

Product: TRACK-TYPE TRACTOR

Model: D4C III TRACK-TYPE TRACTOR 1FW

Configuration: D4C & D4C LGP, Series XL SERIES III TRACTORS Power Shift 1FW00001-UP (MACHINE) POWERED BY 3046 Engine

## Disassembly and Assembly D3C, D4C AND D5C SERIES II TRACTORS POWER TRAIN

Media Number -SEN5337-02

Publication Date -01/08/2004

Date Updated -15/02/2017

SEN53370009

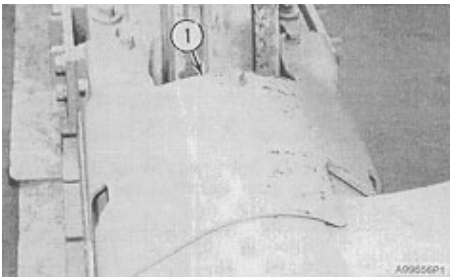
### Front Idlers

SMCS - 4159-015; 4159-016; 4159-010

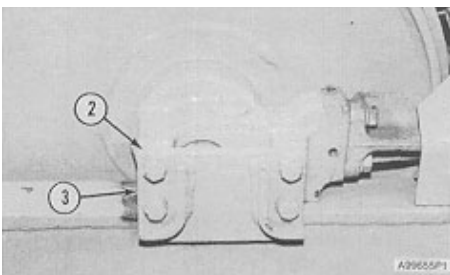
### Remove & Install Front Idlers

Start By:

a. separation of tracks

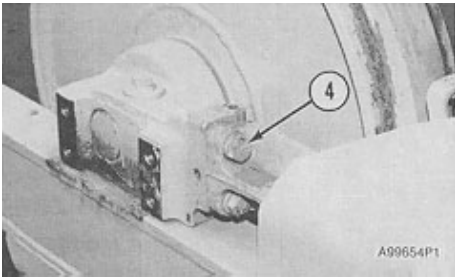


1. Remove cover (1) from the track roller frame.

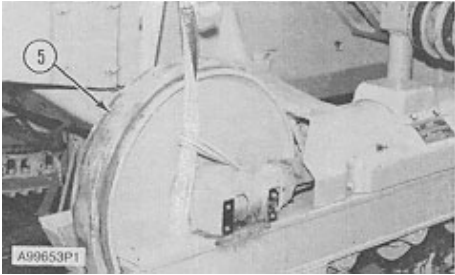


**NOTE:** Put identification on shims for correct installation.

2. Remove plates (3) and shims (2) from each side of the idler.



3. Remove four bolts (4) that hold the idler to the yoke assembly.



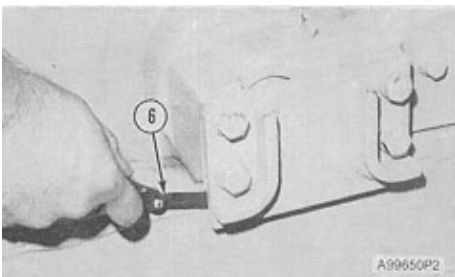
4. Fasten two nylon straps as shown to the idler. Fasten a hoist and slide idler (5) forward and remove idler (5) from the track roller frame. The weight is **81 kg (180 lb)**.

**NOTE:** The following steps are for installation of the front idlers.

5. Fasten two nylon straps and a hoist to idler (5). Put the idler in position on the track roller frame.

6. Install four bolts (4) that hold the idler to the yoke assembly.

7. Install original shims (2) and plate (3) on each side of the idler.



8. Use feeler gauge (6) to check the clearance between plate (3) and the track roller frame. Remove or add shims (2) as needed to get a clearance of **1.5 mm (.06 in)** between the plates and track roller frame.

9. Install cover (1).

End By:

a. connection of tracks

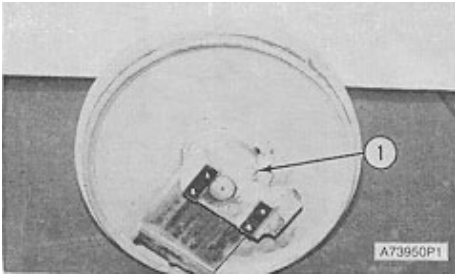
## **Disassemble Front Idlers**

Tools Needed		A
FT1316	Adapter Assembly	1

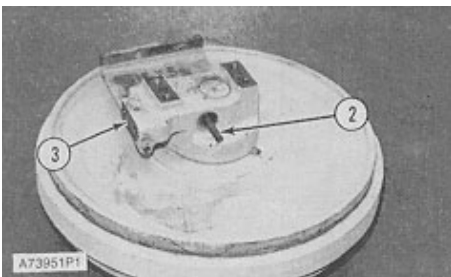
FT1316 Adapter Assembly

Start By:

a. remove front idler



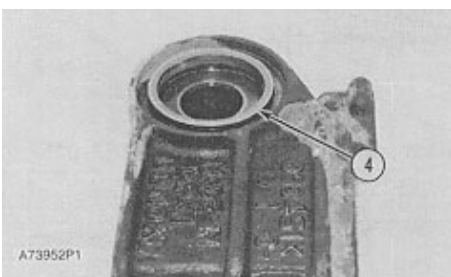
1. Remove plug and drain from idler. Install plug. Remove bolt and washer (1).



2. Install a 3/8 " - 16 NC forcing screw (2) in the pin. Push the pin from the bearing with a hammer.

3. Remove bearing (3) from the front idler.

**NOTE:** Keep Duo-Cone seal group together for correct assembly.



4. Remove outer half of Duo-Cone seal (4) from the bearing.

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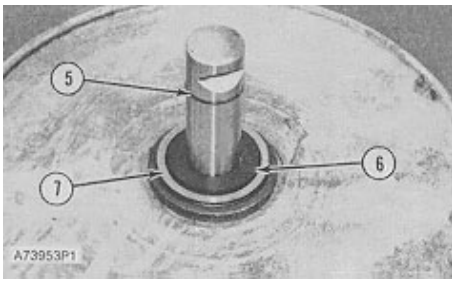
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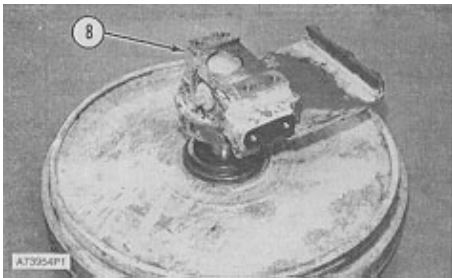
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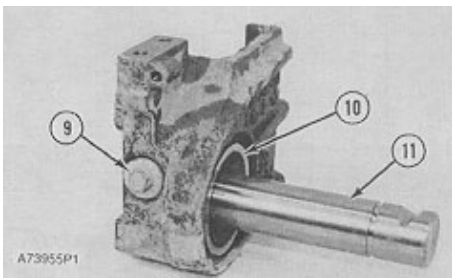


5. Remove O-ring seal (5) from the shaft.

6. Remove washer (6). Remove inner half of Duo-Cone seal (7) from the idler.



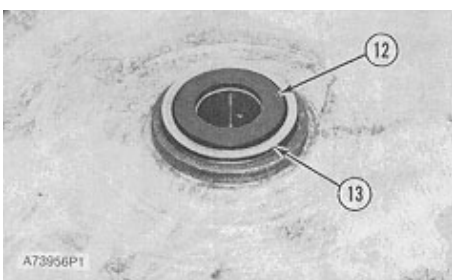
7. Turn the idler as shown and remove bearing (8) and the shaft.



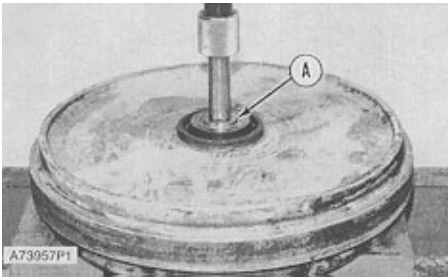
8. Remove bolt and washer (9). Do Step 2 to remove the pin.

9. Remove shaft (11) from the bearing. Remove the O-ring seal from the shaft.

10. Remove outer half of Duo-Cone seal (10) from the bearing.



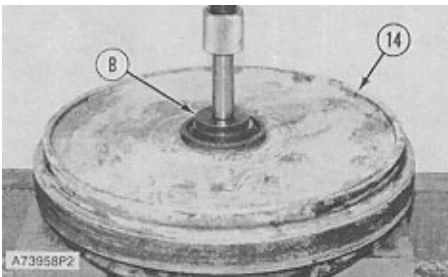
11. Remove washer (12). Remove inner half of Duo-Cone seal (13).



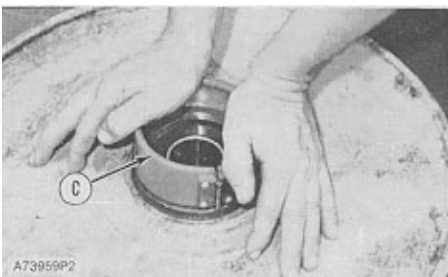
10. Remove the bushings from the idler with tooling (A) and a press.

## Assemble Front Idlers

Tools Needed		A	B
1P510	Driver Group	1	
5M2160	Duo-Cone Seal Installer		1



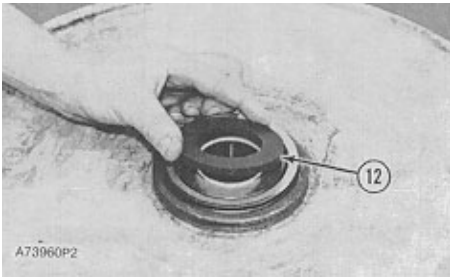
1. Check all parts for damage. If damaged, use new parts for replacement.
2. Make sure all parts are clean and free of dirt and foreign material.
3. Install the bushings in idler (14) with tooling (B) and a press.



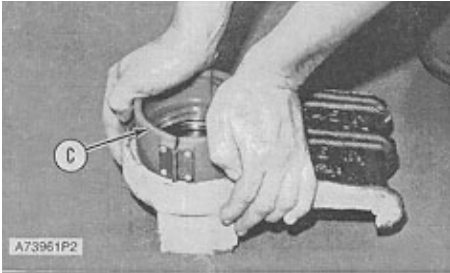
**NOTE:** See the topic, Installation Of Conventional Duo-Cone Seals, before installing any of the Duo-Cone seals.

**NOTE:** The rubber seals and all surfaces that make contact with the seals must be clean and dry with no damage to the surface. After installation of the seals, put oil on the contact surfaces of the Duo-Cone seals.

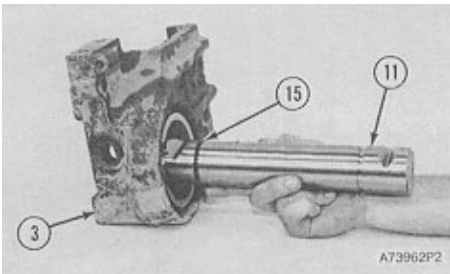
4. Install the inner half of the Duo-Cone seal with tool (C) in the idler.



5. Install washer (12) with groove toward the idler.



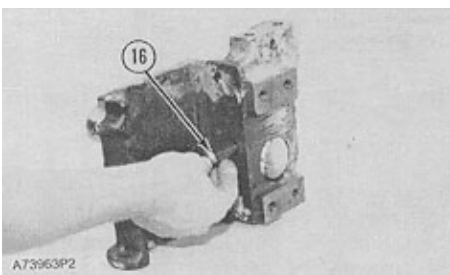
6. Install the outer half of the Duo-Cone seal with tool (C) in the bearing.



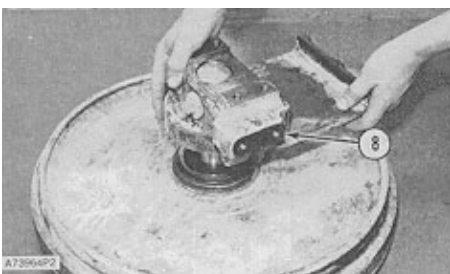
7. Install O-ring seal (15) on shaft (11).

**NOTE:** Install shaft as shown to prevent damage to O-ring seal. Make an alignment of pin hole in bearing and the notch in the shaft.

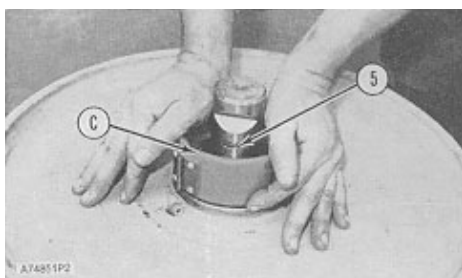
8. Install the shaft in bearing (3).



9. Install pin (16) in the bearing. Install the bolt and washer that hold the pin in position.

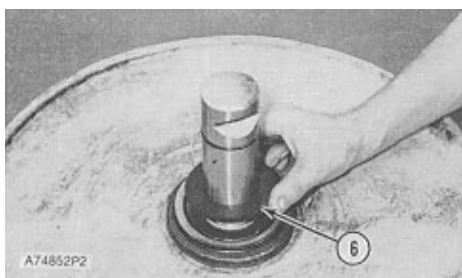


10. Install bearing assembly (8) in the idler.



11. Turn the idler as shown and install O-ring seal (5) on the shaft.

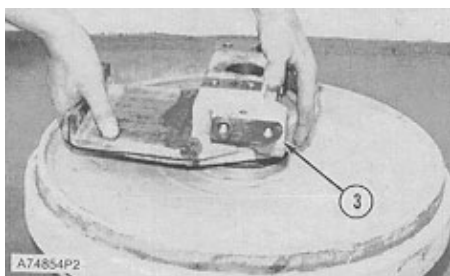
12. Install the inner half of the Duo-Cone seal with tool (C) in the idler.



13. Install washer (6) with groove toward the idler.

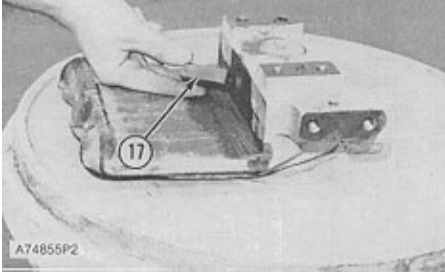


14. Install the outer half of the Duo-Cone seal in other bearing (3) with tool (C).

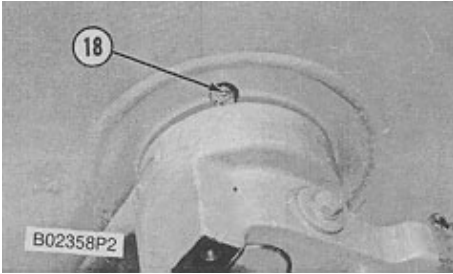


15. Put bearing (3) in position over the shaft.

**NOTE:** The pin hole in the bearing must be in alignment with the notch in the shaft.



**16.** Install pin (17) in the bearing. Install the washer and bolt that hold the pin in position in the bearing. Tighten the bolt to a torque of **54 N·m (40 lb ft)**. Hit pin (17) with a hammer and tighten the bolt again to a torque of **70 ± 14 N·m (50 ± 10 lb ft)**.



**17.** Remove plug (18) and put **570 cc (1.2 pint)** of clean **SAE 30** oil in the idler. Install plug (12).

End By:

**a.** install front idlers

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## Disassembly and Assembly D3C, D4C AND D5C SERIES II TRACTORS POWER TRAIN

Media Number -SEN5337-02

Publication Date -01/08/2004

Date Updated -15/02/2017

SEN53370010

# Hydraulic Track Adjuster Seals

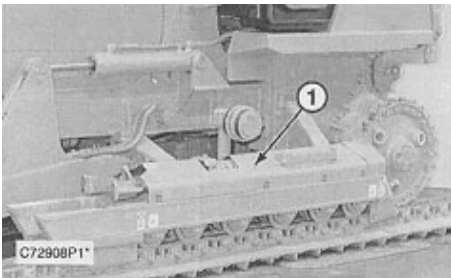
SMCS - 4157-010

## Remove & Install Hydraulic Track Adjuster Seals

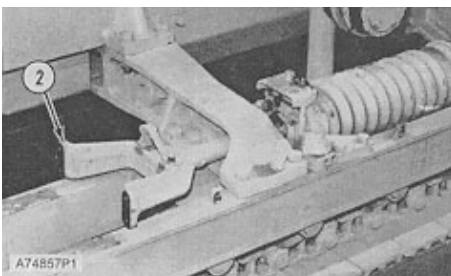
Tools Needed		A
1P510	Driver Group	1

Start By:

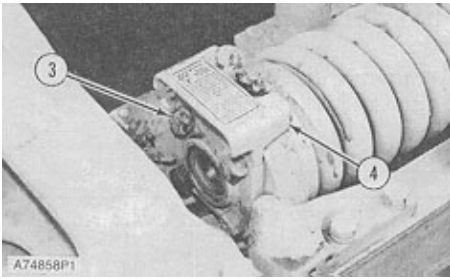
- a. remove front idlers



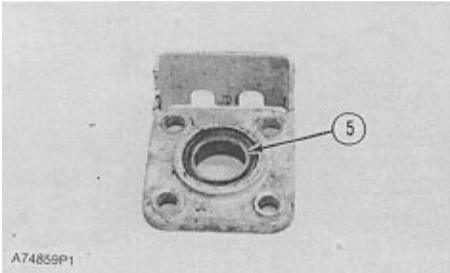
1. Remove track roller frame and guards (1).



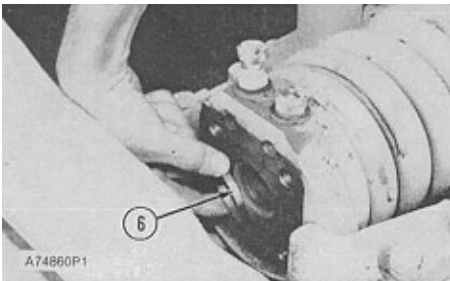
2. Remove yoke assembly (2).



3. Remove four bolts and lockwashers (3). Remove head assembly (4).



4. Remove seal (5) from the head.



5. Remove ring (6) and the seal from the cylinder assembly.

**NOTE:** The following steps are for installation of hydraulic track adjuster seals.

6. Install the seal with the lip toward the inside of the spring.

7. Install ring (6).

8. Install seal (5) in the head with tooling (A). The lip of the seal must be toward the front idler.

**NOTE:** Put a small amount of the lubricant to be sealed on the lips of seals before and after installation.

9. Put head (4) in position and install the four lockwashers and bolts that hold it in position.

10. Install yoke assembly (2).

11. Install the track roller frame guards.

End By:

a. install front idlers

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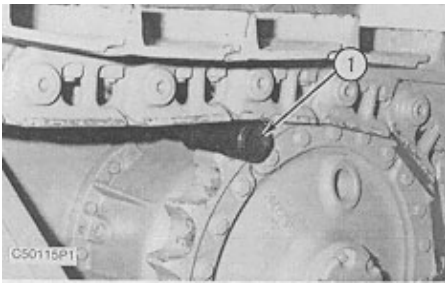
Date Updated -15/02/2017

SEN53370011

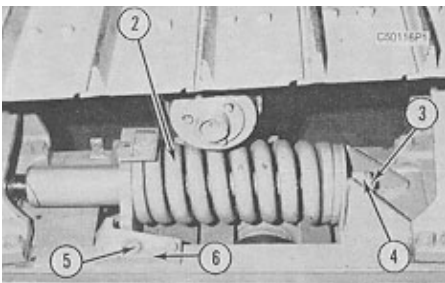
### Recoil Springs

SMCS - 4158-010

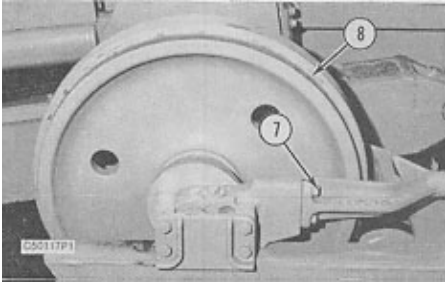
### Remove & Install Recoil Springs



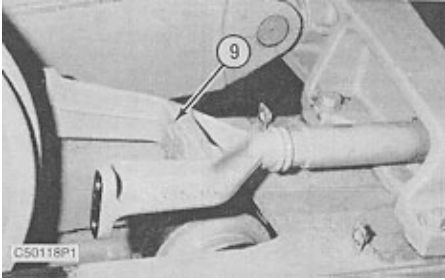
1. Remove spring guard assembly (not shown).
2. Put metal slug (1) in the sprocket as shown. Remove the carrier roller. (See Remove And Install Carrier Roller).



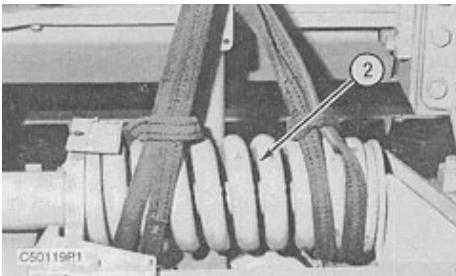
3. As the machine is moved to the rear with the slug in position, recoil spring (2) will be put under compression.
4. Move the machine until the front pilot of the recoil spring is approximately **3.175 mm (.125 in)** away from the stops.
5. Remove bolt (3) and washer. Tighten nut (4) by hand to hold the recoil spring in a shorter position. Separate the track at this time. (See Track Separation).
6. Remove four bolts (5) and remove two stops (6).



7. Remove four bolts (7) and move idler assembly (8) towards front of tractor.



8. Pull yoke assembly (9) out of recoil spring (2).



9. Fasten two straps as shown and a hoist to the recoil spring (2) and remove. Weight is approximately **45 kg (100 lb)**.

**NOTE:** Install in the reverse order.

**NOTE:** If a replacement of recoil spring is to be made, put the new spring in position and put the spring under compression until the distance (X) is **47.6 cm (18.75 in)**. Tighten nut (11) to hold the spring and retainers.

10. Connect track.

11. Install carrier roller.

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SEN53370012

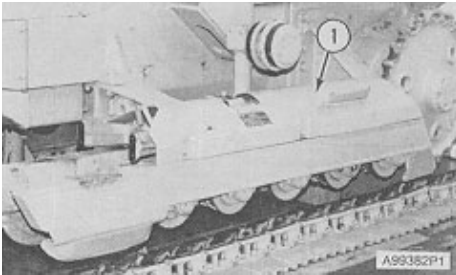
### Track Roller Frames

SMCS - 4151-010

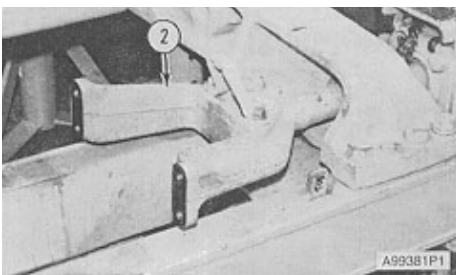
## Remove & Install Track Roller Frames

Start By:

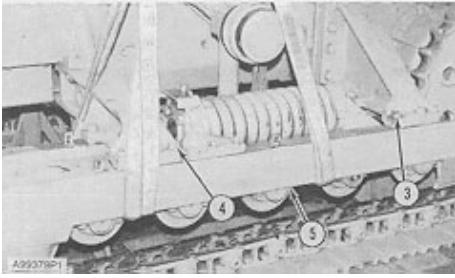
a. remove front idlers



1. Remove recoil spring guard (1) from the track roller frame.



2. Remove yoke assembly (2) from the track roller frame.



3. Fasten two straps and a hoist to the track roller frame.

4. Remove bolts (3) and (4) that hold the track roller frame in place. Remove track roller frame (5). The weight is **320 kg (700 lb)**.

**NOTE:** The following steps are for the installation of the track roller frames.

5. Fasten two straps and a hoist to track roller frame (5). Put the track roller frame in position on the machine.

6. Install bolts (3) and (4) that hold the track roller frame in position. Tighten the bolts to a torque of  **$360 \pm 47 \text{ N}\cdot\text{m}$  ( $265 \pm 35 \text{ lb ft}$ )**.

7. Install yoke assembly (2).

8. Install recoil spring guard (1) on the track roller frame.

End By:

a. install front idlers

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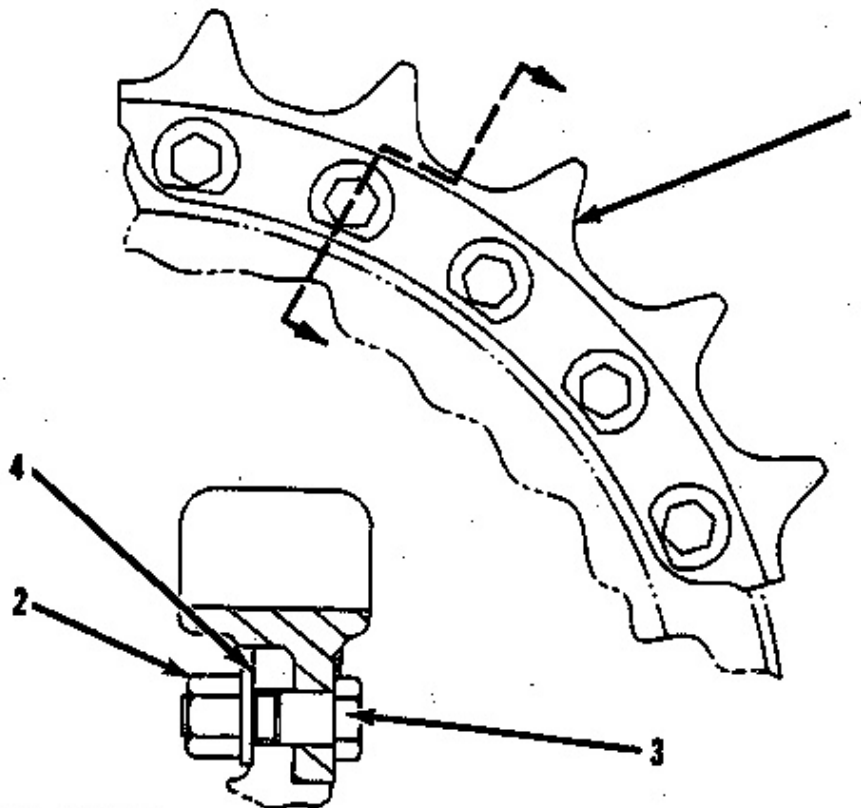
### Sprocket Segments

SMCS - 4164-010

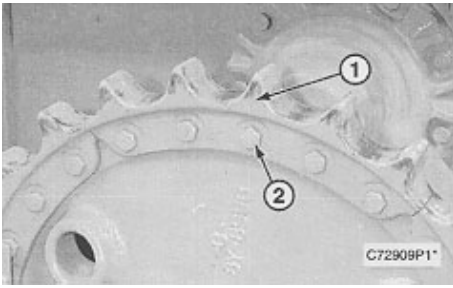
### Remove & Install Sprocket Segments

Start By:

a. separation of track



**C24487P2**



1. Remove five nuts (2) and bolts (3), washers (4) and remove sprocket segment (1) from the hub.

**NOTE:** There are a total of five sprocket segments per sprocket hub.

**NOTE:** The following steps are for installation of the sprocket segments.

2. Make sure the surfaces of the sprocket segment and the hub that make contact are clean and free of paint.

3. Put clean **SAE 30W** oil on the threads of the bolts.

4. Put sprocket segment (1) in position on the hub, and install five bolts (3) with the head of the bolts against the sprocket segment. Install five nuts (2). For the D3C and D4C, tighten the bolts to a torque of  **$70 \pm 10 \text{ N}\cdot\text{m}$  ( $50 \pm 7 \text{ lb ft}$ )**, then tighten the bolts for an additional **120 degrees**. For the D5C tighten the bolts to a torque of  **$175 \pm 40 \text{ N}\cdot\text{m}$  ( $130 \pm 30 \text{ lb ft}$ )**, then tighten the bolts for an additional **120 degrees**.

End By:

a. connection of track

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