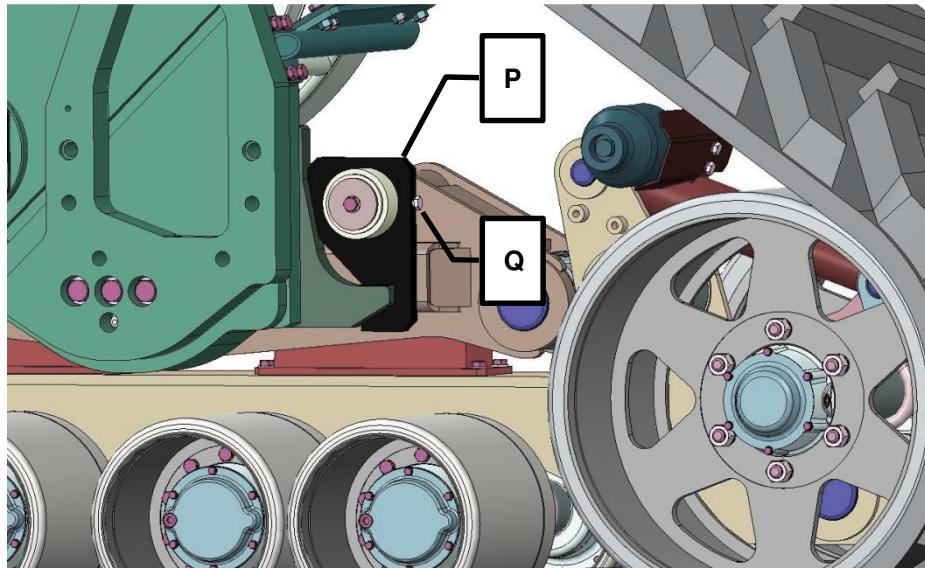
Be careful: risk of injury.

5. Install the original M20 bolts on the combine axle flange and tight alternate.
6. Tight definitely in cross sequence the M24 fasteners at 700 ± 20 Nm.

7. Mount the supplied shaft [H] (the shorter on the RHS), connecting it to the combine transmission by the original sleeve and to the track system by the supplied sleeve [L]; lock the sleeve with the M10 bolt [M] and the retaining ring [N].



8. Remove the rotation stopper [P] after unscrewing the bolt [Q].



WARNING

Failure to remove the rotation stopper during operation may cause critical overload on the machine.

9. Repeat the operations 2 through 8 on the opposite side to install the second track.

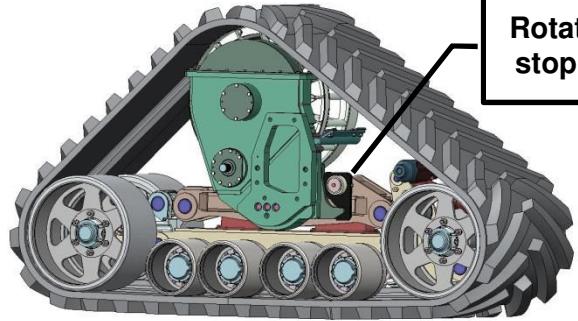
6.4 Track System Removal Instructions

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 $\frac{1}{4}$ - $\frac{1}{2}$ 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.

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