



# Service Repair Manual

## **Models**

# 527 TRACK SKIDDER

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Product: TRACK SKIDDER

Model: 527 TRACK SKIDDER 4NS

Configuration: 527 TRACK-TYPE SKIDDER Grapple 4NS00001-UP (MACHINE) POWERED BY 3304 Engine

## Disassembly and Assembly 527 Track-Type Skidder Machine Supplements

Media Number -SEN9426-04

Publication Date -01/11/2009

Date Updated -03/11/2009

i01188441

# Grapple Crosshead - Remove and Install

SMCS - 5569-010

## Removal Procedure

Start By:

- A. Remove the grapple head.

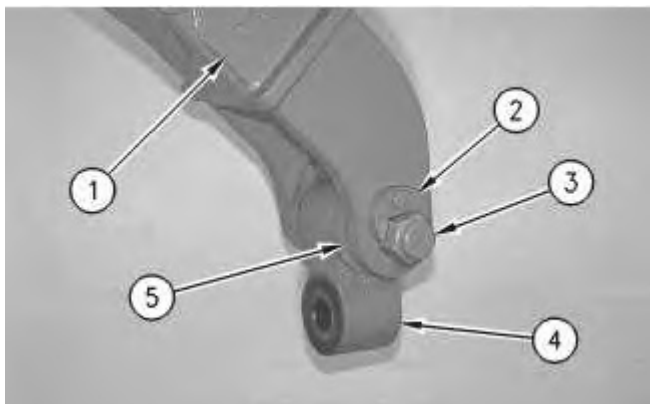


Illustration 1

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1. Remove the bolt and retainer (2) .
2. Use two people to separate crossblock (5) from jib boom (1). The approximate weight of the crossblock is 34 kg (75 lb).
3. Remove the nut and pin (3). Remove the two friction discs, bushings (5), and crossblock (4) from jib boom (1) .

## Installation Procedure

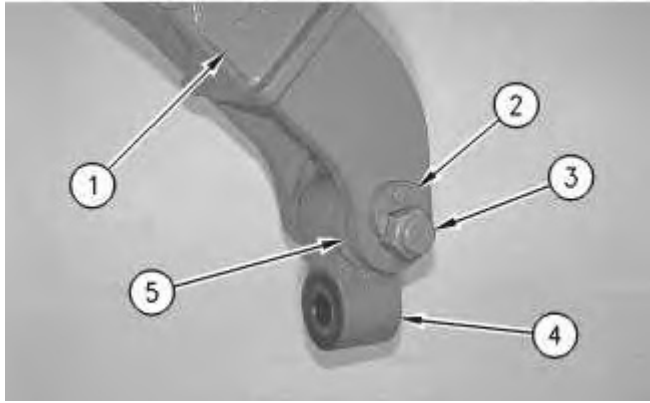


Illustration 2

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1. Use two people to install crossblock (4) in jib boom (1). The approximate weight of the crossblock is 34 kg (75 lb).
2. Install the two friction discs, bushing (5), and pin (3) in the jib boom. Install the nut on pin (3) .
3. Install retainer (2) and the bolt.

**End By:** Install the grapple head.

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## Disassembly and Assembly 527 Track-Type Skidder Machine Supplements

Media Number -SEN9426-04

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# Grapple Arch Cylinder (Fixed Boom) - Remove

SMCS - 5557-011

## Removal Procedure

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### NOTICE

Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and repair of the product. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids.

Refer to Special Publication, NENG2500, "Caterpillar Tools and Shop Products Guide" for tools and supplies suitable to collect and contain fluids on Caterpillar products.

Dispose of all fluids according to local regulations and mandates.

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Personal injury can result from hydraulic oil pressure and hot oil.

Hydraulic oil pressure can remain in the hydraulic system after the engine has been stopped. Serious injury can be caused if this pressure is not released before any service is done on the hydraulic system.

Make sure all of the attachments have been lowered to the ground, and the oil is cool before removing any components or lines. Remove the oil

**filler cap only when the engine is stopped, and the filler cap is cool enough to touch with your bare hand.**

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1. Use the following procedure to release the pressure in the hydraulic system:
  - a. Lower the attachments to the ground.
  - b. Shut off the engine.
  - c. Move the control levers through the full travel distance of the levers. This will relieve any pressure in the pilot system.
  - d. Slowly loosen the filler cap on the hydraulic oil tank in order to release the pressure.
  - e. Tighten the filler cap on the hydraulic oil tank.
  - f. The pressure in the hydraulic system has now been relieved. Lines and components can now be removed.

**Note:** Put identification on all lines, hoses, wires, and tubes for installation purposes. Install a cap or plug on all lines, hoses, and tubes that are disconnected. The caps and/or plugs prevent the loss of fluid and contaminants cannot enter the system.



Illustration 1

g00636333

2. Lower the arch so that the grapple is sitting on a hard, flat surface. Support the arch in the area that is indicated by the arrow in Illustration 1.
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